9th FENS FORUM OF NEUROSCIENCE

Milan | Italy July 5 – 9, 2014

Organised by the Federation of European Neuroscience Societies | FENS

Hosted by the Società Italiana di Neuroscienze | SINS

PROGRAMME

www.fens.org/2014

FENS Federation of European Neuroscience Societies

Call for Symposium and Technical Workshop Proposals

10th FENS Forum of Neuroscience

July 2-6, 2016 | Copenhagen, Denmark

Organized by the Federation of European Neuroscience Societies (FENS)
Hosted by the Danish Society for Neuroscience

Submission of proposals: February 2 – March 2, 2015

The Programme Committee will establish the scientific programme of the FENS Forum 2016 on the basis of proposals from scientists from all over the world and all areas of neuroscience research.

For instructions and application for symposium and technical workshop proposals, please connect to **http://forum.fens.org/2016**

Copenhagen

A must in Europe for neuroscientists all over the world

Federation of European Neuroscience Societies | FENS
http://www.fens.org

TABLE OF CONTENTS

Welcome 02
FENS Organisation 03
FENS Forum 2014 Organisation 05
Travel Grants 06
Acknowledgements 07
Supporters 08

Programme Information

Plenary & Special Lectures 13
Special interest Events 15
Networking Events 16
Business Meetings 20
Satellite Events 21
Programme at a Glance 24

General Information

Information for Speakers 30
Poster Information 31
Meeting Information 32
MiCo Milano Floor Plans 34
Information at your Fingertips 36

Exhibition

List of Exhibitors 38
Exhibition Floor Plan 38
Company Profiles 40

SCIENTIFIC PROGRAMME

Saturday, 5th July

Scientific Programme 69

Sunday, 6th July

Scientific Programme 75
Poster Presentation I 87
Poster Presentation II 137

Monday, 7th July

Scientific Programme 185
Poster Presentation III 195
Poster Presentation IV 245

Tuesday, 8th July

Scientific Programme 295
Poster Presentation V 305
Poster Presentation VI 353

Wednesday, 9th July

Scientific Programme 403
Poster Presentation VII 409

Author Index 459

WELCOME

Dear Colleagues,

On behalf of FENS, I would like to welcome all delegates to the 9th FENS Forum of Neuroscience, in Milan.

The biennial FENS Forum provides a unique opportunity to meet and discuss the most recent advances in basic neuroscience and research on the many disorders of the brain. The programme of the FENS Forum is outstanding, and attracts a world-wide audience. It includes plenary and special lectures, a variety of symposia, technical workshops; all selected from ideas proposed by the neuroscience community. As always, a large part of the Forum is devoted to poster presentations, to allow stimulating interaction between participants.

The 9th FENS Forum is hosted by the Italian Society of Neuroscience. We thank the Host Society Committee, chaired by Marina Bentivoglio, for preparing a very attractive programme of scientific and social events. No doubt, this will contribute to turning the 9th FENS Forum into a memorable experience.

We also thank all the FENS' member societies and our partners for their continued support. It is through a joined effort that we can make FENS and its Forum a success.

We very much hope that you will enjoy all aspects of the FENS Forum 2014 in Milan!

Marian Joëls
FENS President

FENS ORGANISATION

FENS Governing bodies

FENS Governing Council
The FENS Governing Council consists of representatives from the FENS member societies and members of the Executive Committee.

FENS Executive Committee
Marian Joëls, The Netherlands, President
Sigismund Huck, Austria, Secretary-General
Mike G. Stewart, United Kingdom, Treasurer
Kyriáki Thermós, Greece, Chair Communication Committee
Marina Bentivoglio, Italy, Chair Host Society Committee
Fernando de Castro, Spain, interim Chair NENS Committee
Silvia Arber, Switzerland, Chair Programme Committee
Martine Ammassari-Teule, Italy, Chair Schools Committee

FENS Advisory Board
Monica Di Luca, Italy, President-elect
Sten Grillner, Sweden, Past President
Marianne Amalric, France, Secretary General-elect
Vincent Prévot, France, Treasurer-elect

FENS Standing Committees

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Javier Cudeiro, Spain
Małgorzata Kossut, Poland
Flavio Moroni, Italy
Yves Tillet, France

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Ferdinando Rossi (Deceased), Italy
Anne King, United Kingdom
Heiko Luhmann, Germany
Tomi Taira, Finland

Schools Committee
Martine Ammassari-Teule, Italy, Chair
László Acsády, Hungary
Verity J. Brown, United Kingdom
Kerstin Krieglstein, Germany
Rebecca Matsas, Greece

Programme Committee
See FENS Forum Organisation (page 05)

FENS Special Committees

FENS Featured Regional Meeting (FFRM) Committee
Monica Di Luca, Italy, Chair
Silvia Arber, Switzerland
Leonidas Stefanis, Greece
Martine Ammassari-Teule, Italy
Ferdinando Rossi (Deceased), Italy
Marian Joëls, The Netherlands

Committee on Animals in Research
Roberto Caminiti, Italy, Chair
Micky Goldberg, United States
François Lachapelle, France
Roger Lemon, United Kingdom
Pieter Roelfsema, The Netherlands
Stefan Treue, Germany

History of Neuroscience Committee
Helmut Kettenmann, Germany, Chair
Michael Hagner, Switzerland
Ulf Norrsell, Sweden
Kyriáki Thermós, Greece
Nicholas Wade, United Kingdom

Neuroscience Conferences Committee
Pico Caroni, Switzerland, Chair
Tobias Bonhoeffer, Germany
Ray Dolan, United Kingdom
Ole Kiehn, Sweden
Richard Morris, United Kingdom

FENS MEMBER SOCIETIES

National Societies

- Armenian Neuroscience Society
- Austrian Neuroscience Association
- Belgian Society for Neuroscience
- Brain Research Society of Finland
- British Neuroscience Association
- Croatian Society for Neuroscience
- Czech Neuroscience Society
- Danish Society for Neuroscience
- Dutch Neurofederation
- Georgian Neuroscience Association
- German Neuroscience Society
- Hellenic Society for Neuroscience
- Hungarian Neuroscience Society
- Icelandic Society for Neuroscience
- Israel Society for Neurosciences
- Lithuanian Neuroscience Association
- National Neuroscience Society of Romania
- Neuroscience Ireland
- Neuroscience Society of Turkey
- Norwegian Neuroscience Society
- Polish Neuroscience Society
- Russian Neuroscience Society
- Serbian Neuroscience Society
- Slovak Society for Neuroscience
- Slovenian Neuroscience Association
- Sociedad Española de Neurociencia
- Sociedade Portuguesa de Neurosciências
- Società Italiana di Neuroscienze
- Societé des Neurosciences
- Swedish Society for Neuroscience
- Swiss Society for Neuroscience
- Ukrainian Society for Neuroscience

Monodisciplinary Societies

- European Behavioural Pharmacology Society (EBPS)
- European Brain and Behaviour Society (EBBS)
- European College of Neuropsychopharmacology (ECNP)
- European Confederation of Neuropathological Societies (Euro-CNS)
- European Molecular and Cellular Cognition Society (EMCCS)
- European Sleep Research Society (ESRS)
- European Society for Neurochemistry (ESN)
- Federation of European Physiological Societies (FEPS)
- Society for Research on Nicotine and Tobacco - Europe Chapter (SRNT-E)
- The International Behavioural and Neural Genetics Society (IBANGS)

FENS is a member of the European Brain Council (EBC)
and of the International Brain Research Organisation (IBRO).

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FENS FORUM 2014 ORGANISATION

Programme Committee
Silvia Arber, Switzerland, Chair
Alexandru Babes, Romania (Physiology: neuronal excitability and synapse function)
Marina Bentivoglio, Italy (Host Society Committee chair)
Alain Chédotal, France (Development, disorders of the nervous system)
Rui Costa, Portugal (Behavior, motor systems)
Thomas Klausberger, Austria (Physiology: systems/network functions, computational neuroscience)
Oscar Marín, Spain (Development)
Concetta Morrone, Italy (Sensory and motor systems)
May-Britt Moser, Norway (Cognition, learning and memory, physiology)
Stéphane Oliet, France (Glia-neuron interactions)
Brigitte Roeder, Germany (Cognition and behavior)
Botond Roska, Switzerland (Vision, genetics, physiology)
John Rostas, Australia (Pacific Rim representative)
Erin Schuman, Germany (Molecular and cellular neuroscience)
Leonidas Stefanis, Greece (Disorders of the nervous system)
Tarja Stenberg, Finland (Homeostatic & neuroendocrine systems)
Scott Thompson, USA (SfN representative)

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Paolo Calabresi
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Giancarlo Panzica
Domenico Pellegrini-Giampietro
Maurizio Taglialatela

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Marina Pizzi
Alessandro Vercelli

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Giuseppe Giannotti
Martina Gabrielli
Francesco Resta

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Travel Grants

The following organisations have sponsored students and young investigators to attend the FENS Forum.

National Member Societies

Austrian Neuroscience Association: 5 grants of € 500
Belgian Society for Neuroscience: 6 grants € 350
French Neuroscience Society: 35 grants of € 500
German Neuroscience Society: 20 grants of € 500
Hellenic Society for Neuroscience: 4 grants of € 500
Lithuanian Neuroscience Association: 3 grants of € 300
National Neuroscience Society of Romania: 3 grants of € 400
Polish Neuroscience Society: 5 grants of € 500
Sociedad Española de Neurociencia: 30 grants of € 350
Sociedade Portuguesa de Neurosciências: 10 grants of € 500

International Societies

FENS acknowledges Kenes Group for its generous contribution to its travel grant programme.
Society for Neuroscience (SfN): 15 grants of $ 2000
R&D Systems: 10 grants of $ 1000

FENS IBRO/PERC

FENS IBRO/PERC grants: 160 travel grants of € 750

ACKNOWLEDGEMENTS

On behalf of the organisers, FENS wishes to thank the invited speakers and chairpersons who have accepted to contribute to the scientific programme, as well as all neuroscientists who have submitted symposia and workshop proposals to the Forum Programme Committee to establish the present scientific programme. The organisers also wish to thank the great number of scientists who submitted their abstracts for poster presentations, thus contributing to a large extent to the success of the FENS Forum 2014 in Milan.

Management and organisation

- FENS Offices in Brussels and Berlin
- Host Society Committee, Milan & Verona
- Kenes International

In addition the organisers would like to thank:

- The FENS - IBRO/PERC Travel Grant Committee:
  Sigismund Huck
  Marianne Amalric
  Silvia Arber
  Mike Stewart
  Micaela Morelli
  Alessandro Vercelli
  Pavla Jendelová
  Gabriel Róbert

- The French Society of Neuroscience:
  Dominique Poulain, Clémence Fouquet and Jean-Francis Renaudon

SUPPORTERS & CONTRIBUTORS

The organisers of the FENS Forum 2014 would like to express its gratitude and acknowledge the following long term partner organisations for their continued support to FENS:

» Boehringer Ingelheim
» European Journal of Neuroscience
» International Brain Research Organization (IBRO)
» The Brain Prize, Grete Lundbeck European Brain Research Foundation
» The Dana Foundation
» The European Dana Alliance for the Brain (EDAB)
» The Hertie Foundation
» The Kavli Foundation
» Wiley

The organisers would like to express its gratitude and acknowledge the following organisations and institutions for their support and contribution to the FENS Forum 2014:

Supporters:

» Kenes Group
» Università degli Studi di Milano

Contributors:

» 9th IBRO World Congress of Neuroscience
» Abcam
» Acraf S.p.A.
» Alomone Labs. Ltd.
» Alzheimer's Research UK
» Bio-Techne
» Biotelligences LLC
» Electrical Geodesics Inc.
» Elsevier B.V.
» ERA NET NEURON
» Fine Science Tools
» Fondation IPSEN
» Fondazione Cariplo
» Jove
» MQ: Transforming mental health
» Plexon Inc.
» Regione Lombardia
» Teva Italia S.r.l.
» The Dargut and Milena Kemali Foundation for Research in Neurosciences
» The European Brain and Behaviour Society (EBBS)
» Thermo Scientific
» TSE Systems GmbH

LONG TERM PARTNERS

Boehringer Ingelheim

EJN
European Journal of Neuroscience
The journal of FENS Federation of European Neuroscience Societies

IBRO

Grete Lundbeck European Brain Research Foundation
The Brain Prize

The Dana Foundation

The European Dana Alliance for the Brain

Gemeinnützige Hertie-Stiftung

The Kavli Foundation

Wiley

SUPPORTERS

CONTRIBUTORS

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PROGRAMME INFORMATION

www.fens.org/2014

FENS Federation of European Neuroscience Societies

Hellenic Society for Neuroscience

Israel Society for Neuroscience

Serbian Neuroscience Society

FENS Featured Regional Meeting 2015

Federation of European Neuroscience Societies

Nourishing Neuroscience in the Cradle of Culture

7-10 October 2015

Thessaloniki, Greece

Congress Secretariat:

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Website: www.events.gr

www.ffrm2015.com

PLENARY AND SPECIAL LECTURES

PLENARY LECTURES | Hall A

Saturday, July 05, 2014

18:00 - 19:00
PL01 - **Ray Dolan** (London, United Kingdom)
Reward, value and psychopathology
Kavli Foundation Lecture
Introduced by: Marian Joëls

Sunday, July 06, 2014

08:30 - 09:30
PL02 - **Anna Christina Nobre** (Oxford, United Kingdom)
Temporal expectations: the fourth dimension in attention
Introduced by: Sigismund Huck

17:30 - 18:30
PL03 - **Pico Caroni** (Basel, Switzerland)
Adjusting brain circuits for learning and memory
Introduced by: Richard Morris

Monday, July 07, 2014

08:30 - 09:30
PL04 - **Yang Dan** (Berkeley, USA)
Neuromodulation of brain states
Introduced by: Silvia Arber

17:30 - 18:30
PL05 - **Huda Zoghbi** (Houston, USA)
Rett and MECP2-asssociated disorders: from patients to genes and neurobiology
Presidential Lecture
Introduced by: Marian Joëls

Tuesday, July 08, 2014

08:30 - 09:30
PL06 - **Gilles Laurent** (Frankfurt, Germany)
Explorations of a simple visual cortex
Introduced by: Sten Grillner

17:30 - 18:30
PL07 - **Yoshiki Sasai** (Kobe, Japan)
Self-organization of neural structures and patterns in 3D stem cell culture
Introduced by: Botond Roska

Wednesday, July 09, 2014

08:30 - 09:30
PL08 - **Christine Holt** (Cambridge, United Kingdom)
Building connections: RNA-based mechanism of axon guidance
Introduced by: Monica Di Luc

13:00 - 14:00
PL09 - **Svante Pääbo** (Leipzig, Germany)
Of Neandertals, Denisovans and Modern Humans
Hertie Foundation Lecture
Introduced by: Rui Costa

SPECIAL LECTURES

Sunday, July 06, 2014

12:30 - 14:00 | Hall A
SL01 - Grete Lundbeck European Brain Research Foundation/The Brain Prize 2013
Ed Boyden (Boston, USA)
Optogenetic tools for controlling neural activity with light
Georg Nagel (Wurzburg, Germany)
Channelrhodopsin et al., photoreceptors and optogenetic applications
Gero Miesenböck (Oxford, United Kingdom)
Lighting up the brain
Introduced by: Colin Blakemore

13:00 - 13:45 | Hall B
SL02 - EBBS/Behavioural Brain Research Prize
Carmen Sandi (Lausanne, Switzerland)
Stress and the social brain - from aggression and social hierarchies in rodents to social economic decision making
Introduced by: Martine Ammassari-Teule

Monday, July 07, 2014

13:00 - 13:45 | Hall B
SL03 - Host Society Special Lecture
Pietro De Camilli (New Haven, USA)
Cell biology of the neuron: Membrane lipid dynamics in the regulation of synaptic function
Introduced by: Michela Matteoli

13:00 - 13:45 | Hall C
SL04 - EDAB/Max Cowan Special Lecture
Dennis O'Leary (La Jolla, USA)
Genetic and extra-genetic regulation of cortical area patterning
Introduced by: Colin Blakemore

13:00 - 13:45 | Hall J
SL05 - Boehringer-Ingelheim/FENS Research Award
Judit Makara (Budapest, Hungary)
Processing of correlated synaptic input by dendrites
Introduced by: Bernd Sommer

Tuesday, July 08, 2014

12:30 - 14:00 | Hall J
SL06 - Foundation IPSEN/Neuronal Plasticity Prize
Barry J. Everitt (Cambridge, United Kingdom)
Neural plasticity, maladaptive learning and memory in addiction: implications for relapse prevention and abstinence
George F. Koob (La Jolla, USA)
Neuroplasticity in the brain stress systems in addiction
Michel Le Moal (Bordeaux, France)
Transition to addiction: a role for intrinsic individual vulnerabilities
Introduced by: Yves Christen and Nikos Logothetis

13:00 - 13:45 | Hall C
SL07 - IBRO - Kemali Prize
Patrik Verstreken (Leuven, Belgium)
Mitochondrial and presynaptic dysfunction in Parkinson's disease
Introduced by: Pierre Magistretti

13:00 - 13:45 | Hall B
SL08 - Eric Kandel Prize Lecture
Sonja Hofer (Basel, Switzerland)
Neural dynamics in visual cortex during learning
Introduced by: Tony Movshon

Wednesday, July 09, 2014

11:45 - 12:45 | Hall J
SL09 - FENS-EJN Awards Lectures
Alexander Borst (Martinsried, Germany)
In search of the Holy Grail of fly motion vision
Emre Yaksi (Leuven, Belgium)
Studying neural circuits mediating fear in zebrafish brain
Introduced by: Jean-Marc Fritschy and Martin Sarter

11:45 - 12:45 | Hall B
SL10 - ERA NET NEURON/Excellent Papers in Neuroscience Awards 2013
Nadia Kaouane (Vienna, Austria)
Glucocorticoids can induce PTSD-like memory impairments in mice, in SCIENCE
Introduced by: Erkki Raulo

SPECIAL INTEREST EVENTS

Saturday, July 5, 2014

15:45 - 17:15 | Hall A
SiE01 **- EJN Special Feature - Modern neurocircuitry analysis**

Sunday, July 6, 2014

18:45 - 20:45 | Hall H
SiE02 - **Women in Neuroscience (WiN)**

18:45 - 21:00 | Hall E
SiE03 - "**Implementation of the EU Directive 63-2010 and international actions for promoting the use of animals in scientific research**" FENS CARE event

18:45 - 20:45 | Hall C
SiE04 - **William Safire Seminar on Neuroethics**

Monday, July 7, 2014

12:30 - 13:00 | Hall C
SiE05 - **Neuroscience Outreach Awards Programme comprising of the EDAB-FENS Brain Awareness Week (BAW) Excellence Award & the Dana/EDAB Neuroscience Outreach Champion**

18:45 - 21:00 | Hall F
SiE06 - **Building your Career: non-academic opportunities**

Tuesday, July 8, 2014

18:45 - 21:15 | Hall F
SiE07 - **Global Advocacy Event**

18:45 - 19:30 | Hall G
SiE08 - **New perspectives and training for education in Neuroscience**

OPENING CEREMONY & NETWORKING EVENTS

Saturday, July 5, 2014

17:15 -18:00
Opening Ceremony
Venue: Mico Congress Center - Hall A
Attendance: For all attendees
Welcome address by Marina Bentivoglio, Chair of the Host Society Committee, Pierfrancesco Majorino of the Municipality of Milan and Mario Melazzini of the Region of Lombardy. Musical interlude courtesy of "Fanfara del Comando, 1ª Regione Aerea dell'Aeronautica Militare Italiana".
Official opening of the FENS Forum 2014 by FENS President, Marian Joëls.

19:00 - 22:00
Symposium in honour of the Late Ferdinando Rossi:
A passionate journey through the cerebellar mysteries
Venue: Mico Congress Center, Hall F
Host: Department of Neuroscience Rita Levi Montalcini, University of Turin
To pay tribute to Ferdinando we have organised a passionate journey through cerebellar development and functions, with lectures given by close friends and collaborators of Ferdinando.

All day events
History Corner exhibition
Venue: Mico Congress Center, History Corner, Level 2
Host: FENS - Host Society Committee and History of European Neuroscience Committee
Visibility of history of neuroscience: exhibits of history materials from FENS History awardees and their colleagues.

All day events
The Smile of the Mind exhibition
Venue: Mico Congress Center, History Corner, Level 2
Host: FENS: Host Society Committee and History of European Neuroscience Committee
A history of Neuroscience illustrated through the use of caricature on facts and people who gave a contribution to the development of "Smile of the Mind".

Sunday, July 6, 2014

18:45 - 20:00
Neurogastronomy, the 'brain cuisine' presented by Gordon M. Shepherd
Venue: Mico Congress Center, Hall G
Host: FENS & HSC
Gordon M. Shepherd will discuss how the human brain processes olfaction and taste, through "microcircuits" of synaptic interactions and neural networks, and the significance of this processing in evolution.

18:45 - 22:30
Big Questions in Neuroscience
Venue: Venue: Mico Congress Center, Piazzale Carlo Magno, 1, Milan, Hall F
Host: Cell Press: Neuron and Trends in Neuroscience
Contact person(s): Mariela Zirlinger, Andrew Clark
E-mail: mzirlinger@cell.com; aclark@cell.com
What are the major questions that must be tackled to propel the field forward in the coming years? Focusing on everything from policy to specific gaps in our understanding of the nervous system, this social will be a moderated roundtable discussion featuring a panel of leading scientists (Kia Nobre, David Fitzpatrick, Yang Dan, Rui Costa, Yukiko Goda, and Ed Boyden). Come join the conversation! To RSVP for this event, login to bit.ly/neuroevent.

18:45 - 20:30
YITP meeting
Venue: Mico Congress Center, Hall D2
Host: YITP
YITP fellows and their hosts in Italian laboratories will be invited to attend a symposium during which 4 selected YITP fellows will present their research.
By invitation only

19:00 - 21:00
International Synapse Championships
Venue: Mico Congress Center, Hall D1
Host: IINS Bordeaux (CNRS / France) and University of Utrecht (The Netherlands)
6-8 researchers from the field of synaptic proteins will compete against each other on stage by naming a synaptic protein that has not been named before. If they cannot come up with a new one and all jokers have been used, they are eliminated and the game goes on until there is only the winner left.

18:45 - 21:00
International Society for Serotonin Research Social Gathering
Venue: MILANO Cafè, Via Procaccini 37, Milan
Host: International Society for Serotonin Research
Ubiquitously spread across Europe, Serotonin researchers will gather at this time and space to discuss the virtues of our favourite neurotransmitter. Don't miss the chance to exchange anecdotes with Susan Dymecki, Harry Steinbusch, Alexandre Dayer, Cornelius Gross and Patricia Gaspar, among others.

Monday, July 7, 2014

18:45 - 20:30
Educational Course on: Manuscript and grant writing, effective poster or talk preparation (day 1)
Venue: Mico Congress Center, Hall E
Host: YITP
A 3 day Educational Course (5h in total), this course is specifically designed for PhD students and young post-doctorate fellows. Registration is required.

18:45 - 20:00
Trisomy 21 Research Society Social Gathering
Venue: Mico Congress Center, Suite 4
Host: Trisomy 21 Research Society
This event is organized for neuroscientists and clinicians interested in finding new collaborators and resources in the field of Down syndrome and Alzheimer's research. This event is free, but requires registration.

18:45 - 22:30
Neuroinformatics social - networking data, tools and people
Venue: Mico Congress Center, Hall H
Host: International Neuroinformatics Coordinating Facility
Informal social event for neuroscientists interested in finding new collaborators and resources. INCF coordinates collaborative informatics infrastructure for neuroscience data integration and manages scientific programs to develop standards for data sharing, analysis, modeling and simulation in brain research.

18:45 - 22:30
Meet top scientists and experts from German funding organizations at a speed-dating event
Venue: Museo Nazionale della Scienza e della Tecnologia Leonardo da Vinci
Host: Research in Germany (German Research Foundation, DFG)
Take the opportunity to get in touch with internationally renowned scientists working in Germany and representatives of German funding organizations. Talk about your research career plans and discuss your questions about the German research landscape and its funding opportunities. This event is free, but requires registration.

19:30 - 03:00
Jump the FENS Party
Venue: Alcatraz, Via Valtellina, 25, Milan
This party is organized by students for everyone to "jump" the heavy scientific content of the Forum and have fun. Food, drink, magic, music... perfect ingredients for an unforgettable night!
Tickets available from the FENS Student Booth.

Tuesday, July 8, 2014

18:45 - 21:00
Next generation networks in neuroscience
Venue: Mico Congress Center, Hall D
Host: ERA-NET NEURON in collaboration with NENS
Networking event for young scientists. Information about European transnational mobility, training, and research collaboration options.

18:45 - 20:30
Educational Course on: Manuscript and grant writing, effective poster or talk preparation (day 2)
Venue: Mico Congress Center, Hall E
Host: YITP
A 3 day Educational Course (5h in total), this course is specifically designed for PhD students and young post-doctorate fellows.

18:45 - 20:00
Starting your independent research career - Learn what Germany can do for you
Venue: Mico Congress Center, Hall H
Host: Research in Germany (German Research Foundation, DFG)
This information seminar addresses researchers at an early stage of their scientific careers. Programme officers from the German Research Foundation (DFG) will deliver insight into the German research landscape and various funding programmes as well as application and review procedures. Furthermore, grantees will share their experiences relating to their scientific careers and grant writing.

Wednesday, July 9, 2014

14:15 - 16:15
Educational Course on: Manuscript and grant writing, effective poster or talk preparation (day 3)
Venue: Mico Congress Center, Hall E
Host: YITP
A 3 day Educational Course (5h in total), this course is specifically designed for PhD students and young post-doctorate fellows.

BUSINESS MEETINGS

The following business meetings will take place during the FENS Forum

Date	Time	Room	Meeting
Friday, July 4	09:00 - 17:30	Suite 9	FENS Executive Committee Meeting
Saturday, July 5	08:00 - 10:00	Suite 8	IBRO Executive Committee
	08:30 - 17:00	Hall C	FENS Governing Council Meeting Part I
	19:15 - 22:00	Suite 8	EBBS Committee Meeting
Sunday, July 6	08:00 - 09:00	Suite 8	SfN-IBRO Meeting
	09:30 - 12:00	Suite 8	IBRO Pan-Europe Regional Committee
	10:30 - 11:15	Suite 9	FENS ISN Meeting
	12:00 - 14:30	Suite 7	Annual CARE Committee Meeting
	13:00 - 15:30	Suite 8	NWG Board Meeting
	18:30 - 20:00	Suite 7	General Assembly, Sociedade Portuguesa de Neurociências
	18:30 - 21:00	Suite 6	Meeting of Board and Scientific Committee of Spanish Society for Neuroscience
	18:30 - 20:00	Suite 8	NWG Annual General Meeting
Monday, July 7	10:30 - 11:15	Suite 8	IBRO Global Advocacy Committee Meeting
	11:30 - 13:30	Suite 7	ANA General Assembly 2014
	12:00 - 14:30	Suite 8	EJN Editorial Board Meeting Lunch
	12:00 - 14:00	Suite 9	FENS CARE National Liaisons Meeting
	13:00 - 14:00	Suite 6	FENS Communication Committee Meeting
	14:00 - 15:00	Suite 9	FENS History of European Neuroscience Committee Meeting
	14:00 - 16:00	Suite 7	Neuropsychologia Editorial Meeting
Tuesday, July 8	08:00 - 09:00	Suite 9	FENS SfN Meeting
	10:30 - 12:00	Suite 8	IBRO-Kemali Foundation Meeting
	14:30 - 15:30	Suite 9	FENS-Asia Pacific Meeting
	18:00 - 18:30	Suite 8	NENS Committee Meeting
	19:40 - 21:00	Hall C	AGM of NENS Schools Directors and Coordinators
Wednesday, July 9	08:00 - 09:00	Suite 9	FENS IBRO Meeting
	14:30 - 16:30	Hall C	FENS Governing Council Meeting Part II

SATELLITE EVENTS

The satellite events related to the FENS Forum 2014 have all qualified state-of-the-art scientific programmes. Although FENS is not involved in their preparation and organization, they are highly recommended by the FENS Programme Committee.

July 3, 2014 - July 4, 2014
Brain plasticity of the vestibular and ocular motor systems
Venue: Villa del Grumello, Lago di Como, Via per Cernobbio, 11, Como (22100), Italy
Organizers: Barry Seemungal - Imperial College; Stefano Ramat - University of Pavia; Stefan Glasauer - Ludwig-Maximilians-Universität
Contact person: Barry Seemungal, +44 7905 364 392 / +44 20 331 17712
E-mail: *cnsplasticity@gmail.com* | *b.seemungal@imperial.ac.uk*
Website: *www.cnsplasticity.net*

July 3, 2014 - July 4, 2014
Motor neuron diseases: molecular and cellular basis of selective vulnerability
Venue: Università degli Studi di Milano, Sala Napoleonica, via Sant'Antonio 10, Milano, Italy
Organizers: Caterina BendottI, Giambattista Bonanno, Angelo Poletti
Contact persons: Caterina Bendotti, +39-(0) 239014488; Giambattista Bonanno, +39 010 3532658
E-mail: *caterina.bendotti@marionegri.it* | *bonano@difar.unige.it*
Website: *http://users.unimi.it/triplet/2014/*

July 3, 2014 - July 4, 2014
Nutrition for the aging brain: toward evidence for an optimal diet
Venue: Klima Hotel Milano Fiere, Milan, Italy
Organizers: International Life Sciences Institute, European Branch
Contact persons: Marie Latulippe, +32 (0)2 775.91.21; Ruth Marquet, +32 (0)2 775.91.40
E-mail: *mlatulippe@ilsieurope.be* | *rmarquet@ilsieurope.be*
Website: *www.ilsi.org/Europe/Pages/Events.aspx*

July 3, 2014 - July 4, 2014
European Molecular and Cellular Cognition Society (EMCCS) - FENS 6th meeting
Venue: Istituto di Ricerche Farmacologiche Mario Negri, Via La Masa 19, Milan (20156), Italy
Organizers: Riccardo Brambilla (Milano, Italy); Kobi Rozenblum (Haifa, Israel); Angel Barco (Alicante, Spain)
Contact persons: Riccardo Brambilla, +390226434876; Angel Barco, +34965919232
E-mail: *brambilla.riccardo@hsr.it* | *abarco@umh.es*
Website: *www.marionegri.it/mn/en/index.html?l=en*

July 4, 2014
Biologically-based models of neurons and microcircuits
Venue: University of Pavia, Pavia (I-27100), Italy
Organizers: Egidio D'Angelo; Jeanette Kotaleski
Contact persons: Egidio D'Angelo, +39 0382 987606; Jeanette Kotaleski
E-mail: *dangelo@unipv.it* | *jeanette@nada.kth.se*
Website: *www-5.unipv.it/dangelo/*

July 4, 2014
Synapses as a therapeutic targets for autism spectrum disorders
Venue: Pavia, aula Golgi (Golgi museum), Pavia (27100), Italy
Organizers: Paolo Curatolo; Enrico Cherubini
Contact persons: Enrico Cherubini, +39-040-3787704; Paolo Curatolo, +39-335-8348921
E-mail: *cher@sissa.it* | *curatolo@uniroma2.it*
Website: *www.ptsroma.it/fensautism/*

July 4, 2014
Understanding sleep: novel perspectives in Neurosciences
Venue: Aula Crociera, University of Milan, via Festa del Perdono 7, Milan (20122), Italy
Organizers: European Sleep Research Society
Contact persons: Lino Nobili, +393497486945; Philippe Peigneux, +32 2 650 26 39
E-mail: *Lino.nobili@ospedaleniguarda.it* | *philippe.peigneux@ulb.ac.be*
Website: *www.esrs.eu/conferences-events/esrs-sponsored-events.html*

July 4, 2014
Drug addiction and psychiatric comorbidity: factors of vulnerability and therapeutic targets
Venue: Department of Structural and Functional Biology, Neuroscience Center,
University of Insubria, Busto Arsizio, Italy
Organizers: Marc Landry; Maria Paz Viveros (on behalf of the Mediterranean Neurosciences Society)
Contact persons: Marc Landry, +61 4 13745036; Maria-Paz Viveros, +34 91 3944993
E-mail: *marc.landry@u-bordeaux2.fr* | *pazviver@bio.ucm.es*

July 4, 2014
The power of stripes: zebrafish in neuroscience, toxicology, and behavioral research
Venue: MODULO 3, ADI Hotel Poliziano Fiera, Via Angelo Poliziano, 11, Milan (20154), Italy
Organizers: Noldus Information Technology
Contact persons: Ruud Tegelenbosch, 0031-317473300; Sabine van der Meijde, 0031-317-473300
E-mail: *seminars@noldus.nl* | *seminars@noldus.nl*
Website: *www.noldus.com/event/fens-satellite-striped-power-zebrafish-new-model-neuroscience-behavior-and-toxicology*

July 4, 2014 - July 5, 2014
Advocacy and transparency on animals in research. A FENS - SfN joint event
Venue: MiCo Convention Center, Milan (20149), Italy
Organizers: FENS (CARE) - SfN event
Contact person: Tatjana Butzek,
E-mail: *tanja.butzek@fens.org*

July 5, 2014
EJN Training Seminars: How to Successfully Publish Your Research
Venue: MiCo Convention Center, Milan (20149), Italy
Organizers: European Journal of Neuroscience (EJN)
Contact person: Sophie Gavarini, +41 44 63 55990
E-mail: *editorial.office@ejneurosci.org*

July 10, 2014 - July 12, 2014
Summer School on "Synapse dynamics in circuit formation, learning and disease"
Venue: Villa Vigoni, German-Italian Centre for European Excellence, Via Giulio Vigoni, 1, Loveno di Menaggio (CO) (22017), Italy
Organizers: Marie-Curie ITN NPlast
Contact persons: Christina Spilker, +49-391-626394171; Michael R. Kreutz, +49-391-626394181
E-mail: *spilker@lin-magdeburg.de* | *kreutz@lin-magdeburg.de*
Website: *www.nplast.de/index.php/summerschool2014*

July 10, 2014 - July 11, 2014
Multiple mechanisms of neurodegeneration and progression
Venue: Hotel Splendid - Baveno (Lago Maggiore), Strada Statale del Sempione, 12, 28831- Baveno, Italy, Baveno (28831), Italy
Organizers: María Trinidad Herrero & Micaela Morelli & Neurotoxicity Society (NTS)
Contact persons: María Trinidad Herrero, +34609441977; Micaela Morelli, +390706758663
E-mail: *ezquerro@uji.es* | *morelli@unica.it*
Website: *www.itb.cnr.it/web/fens2014/home*

July 10, 2014
The many faces of stress
Venue: Università degli Studi di Milano, Sala Napoleonica, via Sant'Antonio 10, Milano (20122), Italy
Organizers: Maurizio Popoli, Gerard Sanacora
Contact persons: Maurizio Popoli, +390250318361; Laura Musazzi, +390250318377
E-mail: *maurizio.popoli@unimi.it* | *laura.musazzi@unimi.it*
Website: *http://users2.unimi.it/fens_stress/index.html*

PROGRAMME AT A GLANCE

Saturday, July 5, 2014

12:30 - 15:30	**Hall G** **W01 -** From synapses to network oscillations: High resolution recording techniques	**Hall D1** **W02 -** Optical measurement and manipulation of neural circuits in transparent animal models	**Hall F** **W03 -** Novel trans-synaptic tracing approaches for functional-anatomical studies of neuronal circuits	**Hall D2** **W04 -** Closed-loop methodology in neural systems	**Hall E** **W05 -** New approaches to understand astrocyte-neuron interactions in health and disease	**Hall H** **W06 -** Epigenomic landscapes of the adult brain: implications in neuroplasticity and brain disorders
15:45 - 17:15	**Hall A** **SiE01 - EJN Special Feature - Modern neurocircuitry analysis**					
17:15 - 18:00	**Hall A** **Opening Ceremony**					
18:00 - 19:00	**Hall A** **PL01 - Kavli Foundation Lecture** **Ray Dolan** (London, United Kingdom)					
19:00 - 22:00	**Hall F** Symposium in honour of the Late Ferdinando Rossi: A passionate journey through the cerebellar mysteries					
All Day Event	**Hall B** History Corner exhibition			**Hall B** The Smile of the Mind exhibition		

Colour Key:

PL - Plenary Lecture	**SL - Special Lecture**
S - Symposium	**W - Technical Workshop**
SiE - Special Interest Event	**Networking Events**
	Opening Ceremony

Sunday, July 6, 2014

08:30 - 09:30	**Hall A** **PL02 - Plenary Lecture** **Anna Christina Nobre** (Oxford, United Kingdom)		**Poster Area Session I**
09:30 - 09:45	**Break**		
09:45 - 11:15	**Hall G**	**S01** - Emergent concepts in axon guidance	
	Hall I	**S02 -** Glutamate-dopamine cross-talk: from signaling pathways to disease	
	Hall J	**S03 -** Synaptic structure and function illuminated by fluorescence and electron microscopy	
	Hall D	**S04 -** Gamma oscillations and cognitive processing: linking coordination of individual neurons to behavior	
	Hall E	**S05 -** Hyperexcitability in fragile X syndrome: too much of a good thing?	
	Hall H	**S06 -** Emergent principles for rhythm generation in motor systems	
	Hall F	**S07 -** Locus coeruleus orchestrates attention networks, motivational salience and cognitive flexibility	
	Hall C	**S08 -** The hedonistic brain: learning, predicting and decision making	
11:15 - 12:30	**Break and Poster Viewing** **Poster Session I**		**11:15 - 12:15** Odd Number Presentations
12:30 - 14:00	**Hall A** **SL01 - Grete Lundbeck European Brain Research Foundation/The Brain Prize 2013** **Ed Boyden** (Boston, USA) **Georg Nagel** (Wurzburg, Germany) **Gero Miesenböck** (Oxford, United Kingdom)	**Hall B** **SL02 - EBBS/Behavioural Brain Research Prize** **Carmen Sandi** (Lausanne, Switzerland) **(13:00 - 13:45)**	**12:15 - 13:15** Even Number Presentations
14:00 - 15:45	**Break and Poster Viewing** **Poster Session II**		**Session II** **13:30 - 14:30** Odd Number Presentations **14:30 - 15:30** Even Number Presentations
15:45 - 17:15	**Hall G**	**S09 -** Transcriptional control of tangential neuronal migration in the developing brain	
	Hall D	**S10 -** Decoding serotoninergic systems and their impact on cortical circuit formation	
	Hall E	**S11 -** Development and function of left-right circuit asymmetries in the brain	
	Hall I	**S12 -** Mechanisms of microglia phagocytosis in health and disease	
	Hall J	**S13 -** Local protein synthesis: role in memory formation and dysfunction in autism and Alzheimer's disease	
	Hall H	**S14 -** Spotlight on olfaction: from odorant receptors to behaviour	
	Hall F	**S15 -** Linking neural circuits to behavior in zebrafish	
	Hall C	**S16 -** Lateral entorhinal cortex: interface for hippocampal episodic memory	
17:15 - 17:30	**Break**		
17:30 - 18:30	**Hall A** **PL03 - Plenary Lecture, Pico Caroni** (Basel, Switzerland)		
18:30 - 18:45	**Break**		
18:45 - 21:00	**Hall H** **SiE02 -** Women in Neuroscience (18:45 - 20:45)	**Hall E** **SiE03 -** Implementation of the EU Directive 63-2010 and international actions for promoting the use of animals in scientific research" FENS CARE event	**Hall C** **SiE04 -** William Safire Seminar on Neuroethics (18:45 - 20:45)
	Hall G Neurogastronomy, the 'brain cuisine' presented by Gordon M. Shepherd (18:45 - 20:00)	**Hall F** Big Questions in Neuroscience (18:45 - 22:30)	**Hall D2** YITP meeting (18:45 - 20:30)
	Hall D1 International Synapse Championships (19:00 - 21:00)	**Venue: MILANO, Via Procaccini 37** International Society for Serotonin Research Social Gathering (18:45 - 21:00)	

COLOUR KEY: PL - Plenary Lecture, S - Symposium, SiE - Special Interest Event, SL - Special Lecture, W - Technical Workshop, Networking Events

Monday, July 7, 2014

08:30 - 09:30	**Hall A** **PL04 - Plenary Lecture** **Yang Dan** (Berkeley, USA)				**Poster Area** **Session III**
09:30 - 09:45	**Break**				
09:45 - 11:15	**Hall D**	**S17** - Human brain development and evolution: new approaches and emerging concepts			
	Hall F	**S18 -** Oxytocin and vasopressin: anatomical and molecular pathways to modulate brain circuits and behavior			
	Hall J	**S19 -** Glia in neuronal information processing: from synapses to behaviour			
	Hall C	**S20 -** Neurobiological and neurogenetic bases of the link between sleep, stress and depression			
	Hall E	**S21 -** Risk factors for vulnerability to addiction			
	Hall I	**S22 -** In vivo functional recording of neuronal population activity			
	Hall G	**S23 -** Control of goal-related actions and behavioural decision processing in the prefrontal cortex			
	Hall H	**S24 -** Genetic analysis of neural circuits controlling reproduction			
11:15 - 12:30	**Break and Poster Viewing** **Poster Session III**				**11:15 - 12:15** Odd Number Presentations
12:30 - 13:45	**Hall B** **SL03 -** Host Society Special Lecture **Pietro De Camilli** (New Haven, USA) (13:00 - 13:45)	**Hall C** **SL04 -** EDAB/Max Cowan Special Lecture **Dennis O'Leary** (La Jolla, USA) (13:00 - 13:45)	**Hall J** **SL05 -** Boehringer-Ingelheim/FENS Research Award **Judit Makara** (Budapest, Hungary) (13:00 - 13:45)	**Hall C** **SiE05 -** Neuroscience Outreach Awards Program: Comprising of the EDAB-FENS Brain Awareness Week (BAW) Excellence Award & the Dana/EDAB Neuroscience Outreach Champion (12:30 - 13:00)	**12:15 - 13:15** Even Number Presentations
13:45 - 15:45	**Break and Poster Viewing** **Poster Session IV**				**Session IV** **13:30 - 14:30** Odd Number Presentations **14:30 - 15:30** Even Number Presentations
15:45 - 17:15	**Hall D**	**S25 -** Regulatory mechanisms of neuronal specification			
	Hall F	**S26 -** Voltage-gated calcium channels and synaptic function: from basic mechanisms to disease			
	Hall J	**S27 -** Post-synaptic plasticity of GABAergic synapses			
	Hall C	**S28 -** RNA metabolism: what ALS/FTD has is in common with other RNA-related diseases			
	Hall E	**S29 -** Glioblastoma stem cells in tumor progression and in new therapies			
	Hall G	**S30 -** Ramping up resilience: from (epi) genetics, to optogenetics and imaging			
	Hall I	**S31 -** Basal ganglia networks in health and disease: from synapses to systems			
	Hall H	**S32 -** Principles of information coding in human lateral prefrontal cortex			
17:15 - 17:30	**Break**				
17:30 - 18:30	**Hall A** **PL05 - Presidential Lecture, Huda Zoghbi** (Houston, USA)				
18:30 - 18:45	**Break**				
18:45 - 21:00	**Hall F** **SiE06 -** Building your Career: non-academic opportunities	**Hall E** Educational Course on: Manuscript and Grant Writing, effective Poster or Talk preparation (18:45 - 20:30)	**Suite 4** Trisomy 21 Research Society Social Gathering (18:45 - 20:00)		
	Hall H Neuroinformatics social - networking data, tools and people (18:45 - 22:30)	**Museo Nazionale della Scienza e della Tecnologia Leonardo da Vinci** Meet top scientists and experts from German funding organizations at a speed-dating event (18:45 - 22:30)	Venue: **Alcatraz** Jump the FENS Party (19:30 - 03:00)		

COLOUR KEY: PL - Plenary Lecture, S - Symposium, SiE - Special Interest Event, SL - Special Lecture, W - Technical Workshop, Networking Events

Tuesday, July 8, 2014

08:30 - 09:30	**Hall A** **PL06 - Plenary Lecture** **Gilles Laurent** (Frankfurt, Germany)			**Poster Area** **Session V**
09:30 - 09:45	**Break**			
09:45 - 11:15	**Hall D**	**S33 -** Development and function of GABA circuits		
	Hall F	**S34 -** MicroRNAs in brain development and function		
	Hall C	**S35 -** Protein shuttling in synapse-to-nucleus signalling		
	Hall J	**S36 -** Adult cortical plasticity		
	Hall I	**S37 -** Deciphering the physiology and function of hippocampal area CA2		
	Hall G	**S38 -** Cell and gene therapy approaches in retinal degenerations		
	Hall B	**S39 -** Coding others' behaviour in the monkey primary motor and premotor cortex		
	Hall H	**S40 -** Pharmacological and optogenetic control of cognition		
11:15 - 12:30	**Break and Poster Viewing** **Poster Session V**			**11:15 - 12:15** Odd Number Presentations
12:30 - 14:00	**Hall J** **SL06 -** Foundation IPSEN/ Neuronal Plasticity Prize **Barry J. Everitt** (Cambridge, UK) **George F. Koob** (La Jolla, USA) **Michel Le Moal** (Bordeaux, France)	**Hall C** **SL07 -** IBRO - Kemali Prize **Patrik Verstreken** (Leuven, Belgium) (13:00 - 13:45)	**Hall B** **SL08 -** Eric Kandel Prize Lecture **Sonja Hofer** (Basel, Switzerland) (13:00 - 13:45)	**12:15 - 13:15** Even Number Presentations
14:00 - 15:45	**Break and Poster Viewing** **Poster Session VI**			**Session VI** **13:30 - 14:30** Odd Number Presentations **14:30 - 15:30** Even Numbers Presentations
15:45 - 17:15	**Hall H**	**S41 -** Axon guidance and targeting of retinal ganglion cells		
	Hall F	**S42 -** Regional diversity of endocannabinoid signaling in action control		
	Hall C	**S43 -** Cortical inhibition in single-neuron computations, network activities and sensory processing		
	Hall E	**S44 -** Variance and Invariants in functional connectivity		
	Hall I	**S45 -** Interaction of genes and environment as risk factors for mental illness		
	Hall J	**S46 -** Axonal transport: basic mechanisms and its pathogenetic role in brain diseases		
	Hall G	**S47 -** What does cross-modal plasticity tell us about the way the senses interact during development?		
	Hall D	**S48 -** The integration of spatial maps across cortical areas		
17:15 - 17:30	**Break**			
17:30 - 18:30	**Hall A** **PL07 - Plenary Lecture** **Yoshiki Sasai** (Kobe, Japan)			
18:30 - 18:45	**Break**			
18:45 - 20:30	**Hall F** **SiE07 -** Global Advocacy Event (18:45 - 21:15)		**Hall G** **SiE08 -** New perspectives and training for education in Neuroscience (18:45 - 19:30)	
	Hall D Next generation networks in neuroscience (18:45 - 21:00)	**Hall E** Educational Course on: Manuscript and Grant Writing, effective Poster or Talk preparation (18:45 - 20:30)	**Hall H** Starting your independent research career - Learn what Germany can do for you (18:45 - 20:00)	

COLOUR KEY: PL - Plenary Lecture, S - Symposium, SiE - Special Interest Event, SL - Special Lecture, W - Technical Workshop, Networking Events

Wednesday, July 9, 2014

08:30 - 09:30	**Hall A** **PL08 - Plenary Lecture** **Christine Holt** (Cambridge, United Kingdom)		**Poster Area** **Session VII**
09:30 - 09:45	**Break**		
09:45 - 11:15	**Hall G**	**S49** - Early cortical circuits	
	Hall J	**S50 -** Epigenetic control of neuronal function	
	Hall F	**S51 -** Old but new synaptic organizers: diverse but common mechanisms	
	Hall D	**S52 -** Synaptic deficits in intellectual disability disorders	
	Hall E	**S53 -** Auditory cortical tuning to natural sounds	
	Hall H	**S54 -** Functional and anatomical heterogeneity in the midbrain dopamine system	
	Hall I	**S55 -** The stressed social brain	
	Hall C	**S56 -** Generalization of emotional memories: from neural circuits to anxiety disorders	
11:15 - 12:30	**Break and Poster Viewing** **Poster Session VII**		**11:15 - 12:15** Odd Number Presentations
11:45 - 12:45	**Hall J** **SL09 -** FENS-EJN Awards Lectures **Alexander Borst** (Martinsried, Germany) **Emre Yaksi** (Leuven, Belgium)	**Hall B** **SL10 -** ERA NET NEURON/Excellent Papers in Neuroscience Awards 2013 **Nadia Kaouane** (Vienna, Austria)	**12:15 - 13:15** Even Number Presentations
12:45 - 13:00	**Break and Poster Viewing** **Poster Session VII**		
13:00 - 14:00	**Hall A** **PL09 - Hertie Foundation Lecture** **Svante Pääbo** (Leipzig, Germany)		
14:15 - 16:00	**Hall E** Educational Course on: Manuscript and Grant Writing, effective Poster or Talk preparation (14:15 - 16:00)		

COLOUR KEY: PL - Plenary Lecture, S - Symposium, SiE - Special Interest Event, SL - Special Lecture, W - Technical Workshop, Networking Events

9th FENS FORUM OF NEUROSCIENCE

Milan | Italy July 5 – 9, 2014

Organised by the Federation of European Neuroscience Societies | FENS

Hosted by the Società Italiana di Neuroscienze | SINS

GENERAL INFORMATION

www.fens.org/2014

FENS Federation of European Neuroscience Societies

INFORMATION FOR SPEAKERS AND CHAIRPERSONS

The role of the chairpersons is to monitor speaking and discussion times and to lead the discussions. Chairpersons control the switch between presentations. All speakers must submit their presentations in the Speakers' Ready Room, on level 2 of the venue, at least 2 hours before the start of their session in order to check their slides with the technical staff and upload the presentation onto the network.

The opening hours of the Speakers' Ready Room are as follows:

Saturday 5 July:	07:30 - 19:30
Sunday 6 July:	07:30 - 18:30
Monday 7 July:	08:00 - 18:30
Tuesday 8 July:	08:00 - 18:30
Wednesday 9 July:	08:00 - 14:00

Speakers can upload their presentations at any time from the beginning of the Forum and do not need to wait until the day of presentation. Speakers in morning sessions are strongly advised to pre-load their presentation the day before.

Modification of the presentation is possible at any time prior to the session in the Speakers' Ready Room.

Data presentations:

If using a PowerPoint (or any presentation), please note you need to bring it on a "disk on key" Memory stick (using the USB port in the computer), a CD or a DVD and load it on one of the Forums' computers in the Speakers' Ready Room, at least 2 hour before the start of the session.

Please note that the Forum computers in the session halls are being supplied with Office 2013.

If combining video films with PowerPoint, please make sure to check it in the session hall where your lecture is taking place during a break prior to your session, at least 30 minutes before the start of the session - **even after checking it in the Speakers' Ready Room.**

Alternatively you may supply your own laptop computer. In such cases please confirm that it has a VGA socket for external signal, advise the operators in the Speakers' Ready Room about it as soon as you arrive and later on test in the session hall where your lecture is taking place during the break prior to your session, at least 30 minutes before the session starts.

Important note for Macintosh users

The instructions above also apply to all Mac users.

In order to use MAC presentations on a PC compatible computer please note that you need to prepare it according to the instructions below, before bringing it to the Speakers' Ready Room:

» Use a common font, such as Arial, Times New Roman, Verdana etc.
(special fonts might be changed to a default font on a PowerPoint based PC).
» Insert pictures as JPG files
(and not TIF, PNG or PICT - these images will not be visible on a PowerPoint based PC).
» Use a common movie format, such as AVI and WMV
(MOV files from QuickTime will not be visible on a PowerPoint based PC).

Alternatively you may use your own Macintosh laptop computer. In such a case please confirm you provide it with **a VGA adaptor** for external signal and come to check it first in the Speakers' Ready Room as soon as you arrive and later on in the session hall where your lecture is taking place during the break prior to your session, at least 30 minutes before the session starts. **Please note that VHS Video projection, 35 mm' slide projection and Overhead projection (projection of transparencies) will not be available.**

POSTER INFORMATION

Poster Presentations

Half-day poster presentations take place in the Poster Area of the exhibition hall from Sunday through Wednesday, July 6-9. Authors are requested to be in attendance at their poster for discussion, as scheduled below:

Sunday, July 6 - Tuesday, July 8

08:00 -13:15	Morning Posters on Display
11:15 - 12:15	Authors of **odd-numbered** posters in attendance
12:15 - 13:15	Authors of **even-numbered** posters in attendance
13:15 - 13:30	Poster Switch Period
13:30 - 18:45	Afternoon Posters on display
13:30 - 14:30	Authors of **odd-numbered** posters in attendance
14:30 - 15:30	Authors of **even-numbered** posters in attendance

Wednesday, July 9

08:00 - 13:15	Morning Posters on Display
11:15 - 12:15	Authors of **odd-numbered** posters in attendance
12:15 - 13:15	Authors of **even-numbered** posters in attendance

Please find your board number by locating your abstract on the mobile website or the programme book. You should display your poster on the board number assigned to you. These pages also indicate the date and time of your presentation. For further details, please see the floor plans on page 34

Poster boards are 2 meters wide and 1 meter high (landscape format). Posters can be affixed by double-sided adhesive tape, available at the Poster Assistance desk onsite.

Posters should be mounted at 8:00 am for morning presentations, and at 13:30 pm for afternoon presentations.

Removal: Material from the morning sessions must be removed imperatively at 13:15. At 13:10 this will be announced centrally. Please respect this quick removal so that the afternoon poster presenters can mount their material. Material from the afternoon sessions must be removed from 18:30, and in any case before leaving the MiCo.

MEETING INFORMATION

Forum Venue
MiCo - Milano Congressi
Piazzale Carlo Magno, 1
20149 Milan
Italy
www.micomilano.it

Registration

The Registration Desk will be open at the Congress Centre as follows:

Saturday 5 July:	07:30 - 19:30
Sunday 6 July:	07:30 - 18:30
Monday 7 July:	08:00 - 18:30
Tuesday 8 July:	08:00 - 18:30
Wednesday 9 July:	08:00 - 14:00

Registration Badges

Attention: Lost badges will be replaced with the presentation of an ID, at a replacement fee of € 15. Upon registration, you will receive your name badge. Badges must be visible and worn at all times, anywhere in the MiCo.

Certificate of Attendance

Certificate of Attendance for the Forum will be available from the pre-paid registration stations in the registration area from 13:30 on Monday, July 7 until the end of sessions on Wednesday, July 9. Please scan the barcode on your badge to collect your certificate.

FENS Booth

The FENS Booth is located near the entrance to the Exhibition Area. Please come and visit us to collect information on membership or find out what FENS can do for you.

Destination Italy

The FENS Forum 2014 Host Society Committee have put together a website with detailed information about attractions, history and arts in and around Milan. To read their recommendations and to find out information about the Outreach activities they are hosting, please visit the FENS forum 2014 website.

About Registration

On-site registration July 5-9, 2014

Onsite Registration Fees

Members	€ 375
Non-members	€ 455
Student members	€ 175
Student non-members	€ 245
Corporate	€ 575
Programme book*	€ 20
Technical workshop (July 5)**	€ 65
Student Jump the FENS party (July 7)	€ 25

Registration fees include 22% VAT

* *Subject to availability*
** *Limited places available*

The Standard Registration Fee Includes:

- Attendance to the scientific programme
- Conference bag
- Entrance to the opening ceremony
- Technical workshops and registrations for some specific events, such as the student Jump the FENS party require an additional payment.

Lost badges will be replaced for registered participants presenting an ID, at a replacement fee of € 15.

Registration Categories

The following categories for participants apply:
Member: A member of one of the societies affiliated to FENS. A member of the American Society for Neuroscience (SfN) may also benefit from the same registration fees as FENS members. Please note however, that this option is offered only to SfN members who live and have their professional activity in a country where there is no neuroscience society member of FENS.
Non-member: A participant from academic or non-profit organizations.
Student: A pre-doctoral student. Postdoctoral fellows, hospital residents, interns and laboratory technicians do not qualify for the student rate.
Pre-doctoral students registering online must upload a Pdf letter proving their status (i.e. a signed statement from their Department Head or supervisor). Upon registering onsite, such proof should be presented as well.
Corporate: A participant from a company.

About the Exhibition

The FENS Forum 2014 exhibition, featuring commercial displays of international organizations, pharmaceutical, chemical and laboratory equipment companies, media publishers and scientific societies, will be located in the Exhibition Area of the MiCo. (See page 38 and onwards for the exhibitor list and profiles).

Exhibit Hall Passport Contest

Each attendee will receive a "passport card" with their Forum bag. This game card lists all the participating exhibit booth names and numbers. Attendees will need to visit at least 35 of the exhibitor booths listed and get their Passport Game Card stamped. Once 35 or more stamps have been received (in the corresponding boxes), passports can then be deposited into a drop-box located at the FENS booth.

Passports must be turned in by midday on Tuesday, July 8 in order to be eligible for the prize lottery.

The prize lottery will take place at 14:00 on Tuesday, July 8. Winners will be listed at the FENS booth. Prizes must be collected in person onsite.

Exhibition Opening Hours

Sunday 6 July:	09:30 - 17:30
Monday 7 July:	09:30 - 17:30
Tuesday 8 July:	09:30 - 17:30
Wednesday 9 July:	09:30 - 14:00

Poster Helpdesk

The poster helpdesk in the poster hall offers storage of posters during the day. You are advised to collect your poster by the end of the day. Any posters remaining at the end of the meeting will be disposed of.

Internet

The MiCo is a WiFi zone. Computer stations and abstract viewing stations will also be available in the Exhibition/Poster Area during exhibition hours only. In addition, free WiFi is offered by the Municipality of Milan in conjunction with the FENS Forum 2014 and allowing participants to surf the Internet from several sites in the city area. For more information and to register for this service please visit: *http://info.openwifimilano.it*.

Cash Bars

Cash Bars where attendees can purchase food and drink, are situated in the Exhibition/Poster Area and Main Foyer.

Press Centre

During the FENS Forum, a Press Centre will be available on mezzanine 2.

Scientific Meetings Display Table

A Display Table is located in the Exhibition Hall. Participants are welcome to use this space to place messages from colleagues.

Smoking Policy

The FENS Forum 2014 is a non-smoking event. Participants are kindly requested to refrain from smoking in all public areas.

Scientific Session and Mobile Phones

Please be respectful to the speakers and audience by keeping noise to a minimum when in the session hall areas. Delegates are kindly requested to keep their mobile phones switched off in the room where scientific sessions are being held

Food

Food is not allowed inside the session rooms. Participants may bring in water bottles.

Insurance and Liability

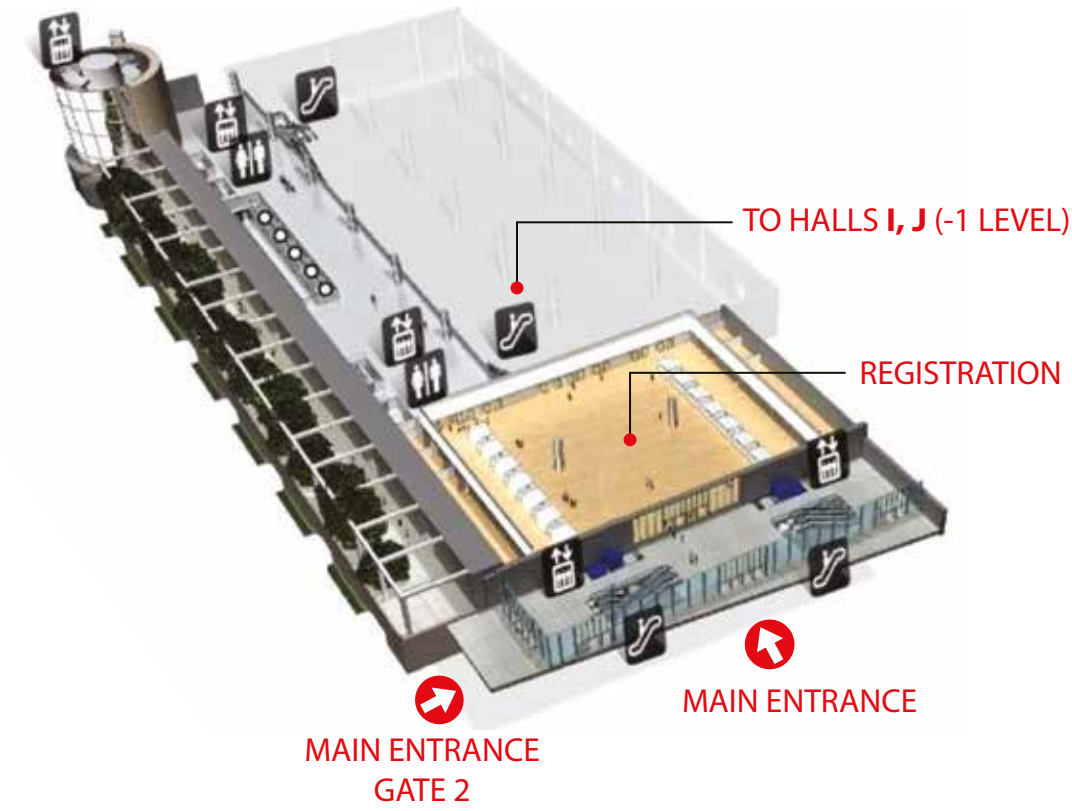
The Forum Secretariat and Organisers cannot accept liability for personal accidents or loss of/or damage to private property and participants. Participants are advised not to leave their personal belongings unattended in session halls and throughout the forum venue.

Safety and Security

Please do not leave bags or suitcases unattended at any time, whether inside or outside session halls.

MiCo CONVENTION CENTRE FLOOR PLANS

LEVEL 1



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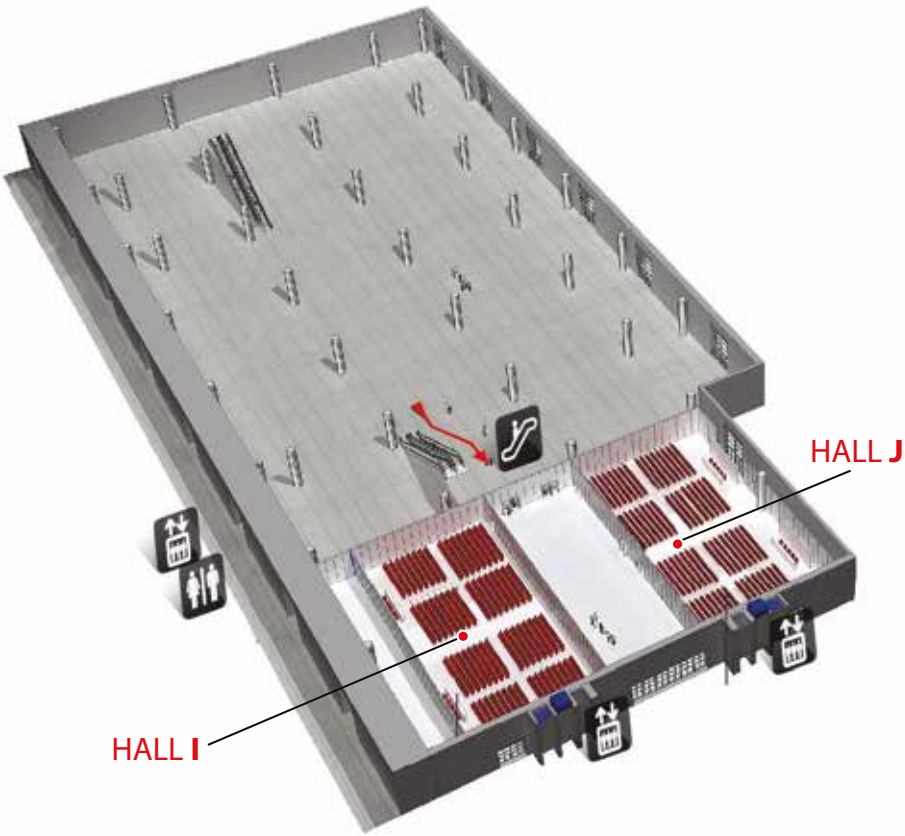

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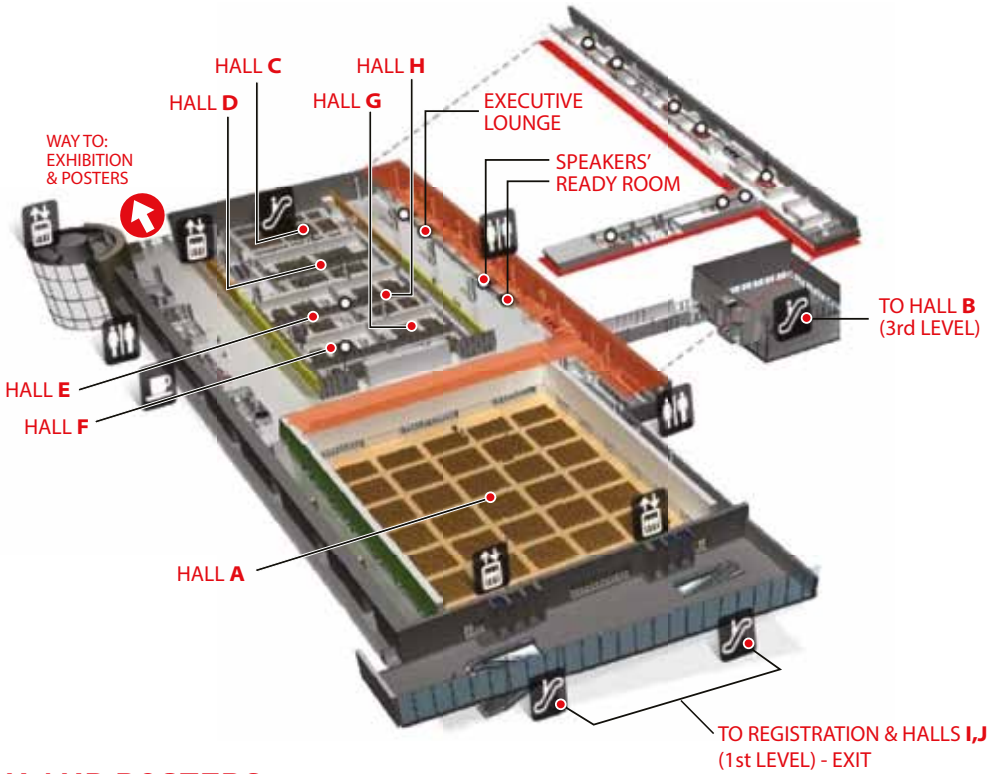
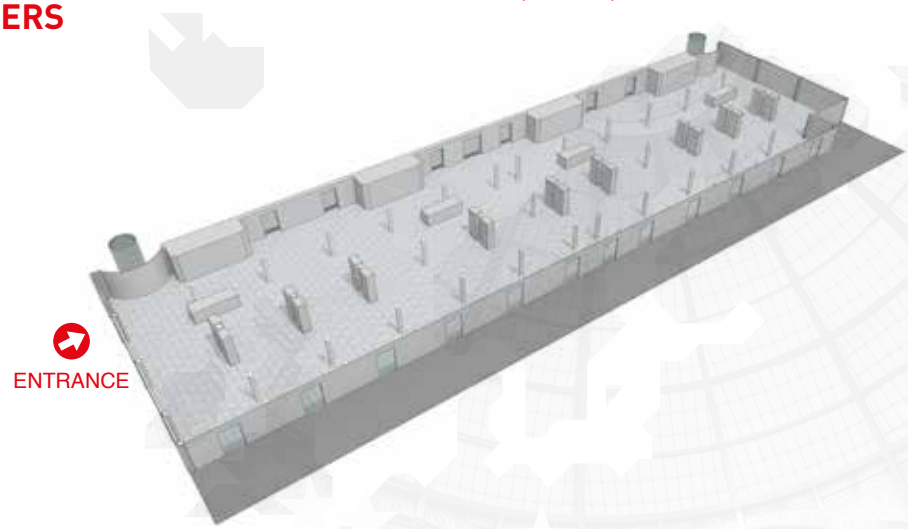


EXHIBITION AND POSTERS



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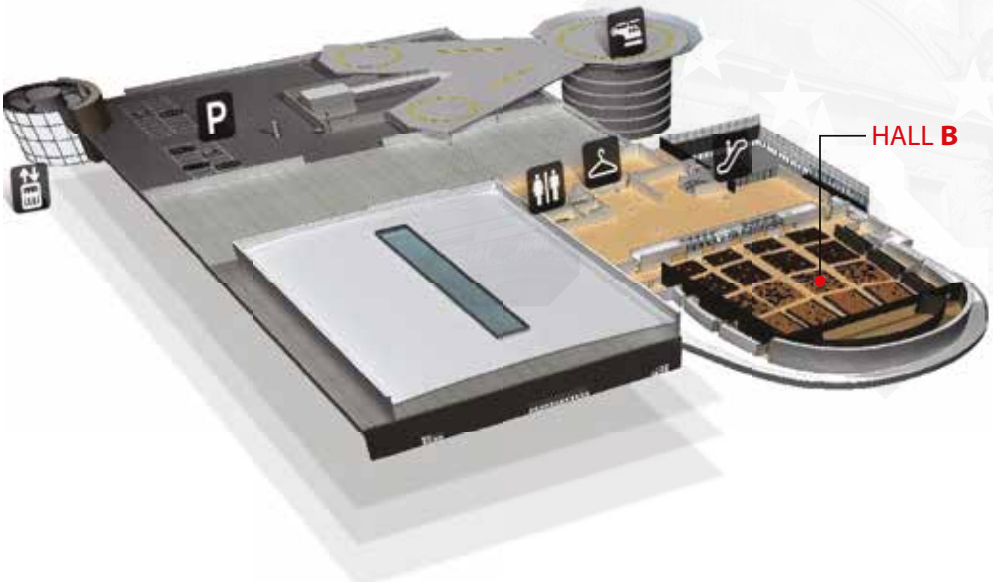


INFORMATION AT YOUR FINGERTIPS

Paperless Scientific Programme on Smartphones and Tablets

FENS Forum 2014 Mobile website transforms smart phones and tablets into a dedicated tool for active meeting participation - making it easy for delegates to access the essential meeting content and information they need. Available on Apple and Android devices as well as through mobile web and regular web access, our paperless apps enable you to:

» access the updated scientific programme (live changes made);
» create your personalized programme;
» contact fellow participants - to email, schedule meetings and network (personal information is protected and e-mail addresses are not available);

With FENS Forum 2014 Mobile website delegates can search for the information they need. For example, sessions and presentations can be searched by day and time, hall, topic and presenters.
This paperless application is designed for cross platform access via laptop and mobile devices such as Smartphones, iPhone, Android etc. Access to the application is via your browser. **Scan the QR code on this page for quick access.**

Scheduler - your itinerary planner

With the paperless application you have the option to plan your time and to schedule sessions and presentations that you want to attend and even set personal meetings. Access the scheduler via the user name and password that you have received via email or simply create a user at the login page. By clicking on the '+' icon you can add a session to your personal itinerary, or remove them by clicking on the '-'. Your schedule is saved automatically in MY FENS. Once you have compiled your programme you can either import it into your calendar or export it as a PDF. Scheduler is a new, smart application that helps you choose, plan and optimize your congress itinerary - allowing you to make the most out of your meeting

For assistance you can contact our support at *support@meetingxpert.net.*

Notification System - Your Personal Forum Mailbox

This feature enables you to communicate with your colleagues, set personal meetings and exchange ideas.

By displaying timely information about program changes as well as personal notifications from the forum secretariat or any other delegates, the Notification System enables delegates to maximize their meeting experience. The system provides scheduled notifications 5, 10, 15 or 20 minutes before a presentation begins, ensuring delegates don't miss important sessions. Once downloaded on the mobile website, delegates with Android or Apple apps can receive these updates as SMS's, push messages or web notifications.

E-Book

FENS Forum 2014 E-Book offer delegates a convenient and enjoyable way to access forum content on the move. Available on any smart device such as Apple or Android, mobile website and via browser. Delegates can add bookmarks or highlight text. Text is searchable and can be hyperlinked, enabling readers to jump back-and-forth between chapters or the index.

Limited printed copies of the FENS Forum Programme Book will be available onsite for purchase.

9th FENS FORUM OF NEUROSCIENCE

Milan | Italy July 5 – 9, 2014

Organised by the Federation of European Neuroscience Societies | FENS

Hosted by the Società Italiana di Neuroscienze | SINS

EXHIBITION

www.fens.org/2014

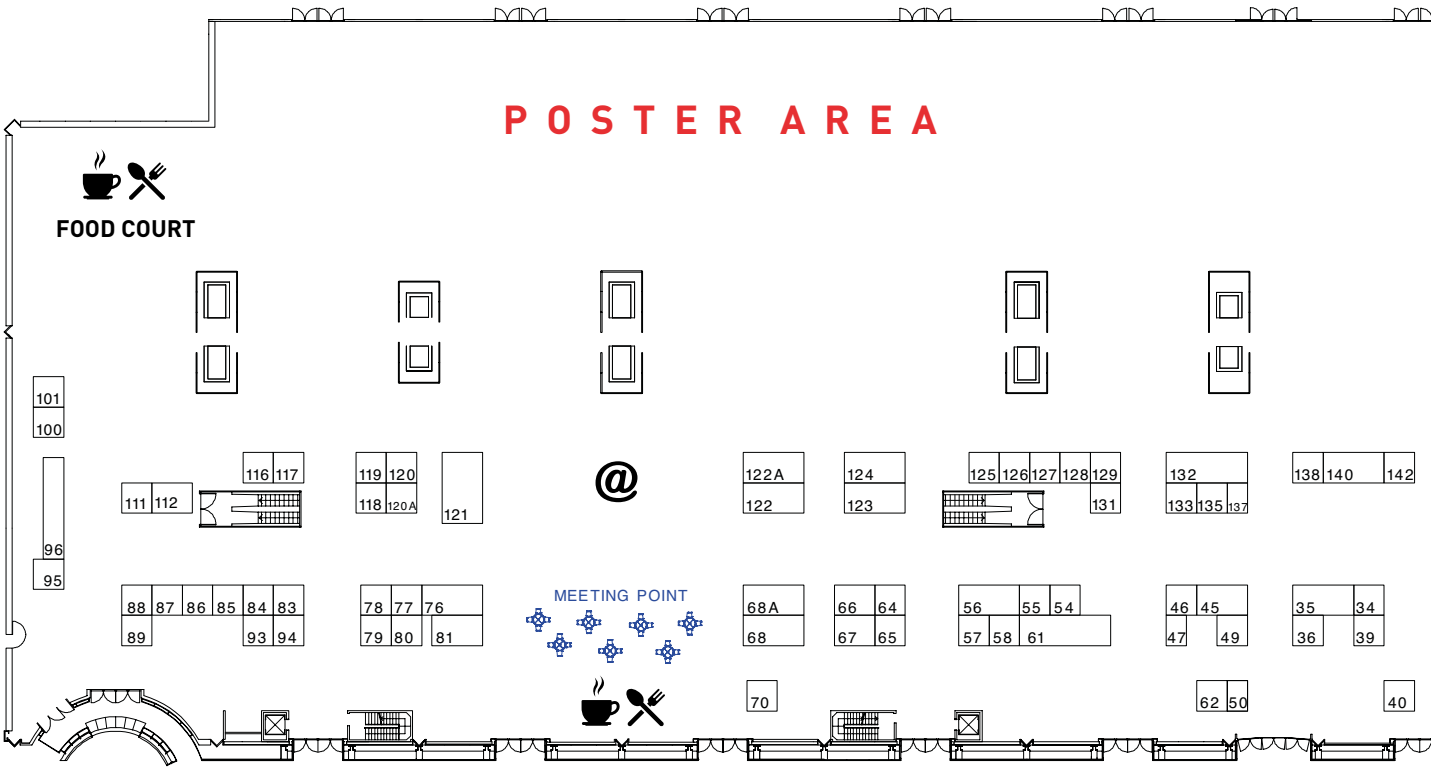
FENS Federation of European Neuroscience Societies

LIST OF EXHIBITORS & EXHIBITION FLOOR PLAN

COMPANY	BOOTH #
3DHISTECH Ltd.	79
3I (Intelligent Imaging Innovations GmbH)	20
AAAS Science International	21
Abcam	140
Advanced Targeting Systems	25
ALA Scientific Instruments, Inc.	65
Alpha Omega GmbH	147
ALZET Osmotic Pumps / DURECT Corp.	49
ANY-maze	170
Atlas Antibodies AB	54
ATLAS Neuroengineering	19A
Bilaney Consultants GmbH	157
Biopac Systems, Inc.	156
BIOSEB In Vivo Research Instruments	117
Bio-Techne	160
Blackrock Microsystems	78
Bordeaux School of Neuroscience booth	26A
Brain Products GmbH	153
Brains On-Line Bv	18A
Bruker	68A
Cairn Research Ltd.	122A
Cambridge Electronic Design Ltd.	166

COMPANY	BOOTH #
Carl Zeiss Microscopy GmbH	125
CARMEN	87
Cell Press	45
Cell Signaling Technology	152
Cellular Dynamics International	116
Charles River	36
Chinese Neuroscience Society	89
Chroma Technology	119
Clever Sys Inc.	159
CorTec	19
Crest Optics	122A
Data Sciences International (DSI)	163
Digitimer Limited	131
ECNP	88
Ecole des Neurosciences de Paris	83
Eicom Europe	167
Electrical Geodesics Inc. (EGI)	135
ELSEVIER B.V.	45
English Editing Solutions	95
Enzo Life Sciences	158
FEI Company	81
Femtonics Ltd.	124

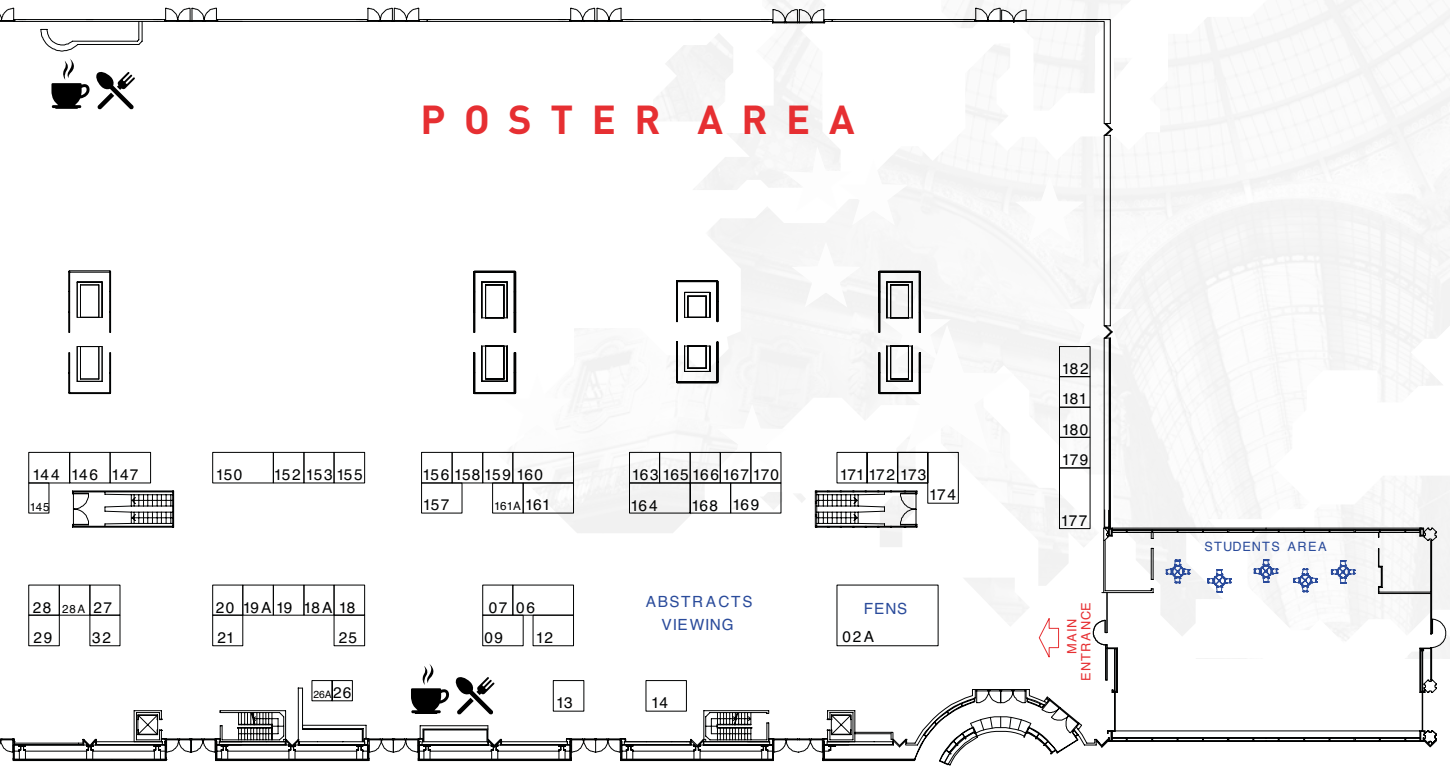
COMPANY	BOOTH #
Fine Science Tools	161
Fitzgerald Industries International	58
g.tec	165
German Graduate Schools of Neuroscience	86
Harvard Apparatus	121
HEKA Elektronik Dr. Schulze GmbH	129
Hertie Foundation	118
Human Brain Project	68
IBRO	112
IMETRONIC	120
INNOPROT	145
ISN (Intl. Society For Neurochemistry)	94
Jackson Immunoresearch Europe Ltd.	137
Lafayette-Campden Neuroscience	12
LaVision BioTec GmbH	55
Life Technologies	179
Lohmann Research Equipment	157
Luigs & Neumann GmbH	39
Mauna Kea Technologies	9
Merck Millipore	56
Metris B.V.	34



COMPANY	BOOTH #
MicroBrightField Europe e.K.	155
Mightex Systems	50
Miltenyi Biotec	133
Molecular Devices	146
Moor Instruments Ltd.	13
Multi Channel Systems	150
Nan Instruments Ltd.	80
Nanion Technologies GmbH	161A
Narishige International Ltd.	177
Neuralynx Europe	172
Neurex / JMN / NeuroTime	85
NeuroNexus	40
Neurostar	46
Neurotar	7
Nikon Instruments	70
Noldus Information Technology bv	66
Novus Biologicals	28
npi electronic GmbH	64
Optical Imaging Ltd.	180
Olympus Europa SE & Co. KG.	6
Perimed AB	26
PhenoSys GmbH	128

COMPANY	BOOTH #
Pinnacle Technology Inc.	127
Plexon Inc.	35
PLOS	101
Proteintech Group	77
Qwane Biosciences	182
Research Diets, Inc.	142
Research in Germany / German Research Foundation (DFG, Deutsche Forschungsgemeinschaft)	111
Rogue Research Inc.	61
Royal Society Publishing	47
RWD Life Science Co.,Ltd	138
Sable Systems	181
SAGE Labs	62
Sensapex	174
Scientifica Ltd.	132
Sociedad Espanola De Neurociencias (SENC) and Sociedad Espanola De Neurología (SEN)	84
Society for Neuroscience (SfN)	28A
SONIDEL Limited	173
Springer	122

COMPANY	BOOTH #
Stoelting Europe	171
Sutter Instrument Co.	57
Synaptic Systems GmbH	126
Ted Pella Inc.	168
The Brain Prize	120A
The MIT Press	100
Thermo Scientific	67
Thomas RECORDING GmbH	29
THORLABS	76
TOPTICA Photonics AG	18
TSE Systems GmbH	123
Tucker-Davis Technologies	27
UGO BASILE SRL	169
Viewpoint S.A.	144
Wiley	164
Wisepress Ltd.	96
World Precision Instruments	32
Year of the Brain	93



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China
www.cns.org.cn; www.neurosci.cn

Chinese Neuroscience Society (CNS) was founded in 1995 with more than 4,000 active members from universities, research institutes and hospitals over China. The 11th CNS Biennial National Conference and 6th FAONS Congress will be held in September 2015 in Wuzhen, China. We look forward to welcoming neuroscientists from Asian-Pacific area and other regions. Neuroscience Bulletin (NB) was founded in 2006, is the official, bimonthly journal of the CNS published by Springer. NB publishes original research articles on basic and clinical neuroscience, and Reviews, Research Highlights, Perspectives, Brief Communications, and Methods.

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www.chroma.com

Chroma Technology Corp. is an employee-owned company that specializes in the design and manufacture of precision optical filters and coatings. The most advanced coating techniques have been developed that provide the greatest accuracy in color separation, optical quality and signal purity economically for your OEM applications. We provide application engineering support, short cycle times and are as comfortable designing and manufacturing custom filters as we are our catalog items.

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www.cleversysinc.com

Clever Sys Inc., is a bioinformatics company specializing in software and hardware for automated behavioral testing. Our video based technology provides comprehensive tools for data acquisition and analysis. Clever Sys Inc., brings behavioral testing into the twenty-first century, enhancing video tracking with our patented next generation Behavior Recognition technology.

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www.cortec-neuro.com

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Crest Optics
Via Mattia Battistini 184 C/D
00167 Roma
Italy
www.crestopt.com

CrestOptics is a Manufacturing Company with the mission to develop advanced methodologies and equipment aimed at the MicroBiology Research and Material Sciences. The Production and Research area is located in Rome, with a plant of > 1000 SQM. The first Company milestone (2009), has been the development and manufacturing of the Advanced Confocal Attachment 'X-Light', based on state of the art solutions in spinning disk technology, optics and engineering. Two international patent are part of this development. Our Confocal Head Systems connect to the most common fluorescence microscopes from all vendors like Nikon, Olympus, Leica and Zeiss.

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North America Sales
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Suite 100
St. Paul, MN 55112
USA
www.datasci.com

DSI is a pioneering biomedical research company focused on systems physiology and pharmacology.
The recognized global leader in physiologic monitoring, DSI offers telemetry, instrumentation, software and services that help advance science. DSI serves many industries including: Pharmaceuticals, Academia, Contract Research Organizations, Biological and Chemical Defense, the Medical Device Industry, Government, and Biotechnology companies. We offer solutions that are tailored specifically to meet the unique research needs of our customers

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37 Hydeway
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UK
www.digitimer.com

Digitimer designs and manufactures scientific instrumentation for research & clinical environments. We offer our modular NeuroLog electrophysiology system for intracellular, extracellular and multi-channel isolated amplification as well as stimulation and pulse generation. We also manufacture a wide range of electrical stimulators for many applications, including some certified for human use. Digitimer represents companies that produce complementary equipment, including: AutoMate Scientific (perfusion systems), Axelgaard (electrodes), Harvard/Medical Systems (injectors and tissue chambers), HEKA Elektronik (patch-clamp/voltammetric amplifiers and software), Narishige (micro-manipulators, injectors and pipette pullers), Scientific Systems Design (temperature controlled tissue/slice chambers), ThorLabs (anti-vibration tables) and Quest Scientific (HumBug Noise Eliminator).

ECNP
Bolognalaan 28
3584 CJ Utrecht
The Netherlands
www.ecnp.eu / www.ecnp-congress.eu

ECNP is an independent scientific association dedicated to the science and treatment of disorders of the brain. It is the largest non-institutional supporter of applied and translational neuroscience research and education in Europe. ECNP organises a wide range of scientific and educational activities, programmes and events across Europe, promoting the exchange of high-quality experimental and clinical research and fostering young scientists and clinicians. The annual ECNP Congress is Europe's premier scientific meeting for disease-oriented brain research, annually attracting between 5,000 and 8,000 neuroscientists, psychiatrists, neurologists and psychologists from around the world.

École des Neurosciences de Paris Ile-de-France ENP
15 rue de l'école de médecine
Réfectoire des Cordeliers 1er étage
75006 Paris
France
www.paris-neuroscience.fr

The ENP is a scientific foundation created in 2007, bringing together 112 teams from 22 research centers, that has become a unique entry-gate to the Paris-region neuroscience community. The ENP aims to promote synergy between research groups and universities, and to foster international and multidisciplinary exchanges in order to understand the brain, to treat its diseases and improve its abilities. The ENP has launched several programs supporting many fields from Neurogenetics and Neurodevelopment, Neurophysiology and Systems Neuroscience, Cognitive Neurosciences Neuropsychology and Neuroeconomy, Computational Neuroscience and Neural theory, Neurological and Psychiatric diseases, Neuropharmacology and Cell signaling, to Physics Technology and Robotics.

Eicom Europe
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Eicom is a world leader in HPLC-Electrochemical Detection and Microdialysis Sampling Systems for diverse life science fields with a core focus in neuroscience and analytical chemistry. Our products enable researchers in academia and industry to effortlessly and efficiently collect samples and monitor the level of specific biological compounds.

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EGI brings next-generation clinical EEG systems, tools, and workflows to hospitals and clinics worldwide. EGI's EEG Systems feature EGI's revolutionary Geodesic Sensor Net for unprecedented patient comfort and rapid application, removal, and cleanup. Your choice of systems with 32 channels for routine 10-20 EEG in ambulatory or stationary mode, or dense array systems with 64, 128, or 256 channels for source estimation and other applications requiring high spatial resolution. EGI also offers software for spike and seizure detection and for source estimation. Visit EGI's booth to see this in action!

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www.elsevier.com

As your gateway to the latest advancements in Neuroscience research, Elsevier books and journals provide you with leading-edge data from global experts. Stop by the booth to view new editions of The Rat Brain Atlas, MATLAB, and more. Books at the booth are discounted up to 50% off and include free global shipping. Be sure to get your passport stamped to win a free book! Browse top neuroscience journals including Brain Research, NeuroImage and Neurobiology of Disease, and society related titles Neuroscience and Neuroscience Research. Delegates have the opportunity to gain access to free content from over 50 journals.

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www.enzolifesciences.com

Enzo Life Sciences, Inc. is organized to lead in the development, production, marketing, and sales of innovative life science research reagents worldwide based on over 30 years of successful experience in building strong international market recognition, implementing outstanding operational capabilities, and establishing a state-of-the-art electronic information and ordering marketplace.
We are a recognized leader in labeling and detection technologies across research and diagnostic markets. Our strong portfolio of proteins, antibodies, peptides, small molecules, labeling probes dyes and kits provides life science researchers tools for target identification/validation, high content analysis, gene expression analysis, nucleic acid detection, protein biochemistry and detection, and cellular analysis.

European Brain Council (EBC) – Year of the Brain
Fondation Universitaire
11, Rue d'Egmont
B-1000 Brussels
Belgium
www.europeanbraincouncil.org/year-of-the-brain

The European Brain Council is a coordinating council formed by European organisations in neurology, neurosurgery, psychiatry, basic brain research (neuroscience), and patient organisations and companies from within the pharma and biotech industries.
The Year of the Brain initiative - 2014 and 2015 has a vision to protect, preserve, develop and nurture our most vital asset: 'The Brain' and has 3 main goals:

1. To educate society about how to nurture and protect the brain and prevent brain disease
2. To improve care and treatment access for those affected by brain disease
3. To increase investment in brain-related R&D for the benefit of future generations

FEI Company
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With more than 60 years of innovation and leadership, FEI enables customers to find meaningful answers to questions that accelerate breakthrough discoveries, increase productivity, and ultimately change the world. FEI designs, manufactures, and supports the broadest range of high-performance microscopy workflows that provide images and answers in the micro-, nano-, and picometer scales. Combining hardware and software expertise in electron, ion, and light microscopy with deep application knowledge in the materials science, life sciences, electronics, and natural resources markets, the worldwide FEI team of 2,700+ employees is dedicated to customers' pursuit of discovery and resolution to global challenges.

Femtonics Ltd.
Tuzolto u 59
Budapest, H-1094
Hungary
www.femtonics.eu

Femtonics focuses on the research and development of two-photon laser scanning microscopes for the booming area of (neuro) physiological investigations. Our microscopes are tuned for the fastest 2D and 3D optical measurements and are especially suited for cutting-edge brain research and pharmaceutical development. On the other hand, due to their modular nature, they can be easily adapted to suit other applications, including biophysical use. For the past one decade, the main aim and objective of Femtonics has been to create and provide uniquely novel technologies shifting to higher paradigms in the fields of advance 3D imaging.

Fine Science Tools GmbH
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69115 Heidelberg
Germany
www.finescience.de

Fine Science Tools was founded over 30 years ago and has established itself as a market leader, through a commitment to quality products, unparalleled customer service as well as providing quality European microsurgical instruments created to meet research scientists' special needs. We invite you to also visit our European website at www.finescience.de which is available in 5 languages and is fully searchable. It incorporates online ordering, an extensive FAQ section as well as links to conventions we intend to visit in the future. You will also find our latest catalogue download and our contact data.

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USA
www.fitzgerald-fii.com

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g.tec
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Graz, 4521
Austria
www.gtec.at

g.tec was founded in 1999. It is a growing enterprise with two branches in Austria, one in Spain and partners all over the world. All the development is done in-house by our team of researchers and engineers. g.tec developed the first commercially available BCI system in 1999 and now sells this system in more than 60 countries. Our products work with all major BCI approaches (motor imagery, P300, SSVEP and SCP), so you can start BCI research within a few hours.

German Graduate Schools of Neuroscience
LMU Munich
Grosshaderner Strasse 2
Martinsried, 86152
Germany
www.neuroschools-germany.com

The German Graduate Schools of Neuroscience represent several international and highly-structured educational programs in neuroscience from Master of Science to PhD. The programs are located at the major German universities of Berlin, Bochum, Göttingen, Magdeburg, München, Regensburg and Tübingen. Each with its own specializations, these programs cover all areas of neuroscience research from molecular and cell biology to systemic neuroscience including imaging, computational cognitive and translational neurosciences. You are welcome to stop by at our booth and learn more about your opportunities in German Neuroscience Education. Get detailed information about the scientific focus, structure and application procedures for each program.

Harvard Apparatus
84 October Hill Road
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United States
www.harvardapparatus.com

Harvard Apparatus along with other Harvard Bioscience divisions, proudly offer a broad line of specialized tools and integrated systems for neuroscience research. Exhibiting divisions will be Harvard Apparatus for surgical suites, stereotaxic frames and injection systems, CMA for microdialysis probes and fraction collectors, Hugo Sachs Elektronik for complete isolated organ and tissue systems, Warner for complete electro-physiology systems and Panlab and Coulbourn for behavioral research products; including our new Smart 3.0 Video Tracking software and Graphic State 4 Software for Operant Conditioning. Please visit booth 121 to view the most advanced systems for neuroscience, regenerative medicine and behavioral research applications.

HEKA Elektronik
Dr. Schulze GmbH
D-67466 Lambrecht
Pfalz
Germany
www.heka.com

For over forty years, HEKA has been among the market leaders in patch clamp systems and a major player in electrochemistry equipment. Throughout these years there have been many changes in research, instrumentation and software. HEKA's goal has always been to drive this progress and shape those changes, while remaining committed to our most important business partner, our customer.
Recent product launches include the Imaging Extension Software, the ElProScan Advanced Scanning Electrochemistry Microscopes, and the iTEV 90 Computerized Two-electrode Clamp Amplifier. HEKA's established portfolio of patch clamp and electrochemistry systems, interfaces and software enjoys increasing popularity in the scientific community.

Hertie Foundation
Grüneburgweg 105
Frankfurt, D-60323
Germany
www.ghst.de

The Hertie Foundation is active in pre-school, school, university and neurosciences. It is the second largest private patron of brain research in Europe and the largest in Germany. In the Neurosciences field the Hertie Foundation seeks to further research in the neurosciences and especially the fight against diseases of the brain. The Hertie Institute for Clinical Brain Research in Tübingen, that was established in 2002 together with the University of Tübingen, is the largest neuroscientific project of the foundation. The foundation announces in cooperation with FENS the Eric Kandel Young Neuroscientists Prize.

Human Brain Project
EPFL- Blue Brain Project
Innovation Quarter
Building J 3rd Floor
CH-1015 Lausanne
Switzerland
www.humanbrainproject.eu

With over 100 institutions, more than 20 countries, 3 research areas and 13 subprojects – the Human Brain Project, which began on October 1, 2013, is one of the European Union's two FET Flagship Programmes – one billion euro, ten-year projects addressing fundamental scientific challenges with a potentially very large social and economic impact. In the first two and a half years, the project will design, build and begin to operate a completely new ICT infrastructure for neuroscience, and for brain-related research in computing and medicine. Six tightly integrated ICT platforms will offer state of the art services in Neuroinformatics, Brain Simulation, High Performance Computing, Medical Informatics, Neuromorphic Computing and Neurorobotics.
Starting in March 2016, the project will open its platforms to the world scientific community, catalyzing a global collaborative effort to reach a unified understanding of the human brain and its diseases and, ultimately, to emulate its computational capabilities.

IBRO (International Brain Research Organization)
255 rue Saint-Honore
Paris 75001
France
www.ibro.info

The International Brain Research Organization (IBRO) is a union of neuroscience organizations and scientific societies that work together to accelerate the progress of brain research by improving the quality of neuroscience across the world, especially in disadvantaged countries, and by increasing opportunities for collaboration. Founded in 1961, IBRO was the first international neuroscience organization, and today it remains the only organization of its kind that focuses on a truly worldwide scale. IBRO will hold its 9th World Congress of Neuroscience in Rio de Janeiro, Brazil, from July 7 to 11, 2015.

IMETRONIC
156, avenue Jean Jaures
33600 Pessac
France
www.imetronic.com

IMETRONIC's activity is dedicated to the conception and manufacture of equipment for behavioural tests in the fields of neurobiology, pharmacology, physiology and toxicology. Our products are entirely developed, produced, and tested on our premises (mechanics, electronics, and informatics). We ensure the installation, start-up, continued service (maintenance, hot line, spare parts), and evolution of our products.
Moreover, we support individual researchers' needs by developing customized apparatus. Our vision is focused on constant innovation, including the development of a system that couples the analysis of animal behaviour with electrophysiology and optogenetics.

INNOPROT
Parque Tecnológico de Bizkaia
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Spain
www.innoprot.com

Innoprot is a dynamic and R&D intensive biotech focused on developing cell-based assays for High-Throughput Screening and High-Content Analysis.
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Innoprot offers primary cells from CNS and stable cell lines mimicking several pathways of disease, including Alzheimer's Disease, Parkinson's Disease and Amyotrophic Lateral Sclerosis.

ISN - International Society for Neurochemistry
1-3, Rue de Chantepoulet
1211 Geneva
Switzerland
www.neurochemistry.org

The International Society for Neurochemistry (ISN), is the sole international nonprofit membership organization comprised of scientists and physicians who are active in the field of neurochemistry, cell and molecular neuroscience or related areas, and committed to share knowledge, promoting multidisciplinary collaboration amongst all professionals giving them a voice within the international context.
In this endeavor ISN thrives to facilitate and foster the education and development of neuroscientists, particularly young and emerging investigators through a wide range of activities including biennial congresses, specialized conferences, grants opportunities, training programs and network opportunities with the leading experts of the neurochemistry field.

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Boschstrasse 19
40880 Ratingen
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www.luigs-neumann.com

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Miltenyi Biotec
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www.miltenyibiotec.com

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Molecular Devices, LLC., a leader in bioanalytical systems for drug discovery & development, life science research, and bioassay/test development. The company's systems and consumables enable pharmaceutical and biotechnology companies to leverage advances in genomics and combinatorial chemistry by facilitating the high-throughput and cost-effective identification and evaluation of drug candidates. Molecular Devices' product solutions are based on the company's advanced core technologies that integrate its expertise in engineering, molecular and cell biology, electrophysiology, and chemistry. The company enables its customers to improve their research productivity and effectiveness, which ultimately accelerates the complex process of discovering and developing new drugs.

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Germany
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Multi Channel Systems focuses on the development of precision scientific measuring instrumentation and equipment in the field of electrophysiology. We provide solutions for extra-cellular recordings with microelectrode arrays in vitro and in vivo. This year, we are proud to present our versatile MEA2100-System for in vitro recordings and the Wireless-Systems for recordings from freely moving animals.
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Nanion Technologies is one of the leading providers of automated patch clamp systems. Nanion's products offer the entire experimental range from single channel recordings to HTS-compatible ion channel screening from up to 768 cells in parallel. Allowing 20,000 data points per day, the SyncroPatch 384PE is unrivalled for high throughput and high quality recordings.
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Neuralynx Europe
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www.neuralynx.com

Neuralynx is an internationally recognized provider of electrophysiology data recording systems and solutions for neuroscience research &clinical medical data recording. Neuralynx specializes in the development of cutting edge electrophysiology data recording systems, optogenetics systems, and experimental accessories while providing quality, long term customer guidance and support.

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and Cellular Neurosciences
Department of Biological Rhythms
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The Spanish Society for Neuroscience (Sociedad Española de Neurociencia, SENC) and the Spanish Neurological Association (Sociedad Española de Neurología, SEN) are the largest organizations of researchers and clinicians dedicated to study the nervous system and the neurological disorders in Spain. The goals of these societies are to promote the advance in the knowledge in the fields of Neuroscience and Neurology, and the support, training and education of neuroscientists and neurologists and the public dissemination of the basic and clinical neuroscience research.

Society for Neuroscience (SfN)
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Washington 20005
USA
www.sfn.org

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SCIENTIFIC PROGRAMME
SATURDAY, JULY 05, 2014

12:30 - 15:30 **Hall G**

TECHNICAL WORKSHOP:
W01: From synapses to network oscillations: High resolution recording techniques

Chairs: H.R. Polder *(Germany)* 1
A. Draguhn *(Germany)* 2

12:30 **MICRO-IONTOPHORESIS OF GLUTAMATE AND GABA: A USEFUL TOOL TO INVESTIGATE SYNAPTIC INTEGRATION** 3
C. Müller, S. Remy *(Bonn, Germany)*

13:00 **RECORDING AND LABELING SINGLE NEURONS IN FREELY MOVING RATS: INSIGHTS INTO THE CELLULAR BASIS OF BEHAVIOR** 4
A. Burgalossi *(Berlin, Tübingen)*

13:30 **NOVEL INSIGHTS INTO HUMAN NEOCORTICAL NETWORKS: PHYSIOLOGICAL AND PATHOLOGICAL OSCILLATORY STATES** 5
M. Cunningham *(Newcastle Upon Tyne, United Kingdom)*

14:00 **OPTICAL AND ELECTROPHYSIOLOGICAL IDENTIFICATION OF CO-ACTIVE NEURONS** 6
S. Reichinnek, T. Pfeiffer, A. Draguhn, M. Both *(Heidelberg, Germany)*

14:30 **JUXTACELLULAR RECORDING AND LABELING OF CORTICAL NEURONS IN FREELY MOVING RODENTS DURING NATURAL SLEEP** 7
R. Averkin, V. Szemenyei, G. Tamás *(Szeged, Hungary)*

15:00 **TWO-PHOTON FUNCTIONAL IMAGING OF DENDRITIC SPINES IN DEEP CORTICAL LAYERS IN VIVO** 8
H. Jia, Z. Varga, B. Sakmann, A. Konnerth *(München, Germany)*

12:30 - 15:30 **Hall D1**

TECHNICAL WORKSHOP:
W02: Optical measurement and manipulation of neural circuits in transparent animal models

Chairs: C. Wyart *(France)* 9
P. Gorostiza *(Spain)* 10

12:30 **OPTICALLY GATING SYNAPTIC PLASTICITY** 11
A. Reiner, S. Szobota, S. Berlin, J. Levitz, E.Y. Isacoff *(New York, USA)*

13:00 **ANALYSIS OF NEURONAL CIRCUIT FUNCTIONS IN THE OLFACTORY SYSTEM OF ZEBRAFISH: READING AND WRITING ACTIVITY PATTERNS BY LIGHT** 12
R. Friedrich *(Basel, Switzerland)*

13:30 **SYNAPTIC MECHANISMS OF GAIN CONTROL IN THE RETINA** 13
L. Lagnado *(Brighton, United Kingdom)*

14:00 **LIGHT SHEET MICROSCOPY AND OPTOGENETICS IN ZEBRAFISH** 14
J. Huisken *(Dresden, Germany)*

14:30 **OPTICAL AND GENETIC METHODS FOR MEASURING NEURAL ACTIVITY IN THE ZEBRAFISH HABENULA** 15
E. Dreosti *(London, United Kingdom)*

15:00 **OPTOGENETIC STRATEGIES FOR CONTROL OF BIOELECTRIC SIGNALING IN NON-EXCITABLE SOMATIC CELLS: DEVELOPMENT, REGENERATION, AND CANCER** 16
D. Adams, M. Levin *(Medford, USA)*

12:30 - 15:30 **Hall F**

TECHNICAL WORKSHOP:
W03: Novel trans-synaptic tracing approaches for functional-anatomical studies of neuronal circuits

Chairs: T.W. Margrie *(United Kingdom)* 17
A. Frick *(France)* 18

12:30 **LINKING CIRCUIT STRUCTURE TO FUNCTION WITH GENETICALLY MODIFIED RABIES VIRUSES** 19
E. Callaway *(La Jolla, USA)*

13:00 **CONNECTING THE FLASHING DOTS: WHAT IS THE BIG PICTURE OF CORTICAL CIRCUITS?** 20
K.A.C. Martin *(Zürich, Switzerland)*

13:30 **MAPPING SYNAPTIC FUNCTION AND CONNECTIVITY IN CORTICAL CELLS** 21
T.W. Margrie *(London, United Kingdom)*

14:00 **COMBINING RETROVIRUS AND RABIES VIRUS TO STUDY NEW CELL INTEGRATION INTO AN EXISTING CIRCUIT** 22
H. Van Praag *(Baltimore, USA)*

14:30 **TAGGING NEURONAL POPULATIONS WITH NOVEL PSEUDORABIES VIRUSES** 23
K. Beier, D. Goz, C.L. Cepko *(Stanford, USA)*

15:00 **THE BRAINBOW HERPESVIRUS - EXPANDING THE VIRAL NEURONAL TRACING TOOLBOX** 24
O. Kobiler, L.W. Enquist, J.P. Card *(Tel Aviv, Israel)*

12:30 - 15:30 **Hall D2**

TECHNICAL WORKSHOP:
W04: Closed-loop methodology in neural systems

Chair: A. El Hady *(Germany)* 25

12:30 **OPTIMAL CONTROL OF THE BASAL GANGLIA - A PROMISING APPROACH IN THERAPY OF NEUROLOGICAL AND PSYCHIATRIC DISORDERS** 26
H. Bergman *(Jerusalem, Israel)*

13:00 **HEBBIAN LEARNING RULES AND CONTROL THEORETIC INVERSE MODELS** 27
R. Hahnloser *(Zurich, Switzerland)*

13:30 **ASSESSING NEURONAL SIGNAL INTEGRATION BY MEASURING ISO-RESPONSE STIMULI WITH CLOSED-LOOP ELECTROPHYSIOLOGY** 28
T. Gollisch *(Goettingen, Germany)*

14:00 **BRAIN-MACHINE CO-ADAPTATION IN CLOSED-LOOP NEUROPROSTHETIC SYSTEMS** 29
J. Carmena *(Berkeley, USA)*

14:30 **EXPERIMENTAL CLOSED-LOOP MOTOR-SENSORY CONTROL FOR THE STUDY OF ACTIVE PERCEPTION** 30
A. Wallach, K. Bagdasarian, E. Ahissar *(Rehovot, Israel)*

15:00 **FLEXIBLE FEEDBACK STIMULATION LOOP(S) BETWEEN ARBITRARY SETS OF INDIVIDUAL NEURONS ON HIGH-RESOLUTION CMOS-BASED MICROELECTRODE ARRAYS** 31
J. Müller, D.J. Bakkum, M. Radivojevic, M. Ballini, P. Livi, Y. Chen, A. Hierlemann *(Basel, Switzerland)*

12:30 - 15:30 **Hall E**

TECHNICAL WORKSHOP:
W05: New approaches to understand astrocyte-neuron interactions in health and disease

Chairs: A. Araque *(Spain)* 32
C. Escartin *(France)* 33

12:30 **LIVE IMAGING OF THE TRIPARTITE SYNAPSE USING STED MICROSCOPY** 34
A. Panatier, S.H. Oliet, U.V. Nägerl *(Bordeaux, France)*

13:00 **3D IMAGING OF ASTROCYTE CA2+ DYNAMICS DURING SYNAPTIC FUNCTION IN THE ADULT BRAIN** 35
A. Volterra, N. Liaudet, E. Bindocci, C. Dürst, I. Savtchouk *(Lausanne, Switzerland)*

13:30 **ASTROCYTE ACTIVATION MODULATES EXCITATORY/INHIBITORY BALANCE AND RESPONSE SELECTIVITY OF VISUAL CORTEX NEURONS IN VIVO** 36
G. Perea *(Madrid, Spain)*

14:00 **IN VIVO ANALYSIS OF ASTROCYTE CA2+ DYNAMICS DURING LOCOMOTION** 37
D. Bergles, M. Paukert, A. Agarwal, J. Cha, V. Doze, J. Kang *(Baltimore, USA)*

14:30 **NEW TOOLS TO STUDY ASTROCYTE FUNCTION IN BEHAVING MICE** 38
A. Nimmerjahn *(La Jolla, USA)*

15:00 **BIDIRECTIONAL SIGNALING BETWEEN NEURONS AND ASTROCYTES IN BRAIN DEVELOPMENT, PLASTICITY, AND HOMEOSTASIS** 39
K. Murai *(Montreal, Canada)*

15:30 **A CELLULAR STAR ATLAS: USING ASTROCYTES FROM HUMAN PLURIPOTENT STEM CELLS FOR DISEASE STUDIES** 40
E. Ullian, K. Hokanson, G. Rooney, R. Krencik *(San Francisco, USA)*

12:30 - 15:30 **Hall H**

TECHNICAL WORKSHOP:
W06: Epigenomic landscapes of the adult brain: implications in neuroplasticity and brain disorders

Chairs: A. Barco *(Spain)* 41
A. Boutillier *(France)* 42

12:30 **NEURONAL EPIGENOME PROFILING IN NEURODEGENERATIVE DISEASES USING NGS TECHNOLOGIES** 43
A. Fischer *(Gottingen, Germany)*

13:00 **NEURONAL EPIGENOME MAPPING IN DEVELOPING AND DISEASED PREFRONTAL CORTEX** 44
S. Akbarian *(New York, USA)*

13:30 **NEURONAL HISTONE ACETYLATION AND GENE EXPRESSION PROFILING IN INTELLECTUAL DISABILITY DISORDERS** 45
A. Barco, L.M. Valor, J.P. Lopez-Atalaya *(San Juan De Alicante, Spain)*

14:00 **USING NEXT GENERATION SEQUENCING TECHNOLOGIES TO DEFINE THE EPIGENOMIC AND TRANSCRIPTOMIC LANDSCAPE OF LEARNING** 46
T. Abel *(Philadelphia, USA)*

14:30 **NEOCORTICAL TET3-MEDIATED DNA HYDROXIMETHYLATION PROMOTES RAPID BEHAVIORAL ADAPTATION** 47
T.W. Bredy *(Brisbane, Australia)*

15:00 **NGS-BASED TRANSCRIPTOME CHARACTERISATION OF RAT HIPPOCAMPUS** 48
W. Chen *(Berlin, Germany)*

15:45 - 17:15 **Hall A**

SPECIAL INTEREST EVENT:
SiE01: EJN Special Feature - Modern neurocircuitry analysis

Chairs: J. Fritschy *(Switzerland)* 49
M. Sarter *(USA)* 50

15:45 **SYNAPTIC ORGANISING COMPLEXES: MOLECULAR TRIGGERS FOR SYNAPSE DEVELOPMENT** 51
A.M. Craig *(Vancouver, Canada)*

16:15 **THE MECHANISMS AND MEANING OF NEOCORTICAL DYNAMICS** 52
C.I. Moore *(Providence, USA)*

16:45 **CONNECTIVITY-BASED BRAIN MAPPING** 53
M. Tittgemeyer *(Cologne, Germany)*

17:15 - 18:00 **Hall A**

OPENING CEREMONY:

17:15 **WELCOME BY THE HOST SOCIETY COMMITTEE CHAIR AND SINS** 54
Marina Bentivoglio, HSC/SINS

17:20 **WELCOME BY THE MUNICIPALITY OF MILAN** 55
Pierfrancesco Majorino

17:25 **WELCOME BY THE REGION OF LOMBARDY** 56
Mario Melazzini

17:30 **MUSICAL WELCOME BY "FANFARA DEL COMANDO I^ REGIONE AEREA DELL'AERONAUTICA MILITARE ITALIANA"**

17:50 **WELCOME BY THE FENS PRESIDENT** 57
Marian Joëls

18:00 - 19:00 **Hall A**

PLENARY LECTURE:
PL01: Kavli Foundation Lecture

Introducer: M. Joëls *(The Netherlands)* 58

REWARD, VALUE AND PSYCHOPATHOLOGY 59
R. Dolan *(London, United Kingdom)*

19:00 - 22:00 **Hall F**

NETWORKING EVENT:
Symposium in honour of the late Ferdinando Rossi: A passionate journey through the cerebellar mysteries

All Day **Hall B**

NETWORKING EVENT:
History Corner exhibition

All Day **Hall B**

NETWORKING EVENT:
The Smile of the Mind exhibition

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SUNDAY, JULY 06, 2014

8:30 - 9:30 **Hall A**

PLENARY LECTURE:
PL02: Temporal expectations: the fourth dimension in attention

Introducer: S. Huck *(Austria)* 60

TEMPORAL EXPECTATIONS: THE FOURTH DIMENSION IN ATTENTION 61
A. Nobre *(Oxford, United Kingdom)*

9:45 - 11:15 **Hall G**

SYMPOSIUM:
S01: Emergent concepts in axon guidance

Chairs: A. Kania *(Canada)* 62
E. Herrera *(Spain)* 63

9:50 **MULTIPLE MOLECULAR CROSS-TALKS ACT AT THE MIDLINE TO REGULATE COMMISSURAL AXON NAVIGATION** 64
V. Castellani *(Villeurbanne, France)*

10:10 **TRANSCRIPTIONAL CONTROL OF AXON MIDLINE AVOIDANCE IN THE CNS** 65
E. Herrera *(Alicante, Spain)*

10:30 **WHAT AXONS TELL EACH OTHER: AXON-AXON SIGNALING IN PERIPHERAL NERVE AND CIRCUIT ASSEMBLY** 66
T. Marquardt *(Göttingen, Germany)*

10:50 **EPHRINB3/EPHA4 SIGNALING PROMOTES THE FORMATION OF MAJOR ASCENDING AND DESCENDING SPINAL PROJECTIONS** 67
R. Klein *(Munich-Martinsried, Germany)*

9:45 - 11:15 **Hall I**

SYMPOSIUM:
S02: Glutamate-dopamine cross-talk: from signaling pathways to disease

Chair: C. Bellone *(Switzerland)* 68

9:50 **POSTNATAL SYNAPTIC MATURATION OF GLUTAMATERGIC TRANSMISSION IN THE MESOLIMBIC SYSTEM** 69
C. Bellone *(Geneve, Switzerland)*

10:10 **THE SMALL GTP-BINDING PROTEIN RHES MODULATES STRIATAL DOPAMINERGIC TRANSMISSION** 70
A. Usiello *(Naples, Italy)*

10:30 **PHYSIOPATHOLOGICAL CROSS-TALK BETWEEN DA AND NMDA RECEPTORS IN STRIATAL MEDIUM SPINY NEURONS** 71
F. Gardoni *(Milan, Italy)*

10:50 **DOPAMINE-GLUTAMATE RECEPTOR INTERPLAY IN THE STRIATUM MODULATES MOLECULAR, STRUCTURAL AND BEHAVIORAL RESPONSES TO COCAINE** 72
P. Vanhoutte, E. Cahill, V. Pascoli, P. Trifilieff, C. Lüscher, J. Caboche *(Paris, France)*

9:45 - 11:15 **Hall J**

SYMPOSIUM:
S03: Synaptic structure and function illuminated by fluorescence and electron microscopy

Chair: S. Rizzoli *(Germany)* 73

9:50 **ACTIVE ZONES AND VESICLE POOLS: A VIEW FROM THE MOUSE NEUROMUSCULAR JUNCTION** 74
L. Tabares *(Sevilla, Spain)*

10:10 **SYNAPTIC VESICLE POOLS** 75
K. Staras *(Brighton, United Kingdom)*

10:30 **THE ORGANIZATION OF THE SYNAPTIC RELEASE SITE** 76
S. Sigrist *(Berlin, Germany)*

10:50 **THE MOLECULAR ANATOMY OF THE SYNAPSE** 77
S. Rizzoli *(Goettingen, Germany)*

9:45 - 11:15 **Hall D**

SYMPOSIUM:
S04: Gamma oscillations and cognitive processing: linking coordination of individual neurons to behavior

Chair: L.L. Colgin *(USA)* 78

9:50 **MODULATION OF GAMMA BAND SYNCHRONIZATION BETWEEN THE HIPPOCAMPUS AND ENTORHINAL CORTEX DURING A SPATIAL MEMORY TASK** 79
J. Csicsvari, J. O'Neill *(Klosterneuburg, Austria)*

10:10 **GAMMA-THETA OSCILLATIONS AND MODALITIES OF SPATIAL PROCESSING IN THE HIPPOCAMPUS** 80
F. Battaglia *(Nijmegen, The Netherlands)*

10:30 **DISTINCT ROLES OF SLOW AND FAST GAMMA OSCILLATIONS IN THE ENTORHINAL-HIPPOCAMPAL NETWORK** 81
L. Colgin *(Austin, USA)*

10:50 **UNDERSTANDING HOW PARVALBUMIN INTERNEURON DYSFUNCTION CONTRIBUTES TO ABNORMAL GAMMA OSCILLATIONS AND COGNITION IN NEUROPSYCHIATRIC DISEASE** 82
V. Sohal, K. Cho, J. Rubenstein *(San Francisco, USA)*

9:45 - 11:15 **Hall E**

SYMPOSIUM:
S05: Hyperexcitability in fragile X syndrome: too much of a good thing?

Chairs: C. Portera-Cailliau *(USA)* 83
A. Contractor *(USA)* 84

9:50 **HOMEOSTATIC RESPONSES FAIL TO CORRECT DEFECTIVE AMYGDALA INHIBITORY CIRCUIT MATURATION IN FRAGILE X SYNDROME** 85
M. Hunstman *(Aurora, USA)*

10:10 **BRAIN STATE-DEPENDENT NETWORK HYPEREXCITABILITY IN FRAGILE X MICE** 86
J. Gonçalves, J.E. Anstey, P. Golshani, C. Portera-Cailliau *(La Jolla, USA)*

10:30 **ABNORMAL CORTICAL CIRCUIT DEVELOPMENT IN A MOUSE MODEL OF FRAGILE X SYNDROME** 87
P. Kind *(Edinburgh, United Kingdom)*

10:50 **TOWARDS TARGETED THERAPY OF THE FRAGILE X SYNDROME** 88
F. Kooy *(Antwerp, Belgium)*

9:45 - 11:15 **Hall H**

SYMPOSIUM:
S06: Emergent principles for rhythm generation in motor systems

Chair: O. Kiehn *(Sweden)* 89

9:50 **RESPIRATORY RHYTHM GENERATION: VIEWS FROM THE EMBRYO** 90
G. Fortin, J.A. Hayes, P.L. Ruffault, J. Wu, J.F. Brunet, S. Arber, V. Emiliani *(Gif Sur Yvette, France)*

10:10 **A NOVEL HYPOTHESIS FOR INSPIRATORY RHYTHM GENERATION** 91
J. Feldman, K. Kam, V. Janczewski *(Los Angeles, USA)*

10:30 **LINKING LOCOMOTOR RHYTHM-GENERATION TO MOLECULAR DEFINED CLASSES OF INTERNEURONS IN THE MAMMALIAN NERVOUS SYSTEM** 92
K. Dougherty *(Stockholm, Sweden)*

10:50 **SPEED CONTROL IN THE ZEBRAFISH SPINAL CORD** 93
D. McLean *(Evanston, USA)*

9:45 - 11:15 **Hall F**

SYMPOSIUM:
S07: Locus coeruleus orchestrates attention networks, motivational salience and cognitive flexibility.

Chairs: S. Bouret *(France)* 94
S.J. Sara *(France)* 95

9:50 **PROBING STRESS-RELATED NETWORK ALLOCATION IN HUMANS: NORADRENALINE RESETS** 96
G. Fernandez *(Nijmegen, The Netherlands)*

10:10 **PREFRONTAL CORTICAL NORADRENALINE PROCESSES MOTIVATIONAL SALIENCE ATTRIBUTION AND CONTROLS DOPAMINE IN THE ACCUMBENS** 97
R. Ventura, S. Puglisi-Allegra *(Rome, Italy)*

10:30 **THE ROLE OF LOCUS COERULEUS FOR SENSORY PROCESSING WITHIN THE MESOCORTICAL DOPAMINERGIC PATHWAY** 98
O. Eschenko *(Tuebingen, Germany)*

10:50 **MOTIVATION IN MONKEYS: DYNAMIC INTERPLAY BETWEEN CATECHOLAMINERGIC NEURONS AND THE PREFRONTAL CORTEX** 99
S. Bouret *(Paris, France)*

9:45 - 11:15 **Hall C**

SYMPOSIUM:
S08: The hedonistic brain: learning, predicting and decision making

Chairs: M. Silvetti *(Belgium)* 100
E. Vassena *(Belgium)* 101

9:50 **MESOLIMBIC DOPAMINE, VALUE AND THE DRIVE TO SEEK REWARD** 102
M. Walton *(Oxford, United Kingdom)*

10:10 **WHAT MAKES YOU STRONGER: LOOKING FOR MOTIVATION IN THE HUMAN BRAIN** 103
M. Pessiglione *(Paris, France)*

10:30 **COGNITIVE CONTROL AS A PROCESS OF PREDICTION AND EVALUATION** 104
J. Brown *(Bloomington, USA)*

10:50 **THE DARK SIDE OF THE COIN: SEROTONIN AT THE INTERFACE OF AVERSION AND INHIBITION** 105
H. Den Ouden *(Nijmegen, The Netherlands)*

12:30 - 14:00 **Hall A**

SPECIAL LECTURE:
SL01: Grete Lundbeck European Brain Research Foundation/The Brain Prize 2013

Introducer: C. Blakemore *(United Kingdom)* 106

OPTOGENETIC TOOLS FOR CONTROLLING NEURAL ACTIVITY WITH LIGHT 107
E. Boyden *(Boston, USA)*

CHANNELRHODOPSIN ET AL., PHOTORECEPTORS AND OPTOGENETIC APPLICATIONS 108
G. Nagel, R. Gueta, R. Kittel *(Wurzburg, Germany)*

LIGHTING UP THE BRAIN 109
G. Miesenböck *(Oxford, United Kingdom)*

13:00 - 13:45 **Hall B**

SPECIAL LECTURE:
SL02: EBBS/Behavioural Brain Research Prize

Introducer: M. Ammassari-Teule *(Italy)* 110

STRESS AND THE SOCIAL BRAIN - FROM AGGRESSION AND SOCIAL HIERARCHIES IN RODENTS TO SOCIAL ECONOMIC DECISION MAKING 111
C. Sandi *(Lausanne, Switzerland)*

15:45 - 17:15 **Hall G**

SYMPOSIUM:
S09: Transcriptional control of tangential neuronal migration in the developing brain.

Chair: F.M. Rijli *(Switzerland)* 112

15:50 **EPIGENETIC AND TRANSCRIPTIONAL REGULATION OF TANGENTIAL NEURONAL MIGRATION IN THE DEVELOPING HINDBRAIN** 113
F. Rijli *(Basel, Switzerland)*

16:10 **TRANSCRIPTIONAL CONTROL OF CORTICAL INTERNEURON SPECIFICATION** 114
J. Rubenstein *(San Francisco, USA)*

16:30 **THE TRANSCRIPTION FACTOR SIP1 OPERATES AT MULTIPLE LEVELS TO CONTROL TANGENTIAL MIGRATION OF CORTICAL INTERNEURONS** 115
E. Seuntjens, V. Van den Berghe, E. Stappers, A. Conidi, M. Bresseleers, S. Arredouani, D. Huylebroeck *(Leuven, Belgium)*

16:50 **ROLE OF THE TRANSCRIPTION FACTOR DBX1 IN THE SPECIFICATION OF TRANSIENT MIGRATORY NEURONS WITH ORGANIZING ACTIVITY IN THE DEVELOPING CEREBRAL CORTEX** 116
A. Pierani *(Paris, France)*

15:45 - 17:15 **Hall D**

SYMPOSIUM:
S10: Decoding serotoninergic systems and their impact on cortical circuit formation

Chair: A. Dayer *(Switzerland)* 117

15:50 **PLACENTAL SEROTONIN AND PRENATAL PROGRAMMING OF MENTAL DISORDERS** 118
A. Bonnin, J. Velasquez, N. Goeden *(Los Angeles, USA)*

16:10 **IMPACT OF EARLY-LIFE SEROTONIN ON CORTICAL CIRCUIT FORMATION** 119
A. Dayer *(Geneva, Switzerland)*

16:30 **FUNCTION-SPECIFIC SEROTONERGIC NEURONS, RESPIRATORY HOMEOSTASIS, AND BEHAVIOR** 120
S. Dymecki, V. Niederkofler, R.D. Brust, B.W. Okaty, T.E. Asher, R.S. Ray, A.E. Corcoran, E.E. Nattie *(Boston, USA)*

16:50 **IDENTIFYING SUBSETS OF SEROTONIN RAPHE NEURONS BASED ON UNSUPERVISED CLUSTERING** 121
P. Gaspar, S. Fernandez, A. Muzerelle, S. Scotto-Lomassesse *(Paris, France)*

15:45 - 17:15 **Hall E**

SYMPOSIUM:
S11: Development and function of left-right circuit asymmetries in the brain

Chairs: R. Shigemoto *(Austria)* 122
O. Paulsen *(United Kingdom)* 123

15:50 **INPUT-SIDE-DEPENDENT LEFT-RIGHT ASYMMETRY OF HIPPOCAMPAL SYNAPSES** 124
R. Shigemoto *(Klosterneuburg, Austria)*

16:10 **LEFT-RIGHT ASYMMETRY IN THE HIPPOCAMPUS: IMPLICATIONS FOR SYNAPTIC PLASTICITY AND MEMORY FUNCTIONS** 125
O. Shipton *(Cambridge, United Kingdom)*

16:30 **THE INITIAL LEFT-RIGHT DETERMINATION BY NODAL FLOW** 126
S. Nonaka *(Okazaki, Japan)*

16:50 **BREAKING SYMMETRY IN THE BRAIN: FROM GENES TO FUNCTIONAL CIRCUITS** 127
S. Wilson *(London, United Kingdom)*

15:45 - 17:15 **Hall I**

SYMPOSIUM:
S12: Mechanisms of microglia phagocytosis in health and disease

Chair: A. Sierra *(Spain)* 128

15:50 **ACUTE IMPAIRMENT OF MICROGLIAL PHAGOCYTOSIS IN EPILEPSY** 129
A. Sierra, O. Abiega, S. Beccari, A.L. Brewster, A.E. Anderson, M. Maletic-Savatic, A. Marinas, M. Vivanco, C. Matute, J.M. Encinas *(Zamudio, Spain)*

16:10 **MICROGLIAL PHAGOCYTOSIS OF STRESSED NEURONS MEDIATES INFLAMMATORY NEURODEGENERATION** 130
G. Brown *(Cambridge, United Kingdom)*

16:30 **SYNAPTIC PRUNING BY MICROGLIA: A CRITICAL PROCESS FOR PROPER FUNCTIONAL BRAIN CONNECTIVITY AND SOCIAL BEHAVIOR** 131
R. Paolicelli *(Zurich, Switzerland)*

16:50 **ROLE OF MICROGLIA ON THE FUNCTIONAL MATURATION OF THE THALAMO-CORTICAL SYSTEM** 132
E. Audinat, I. Arnoux, M. Hoshiko *(Paris, France)*

15:45 - 17:15 **Hall J**

SYMPOSIUM:
S13: Local protein synthesis: role in memory formation and dysfunction in autism and Alzheimer's disease

Chair: K.P. Giese *(United Kingdom)* 133

15:50 **TRANSLATIONAL REGULATORY MECHANISMS IN SYNAPTIC PLASTICITY AND MEMORY STORAGE** 134
M. Costa-Mattioli *(Houston, USA)*

16:10 **SHAPING SPINES FROM PHYSIOLOGY TO PATHOLOGY: INSIGHTS INTO NEURONAL RNA METABOLISM** 135
C. Bagni, T. Pastor, F. Sasso, F. Zalfa, I. Simpson, F. Tassone, L. Pacini, T. Achsel *(Leuven, Belgium)*

16:30 **DYSREGULATED TRANSLATIONAL CONTROL IN BRAIN DISORDERS** 136
E. Klann, A. Bhattacharya, H. Bowling, T. Huynh, T. Ma, E. Santini *(New York, USA)*

16:50 **LOCAL PROTEIN SYNTHESIS AND ALZHEIMER'S DISEASE** 137
K. Giese, S.S. Tiwari, T. Hortobagyi, C. Troakes, K. Mizuno *(London, United Kingdom)*

15:45 - 17:15 **Hall H**

SYMPOSIUM:
S14: Spotlight on olfaction: from odorant receptors to behaviour

Chair: A. Menini *(Italy)* 138

15:50 **UNRAVELING SMELL** 139
L.B. Buck *(Seattle, USA)*

16:10 **DISSECTING THE MICROCIRCUIT THAT DRIVES OSCILLATIONS AND LONG-RANGE SYNCHRONIZATION IN THE AWAKE MOUSE OLFACTORY BULB** 140
P. Lledo, G. Lepousez *(Paris, France)*

16:30 **NEURONAL MECHANISM OF OLFACTORY SENSING: FROM ODOR TO BEHAVIOR** 141
T. Leinders-Zufall *(Homburg, Germany)*

16:50 **NEURAL CORRELATES OF ODOR DISCRIMINATION BEHAVIOR IN THE MOUSE OLFACTORY BULB** 142
A. Carleton *(Geneva, Switzerland)*

15:45 - 17:15 **Hall F**

SYMPOSIUM:
S15: Linking neural circuits to behavior in zebrafish

Chair: S. Ryu *(Germany)* 143

15:50 **HABENULA AS A SWTICH BOARD FOR EMOTION** 144
H. Okamoto *(Wako Saitama, Japan)*

16:10 **WHOLE BRAIN FUNCTIONAL IMAGING OF NEURAL CIRCUITS UNDERLYING VISUALLY GUIDED BEHAVIOURS** 145
M. Orger *(Lisboa, Portugal)*

16:30 **RETINAL GANGLION CELL DIVERSITY CREATES DISTINCT VISUAL PROCESSING CHANNELS THAT ARE TAILORED TO BEHAVIORAL OUTPUT** 146
H. Baier, J.C. Donovan, F. Kubo, E.K. Laurell, E. Robles, J.L. Semmelhack *(Martinsried, Germany)*

16:50 **OPTOGENETIC TUNING OF BEHAVIOURAL STRESS REACTIONS IN LARVAL ZEBRAFISH** 147
S. Ryu, R. De Marco, A. Groneberg, T. Thielman, L.A. Castillo Ramirez *(Heidelberg, Germany)*

15:45 - 17:15 **Hall C**

SYMPOSIUM:
S16: Lateral entorhinal cortex: interface for hippocampal episodic memory.

Chair: K.M. Igarashi *(Norway)* 148

15:50 **CONTRIBUTION OF MEC AND LEC TO HIPPOCAMPAL ACTIVITY** 149
M. Mehta *(Los Angeles, USA)*

16:10 **NONSPATIAL AND SPATIAL CORRELATES OF THE LATERAL ENTORHINAL CORTEX** 150
J. Knierim *(Baltimore, USA)*

16:30 **GAMMA SYNCHRONIZATION BETWEEN HIPPOCAMPAL AREA CA1 AND LATERAL ENTORHINAL CORTEX INDUCED BY ODOUR-PLACE ASSOCIATION TASK** 151
K. Igarashi, L. Lu, L.L. Colgin, M.B. Moser, E.I. Moser *(Trondheim, Norway)*

16:50 **LEARNING-RELATED CHANGES IN OSCILLATORY COUPLING BETWEEN THE LATERAL ENTORHINAL CORTEX, HIPPOCAMPUS, AND MEDIAL PREFRONTAL CORTEX** 152
K. Takehara-Nishiuchi *(Toronto, Canada)*

17:30 - 18:30 **Hall A**

PLENARY LECTURE:
PL03: Adjusting brain circuits for learning and memory

Introducer: R. Morris *(United Kingdom)* 153

ADJUSTING BRAIN CIRCUITS FOR LEARNING AND MEMORY 154
P. Caroni *(Basel, Switzerland)*

18:45 - 20:45 **Hall H**

SPECIAL INTEREST EVENT:
SiE02: Women in Neuroscience (WiN)

18:45 **WELCOME AND INTRODUCTION** 155
A. King *(United Kingdom)*

18:50 **WOMEN IN EUROPEN NEUROSCIENCE: WHAT CAN FENS OR NATIONAL SOCIETIES DO?** 156
M. Joëls *(The Netherlands)*

19:05 **THE ROLE OF SFN IN SUPPORTING GENDER EQUALITY** 157
C.A. Mason *(USA)*

19:20 **THE ROLE OF MENTORING - A PERSPECTIVE FROM IBRO-WWN** 158
M. Dávila-García *(USA)*

19:35 **SURVIVAL KIT FOR NEW PRINCIPLE INVESTIGATORS** 159
I. Obara *(United Kingdom)*

19:50 **SURVIVAL KIT FOR SUCCESS IN INDUSTRY** 160
S. Nickolls *(United Kingdom)*

20:05 **SURVIVAL KIT FOR SUCCESS IN ACADEMIA AND RESEARCH** 161
E. Cattaneo *(Italy)*

20:20 **OPEN FLOOR FOR COMMENTS & QUESTIONS, FOLLOWED BY NETWORKING OPPORTUNITIES** 162

18:45 - 21:00 **Hall E**

SPECIAL INTEREST EVENT:
SiE03: 'Implementation of the EU Directive 63-2010 and international actions for promoting the use of animals in scientific research' FENS CARE event

Chairs: R. Lemon *(United Kingdom)* 163
S. Treue *(Germany)* 164

18:45 **THE EU DIRECTIVE AND NEUROSCIENCE: CHALLENGES OF IMPLEMENTING THE 3RS AND HARM-BENEFIT ANALYSIS** 165
J. MacArthur Clark *(United Kingdom)*

19:00 **AN OVERVIEW ON THE IMPLEMENTATION IN EUROPE OF DIRECTIVE 63-2010** 166
F. Lachapelle *(France)*

19:15 **THE EU DIRECTIVE 63-2010 AND THE ITALIAN CASE** 167
J. Meldolesi *(Italy)*

19:30 **THE EUROPEAN ANIMAL RESEARCH ASSOCIATION (EARA): AIMS AND OBJECTIVES** 168
K. Leech *(United Kingdom)*

19:45 **THE FUTURE OF NON-HUMAN PRIMATES RESEARCH IN EU** 169
P. Roelfsema *(The Netherlands)*

20:00 **GENERAL DISCUSSION** 170

18:45 - 20:45 **Hall C**

SPECIAL INTEREST EVENT:
SiE04: William Safire Seminar on Neuroethics

Chair: B. Sahakian *(United Kingdom)* 171

INTRACRANIAL EEG AND ELECTRICAL BRAIN STIMULATION 172
J. Parvisi *(USA)*

MR IMAGING FOR UNDERSTANDING DEVELOPMENTAL BRAIN DISORDERS- A TRANSLATIONAL APPROACH 173
P. Hüppi *(Switzerland)*

SINGLE NEURON RECORDINGS IN NEUROSURGICAL PATIENTS 174
I. Fried *(Israel)*

COGNITIVE ENHANCEMENTS AND HUMAN BRAIN STIMULATION: WHEN DOES SCIENTIFIC LAZINESS BECOME FRAUD? 175
V. Walsh *(United Kingdom)*

18:45 - 20:00 **Hall G**

NETWORKING EVENT:
Neurogastronomy, the 'brain cuisine' presented by Gordon M. Shepherd

18:45 - 22:30 **Hall F**

NETWORKING EVENT:
Big Questions in Neuroscience

18:45 - 20:30 **Hall D2**

NETWORKING EVENT:
YITP meeting

19:00 - 21:00 **Hall D1**

NETWORKING EVENT:
International Synapse Championships

18:45 - 21:00

NETWORKING EVENT:
International Society for Serotonin Research Social Gathering

Venue: Milano, Via Procaccini 37

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11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A01: CNS PATTERNING

A001 **SUN 6/7/2014, 11:15 - FENS-0364**

PAX6 AND PAX7 DISTRIBUTION IN THE ADULT BRAIN OF XENOPUS LAEVIS 176

S. Bandin, R. Morona, D. Lozano, D. Monjas. L. Morales, S. Helgueta, N. Moreno, J.M. López, A. González *(Madrid, Spain)*

A002 **SUN 6/7/2014, 12:15 - FENS-0618**

MIR135A2 RESTRICTS CORTICAL HEM AND HIPPOCAMPUS SIZE BY MODULATING EMBRYONIC WNT/ BMP SIGNALING 177

G. Caronia-Brown, A. Anderegg, R. Awatramani *(Chicago, USA)*

A003 **SUN 6/7/2014, 11:15 - FENS-3704**

SPATIO-TEMPORAL ANALYSIS OF THE EXPRESSION OF IROQUOIS A GENE CLUSTER IN THE CHICK BRAIN AT ADVANCED DEVELOPMENTAL STAGES 178

R. Corral San Miguel, B. Lorente-Canovas, F. Marin, P. Aroca *(Murcia, Spain)*

A004 **SUN 6/7/2014, 12:15 - FENS-1627**

EXPRESSION PATTERN OF TRANSMEMBRANE PROTEINS WITH EXTRACELLULAR LEUCINE RICH REPEATS (ELRRS) IN THE DEVELOPING MOUSE BRAIN 179

J. Egea Navarro, D. Chauhan, P. Marfull, S. Homma, C. Espinet *(Lleida, Spain)*

A005 **SUN 6/7/2014, 11:15 - FENS-3077**

GENOARCHITECTONIC SINGULARITIES IN A CHICKEN PRETECTAL POPULATION DERIVED FROM THE VENTRAL JUXTACOMMISSURAL PRETECTUM 180

J. Ferran, A. Ayad, J.E. Sandoval, L. Puelles *(Murcia, Spain)*

A006 **SUN 6/7/2014, 12:15 - FENS-0284**

INVESTIGATING THE ROLE OF CELL-INTRINSIC ACTIVITY IN SOMATOSENSORY CIRCUIT FORMATION 181

B. Golding, I. Vitali, D. Jabaudon *(Geneva, Switzerland)*

A007 **SUN 6/7/2014, 11:15 - FENS-2330**

GENES THAT SHAPE THE BRAIN: DEEP SEQUENCING AND IMMUNOHISTOCHEMISTRY ANALYSIS OF THE HUMAN CEREBRAL CORTEX AND 26 OTHER TISSUE TYPES 182

J. Mulder, E. Sjöstedt, L. Fagerberg, A. Häggmark, N. Mitsios, B.M. Hallström, P. Nilsson, F. Pontén, T. Hökfelt, M. Uhlén *(Stockholm, Sweden)*

A008 **SUN 6/7/2014, 12:15 - FENS-3398**

SECRETORY VAMPS REGULATE THE KINETICS OF MIGRATION OF SIGNALLING CAJAL-RETZIUS CELLS AND THE FORMATION OF HIGHER ORDER CORTICAL AREAS 183

A. Pierani, M. Barber, Y. Arai, Y. Morishita, V. Proux, L. Vigier, U. Borello, F.W. Pfrieger, T. Galli *(Paris, France)*

A009 **SUN 6/7/2014, 11:15 - FENS-2617**

THE CELLULAR MECHANISMS UNDERLYING THE GENERATION OF OLIGODENDROCYTE LINEAR ARRAYS IN WHITE MATTER 184

P. Roth, J.A. Stratton, Y.L. Xing, B.H.A. Chuang, T.J. Kilpatrick, T.D. Merson *(West Melbourne, Australia)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A02: STEM CELLS - BASIC BIOLOGY AND POSTNATAL NEUROGENESIS

A010 **SUN 6/7/2014, 12:15 - FENS-0214**
COMPARING NEUROGENESIS IN THE SEPTAL AND TEMPORAL PART OF THE ADULT RAT DENTATE GYRUS 185
C. Bekiari, A. Giannakopoulou, N. Siskos, I. Grivas, A.S. Tsingotjidou, H. Michaloudi, G.C. Papadopoulos *(Thessaloniki, Greece)*

A011 **SUN 6/7/2014, 11:15 - FENS-2369**
COUP-TFI CONTROLS ACTIVITY-DEPENDENT TYROSINE HYDROXYLASE EXPRESSION IN ADULT-BORN OLFACTORY BULB DOPAMINERGIC NEURONS 186
S. Bonzano, S. Bovetti, D. Garzotto, S.G. Giannelli, A. Iannielli, M. Armentano, M. Studer, S. De Marchis *(Turin, Italy)*

A012 **SUN 6/7/2014, 12:15 - FENS-1436**
QUIESCENT NEURONAL PROGENITORS ARE ACTIVATED IN THE JUVENILE GUINEA PIG LATERAL STRIATUM AND GIVE RISE TO TRANSIENT NEURONS 187
F. Luzzati, L. Oboti, G. Nato, E. Vigna, C. Rolando, M. Armentano, L. Bonfanti, A. Fasolo, P. Peretto *(Turin, Italy)*

A013 **SUN 6/7/2014, 11:15 - FENS-2707**
NATURE OF THE NEURONAL PROGENITORS INVOLVED IN THE NEUROGENIC RESPONSE TO QUINOLINIC ACID STRIATAL LESIONS 188
G. Nato, A. Caramello, S. Trova, P. Peretto, F. Luzzati *(Sarre, Italy)*

A014 **SUN 6/7/2014, 12:15 - FENS-2752**
EFFICIENT NEURAL DIFFERENTIATION OF PLURIPOTENT CELLS IN THREE DIMENSIONAL CULTURES 189
S. Casarosa, E.E. Coates, T. Incitti, K.M. Ferlin, A. Messina, E. Menna, Y. Bozzi, J.P. Fisher, A. Bozza *(Trento, Italy)*

A015 **SUN 6/7/2014, 11:15 - FENS-3052**
CHARACTERIZATION OF MACACA FASCICULARIS SPINAL CORD CENTRAL CANAL ZONE 190
A. Cebrian-Silla, C. Alfaro-Cervello, M. Duran-Moreno, P. Garcia-Tarraga, M.R. Luquin, J.M. Garcia-Verdugo *(Paterna, Spain)*

A016 **SUN 6/7/2014, 12:15 - FENS-1903**
PHOSPHATASE AND ACTIN REGULATOR 4 IS ASSOCIATED WITH INTERMEDIATE FILAMENTS IN ADULT NEURAL STEM CELLS AND THEIR PROGENY ASTROCYTES 191
H. Cho, J.Y. Kim, H. Kim, W. Sun *(Seoul, Korea)*

A017 **SUN 6/7/2014, 11:15 - FENS-1698**
POSTNATAL DEVELOPMENT OF THE SHEEP ROSTRAL MIGRATORY STREAM 192
P. Crociara, A. Grindatto, E. Berrone, M. Gallo, M. Piumatti, L. Bonfanti, C. Casalone, C. Corona *(Torino, Italy)*

A018 **SUN 6/7/2014, 12:15 - FENS-1802**
THE ROLE OF DIAZEPAM BINDING INHIBITOR (DBI) IN ADULT HIPPOCAMPAL NEUROGENESIS 193
I. Dumitru, J. Alfonso, H. Monyer *(Heidelberg, Germany)*

A019 **SUN 6/7/2014, 11:15 - FENS-3163**
PKC ACTIVATION INDUCED BY 12-DEOXYPHORBOLS PROMOTES NEURAL STEM CELLS PROLIFERATION 194
N. Geribaldi, E. Flores-Giubi, F. García-Bernal, M. Murillo-Carretero, J. Domínguez-Riscart, A.J. Macías-Sánchez, R. Hernández-Galán, C. Castro-González *(Cadiz, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A020 **SUN 6/7/2014, 12:15 - FENS-1180**

STRONG ACTIVATION OF GLIAL CELLS CAUSES PROGRESSIVE EXTINCTION OF NEUROGENESIS IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES 195

J. Gerlach, C. Donkels, G. Münzner, C.A. Haas *(Freiburg, Germany)*

A021 **SUN 6/7/2014, 11:15 - FENS-1550**

NEURODIFFERENTIATION POTENTIAL OF EMBRYONIC NEURAL STEM CELLS DURING LONG-TERM CULTIVATION 196

Z. Houdek, P. Pitule, J. Tuma, J. Cendelin, P. Ostasov, M. Kralickova, F. Vozeh *(Pilsen, Czech Republic)*

A022 **SUN 6/7/2014, 12:15 - FENS-3550**

NANOFIBERS FOR HUMAN PLURIPOTENT STEM CELL -DERIVED NEURAL CELLS 197

A. Hyysalo, M. Ristola, T. Joki, S. Narkilahti *(Tampere, Finland)*

A023 **SUN 6/7/2014, 11:15 - FENS-0400**

A ROLE OF POLY(ADP-RIBOSE) POLYMERASE-1 IN THE REGULATION OF NEUROGENESIS 198

S. Kang, S. Hong, K. Shin *(Seoul, Korea)*

A03: STEM CELLS - CLINICAL APPLICATIONS

A024 **SUN 6/7/2014, 12:15 - FENS-3268**

EFFECTS OF ADHESION MOLECULES ON STEM CELL DIFFERENTIATION USING DIFFERENT BIOMATERIAL SURFACES WHICH IS USEFUL FOR HEAD IMPLANTATIONS 199

R. Bostancioglu, M. Gurbuz, A. Dogan, A. Koparal *(Eskisehir, Turkey)*

A025 **SUN 6/7/2014, 11:15 - FENS-2363**

AUTOLOGOUS TRANSPLANTATION OF ADULT NASAL OLFACTORY STEM CELLS IN A RAT MODEL OF AMNESIA: FIRST RESULTS 200

S. Girard, A. Veron, J.C. Stamegna, K. Sadelli, G. Sicard, C. Bienboire-Frosini, M. Mengoli, A. Cozzi, P. Pageat, M. Khrestchatisky, F. Feron, F.S. Roman *(Marseille, France)*

A026 **SUN 6/7/2014, 12:15 - FENS-2211**

TRANSPLANTATION OF OLFACTORY STEM CELLS IN AN AGED DOG DISPLAYING COGNITIVE DYSFUNCTION: PRELIMINARY CLINICAL OBSERVATION 201

A. Veron, C. Bienboire-Frosini, M. Mengoli, D. Royer, A. Cozzi, S.D. Girard, K. Sadelli, M. Khrestchatisky, F.S. Roman, P. Pageat *(Marseille, France)*

A027 **SUN 6/7/2014, 11:15 - FENS-2945**

MODULATION OF MITOCHONDRIAL EVENTS BY A BILE ACID DICTATES NEURAL STEM CELL FATE 202

S. Solá, J.M. Xavier, A.L. Morgado, C.M.P. Rodrigues *(Lisbon, Portugal)*

A04: DEVELOPMENT OF NEURAL SYSTEMS - NEOCORTEX

A028 **SUN 6/7/2014, 12:15 - FENS-2142**

THE DEVELOPMENT OF PERINEURONAL NETS AROUND PARVALBUMIN GABAERGIC NEURONS IN THE MEDIAL PREFRONTAL CORTEX OF RATS 203

K. Baker, A.R. Gray, R. Richardson *(Sydney, Australia)*

A029 **SUN 6/7/2014, 11:15 - FENS-2887**

IMPORTANCE OF TRKB AND TRKC RECEPTORS DURING DEVELOPMENT OF THE OPOSSUM NEOCORTEX 204

K. Bartkowska, K. Turlejski, R.L. Djavadian *(Warsaw, Poland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A030 **SUN 6/7/2014, 12:15 - FENS-0736**

OSCILLATORY ENTRAINMENT OF THE VENTRAL MIDLINE THALAMUS AND ENTORHINAL CORTEX CONTROLS FUNCTIONAL COMMUNICATION WITHIN PREFRONTAL-HIPPOCAMPAL NETWORKS OF NEONATAL RATS 205

V. De Feo, H. Hartung, M. Brockmann, B. Poschel, I.L. Hanganu-Opatz *(Hamburg, Germany)*

A031 **SUN 6/7/2014, 11:15 - FENS-2891**

THE ORBITOFRONTAL CORTEX: HIGHER DENSITY OF CALRETININ INTERNEURONS IN PRIMATES THAN IN RODENTS 206

D. Dzaja, Z. Petanjek, M. Esclapez *(Zagreb, Croatia)*

A032 **SUN 6/7/2014, 12:15 - FENS-2151**

TBC1D24 REGULATES CORTICAL NEURON MIGRATION AND MATURATION BY MODULATION OF THE ARF6-DEPENDENT PATHWAY 207

A. Fassio, D. Aprile, A. Falace, M. Fadda, P. Baldelli, A. Represa, F. Benfenati, C. Cardoso *(Genoa, Italy)*

A033 **SUN 6/7/2014, 11:15 - FENS-1620**

FLRT PROTEINS ARE CHEMOREPELLENT CUES FOR MIGRATING INTERNEURONS 208

C. Fleitas, M.J. Menal, S. Cambray, C. Espinet, V. Van den Berghe, E. Seuntjens, J. Egea *(Lleida, Spain)*

A034 **SUN 6/7/2014, 12:15 - FENS-1358**

CORRELATION BETWEEN HISTOPATHOLOGY AND FETAL MAGNETIC RESONANCE IMAGING IN TWO CASES OF SUSPECTED LISSENCEPHALY 209

C. Frassoni, F. Inverardi, L. Spaccini, C. Parazzini, M. Rustico, L. Avagliano, G. Bulfamante, A. Righini *(Milan, Italy)*

A035 **SUN 6/7/2014, 11:15 - FENS-2130**

MATERNALLY-DERIVED AMBIENT TAURINE-MEDIATED TONIC GABAA RECEPTOR ACTIVATION PLAYS A PIVOTAL ROLE IN RADIAL MIGRATION IN THE EMBRYONIC MOUSE NEOCORTEX 210

A. Fukuda, T. Furukawa, J. Yamada, T. Akita, Y. Matsushima, Y. Yanagawa *(Hamamatsu, Japan)*

A036 **SUN 6/7/2014, 12:15 - FENS-0701**

UNRAVELING THE ROLE OF MICROTUBULE POLYGLUTAMYLATION IN INTERNEURON MIGRATION DURING CORTICAL DEVELOPMENT 211

C. Gomes Da Silva, E. Peyre, B. Franco, J. Godin, C. Janke, L. Nguyen *(Liège, Belgium)*

A037 **SUN 6/7/2014, 11:15 - FENS-2521**

NEUROD1/2/6 REGULATE PYRAMIDAL NEURON DIFFERENTIATION AND SURVIVAL 212

O. Grishina, I. Bormuth, K. Yan, T. Yonemasu, S. Göbbels, K.A. Nave, M.H. Schwab, V. Tarabykin *(Berlin, Germany)*

A038 **SUN 6/7/2014, 12:15 - FENS-1342**

HUMAN FETAL NEOCORTEX AT EIGHTEENTH GESTATIONAL WEEK: COMPARATIVE ANALYSIS OF HISTOLOGICAL AND IMMUNOHISTOCHEMICAL DATA WITH EX VIVO 7T MRI 213

F. Inverardi, R. Coras, R.F. Moroni, P. Pennacchio, M.C. Regondi, I. Zucca, C. Frassoni *(Milan, Italy)*

A039 **SUN 6/7/2014, 11:15 - FENS-3705**

NEURODEVELOPMENTAL ROLE OF SEROTONIN IN SHAPING CORTICAL AREAS 214

S. Kolk, J.S. Witteveen, A. Middelman, S. Van Hulten, G.J.M. Martens, J.R. Homberg *(Nijmegen, The Netherlands)*

A040 **SUN 6/7/2014, 12:15 - FENS-2297**

A NEURODEVELOPMENTAL ROLE FOR AN AXON-ENRICHED MICRORNA WITHIN THE RODENT CORTEX 215

A. Kos, N.F.M. Olde Loohuis, H. Van Bokhoven, G.J.M. Martens, S.M. Kolk, A. Aschrafi *(Nijmegen, The Netherlands)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A041 **SUN 6/7/2014, 11:15 - FENS-1291**

40 YEARS OF THE ZAGREB COLLECTION OF HUMAN BRAINS: WEBSITE AS A BIRTHDAY PRESENT 216

Z. Krsnik, P. Hrabac, M. Rados, N. Jovanov-Milosevic, Z. Petanjek, G. Simic, M. Vuksic, M. Judas, I. Kostovic *(Zagreb, Croatia)*

B01: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - ENDOCANNABINOIDS

B001 **SUN 6/7/2014, 11:15 - FENS-2447**

AGE-AND TIME-DEPENDENT EFFECTS ON STRIATAL NEUROTRANSMISSION AND SYNAPTIC PLASTICITY BY NICOTINE-SENSITIZATION 217

L. Adermark, J. Morud, A. Lotfi, M. Ericson, B. Söderpalm *(Gothenburg, Sweden)*

B002 **SUN 6/7/2014, 12:15 - FENS-3591**

LACK OF DISRUPTIVE EFFECTS OF THE CANNABINOID CB1 AGONIST WIN55,212-2 ON HIGH-LEVEL NEURONAL NETWORKS IN RATS 218

R. Biermans, H. Huysmans, W.H.I.M. Drinkenburg, A. Ahnaou *(Beerse, Belgium)*

B003 **SUN 6/7/2014, 11:15 - FENS-2620**

A NEW LOOK AT THE ANALGESIC MECHANISM OF ACETAMINOPHEN: INVOLVEMENT TRPV1 ACTIVATION AND SUBSEQUENT MGLUR5-ENDOCANNABINOID SIGNALING IN THE PERIAQUEDUCTAL GRAY 219

L. Chiou, H. Lee, L. Tung *(Taipei, Taiwan)*

B004 **SUN 6/7/2014, 12:15 - FENS-1815**

ENDOCANNABINOID SIGNALING INDUCES LATERAL LONGTERM POTENTIATION OF SYNAPTIC TRANSMISSION BY STIMULATING OF ASTROCYTES 220

A. Covelo Fernánde<, M. Gomez-Gonzalo, M. Navarrete, G. Perea, M. Martín, R. Luján, A. Araque *(Madrid, USA)*

B005 **SUN 6/7/2014, 11:15 - FENS-2984**

CB1/OX-1R HETEROMERS ENHANCE 2-AG BIOSYNTHESIS IN THE MOUSE HYPOTHALAMIC ARCUATE NUCLEUS 221

L. Cristino, G. Morello, R. Imperatore, D. Sarnataro, L. Palomba, V. Di Marzo *(Pozzuoli, Italy)*

B006 **SUN 6/7/2014, 12:15 - FENS-1545**

CB1-MEDIATED EFFECTS ARE BLUNTED IN THE STRIATUM OF RATS OVEREXPRESSING ADENOSINE A2A RECEPTORS 222

M. Domenici, V. Chiodi, R.L. Potenza, S. Beggiato, A. Ferrante, M. Armida, L. Ferraro, P. Popoli *(Rome, Italy)*

B007 **SUN 6/7/2014, 11:15 - FENS-0645**

THE STN-SNC HYPERDIRECT PATHWAY MODULATES DOPAMINERGIC NEURON ACTIVITY BY INHIBITING GABAERGIC INPUTS FROM THE SNR VIA ENDOCANNABINOIDS 223

P. Freestone, X.H. Wu, G. De Guzman, J. Lipski *(Auckland, New Zealand)*

B008 **SUN 6/7/2014, 12:15 - FENS-2475**

ACTIVE ENDOCANNABINOIDS ARE SECRETED ON EXTRACELLULAR MEMBRANE VESICLES PRODUCED BY MICROGLIA 224

M. Gabrielli, N. Battista, L. Riganti, I. Prada, F. Antonucci, M. Lombardi, M. Matteoli, M. Maccarrone, C. Verderio *(Milano, Italy)*

B009 **SUN 6/7/2014, 11:15 - FENS-3694**

CANNABINOID RECEPTOR 1-DEPENDENT PKC-EPSILON ACTIVATION INDUCES MICROGLIA RAMIFICATION 225

A. Kalargyrou, D. Mangoura *(Athens, Greece)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B010 **SUN 6/7/2014, 12:15 - FENS-3564**
CRIP1A MODULATES CANNABINOID CB1 RECEPTOR MEDIATED SIGNALLING IN A LIGAND-SPECIFIC MANNER 226
N. Karunaratne, P.J. White, M. Connor, D.T. Malone *(Melbourne, Australia)*

B011 **SUN 6/7/2014, 11:15 - FENS-3534**
PATHWAY-SELECTIVE ALLOSTERIC MODULATION OF CB1 CANNABINOID RECEPTOR SIGNALLING 227
E. Khajehali, D.T. Malone, K. Leach *(Melbourne, Australia)*

B012 **SUN 6/7/2014, 12:15 - FENS-1498**
THE ENDOCANNABINOID SYSTEM IN THE EXTENDED AMYGDALA NETWORK MODULATES MECHANISMS OF SUSTAINED FEAR 228
M. Lange, T. Daldrup, H.J. Szkudlarek, S. Guggenhuber, S. Kügler, F. Remmers, S. Ruehle, B. Lutz, H.C. Pape *(Münster, Germany)*

B013 **SUN 6/7/2014, 11:15 - FENS-3045**
ANTIHYPOXIC EFFECTS OF N-ARACHYDONOYLDOPAMINE IN HIPPOCAMPAL CULTURES BY ACTIVATING BOTH CANNABINOID AND VANILLOID RECEPTORS 229
E. Mitroshina, M. Vedunova, T. Sakharnova, M. Bobrov, L. Khaspeckov, I. Mukhina *(Nizhny Novgorod, Russia)*

B014 **SUN 6/7/2014, 12:15 - FENS-3231**
ETHANOL CONSUMPTION ALTERS EXCITATORY SYNAPTIC TRANSMISSION IN THE ADOLESCENT MOUSE VENTRAL HIPPOCAMPUS ACTING THROUGH CB1 RECEPTORS BUT NOT TRPV1 230
N. Puente, S. Peñasco, N. Royo, L. Reguero, M.J. Canduela, J. Mendizabal-Zubiaga, I. Elezgarai, A. Ramos, F. Rodríguez de Fonseca, P. Grandes *(Leioa, Spain)*

B015 **SUN 6/7/2014, 11:15 - FENS-3029**
GLUTAMATERGIC AND GABAERGIC COMPONENTS OF THE ENDOCANNABINOID SYSTEM AND THEIR INVOLVEMENT IN PROCESSING OF INNATE AND LEARNED FEAR 231
F. Remmers, M. Hamann, H. Romo-Parra, S. Ruehle, G. Marsicano, H.C. Pape, B. Lutz *(Mainz, Germany)*

B016 **SUN 6/7/2014, 12:15 - FENS-2083**
ACUTE AND CHRONIC ADMINISTRATION OF WIN 55,212-2 AFFECTS CB1 DISTRIBUTION IN THE RAT BRAIN 232
M. Tsarouchi, P. Perdikaris, E. Fanarioti, A. Mitsacos, P. Giompres *(Patras, Greece)*

B017 **SUN 6/7/2014, 11:15 - FENS-2994**
GENDER-DEPENDENT EFFECTS OF AN EARLY LIFE EXPERIENCE ON CANNABINOID RECEPTOR CB1 OF ADULT AND ADOLESCENT RAT BRAIN 233
C. Vangopoulou, M.T. Bourboula, C. Koupourtidou, A. Stamatakis, F. Stylianopoulou, P. Giompres, E.D. Kouvelas, A. Mitsacos *(Patras, Greece)*

B018 **SUN 6/7/2014, 12:15 - FENS-1493**
BLOCKADE OF ENDOCANNABINOID HYDROLYSIS INHIBITS COCAINE-INDUCED SEIZURE AND NEUROTOXICITY 234
L. Vilela, P.H. Gobira, D.C. Medeiros, A.C. Oliveira, F.M. Ribeiro, M.F. Moraes, F.A. Moreira *(Sete Lagoas, Brazil)*

B019 **SUN 6/7/2014, 11:15 - FENS-2204**
EFFECT OF ACETALDEHYDE INTOXICATION AND WITHDRAWAL ON NEUROPEPTIDE Y EXPRESSION FOCUS ON CB1 RECEPTOR ROLE 235
C. Vita, R.A.M. Marino, A. Brancato, F. Plescia, C. Cannizzaro *(Agrigento, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B02: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - CYTOKINES

B020 **SUN 6/7/2014, 12:15 - FENS-0208**

LYMPHOTACTIN (XCL1) EXPRESSION AND MODULATION OF TRIGEMINAL SUBNUCLEUS CAUDALIS (VC) EXCITABILITY IN VITRO 236

T. Iannitti, I. Obara, F. Boissonade, A.E. King *(Leeds, United Kingdom)*

B021 **SUN 6/7/2014, 11:15 - FENS-0636**

EFFECTS OF MATERNAL CIGARETTE SMOKE EXPOSURE ON BRAIN INFLAMMATION AND OXIDATIVE STRESS IN MALE OFFSPRING 237

Y. Chan, I. Al-Odat, S. Saad, N. Jones, H. Chen *(Kirrawee, Australia)*

B022 **SUN 6/7/2014, 12:15 - FENS-2417**

EARLY MATERNAL DEPRIVATION REDISTRIBUTES INTERLEUKIN-1 RECEPTOR TYPE I AT HIPPOCAMPAL SYNAPSES IN A SEX DEPENDENT MANNER 238

B. Viviani, M.S. Boraso, M. Valero, F. Gardoni, E.M. Marco, R. Llorente, N. Marchetti, M. Di Luca, M. López-Gallardo, M.P. Viveros *(Milan, Italy)*

B023 **SUN 6/7/2014, 11:15 - FENS-3471**

INTERLEUKIN-1BETA INDUCES LONG-TERM EFFECTS ON THE DEVELOPMENT OF GLUTAMATERGIC NEURON 239

N. Marchetti, M. Boraso, C.L. Galli, M. Marinovich, B. Viviani *(Milan, Italy)*

B03: LIGAND GATED ION CHANNELS - GABA RECEPTORS

B024 **SUN 6/7/2014, 12:15 - FENS-2334**

A NEW MAXIMUM LIKELIHOOD METHOD FOR ESTIMATING BIOPHYSICAL PARAMETERS OF SYNAPTIC LIGAND-GATED CHANNELS FROM MACROSCOPIC CURRENTS 240

A. Borisyuk, A. Stepanyuk, P. Belan *(Kyiv, Ukraine)*

B025 **SUN 6/7/2014, 11:15 - FENS-2560**

AN ALTERNATIVE BINDING SITE FOR ZOLPIDEM IS FORMED FROM VARYING THE STOICHIOMETRY ALPHA1BETA3 GABAA RECEPTORS 241

A. Che Has, N. Absalom, A. Clarkson, M. Chebib *(Sydney, Australia)*

B026 **SUN 6/7/2014, 12:15 - FENS-3257**

GLIOMA CELLS ALTER NEURONAL CHLORIDE EQUILIBRIUM THROUGH GLUTAMATE RELEASE AND INTRACELLULAR ZN2+ ACCUMULATION 242

S. Di angelantonio, E. Murana, C. Bertollini, F. Scala, S. Cocco, C. Lauro, M.L. Molinari, P. Bregestovski, C. Limatola, D. Ragozzino *(Rome, Italy)*

B027 **SUN 6/7/2014, 11:15 - FENS-2342**

STUDY OF THE INTERACTION OF 1,4- AND 1,5-BENZODIAZEPINES WITH GABAA RECEPTORS OF RAT CEREBELLUM GRANULE CELLS IN CULTURE 243

E. Gatta, P. Nikas, A. Cupello, M. DiBraccio, G. Grossi, F. Pellistri, M. Robello *(Genova, Italy)*

B028 **SUN 6/7/2014, 12:15 - FENS-1524**

BRIEF NMDA RECEPTOR ACTIVATION REDUCES GABA-B RECEPTOR MOBILITY AT HIPPOCAMPAL PRESYNAPTIC TERMINALS VIA PHOSPHORYLATION OF R2 S783 244

S. Hannan, K. Gerrow, A. Triller, T.G. Smart *(London, United Kingdom)*

B029 **SUN 6/7/2014, 11:15 - FENS-1977**

COPPER BLOCK OF EXTRASYNAPTIC GABA-A RECEPTORS IN THE MATURE CEREBELLUM AND STRIATUM 245

C. Houston, T.P. McGee, Z. Ye, S.G. Brickley *(London, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B030 **SUN 6/7/2014, 12:15 - FENS-0507**

SEROTONIN EXERTS DIFFERENTIAL REGULATION ON PHASIC AND TONIC INHIBITION IN THE PYRAMIDAL NEURONS OF THE RAT VISUAL CORTEX 246

H. Jang, K.H. Cho, S.H. Youn, W.R. Jung, D.J. Rhie *(Seoul, Korea)*

B031 **SUN 6/7/2014, 11:15 - FENS-2624**

ADENOSINE A2 RECEPTORS STABILIZE NEWLY FORMED GABAERGIC SYNAPSES IN THE HIPPOCAMPUS 247

S. Levi, S. Gilissen, F. Gomez Castro, S. Zappettini, M. Esclapez, C. Bernard *(Paris, France)*

B032 **SUN 6/7/2014, 12:15 - FENS-3746**

OPPOSITE EFFECTS OF ETHANOL ON RECOMBINANT SYNAPTIC VERSUS EXTRASYNAPTIC GABAA RECEPTORS EXPRESSED IN HEK-293 CELLS 248

E. Malinina, J. Strömberg, T. Bäckström *(Umea, Sweden)*

B04: NEUROTRANSMITTER RELEASE

B033 **SUN 6/7/2014, 11:15 - FENS-0093**

SUMOYLATION OF SYNTAXIN1A REGULATES THE SYNAPTIC VESICLE CYCLE 249

T. Craig, D. Anderson, J. Henley *(Bristol, United Kingdom)*

B034 **SUN 6/7/2014, 12:15 - FENS-0300**

COMPLEXINII PREVENTS PREMATURE FUSION, SPEEDS EXOCYTOSIS OF PRIMED VESICLE AND ANTAGONIZES SYNAPTOTAGMINI IN CONTROLLING THE EARLY FUSION PORE 250

M. Dhara, A. Yarzagaray, Y.N. Schwarz, R. Mohrmann, D. Bruns *(Homburg, Germany)*

B035 **SUN 6/7/2014, 11:15 - FENS-3011**

REGULATION OF EXO- AND ENDOCYTOSIS BY THE POSTSYNAPTIC ADHESION MOLECULES NEUROLIGIN1 AND N-CADHERIN 251

K. Gottmann, B. Van Stegen *(Düsseldorf, Germany)*

B036 **SUN 6/7/2014, 12:15 - FENS-1795**

THE V-ATPASE MEMBRANE DOMAIN IS A SENSOR OF GRANULAR PH THAT CONTROLS THE EXOCYTOTIC MACHINERY 252

S. Poëa-Guyon, M.R. Ammar, M. Erard, M. Amar, P. Fossier, J.V. Barnier, N. Vitale, N. Morel *(Orsay, France)*

B037 **SUN 6/7/2014, 11:15 - FENS-3536**

NORMAL DEVELOPMENT OF AXONAL PROJECTIONS OF SYNAPTICALLY SILENT NEURONS REVEALED BY CONDITIONAL KNOCKOUT OF SNAP25 253

A. Hoerder-Suabedissen, A. Jeans, I. Martinez-Garay, M.C. Wilson, Z. Molnar *(Oxford, United Kingdom)*

B038 **SUN 6/7/2014, 12:15 - FENS-0529**

COLOCALIZATION OF PROTEIN KINASE A (PKA) SUBUNITS AND THE A KINASE ANCHORING PROTEINS (AKAPS, 9 AND 150) IN THE NEUROMUSCULAR SYNAPSE 254

E. Hurtado Caballero, T. Obis, M. Priego, L. Nadal, N. Garcia, M.M. Santafé, M. Tomàs, N. Ortiz, M.A. Lanuza, J. Tomàs *(Tarragona, Spain)*

B039 **SUN 6/7/2014, 11:15 - FENS-2829**

DEEP BRAIN STIMULATION OF THE SUBTHALAMIC NUCLEUS MODULATES SEROTONIN LEVELS IN THE CAUDATE-PUTAMEN IN FREELY MOVING RATS 255

K. Joseph, R. Varatharajan, S. Neto, U.G. Hofmann, V. Tronnier, A. Moser *(Luebeck, Germany)*

B040 **SUN 6/7/2014, 12:15 - FENS-2911**

INTRANASAL DELIVERY OF LEPTIN AND THE MESOLIMBIC DOPAMINERGIC SYSTEM 256

S. Neto, R. Varatharajan, K. Joseph, A. Moser *(Lubeck, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B041 **SUN 6/7/2014, 11:15 - FENS-2839**

THE EFFECT OF THE NMDA RECEPTOR ANTAGONIST MEMANTINE ON HFS IN THE ACCUMBENS NUCLEUS OF FREELY MOVING RATS 257

R. Thirugnanasambantham, K. Joseph, S. Carvalho Neto, U.G. Hofmann, V. Tronnier, A. Moser *(Luebeck, Germany)*

B042 **SUN 6/7/2014, 12:15 - FENS-0139**

THE ANTIDEPRESSANT FLUOXETINE MOBILIZES VESICLES TO THE RECYCLING POOL OF RAT HIPPOCAMPAL SYNAPSES DURING HIGH ACTIVITY 258

J. Jung, K. Loy, E. Schilling, M. Röther, J.M. Brauner, T. Huth, U. Schlötzer-Schrehardt, C. Alzheimer, J. Kornhuber, O. Welzel, T.W. Groemer *(Erlangen, Germany)*

B05: SYNAPTIC PLASTICITY - SHORT-TERM PLASTICITY

B043 **SUN 6/7/2014, 11:15 - FENS-2929**

DIFFERENT RECRUITMENT OF PARVALBUMIN- AND CHOLECYSTOKININ-EXPRESSING INHIBITORY INTERNEURONS BY LOCAL PRINCIPAL CELLS IN THE BASOLATERAL AMYGDALA 259

T. Andrási, J.M. Veres, R. Kozma, N. Hájos *(Budapest, Hungary)*

B044 **SUN 6/7/2014, 12:15 - FENS-1894**

HIPPOCAMPAL THETA MEDIATES DISINHIBITION OF MOUSE AMYGDALA PRINCIPAL CELLS VIA GABAB RECEPTORS 260

M. Bazelot, D. Fisher, F. Ferraguti, M. Capogna *(Oxford, United Kingdom)*

B045 **SUN 6/7/2014, 11:15 - FENS-3282**

DEPOLARIZATION-INDUCED POTENTIATION OF EXCITATION AT MOSSY FIBER-CA3 PYRAMIDAL CELL SYNAPSE: ROLE OF CELLULAR ACTIVITY AND MGLURS 261

M. Carta, N. Rebola, F. Lanore, C. Mulle *(Bordeaux, France)*

B046 **SUN 6/7/2014, 12:15 - FENS-1308**

RHO-KINASE ACCELERATES SYNAPTIC VESICLE ENDOCYTOSIS BY MODULATING PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE 262

K. Eguchi, Z. Taoufiq, T. Takahashi *(Okinawa, Japan)*

B047 **SUN 6/7/2014, 11:15 - FENS-2735**

PRESYNAPTIC MODULATION OF SHORT TERM PLASTICITY IN RAT HIPPOCAMPAL SLICES IN THE CONTEXT OF DRUG DISCOVERY 263

D. Fernández, H. Rosenbrock, K.S. Kroker *(Biberach/Riss, Germany)*

B048 **SUN 6/7/2014, 12:15 - FENS-1030**

MICROGLIAL ADENOSINE 2A RECEPTOR MODULATES MF-CA3 SYNAPTIC TRANSMISSION VIA THE RELEASE OF ATP 264

J. George, C. Mulle, R. Cunha, T. Amedee *(Bordeaux, France)*

B049 **SUN 6/7/2014, 11:15 - FENS-0719**

DEMENTIA MODULATES CONNECTION BETWEEN AMYGDALA AND HIPPOCAMPUS IN THE PRESENCE OF GENERAL ANESTHETIC 265

K. Hirota, R. Sasaki, M. Yamazaki *(Toyama, Japan)*

B050 **SUN 6/7/2014, 12:15 - FENS-1265**

AMYGDALA CIRCUITRY MODIFIES INTRAVENOUS ANESTHETIC ACTIONS IN HIPPOCAMPUS 266

R. Sasaki, K. Hirota, M. Yamazaki *(Toyama, Japan)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B051 **SUN 6/7/2014, 11:15 - FENS-1541**

FREQUENCY AND FIRING PATTERN DEPENDENT SHORT-TERM PLASTICITY OF IPSCS ON PERISOMATIC REGION TARGETING INTERNEURONS (PTIS) 267

Z. Kohus, M.R. Karlócai, N. Hájos, T.F. Freund, A.I. Gulyás *(Budapest, Hungary)*

B052 **SUN 6/7/2014, 12:15 - FENS-1512**

DYNAMIC ORGANIZATION OF GLUTAMATE RECEPTORS BOOSTS INFORMATION TRANSFER AT CENTRAL BRAIN SYNAPSES 268

A. Penn, A.L. Carbone, A. Espana, L. Royer, C. Breillat, L. Groc, A. Plested, D. Choquet *(Bordeaux, France)*

B053 **SUN 6/7/2014, 11:15 - FENS-3072**

A2B RECEPTOR ACTIVATION DECREASES SHORT-TERM PLASTICITY AND A1-MEDIATED RESPONSES IN THE MICE HIPPOCAMPUS 269

J. Pires, F. Queiroz, R. Cunha, D. Rial *(Coimbra, Portugal)*

B054 **SUN 6/7/2014, 12:15 - FENS-0060**

COMPUTATIONAL STUDY OF CA2+ DYNAMICS AND SHORT-TERM SYNAPTIC PLASTICITY IN CEREBELLAR NEURONS 270

E. Saftenku *(Kyiv, Ukraine)*

B055 **SUN 6/7/2014, 11:15 - FENS-1067**

ANALOG MODULATION OF SYNAPTIC RELEASE AT INTRASTRIATAL FEEDFORWARD AND FEEDBACK CONNECTIONS 271

S. Szydlowski, H. Planert, G. Silberberg *(Stockholm, Sweden)*

B056 **SUN 6/7/2014, 12:15 - FENS-3530**

CAV2.1 EF-HAND SPLICE ISOFORMS DIFFERENTIALLY AFFECT NEUROTRANSMITTER RELEASE AND SHORT-TERM SYNAPTIC PLASTICITY 272

A. Thalhammer, Y. Ermolyuk, T. Nieus, T. Ng, K. Volynski, T. Soong, Y. Goda, L. Cingolani *(Genoa, Italy)*

B057 **SUN 6/7/2014, 11:15 - FENS-2761**

A COMPARATIVE IN VITRO STUDY OF DENTATE GYRUS SYNAPTIC ACTIVITY BETWEEN DORSAL AND VENTRAL HIPPOCAMPUS 273

G. Troboukis *(Patras, Greece)*

B06: SYNAPTIC PLASTICITY - NEUROMODULATORS

B058 **SUN 6/7/2014, 12:15 - FENS-0374**

DUAL GLUTAMATE/GABA TRANSMISSION AT GLUTAMATERGIC AUTAPTIC NEURONS 274

P. Baldelli, M. Orlando, F. Benfenati, P. Valente *(Genova, Italy)*

B059 **SUN 6/7/2014, 11:15 - FENS-1879**

SEROTONIN SWITCHES THE FIRING MODE OF NITRIC OXIDE-EXPRESSING NEURONS OF THE MOUSE LATERAL AMYGDALA 275

M. Bocchio, M. Capogna *(Oxford, United Kingdom)*

B060 **SUN 6/7/2014, 12:15 - FENS-2319**

DENDRITIC SPINE PLASTICITY INDUCED BY SEROTONIN 7 RECEPTOR ACTIVATION 276

M. Borin, M. Ettorre, P. Marchi, E. Lacivita, M. Leopoldo, M. Buffelli *(Verona, Italy)*

B061 **SUN 6/7/2014, 11:15 - FENS-3326**

P2Y1 RECEPTOR IS REQUIRED IN A?-INDUCED LTP IMPAIRMENT 277

A. Carvalho da Silva, R.J. Rodrigues, R.A. Cunha *(Coimbra, Portugal)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B062 **SUN 6/7/2014, 12:15 - FENS-1761**
ROLE OF PLASTICITY SEGREGATION IN STRIATONIGRAL AND STRIATOPALLIDAL NEURONS TO THE PATHOPHYSIOLOGY OF MOTOR CONTROL 278
A. Cavaccini, M. Trusel, R. Tonini *(Genova, Italy)*

B063 **SUN 6/7/2014, 11:15 - FENS-1760**
CELL-TYPE SPECIFIC MODULATION OF THE ENDOCANNABINOID AND ERK CASCADES RESCUES STRIATAL CIRCUIT DYSFUNCTIONS AND IMPROVES MOTOR DEFICITS IN PARKINSONIAN MICE 279
M. Trusel, A. Cavaccini, B. Greco, M. Cerovic, I. Morella, R. Brambilla, R. Tonini *(Genova, Italy)*

B064 **SUN 6/7/2014, 12:15 - FENS-0732**
TYPE VI ADENYLYL CYCLASE MODULATES SYNAPTIC ACTIVITY 280
C. Chang, C. Lee, W. Ho, M. Lin, H. Lai, C. Chien, P. Cheng, C. Lien, Y. Chern *(Taipei city, Taiwan)*

B065 **SUN 6/7/2014, 11:15 - FENS-1940**
CAPS-1 CONTROLS RELEASE OF NEURONAL DCVS 281
M. Farina, R. Bospoort vd, C. Persoon, M. Verhage, R.F. Toonen *(Amsterdam, The Netherlands)*

B07: NETWORK INTERACTIONS - SIGNAL PROPAGATION

B066 **SUN 6/7/2014, 12:15 - FENS-2794**
CHARACTERIZING CONNECTIVITY AND SIGNAL PROPAGATION IN THE LATERAL AMYGDALA THROUGH LOCAL NETWORKS 282
M. Abatis, R. Perin, R. Niu, H. Markram, R. Stoop *(Lausanne, Switzerland)*

B067 **SUN 6/7/2014, 11:15 - FENS-1280**
ANALYSIS OF SPONTANEOUS AND EVOKED SIGNAL PROPAGATION IN PATTERNED NEURONAL NETWORKS ON MULTI-ELECTRODE ARRAYS 283
M. Anisimova, K. Yokoyama, D. Ito, M. Suzuki, T. Uchida, K. Gohara *(Sapporo, Japan)*

B068 **SUN 6/7/2014, 12:15 - FENS-3673**
STATE DEPENDENT MONOSYNAPTIC INTEGRATION IN MOUSE SOMATOSENSORY CORTEX IN VIVO 284
L. Ferrarese, J.S. Jouhanneau, G. Katona, B. Rózsa, J.F.A. Poulet *(Berlin, Germany)*

B069 **SUN 6/7/2014, 11:15 - FENS-0519**
INHIBITORY INPUTS INVALIDATE EXCITATORY DENDRITIC INPUTS 285
C. Kobayashi, Y. Ikegaya *(Tokyo, Japan)*

B070 **SUN 6/7/2014, 12:15 - FENS-3196**
TMS-HDEEG DISCLOSES DIFFERENT MECHANISMS OF PHARMACOLOGICALLY-INDUCED LOSS OF CONSCIOUSNESS 286
M. Napolitani, M. Rosanova, S. Sarasso, S. Casarotto, A. Pigorini, O. Gosseries, M. Boly, P. Boveroux, S. Laureys, M. Massimini *(Milano, Italy)*

B071 **SUN 6/7/2014, 11:15 - FENS-3160**
CONTRIBUTIONS OF SYNAPTIC ENVELOPE TO LONG-TERM SINGLE NEURON RESPONSE FLUCTUATIONS 287
S. Reinartz, I. Biro, A. Gal, M. Giugliano, S. Marom *(Haifa, Israel)*

B072 **SUN 6/7/2014, 12:15 - FENS-0937**
MEASURING DIFFERENCES BETWEEN STIMULUS EVOKED SPIKES AND SPONTANEOUS ACTIVITY IN PURKINJE NEURONS 288
K. Reusch, N. Russell, T.C. Bellamy *(Nottingham, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B073 **SUN 6/7/2014, 11:15 - FENS-0543**
AXONAL CONDUCTION BETWEEN P19 CELL-DERIVED AND PRIMARY CULTURED NEURONS IN MICROFABRICATED CHAMBER 289
K. Shimba, K. Sakai, Y. Takayama, K. Kotani, Y. Jimbo *(Chiba, Japan)*

B074 **SUN 6/7/2014, 12:15 - FENS-2087**
FREQUENCY DEPENDENT RECRUITMENT OF DENDRITE TARGETING INTERNEURON IN MOUSE PRESUBICULUM 290
J. Simonnet, I. Cohen, R. Miles, D. Fricker *(Paris, France)*

B075 **SUN 6/7/2014, 11:15 - FENS-0557**
AXON-CARRYING DENDRITES OF HIPPOCAMPAL NEURONS CONVEY PRIVILEGED SYNAPTIC INPUT 291
C. Thome, T. Kelly, A. Yanez, C. Schultz, M. Engelhardt, S.B. Cambridge, M. Both, A. Draguhn, H. Beck, A.V. Egorov *(Heidelberg, Germany)*

B076 **SUN 6/7/2014, 12:15 - FENS-1708**
ROLE OF INTRACORTICAL PROJECTIONS OF LAYER V PYRAMIDAL NEURONS IN THE CONTROL OF CORTICAL NETWORK EXCITABILITY 292
D. Vecchia, R. Beltramo, P. Farisello, T. Fellin *(Genova, Italy)*

B08: GLIA-NEURON INTERACTIONS - CELL BIOLOGY AND SIGNALLING

B077 **SUN 6/7/2014, 11:15 - FENS-0584**
THE EPIGENETIC MAKEUP OF ASTROCYTES IN MAJOR DEPRESSIVE DISORDER AND IN RESPONSE TO ANTIDEPRESSANTS 293
V. A.Malik, E.H. Van den Burg, I.D. Neumann, R. Rupprecht, B. Di Benedetto *(Regensburg, Germany)*

B078 **SUN 6/7/2014, 12:15 - FENS-0308**
MECHANISMS OF HOMOCYSTEINE NEUROTOXICITY IN CENTRAL AND PERIPHERAL NERVOUS SYSTEMS 294
P. Abushik, D.A. Sibarov, S.M. Antonov, R. Giniatullin *(Saint-Petersburg, Russia)*

B079 **SUN 6/7/2014, 11:15 - FENS-1513**
ENDOCANNABINOID SIGNALING MODULATES NEURONS OF THE PEDUNCULOPONTINE NUCLEUS (PPN) VIA ACTIONS ON THE NEURON-GLIA COMMUNICATION 295
K. Adrienn, A. Koszeghy, T. Biro, Z. Hegyi, M. Antal, B. Pál *(Debrecen, Hungary)*

B080 **SUN 6/7/2014, 12:15 - FENS-0309**
LACTATE POTENTIATES NMDA RECEPTOR-MEDIATED SIGNALING IN NEURONS: ROLE IN PLASTICITY GENE EXPRESSION 296
I. Allaman, E. Ruchti, J. Yang, G. Grenningloh, P. Jourdain, J.M. Petit, P.J. Magistretti *(Lausanne, Switzerland)*

B081 **SUN 6/7/2014, 11:15 - FENS-3327**
ACTIVITY-DEPENDENT SIGNALLING BETWEEN NEURONS AND SATELLITE OLIGODENDROCYTES 297
A. Battefeld, M.H.P. Kole *(Amsterdam, The Netherlands)*

B082 **SUN 6/7/2014, 12:15 - FENS-1865**
WNT SIGNALING AND THE INFLAMMATORY DEFENSE OF ENTERIC NERVOUS SYSTEM 298
T. Bertalot, A. Schuster, S. Schrenk, R. Sfriso, K.H. Schäfer, M.T. Conconi, R. Di Liddo *(Padova, Italy)*

B083 **SUN 6/7/2014, 11:15 - FENS-1939**
NRG-1/ERBB PATHWAY IS MODULATED IN SCHWANN CELL-SPECIFIC GABA-B1 RECEPTOR NULL MICE 299
L. Castelnovo, G. Gambarotta, L. Caffino, S. Melfi, A. Faroni, P. Procacci, B. Bettler, F. Fumagalli, L. Wrabetz, V. Magnaghi *(Milan, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B084 **SUN 6/7/2014, 12:15 - FENS-2633**
THE ROLE OF MYELIN IN TEMPORAL AND SPECTRAL PROCESSING IN THE AUDITORY SYSTEM OF MICE 300
L. De Hoz García-Bellido, K.A. Nave, S. Moore *(Göttingen, Germany)*

B085 **SUN 6/7/2014, 11:15 - FENS-2157**
MODELING OF CALCIUM DYNAMICS IN ASTROCYTIC PROCESSES 301
M. De Pittà, J. Lallouette, N. Liaudet, A. Volterra, E. Ben-Jacob, H. Berry *(Villeurbanne, France)*

B086 **SUN 6/7/2014, 12:15 - FENS-0129**
REGIONAL HETEROGENEITY IN INTERCELLULAR ASTROCYTIC SODIUM SIGNALING 302
P. Dublin, C.R. Rose *(Düsseldorf, Germany)*

B087 **SUN 6/7/2014, 11:15 - FENS-2047**
STEREOLOGICAL ANALYSIS OF ASTROCYTES AND PERINEURONAL NETS IN THE HIPPOCAMPUS OF CEBUS APELLA 303
M. Hamad, R. Melo-Paz, C. Santos-Filho, C. Guerreiro Diniz, C. Wanderley Picanço Diniz *(Belém, Brazil)*

B088 **SUN 6/7/2014, 12:15 - FENS-3733**
GLUTAMINE SYNTHETASE STABILITY AND LOCALIZATION ARE MEDIATED BY DIRECT BINDING TO G-AMINOBUTYRIC TYPE B RECEPTORS 304
D. Huyghe, Y. Nakamura, M. Terunuma, M. Faideau, P.G. Haydon, M.N. Pangalos, S. Moss *(Boston, USA)*

B089 **SUN 6/7/2014, 11:15 - FENS-3549**
CEREBRAL BLOOD FLOW MODULATION BY BASAL FOREBRAIN OR WHISKER STIMULATION CAN OCCUR INDEPENDENTLY OF LARGE CYTOSOLIC CA2+ SIGNALING IN ASTROCYTES 305
Y. Oe, K. Ozawa, N. Takata, T. Nagai, A. Konno, M. Ohkura, H. Hirai, J. Nakai, K. Mikoshiba, H. Hirase *(Wakoshi, Japan)*

B090 **SUN 6/7/2014, 12:15 - FENS-2308**
ASTROCYTE PATHOLOGY IN THE PREFRONTAL CORTEX IMPAIRS THE COGNITIVE FUNCTION OF RATS 306
J. Oliveira, V.M. Sardinha, S. Guerra-Gomes, J. Correia, A. Lima, F. Marques, J.J. Cerqueira, L. Pinto, N. Sousa *(Braga, Portugal)*

B091 **SUN 6/7/2014, 11:15 - FENS-1811**
PURINERGIC MODULATION OF SPINAL NEUROGLIAL MALADAPTIVE PLASTICITY FOLLOWING PERIPHERAL NERVE INJURY 307
M. Papa, G. Cirillo, C. De Luca, L. Alberghina, A. Colangelo *(Naples, Italy)*

B092 **SUN 6/7/2014, 12:15 - FENS-3669**
THE EXTRACELLULAR DOMAIN AND CYTOPLASMIC TAIL ARE BOTH REQUIRED FOR CASPR2 POLARIZED EXPRESSION IN HIPPOCAMPAL NEURONS 308
D. Pinatel, B. Hivert, C. Faivre-Sarrailh *(Marseille, France)*

B093 **SUN 6/7/2014, 11:15 - FENS-1316**
ASTROCYTE-TO-NEURON SHUTTLING OF MIR-146A VIA EXTRACELLULAR MICROVESICLES REGULATES PROTEIN TRANSLATION IN NEURONS 309
I. Prada, E. Turola, G. D'arrigo, M. Lombardi, F. Peruzzi, C. Verderio *(Milano, Italy)*

B094 **SUN 6/7/2014, 12:15 - FENS-0542**
RAPID CONTROL OF GLUTAMATE TRANSPORT AND ENERGY METABOLISM BY EXTRACELLULAR POTASSIUM IN ASTROCYTES 310
T. Rimmele, J.Y. Chatton *(Lausanne, Switzerland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B095 **SUN 6/7/2014, 11:15 - FENS-2781**
DECIPHERING HOW ASTROCYTIC TRANSIENTS SHAPE SPONTANEOUS NEURONAL SLOW OSCILLATORY ACTIVITY USING A COMBINED ELECTROPHYSIOLOGICAL AND IMAGING APPROACH IN A MOUSE SLICE MODEL 311
A. Rocher, J.Y. Chatton *(Lausanne, Switzerland)*

B096 **SUN 6/7/2014, 12:15 - FENS-1122**
PROFILINS MODULATE THE MORPHOLOGY AND MOTILITY OF ASTROCYTES 312
S. Schweinhuber, M. Korte, M. Rothkegel *(Braunschweig, Germany)*

B097 **SUN 6/7/2014, 11:15 - FENS-3646**
STUDY OF MICROGLIA ALTERNATIVE ACTIVATION IN SELECTED BRAIN REGIONS 313
E. Vegeto, G. Pepe, G. Calderazzi, A. Villa, A. Maggi *(Milan, Italy)*

B098 **SUN 6/7/2014, 12:15 - FENS-2269**
NEUROPROTECTIVE ROLE OF MITOCHONDRIAL UNCOUPLING PROTEINS 4 AND 5 314
M. Zenger, H. Perreten Lambert, G. Azarias, J.Y. Chatton, P.J. Magistretti, S. Lengacher *(Lausanne, Switzerland)*

C01: ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - TAU AND OTHER PATHOLOGICAL PROTEINS

C001 **SUN 6/7/2014, 11:15 - FENS-2519**
IMPROVED EARLY DIAGNOSIS OF ALZHEIMER'S DISEASE BY COMBINATION OF CEREBROSPINAL FLUID BIOMARKERS 315
M. Babic, Z. Vogrinc, N. Dejanovic, F. Borovecki, P.R. Hof, G. Simic *(Runovici, Croatia)*

C002 **SUN 6/7/2014, 12:15 - FENS-2323**
EXPRESSION OF PATHOLOGICAL TAU FRAGMENT IN HIPPOCAMPAL NEURONAL PRECURSOR CELLS INDUCES EARLY SYMPTOMS OF ALZHEIMER'S DISEASE IN TRANSGENIC MICE. 316
M. Costanzi, D. Saraulli, A. Pristerà, S. Farioli-Vecchioli, G. Strimpakos, M.G. Di Certo, S. Cannas, M.T. Ciotti, F. Tirone, E. Mattei, V. Cestari, N. Canu *(Rome, Italy)*

C003 **SUN 6/7/2014, 11:15 - FENS-3304**
DEREGULATED MITOGEN-ACTIVATED PROTEIN KINASE SIGNALLING CAUSES ALZHEIMER'S DISEASE-LIKE NEURONAL DEGENERATION 317
M. Dumbacher, T. Van Dooren, K. Princen, C.C. Hoogenraad, G. Griffioen *(Leuven, Belgium)*

C004 **SUN 6/7/2014, 12:15 - FENS-3307**
NEUROPATHOLOGY IN THE BRAIN OF THE AGING DOGS WITH COGNITIVE DEFICITS 318
J. Farbáková, T. Smolek, O. Kandrac, V. Ledecky, T. Weissova, A. Madari *(Kosice, Slovakia)*

C005 **SUN 6/7/2014, 11:15 - FENS-2864**
THE IMPACT OF MUTANT PRION PROTEIN ON SYNAPTIC MATURATION AND FUNCTION 319
E. Ghirardini, R. Morini, E. Restelli, M. Pozzoli, I. Bertani, R. Chiesa, M. Matteoli *(Rozzano, Italy)*

C006 **SUN 6/7/2014, 12:15 - FENS-1914**
TRUNCATED TAU ALTERS SYNAPTIC TAU PROTEOME AND DISTURBS SYNAPTIC MOBILITY IN TRANSGENIC MODEL 320
S. Jadhav, N. Zilka, V. Cubinkova, I. Zimova, M. Novak *(Bratislava, Slovakia)*

C007 **SUN 6/7/2014, 11:15 - FENS-2800**
ESTRADIOL NEUROPROTECTIVE AGAINST THE NEUROTOXIC EFFECTS OF AMYLOID (25-35) IN AGING RAT BRAIN 321
P. Kumar, R. Kale, N. Baquer *(New Delhi, India)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C008 **SUN 6/7/2014, 12:15 - FENS-3598**
THE ROLE OF P35/CDK5 REGULATION BY MIR-15/107 FAMILY IN ALZHEIMER'S DISEASE 322
M. Lunghi, S. Moncini, A. Valmadre, F. Fontana, M. Denti, P. Riva, M. Venturin *(Milan, Italy)*

C009 **SUN 6/7/2014, 11:15 - FENS-1938**
INPROPRIATE MICROGLIA'S ABILITY TO DEGRADE OLIGOMERIZED ALZHEIMER TAU PROTEIN 323
P. Majerova, M. Zilkova, Z. Kazmerova, N. Zilka, T. Augustin, T. Smolek, M. Novak *(Bratislava, Slovakia)*

C010 **SUN 6/7/2014, 12:15 - FENS-1907**
IDENTIFICATION OF VARIOUS STRAINS OF DISEASE MODIFIED TAU-TAUONS WITH DIFFERENT INFECTIVITY AND SPREADING POTENCY IN VIVO 324
L. Marosova-Levarska, N. Zilka, I. Zimova, V. Cubinkova, M. Novak *(Bratislava, Slovakia)*

C011 **SUN 6/7/2014, 11:15 - FENS-2730**
NEUROTROPHIN SIGNALLING IMPAIRMENT IN THE RETINA OF THE P301S MUTANT HUMAN TAU TRANSGENIC MOUSE 325
N. Mazzaro, E. Barini, M.G. Spillantini, P. Medini, M. Goedert, L. Gasparini *(Genova, Italy)*

C012 **SUN 6/7/2014, 12:15 - FENS-1070**
ALZHEIMER'S DISEASE DRUG DEVELOPMENT TARGETING TAU OLIGOMER FORMATION 326
G. Papiani, P. Lopez, J. Hendrix, P. Krishnamurthy, D. Romero, E.J. Davidowitz, J.G. Moe *(New York, USA)*

C013 **SUN 6/7/2014, 11:15 - FENS-3661**
TMEM106B AND MAP6 CONTROL DENDRITIC TRAFFICKING OF LYSOSOMES 327
B. Schwenk, C.M. Lang, S. Hogl, D. Orozco, S. Tahirovic, K. Rentzsch, S.F. Lichtenthaler, C.C. Hoogenraad, A. Capell, C. Haass, D. Edbauer *(München, Germany)*

C014 **SUN 6/7/2014, 12:15 - FENS-2610**
PEROXIREDOXIN ATTENUATES THE PATHOGENESIS IN THE DROSOPHILA MODELS FOR POLYGLUTAMINE MEDIATED NEURODEGENERATIONS AND TAUOPATHIES 328
M. Su, T.C. Hsu, C.S. Yong *(Taipei, Taiwan)*

C02: ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - COGNITIVE FUNCTION

C015 **SUN 6/7/2014, 11:15 - FENS-0981**
A NOVEL ACTIVATOR OF CBP/P300 ACETYLTRANSFERASES (HATS) IMPROVES SPATIAL MEMORY PERFORMANCES IN A MOUSE MODEL OF TAUOPATHY 329
A. Boutillier, R. Cassel, S. Chatterjee, O. Bousiges, A. Schneider, D. Blum, L. Buée, T.K. Kundu, J.C. Cassel *(Strasbourg, France)*

C016 **SUN 6/7/2014, 12:15 - FENS-0105**
AGE-RELATED CHANGES IN MOTOR ABILITY IN TWO TRANSGENIC MOUSE MODELS OF ALZHEIMER'S DISEASE: CAN THESE SHED LIGHT ON PARKINSON'S DISEASE? 330
R. Brown, T.P. O'Leary, L. Fraser *(Halifax, Canada)*

C017 **SUN 6/7/2014, 11:15 - FENS-1686**
CHANGES IN FIBER TRACT INTEGRITY AND ITS ASSOCIATIONS WITH COGNITIVE FUNCTION IN AMNESTIC MILD COGNITIVE IMPAIRMENT 331
Y. Chang, T.F. Chen, Y.C. Shih, S.H. Yan, W.Y.I. Tseng *(Taipei City, Taiwan)*

C018 **SUN 6/7/2014, 12:15 - FENS-2601**
DECREASED RYR2 EXPRESSION CORRELATES WITH IMPAIRED LEARNING AND SPATIAL MEMORY 332
J. More, J.L. Valdés, A.C. Paula-Lima, C. Hidalgo *(Santiago, Chile)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C019 **SUN 6/7/2014, 11:15 - FENS-3156**
GRN HAPLOINSUFFICIENCY LEADS TO MILD SYMPTOMS OF FRONTOTEMPORAL DEMENTIA IN MICE 333
G. Riedel, L. Robinson, H. Marston, B. Platt *(Aberdeen, United Kingdom)*

C020 **SUN 6/7/2014, 12:15 - FENS-0982**
EFFECTS OF ALPHA-4 NICOTINIC ACETYLCHOLINE RECEPTOR SUBUNIT LOSS IN A MOUSE MODEL OF ALZHEIMER'S DISEASE. 334
B. Romoli, S. Guiducci, M. Zoli *(Modena, Italy)*

C021 **SUN 6/7/2014, 11:15 - FENS-2223**
SYNAPTIC DYSFUNCTION IN THE 3XTG ALZHEIMER'S DISEASE MOUSE IN VIVO 335
D. Squirrell, M. Montemurro, J. Gigg *(Manchester, United Kingdom)*

C022 **SUN 6/7/2014, 12:15 - FENS-1487**
REGULATORY EFFECT OF L- TYPE VOLTAGE- GATED CALCIUM CHANNEL ON ACETYL-COA METABOLISM IN ZN-EXPOSED CHOLINERGIC NEURONS 336
M. Zysk, A. Ronowska, S. Gul-Hinc, B. Gapys, A. Szutowicz, H. Bielarczyk *(Gdansk, Poland)*

C03: ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - HUMAN GENETICS AND FUNCTIONAL GENOMICS

C023 **SUN 6/7/2014, 11:15 - FENS-1011**
HERPES VIRUS INFECTIONS AND ALZHEIMER'S DISEASE 337
I. Carbone, T. Lazzarotto, M. Ianni, E. Porcellini, P. Forti, E. Masliah, L. Gabrielli, F. Licastro *(Bologna, Italy)*

C024 **SUN 6/7/2014, 12:15 - FENS-0359**
NETWORK-BASED PATHWAY ANALYSES OF GENOME-WIDE ASSOCIATION STUDIES IN ALZHEIMER'S DISEASE 338
G. De Ferrari, E. Pérez-Palma, B. Bustos, C. Villamán, M. Alarcón, M. Avila, G. Ugarte, A. Reyes, C. Opazo *(Santiago, Chile)*

C025 **SUN 6/7/2014, 11:15 - FENS-3285**
AGE-DEPENDENT EFFECT OF APOLIPOPROTEIN E AND CLUSTERIN GENOTYPES ON ELECTROPHYSIOLOGICAL PATTERNS OF BRAIN HYPERACTIVATION DURING COGNITIVE TASKS IN NON-DEMENTED ADULTS 339
N. Ponomareva, T. Andreeva, M. Protasova, S. Kunizheva, L. Shagam, D. Malina, A. Goltsov, E. Rogaev *(Moscow, Russia)*

C04: PARKINSON'S DISEASE - GENETIC DETERMINANTS

C026 **SUN 6/7/2014, 12:15 - FENS-3358**
TRANSCRIPTIONAL REGULATION OF ALPHA SYNUCLEIN; FOCUS ON THE ZSCAN21 TRANSCRIPTION FACTOR 340
G. Dermentzaki, R.L. Clough, L. Stefanis *(Athens, Greece)*

C027 **SUN 6/7/2014, 11:15 - FENS-1446**
LRRK2 INTERACTS WITH SYNAPTIC VESICLES AT THE PRESYNAPTIC SITE 341
A. Marte, I. Russo, M.D. Cirnaru, F. Pischedda, E. Belluzzi, E. Gardella, E. Fedele, G. Piccoli, E. Greggio, F. Onofri *(Genoa, Italy)*

C028 **SUN 6/7/2014, 12:15 - FENS-2276**
CLINICAL FEATURES OF PATIENT WITH PARKINSON'S DISEASE CARRYING SNCA, PRKN, HTRA2 AND SPR MUTATIONS 342
A. Oczkowska, J. Florczak-Wyspianska, W. Kozubski, J. Dorszewska *(Poznan, Poland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C029 **SUN 6/7/2014, 11:15 - FENS-3107**
INTERACTION OF PARKINSON'S DISEASE-ASSOCIATED PROTEINS LRRK2 WITH VPS35 AND ATP13A2 343
A. Podhajska, R. Moser, L. Glauser, D.J. Moore *(Lausanne, Switzerland)*

C030 **SUN 6/7/2014, 12:15 - FENS-1341**
DJ-1 MUTATIONS DIFFERENTIALLY MODULATE DIMERIZATION IN LIVING CELLS 344
M. Repici, S. Dada, K. Straatman, F.J. Enguita, T.F. Outeiro, F. Giorgini *(Leicester, United Kingdom)*

C031 **SUN 6/7/2014, 11:15 - FENS-2554**
LINKS STUDIED IN SILICO BETWEEN GENES IN PARKINSON'S DISEASE, HYPOXIA, AND VASCULAR FACTORS 345
R. Schmidt-Kastner, J. Wilneff, C. Nguyen, K. McKain, S. Katzin, C. Ullrich, J. Dela Cruz, H.W.S. Steinbusch, B.P.F. Rutten *(Boca Raton, USA)*

C032 **SUN 6/7/2014, 12:15 - FENS-3683**
MITOCHONDRIAL FUNCTION IN PD: THE INTERACTION BETWEEN PARKIN AND PGC-1ALPHA 346
L. Zheng, P. Aebischer, B.L. Schneider *(Lausanne, Switzerland)*

C05: PARKINSON'S DISEASE - ANIMAL MODELS

C033 **SUN 6/7/2014, 11:15 - FENS-0727**
SELECTIVE DOWN-REGULATION OF ALPHA-SYNUCLEIN IN MONOAMINERGIC NEURONS OF MICE INCREASES SYNAPTIC DOPAMINE TONE 347
B. Analía, M. Galofré, A. Recasens, E. Ruiz-Bronchal, A. Ferrés-Coy, D. Alarcón, R. Revilla, A. Montefeltro, I. Fariñas, M. Vila *(Barcelona, Spain)*

C034 **SUN 6/7/2014, 12:15 - FENS-1996**
CATECHIN ATTENUATES MOTOR AND MEMORY DEFICITS INDUCED BY 6-OHDA IN RATS 348
G. Andrade, M.D. Teixeira, C.M. Souza, A.P. Menezes, M.R. Carmo, A.A. Fonteles, F.A. Lima *(Fortaleza, Brazil)*

C035 **SUN 6/7/2014, 11:15 - FENS-3763**
EFFECT OF ORAL TREATMENT OF SPIRULINA PLATENSIS ON STRIATAL DOPAMINE LEVELS AND ITS METABOLITES IN RATS 349
F.A.V. Lima, G.S.B. Viana, G.M. Andrade, E.O. Ferreira, A.P.F. Menezes, M.R.S. Carmo *(Fortaleza, Brazil)*

C036 **SUN 6/7/2014, 12:15 - FENS-1924**
ENDOGENOUS NOCICEPTIN/ORPHANIN FQ IS NEUROTOXIC FOR NIGRAL DOPAMINE NEURONS IN VIVO 350
L. Arcuri, S. Bido, R. Viaro, F. Longo, M. Calcagno, P.O. Fernagut, G. Calò, E. Bezard, M. Morari *(Ferrara, Italy)*

C037 **SUN 6/7/2014, 11:15 - FENS-1062**
LONG-TERM EFFECTS OF DEEP BRAIN STIMULATION ON THE BEHAVIOR OF FREELY MOVING HEMIPARKINSONIAN RATS 351
K. Badstübner, I. Weber, K. Nowak, U. Gimsa, T. Kröger, R. Benecke, J. Gimsa, E. Mix *(Rostock, Germany)*

C038 **SUN 6/7/2014, 12:15 - FENS-2751**
NEUROPROTECTION MEDIATED BY THE STANDARDIZED EXTRACT OF MYRACODROUN URUNDEUVA (AROEIRA-DO-SERTÃO) IN AN EXPERIMENTAL MODEL OF PARKINSON DISEASE 352
I. Calou, R.M.P. Siqueira, A.L.C. Cavalcante, T.M. Pierdoná, M.J.P. Lopes, K.R. Tavares, A.L.G. Moreira, E.B.F. Calou, W.R. Aguiar, G.S.B. Viana *(Picos, Brazil)*

C039 **SUN 6/7/2014, 11:15 - FENS-2078**
IMPACT OF COMBINED DEPLETIONS OF MONOAMINES ON PARKINSONIAN-LIKE ANXIETY, DEPRESSION AND MOTIVATION IN THE RAT 353
E. Faggiani, M. Janssen, F. Naudet, Y. Temel, A. Benazzouz *(Bordeaux, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C040 **SUN 6/7/2014, 12:15 - FENS-0306**

ROLE OF PEDUNCULOPONTINE CHOLINERGIC NEURONS IN THE VULNERABILITY OF NIGRAL DOPAMINERGIC NEURONS IN PARKINSON'S DISEASE 354

M. Bensaid, P.P. Michel, E.C. Hirsch, C. François *(Paris, France)*

C041 **SUN 6/7/2014, 11:15 - FENS-1863**

CO-ADMINISTRATION OF THE NEUROSTEROID BNN-50 AND N-ACETYLOCYSTEINE STRONGLY NEUROPROTECTS THE NIGROSTRIATAL DOPAMINERGIC NEURONS IN THE "WEAVER" MOUSE 355

K. Botsakis, T. Mourtzi, N. Panagopoulos, M. Vreka, F. Angelatou, I. Charalampopoulos, A. Gravanis, N. Matsokis *(Patras, Greece)*

C042 **SUN 6/7/2014, 12:15 - FENS-1768**

CAFFEINE, 17-B-ESTRADIOL AND THE 17-B-ESTRADIOL/N-ACETYLCYSTEINE COMBINATION PROTECT THE NIGROSTRIATAL DOPAMINERGIC NEURONS OF THE "WEAVER" MOUSE, A DOPAMINE DEFICIENCY GENETIC MODEL 356

N. Matsokis, K. Botsakis, F. Angelatou, N. Panagopoulos *(Patra, Greece)*

C043 **SUN 6/7/2014, 11:15 - FENS-1896**

THE ANTIOXIDANT EFFECT EXERTED BY THE NEUROSTEROID BNN-50 AND THE BNN-50/N-ACETYLCYSTEINE COMBINATION, NEUROPROTECTS NIGROSTRIATAL DOPAMINERGIC NEURONS OF THE WEAVER MOUSE 357

V. Panagiotakopoulou, T. Mourtzi, D. Zisimopoulos, K. Botsakis, C. Georgiou, F. Angelatou, N. Matsokis *(Patras, Greece)*

C044 **SUN 6/7/2014, 12:15 - FENS-1839**

EXOGENOUS ADULT MOUSE POST MORTEM NEURAL PROMOTE FUNCTIONAL RECOVERY IN A MOUSE MODEL OF PARKINSON DISEASE AND DIFFERENTIATE IN TH-POSITIVE NEURONS 358

S. Carelli, T. Giallongo, C. Viaggi, C. Gerace, D.M. Hebda, F. Caremoli, F. Vaglini, G.U. Corsini, A.M. Di Giulio, A. Gorio *(Milan, Italy)*

C045 **SUN 6/7/2014, 11:15 - FENS-2076**

A P2Y1 (ATP) RECEPTOR ANTAGONIST, MRS 2500, ATTENUATES PARKINSON'S DISEASE RELATED 6-OHDA-INDUCED NEUROTOXICITY IN VIVO AND IN VITRO 359

M. Carmo, P.M. Canas, F.V. Duarte, A.P.F. Menezes, F.D.P. Fernandes, F. Queiroz, C.M. Palmeira, R.A. Cunha, G.M. Andrade *(Fortaleza, Brazil)*

C046 **SUN 6/7/2014, 12:15 - FENS-2578**

EFFECTS OF RESVERATROL ON MEMORY DEFICITS AND NEUROCHEMICAL ALTERATIONS IN 6-OHDA-INDUCED PARKINSONISM IN RATS 360

M. Fernandes, A.P.F. Menezes, A.A.F. Fonteles, M.R.S.C. Do Carmo, J.C.S.N. Neves, K.R.T.N. Neves, C.M.S. De Souza, T.V.M. De Mesquita, F.A.V.L. Lima, G.M.A. De Andrade *(Fortaleza, Brazil)*

C047 **SUN 6/7/2014, 11:15 - FENS-1332**

CENTRAL AND PERIPHERAL DISTRIBUTION OF MESENCHYMAL STEM CELLS FOLLOWING INTRACAROTID INFUSION IN RATS WITH NEUROTOXIC LESION OF THE NIGROSTRIATAL TRACT 361

S. Cerri, R. Greco, A.S. Mangione, C. Ghezzi, G. Levandis, A. Bonizzi, M.A. Avanzini, R. Maccario, M.T. Armentero, F. Blandini *(Pavia, Italy)*

C048 **SUN 6/7/2014, 12:15 - FENS-0123**

MDMA ADMINISTRATION DURING ADOLESCENCE EXACERBATES MPTP-INDUCED COGNITIVE IMPAIRMENT, NEURODEGENERATION AND NEUROINFLAMMATION IN MOTOR, LIMBIC AND CORTICAL AREAS 362

G. Costa, L. Frau, J. Wardas, A. Pinna, N. Simola, M. Morelli *(Cagliari, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C06: NEUROMUSCULAR DISEASES

C049 **SUN 6/7/2014, 11:15 - FENS-2471**

ECTOPIC NAV1.8 CHANNELS AGGRAVATE AXONAL NEUROTOXICITY OF PROLONGED REPETITIVE STIMULATION IN MICE HETEROZYGOUSLY DEFICIENT FOR THE MYELIN PROTEIN P0 GENE 363

S. Alvarez Herrero, M.R. Rosberg, D. Klein, R. Martini, M. Moldovan, C. Krarup *(Copenhagen, Denmark)*

C050 **SUN 6/7/2014, 12:15 - FENS-0777**

SOD1G93R ZEBRAFISH: A POWERFUL TOOL TO INVESTIGATE THE ROLE OF LOWER MOTONEURONS, NEUROMUSCULAR JUNCTIONS AND MUSCLE FIBERS IN ALS 364

L. Benedetti, E. Rottoli, M. De Maglie, S. Rodighiero, A. Ghilardi, C. Perego, L. Del Giacco, M. Francolini *(Milan, Italy)*

C051 **SUN 6/7/2014, 11:15 - FENS-2153**

AGRIN/NEUROTRYPSIN SYSTEM MANIPULATION IMPROVES MUSCLE TROPHISM IN SMA 365

M. Boido, E. De Amicis, V. Valsecchi, S. Hettwer, R. Fariello, A. Vercelli *(Turin, Italy)*

C052 **SUN 6/7/2014, 12:15 - FENS-2132**

THE PROTECTIVE EFFECT OF GROWTH HORMONE ON CU/ZN SUPEROXIDE DISMUTASE MUTANT MOTOR NEURONS 366

J. Chung, H. Kim, W. Im, S. Kim, M. Kim *(Seoul, Korea)*

C053 **SUN 6/7/2014, 11:15 - FENS-2983**

ACUTE ADMINISTRATION OF DMI AMELIORATES EARLY PRESYNAPTIC CORTICAL DEFECTS IN EAE MICE 367

S. Di Prisco, E. Merega, S. Righetti, M. Lanfranco, S. Casazza, A. Uccelli, A.M. Pittaluga *(Genova, Italy)*

C054 **SUN 6/7/2014, 12:15 - FENS-0369**

MORPHOLOGICAL ALTERATIONS DO NOT CORRELATE WITH THE CONDUCTION VELOCITY STUDIES IN NERVES FROM ADULT SPONTANEOUSLY HYPERTENSIVE RATS (SHR) 368

V. Fazan, L.B. Fontanesi, M.C.L. Schiavoni, L.S. Sanada, W. Marques Jr *(São Paulo, Brazil)*

C055 **SUN 6/7/2014, 11:15 - FENS-0133**

ENDOTOXIN OF E.COLI AS AN INITIATOR FACTOR OF NEUROINFLAMMATION: IMPLICATION FOR NEUROPATHIES 369

E. Gasimov, S.H. Huseynova, A. Aliyarbayova, N. Quliyeva, E. Akbarov, R. Ghaffarzadagan *(Baku, Azerbaijan)*

C056 **SUN 6/7/2014, 12:15 - FENS-3080**

A MOLECULAR NETWORK FOR MYOTONIC DYSTROPHY TYPE 1 (DM1) 370

K. Kapusta, B.G.M. Van Engelen, G. Poelmans, J.C. Glennon *(Nijmegen, The Netherlands)*

C057 **SUN 6/7/2014, 11:15 - FENS-0388**

MUTATIONS IN DROSOPHILA SWISS CHEESE GENE ALTER DEVELOPMENT AND FUNCTIONING OF THE NEUROMUSCULAR JUNCTIONS 371

G. Kislik, E. Trush, P. Melentiev, S. Sarantseva *(Saint-Petersburg, Russia)*

C058 **SUN 6/7/2014, 12:15 - FENS-2499**

PATHOPHYSIOLOGICAL APPROACH TO MYOFASCIAL PAIN SYNDROME IN MICE 372

R. Margalef, O. Mayoral, M. Sisquella, M. Bosque, S. Monterde, M. Priego, N. Ortiz, J.M. Tomas, M.M. Santafe *(Reus, Spain)*

C059 **SUN 6/7/2014, 11:15 - FENS-1769**

DEVELOPMENT OF A NEURONAL MODEL FOR GIANT AXONAL NEUROPATHY: STUDY THE ROLE OF THE GIGAXONIN IN NEURONAL AND CYTOSKELETON ORGANIZATION 373

A. Scrivo, P. Bomont *(Montpellier, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C060 **SUN 6/7/2014, 12:15 - FENS-3691**
CELL TYPE-SPECIFIC REQUIREMENTS OF DYNAMIN-2 FUNCTION REVEALED BY GENE ABLATION 374
E. Tinelli, U. Suter *(Zurich, Switzerland)*

C061 **SUN 6/7/2014, 11:15 - FENS-3634**
MIRNA-206 IN A MOUSE MODEL OF SPINAL MUSCULAR ATROPHY 375
V. Valsecchi, M. Boido, E. De amicis, A. Piras, A. Vercelli *(Orbassano, Italy)*

C07: EPILEPSY - CELLULAR AND CIRCUIT MECHANISMS

C062 **SUN 6/7/2014, 12:15 - FENS-0890**
EXPRESSION PATTERN OF METHYL-CPG-BINDING DOMAIN PROTEIN 3 (MBD3) IN CONTROL AND EPILEPTIC BRAIN IN RAT MODEL OF TEMPORAL LOBE EPILEPSY 376
J. Bednarczyk, K. Lukasiuk *(Warsaw, Poland)*

C063 **SUN 6/7/2014, 11:15 - FENS-1740**
PGC-1ALPHA AND PROTEASOME INHIBITION DURING EPILEPSY 377
C. Benton, S. Spadini, M. Ferro, M. Ripamonti, G. Racchetti, V. Zimarino, A. Malgaroli *(Milano, Italy)*

C064 **SUN 6/7/2014, 12:15 - FENS-3193**
WORKING MEMORY AND SEIZURE DYNAMICS IN CORTICAL NETWORKS 378
M. Bodner, J. Lee, B. Ermentrout *(Irvine, USA)*

C065 **SUN 6/7/2014, 11:15 - FENS-2281**
SYNCHRONOUS INHIBITORY POTENTIALS LEAD TO ICTAL TRANSITION IN AN ACUTE MODEL OF FOCAL SEIZURES 379
G. Breschi, L. Uva, V. Gnatkovsky, M. De Curtis, S. Taverna *(Genova, Italy)*

C066 **SUN 6/7/2014, 12:15 - FENS-0913**
EFFECTS OF A REDUCED EFFICACY OF THE KCC2 CO-TRANSPORTER AND ITS RELEVANCE FOR EPILEPSY 380
A. Buchin, G. Huberfeld, R. Miles, A. Chizhov *(Paris, France)*

C067 **SUN 6/7/2014, 11:15 - FENS-2723**
EFFECTS OF IH-BLOCKADE ON BICUCULLINE-INDUCED SPONTANEOUS EPILEPTIC DISCHARGES IN LAYER V OF RAT SENSORIMOTOR CORTEX 381
M. Chikhladze, M. Mantegazza, F. Panzica, S. Franceschetti *(Milan, Italy)*

C068 **SUN 6/7/2014, 12:15 - FENS-2705**
PATHOPHYSIOLOGY OF INTERGENICULATE LEAFLET SYNAPTIC TRANSMISSION IN THE MODEL OF ABSENCE EPILEPSY 382
L. Chrobok, K. Palus, M.H. Lewandowski *(Cracow, Poland)*

C069 **SUN 6/7/2014, 11:15 - FENS-1038**
IN VIVO CORTICAL NETWORK DYNAMICS DURING THE PRE-EPILEPTIC PERIOD IN A MOUSE MODEL OF DRAVET SYNDROME 383
A. De Stasi, M. Mantegazza, T. Fellin *(Genoa, Italy)*

C070 **SUN 6/7/2014, 12:15 - FENS-3031**
INSULIN-RESPONSIVE AMINOPEPTIDASE DECREASES LIMBIC SEIZURES THROUGH TRANS-MODULATION OF THE SOMATOSTATIN TYPE 2 RECEPTOR TRAFFICKING 384
A. Fafouri, E. Loyens, Z. Csaba, D. De Bundel, N. Aourz, J. Coppens, S.Y. Chai, P. Vanderheyden, K. Thermos, Y. Michotte, I. Smolders, P. Dournaud *(Paris, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C071 **SUN 6/7/2014, 11:15 - FENS-1232**

A DUAL APPROACH TO EXPLORE THE FUNCTIONS OF THE TISSUE NONSPECIFIC ALKALINE PHOSPHATASE (TNAP) IN THE BRAIN 385

C. Fonta, T. Cruz, B. Rosay, J.L. Millan, S. Balayssac, V. Gilard, M. Malet-Martino, L.G. Nowak *(Toulouse, France)*

C072 **SUN 6/7/2014, 12:15 - FENS-1986**

THE CONTRIBUTION OF AD-LIKE PATHOLOGY TO LIMBIC SEIZURES IN RODENTS: RELEVANCE OF IMMUNE-MEDIATED MECHANISMS 386

T. Gschwind, M. Zaichuk, I. Knuesel, J.M. Fritschy *(Zurich, Switzerland)*

C073 **SUN 6/7/2014, 11:15 - FENS-1696**

BRAIN PROTEIN EXPRESSION CHANGES IN WAG/RIJ RATS, A GENETIC RAT MODEL OF ABSENCE EPILEPSY AFTER PERIPHERAL LIPOPOLYSACCHARIDE TREATMENT 387

B. Gyorffy, Z. Kovacs, P. Gulyássy, A. Simor, K. Völgyi, G. Orbán, P. Baracskay, Z. Szabó, T. Janáky, A. Dobolyi, G. Juhász, A. Czurkó, K.A. Kékesi *(Budapest, Hungary)*

C074 **SUN 6/7/2014, 12:15 - FENS-3714**

EPILEPSY-INDUCED MOTILITY OF ADULT DENTATE GRANULE CELLS IS CAUSED BY INACTIVATION OF THE REELIN SIGNALING PATHWAY 388

C. Haas, G. Münzner, S. Tinnes, M. Follo *(Freiburg, Germany)*

C075 **SUN 6/7/2014, 11:15 - FENS-3758**

THE DYNAMICS OF GABA-ERGIC SIGNALLING DURING NEONATAL SEIZURES: FROM INHIBITION TO EXCITATION AND BACK AGAIN 389

A. Ilie, C. Akerman *(Oxford, United Kingdom)*

C076 **SUN 6/7/2014, 12:15 - FENS-1743**

CHANGES IN THE EXPRESSION OF HISTONE DEACETYLASE 1-11 MRNAS IN THE HIPPOCAMPUS OF MOUSE MODEL OF TEMPORAL LOBE EPILEPSY 390

R. Jagirdar, M. Drexel, R.O. Tasan, G. Sperk *(Innsbruck, Austria)*

C077 **SUN 6/7/2014, 11:15 - FENS-1132**

STRUCTURAL PLASTICITY OF THE ENTORHINAL INPUT ON DENTATE GRANULE CELLS IN MESIAL TEMPORAL LOBE EPILEPSY 391

P. Janz, U. Häussler, A. Kilias, U. Egert, C.A. Haas *(Freiburg, Germany)*

C08: DEMYELINATING DISORDERS

C078 **SUN 6/7/2014, 12:15 - FENS-1254**

THE ROLE OF THE SERUM RESPONSE FACTOR MEDIATED GENE REGULATION IN DE- AND REMYELINATION 392

S. Anastasiadou, B. Knoell *(Ulm, Germany)*

C079 **SUN 6/7/2014, 11:15 - FENS-1439**

HCA2 MEDIATES THE PROTECTIVE EFFECT OF DIMETHYL FUMARATE IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS 393

J. Assmann, H. Chen, A. Krenz, M. Rahman, M. Grimm, C.M. Karsten, J. Köhl, S. Offermanns, N. Wettschureck, M. Schwaninger *(Lübeck, Germany)*

C080 **SUN 6/7/2014, 12:15 - FENS-1536**

TGF-BETA EFFECT ON OLIGODENDROCYTES WHEN SUBJECTED TO CHOLESTEROL MODULATION FACTORS 394

M. Bacalum, M. Radu, M. Ameloot *(Magurele, Romania)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C081 **SUN 6/7/2014, 11:15 - FENS-2184**

DOCOSAHEXAENOIC ACID AND CURCUMIN PROMOTE OLIGODENDROCYTE DIFFERENTIATION THROUGH MECHANISMS INVOLVING PPAR-GAMMA AND ERK1/2 ACTIVATION 395

A. Bernardo, M.L. Giammarco, R. De Simone, L. Minghetti *(Rome, Italy)*

C082 **SUN 6/7/2014, 12:15 - FENS-1955**

MITOCHONDRIA ARE THE TARGET OF THE OPPOSITE EFFECTS OF TNF-ALPHA AND PPAR-GAMMA AGONISTS IN OLIGODENDROCYTE PROGENITORS 396

C. De Nuccio, C. Cruciani, A. Bernardo, R. De Simone, S. Visentin, L. Minghetti *(Rome, Italy)*

C083 **SUN 6/7/2014, 11:15 - FENS-1961**

ADENOSINE A2A RECEPTORS AS A PROMISING THERAPEUTIC TARGET IN NIEMANN PICK TYPE C DISEASE 397

S. Visentin, C. De Nuccio, A. Ferrante, A. Bernardo, R. Pepponi, L. Minghetti, P. Popoli *(Rome, Italy)*

C084 **SUN 6/7/2014, 12:15 - FENS-2250**

ROLE OF GLUTAREDOXIN 2 IN ONSET AND PROGRESSION OF AUTOIMMUNE NEUROINFLAMMATION MODELS OF MULTIPLE SCLEROSIS 398

C. Berndt, K. Lepka, K. Volbracht, N. Voevodskaya, E. Bill, H.P. Hartung, A. Holmgren, O. Aktas *(Duesseldorf, Germany)*

C085 **SUN 6/7/2014, 11:15 - FENS-0569**

THE INVOLVEMENT OF THE JUXTAPARANODAL IGSF PROTEIN TAG-1/CONTACTIN-2 IN THE CUPRIZONE-INDUCED DE- AND REMYELINATION 399

G. Bonetto, L. Zoupi, D. Karagogeos *(Heraklion, Greece)*

C086 **SUN 6/7/2014, 12:15 - FENS-2436**

DIFFERENTIATION OF MATURE OLIGODENDROCYTES FROM SMALL BIOPSY OF ADULT RAT SPINAL CORD MENINGES 400

A. Braga, F.J. Rodríguez, V. Berton, P. González, G. Malpeli, A. Pino, M. Krampera, I. Decimo, F. Bifari, G. Fumagalli *(Verona, Italy)*

C087 **SUN 6/7/2014, 11:15 - FENS-0620**

KRABBE DISEASE - ULTRASTRUCTURAL ALTERATIONS MAPPED IN THE CENTRAL AND PERIPHERAL NERVOUS SYSTEM 401

V. Cappello, P. Parlanti, I. Tonazzini, M. Cecchini, V. Piazza, M. Gemmi *(Pisa, Italy)*

C088 **SUN 6/7/2014, 12:15 - FENS-3708**

VISUAL EVOKED POTENTIALS IN MONITORING OPTIC NERVE INVOLVEMENT IN A RELAPSING REMITTING MODEL OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS 402

V. Castoldi, R. Santangelo, M. Cursi, M. Cambiaghi, L. Camaleonti, E. Capitolo, G. Dina, G. Comi, A. Quattrini, L. Chaabane, L. Leocani *(Milan, Italy)*

C089 **SUN 6/7/2014, 11:15 - FENS-0597**

ROLE OF CALCIUM KINETICS IN PSYCHOSINE INDUCED CELL DEATH: IMPLICATIONS FOR GLOBOID CELL LEUKODYSTROPHY 403

M. Cecchini, V. Voccoli, I. Tonazzini, C. Cerri, M. Allegra, M. Caleo *(Pisa, Italy)*

C090 **SUN 6/7/2014, 12:15 - FENS-1742**

MICROGLIA DRIVES COGNITIVE AND SYNAPTIC DYSFUNCTION IN EXPERIMENTAL MULTIPLE SCLEROSIS 404

A. De Iure, M. Di Filippo, C. Giampà, V. Durante, A. Tozzi, M. Tantucci, A. Mancini, V. Ghiglieri, C. Spaccatini, C. Costa *(Perugia, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C091 **SUN 6/7/2014, 11:15 - FENS-0268**

ASTROCYTE DEFORMATION AND IMPAIRED CROSSTALK BETWEEN CORTICAL MICROVESSELS AND NEURONS DURING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS 405

R. Eilam, R. Aharoni, M. Sela, R. Arnon *(Rehovot, Israel)*

C09: NEURO-ONCOLOGY

C092 **SUN 6/7/2014, 12:15 - FENS-0134**

INTRACELLULAR GLYCINE RECEPTOR FUNCTION FACILITATES GLIOMA FORMATION IN VIVO 406

O. A Dzaye, B. Förstera, A. Winkelmann, M. Semtner, B. Benedetti, R. Friedrich, D. Markovic, C. Bernert, M. Synowitz, P. Wend, M. Fähling, E. Wanker, M. Junier, R. Glass, H. Kettenmann, J. Meier *(Berlin, Germany)*

C093 **SUN 6/7/2014, 11:15 - FENS-2742**

BRAIN RENIN-ANGIOTENSIN SYSTEM-REGULATING AMINOPEPTIDASE ACTIVITIES PARTICIPATE IN TUMOR DEVELOPMENT IN TRANSPLACENTAL ETHYLNITROSOUREA-INDUCED GLIOMAS 407

M. Arrazola, J.M. Martinez-Martos, M. Cobo-Aceituno, M.J. Garcia-Lopez, M.J. Ramirez-Exposito *(Jaen, Spain)*

C094 **SUN 6/7/2014, 12:15 - FENS-0894**

DECIPHERING THE ROLE OF MTOR PATHWAY IN MEDULLOBLASTOMA BY EXPLOITING CANCER STEM CELLS 408

V. Conti, M. Zanella, M. Cominelli, P.L. Poliani, R. Galli *(Milan, Italy)*

C095 **SUN 6/7/2014, 11:15 - FENS-0053**

A DROSOPHILA SCREEN FOR ANALYZING THE MOLECULAR PATHOGENESIS OF ATYPICAL TERATOID/ RHABDOID TUMORS (AT/RT) 409

K. Eikmeier, S. Albrecht, A. Jeibmann, B. Koos, A. Linge, W. Paulus & M. Hasselblatt *(Münster, Germany)*

C096 **SUN 6/7/2014, 12:15 - FENS-1904**

MODULATION OF GLIOBLASTOMA STEM-LIKE CELLS PROPERTIES BY ALTERED GABA METABOLISM 410

E. El-habr, L.G. Dubois, A. Bogeas, J. Lipecka, F.X. Lejeune, P. Korkolopoulou, M. Fareh, T. Virolle, H. Chneiweiss, M.P. Junier *(Paris, France)*

C097 **SUN 6/7/2014, 11:15 - FENS-1121**

EFFECTS OF ENRICHED ENVIRONMENT ON GLIOBLASTOMA PROGRESSION IN MICE 411

S. Garofalo, A. Porzia, G. Chece, L. Maggi, G. D'Alessandro, C. Lauro, F. Mainiero, C. Limatola *(Rome, Italy)*

C098 **SUN 6/7/2014, 12:15 - FENS-1999**

THE ROLE OF PTEN IN THE INHIBITION OF THE ONCOGENIC ACTIVITY OF C-SRC BY CONNEXIN43 IN GLIOMA CELLS AND ASTROCYTES 412

A. González Sánchez, M. Domínguez-Prieto, S. Herrero-González, J.M. Medina, A. Tabernero *(Salamanca, Spain)*

C099 **SUN 6/7/2014, 11:15 - FENS-0891**

EFFECTS OF CELL-PENETRATING PEPTIDES BASED ON THE INTERACTION BETWEEN C-SRC AND CONNEXIN43 IN GLIOMA STEM CELLS PROLIFERATION AND MIGRATION 413

M. Jaraiz Rodriguez, M. Domínguez-Prieto, J.M. Medina, A. Tabernero *(Salamanca, Spain)*

C100 **SUN 6/7/2014, 12:15 - FENS-2183**

A CELL-PENETRATING PEPTIDE BASED ON THE INTERACTION BETWEEN C-SRC AND CONNEXIN43 REVERSES GLIOMA STEM CELL PHENOTYPE 414

A. Tabernero, C. Thirant, H. Chneiweiss, J.M. Medina, E. Gangoso *(Salamanca, Spain)*

C101 **SUN 6/7/2014, 11:15 - FENS-0243**

GLIOMA DERIVED VERSICAN PROMOTES TUMOR GROWTH VIA GLIOMA ASSOCIATED MICROGLIAL/ MACROPHAGE TOLL-LIKE RECEPTOR 2 SIGNALING 415

F. Hu, O. A Dzaye, A. Hahn, M. Synowitz, S. Wolf, H. Kettenmann *(Berlin, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C102 **SUN 6/7/2014, 12:15 - FENS-0575**

THE EXPRESSION PATTERN OF KEY MOLECULES OF WNT SIGNALING PATHWAY IN BRAIN METASTSES FROM LUNG CANCER 416

A. Kafka, D. Tomas, V. Beros, H.I. Pecina, M. Zeljko, N. Pecina-Slaus *(Zagreb, Croatia)*

C103 **SUN 6/7/2014, 11:15 - FENS-0788**

PROINFLAMMATORY-ACTIVATED GLIOMA CELLS INDUCE A SWITCH IN MICROGLIAL POLARIZATION AND ACTIVATION STATUS: THE ROLE OF MTOR 417

L. Lisi, E. Laudati, P. Navarra, C. Dello Russo *(Rome, Italy)*

C104 **SUN 6/7/2014, 12:15 - FENS-0431**

OLEUROPEIN AND HYDROXYTYROSOL EXERT DIFFERENTIAL EFFECTS ON GLIOMA DEVELOPMENT ACTING THROUGH ANTIOXIDANT DEFENCE SYSTEMS 418

J. Martinez-Martos, M.D. Mayas, M.P. Carrera-Gonzalez, M.J. Ramirez-Exposito *(Jaen, Spain)*

C105 **SUN 6/7/2014, 11:15 - FENS-1920**

FALLOUT OF PKA GENE EXPRESSION MODIFICATION IN MALIGNAT GLIOMAS 419

A. Muratori, C. Mucignat, M. Redaelli *(Padova, Italy)*

C106 **SUN 6/7/2014, 12:15 - FENS-0684**

UNDERSTANDING THE ROLE OF THE CANCER STEM CELL SPECIFIC GENE ASCL1 IN REGULATING GLIOBLASTOMA MULTIFORME INVASIVENESS 420

A. Narayanan, S. Mazzoleni, F. Gagliardi, M. Cominelli, G. Bozzuto, A. Molinari, L. Poliani, R. Galli *(Milan, Italy)*

C107 **SUN 6/7/2014, 11:15 - FENS-2026**

CLIC1 PROTEIN: A POSSIBLE TARGET FOR SELECTIVE INHIBITION OF GLIOBLASTOMA CANCER STEM CELLS 421

M. Peretti, R. Wurth, M. Gritti, T. Florio, M. Mazzanti *(Milano, Italy)*

C108 **SUN 6/7/2014, 12:15 - FENS-1063**

PROAPOPTOTIC AND CYTOSTATIC EFFECTS OF NOVEL PENTABROMOBENZYLISOTHIOUREAS IN HUMAN GLIOBLASTOMA CELL LINES 422

E. Pucko, M. Koronkiewicz, Z. Kazimierczuk, R.P. Ostrowski, K. Stepien, E. Matyja *(Warsaw, Poland)*

C109 **SUN 6/7/2014, 11:15 - FENS-1480**

REDOX STATUS IN TRANSPLACENTAL ETHYL-NITROSOUREA-INDUCED EXPERIMENTAL GLIOMA 423

M. Ramirez-Exposito, M.P. Carrera-Gonzalez, M.D. Mayas, J.M. Martinez-Martos *(Jaen, Spain)*

C110 **SUN 6/7/2014, 12:15 - FENS-1359**

EFFECT OF OXYGEN DEPRIVATION ON SENSITIVITY OF GLIOMA CELL LINES TO SELECTED CYTOSTATIC COMPOUNDS 424

K. Stepien, R.P. Ostrowski, E.B. Pucko, Z. Kazimierczuk, E. Matyja *(Warsaw, Poland)*

C111 **SUN 6/7/2014, 11:15 - FENS-2700**

NANOTECHNOLOGIES FOR GLIOBLASTOMA THERAPY 425

M. Tamborini, I. Corradini, M. Comes Franchini, L. Passoni, M. Matteoli *(Milano, Italy)*

C112 **SUN 6/7/2014, 12:15 - FENS-3695**

M2 MUSCARINIC RECEPTOR ACTIVATION INHIBITS CELL SURVIVAL AND PROLIFERATION IN HUMAN GLIOBLASTOMA CANCER STEM CELLS 426

A. Tata, F. Alessandrini, I. Cristofaro, M. Di Bari, M. Fiore, L. Conti *(Rome, Italy)*

C113 **SUN 6/7/2014, 11:15 - FENS-2197**

PROTEIN KINASE A SILENCING IN HUMAN GLIOMA: ROLE OF REGULATORY SUBUNIT RIIALPHA 427

M. Zorzan, M. Redaelli, C. Mucignat, A. Caretta *(Padova, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C10: MENTAL DISORDERS - SCHIZOPHRENIA

C114 **SUN 6/7/2014, 12:15 - FENS-3278**

NOVEL IMPLICATIONS OF LINGO-1 SIGNALING IN THE PREFRONTAL CORTEX OF PERINATAL PHENCYCLIDINE TREATED RATS IN A NEURODEVELOPMENTAL MODEL OF SCHIZOPHRENIA 428

J. Andrews, K. Newell, F. Fernandez-Enright *(Wollongong, Australia)*

C115 **SUN 6/7/2014, 11:15 - FENS-1720**

MODELLING EEG ENDOPHENOTYPES IN A MURINE NMDAR ANTAGONIST MODEL OF SCHIZOPHRENIA 429

C. Anna, L. Lladó-Pelfort, F. Artigas *(Barcelona, Spain)*

C116 **SUN 6/7/2014, 12:15 - FENS-3147**

ANTIPSYCHOTIC DRUG-CANDIDATE EGIS-11150: PRO-COGNITIVE EFFICACY IN NMDA-ANTAGONIST PRECLINICAL MODELS AND FACILITATION OF HIPPOCAMPAL NEURONAL PLASTICITY 430

F. Antoni, L. Etherington, A. Gaál, K. Megyeri, Z. Jurányi, B. Markó, J.J. Lambert, D. Belelli, M. Spedding, I. Gacsályi *(Budapest, Hungary)*

C117 **SUN 6/7/2014, 11:15 - FENS-0317**

SCHIZOPHRENIC PATIENTS SHOW ABNORMAL CO-ACTIVATION OF THE HEMISPHERE IPSILATERAL TO THE STIMULATION SIDE 431

I. Antonova, C. Van Swam, D. Hubl, T. Dierks, I. Griskova-Bulanova, T. Koenig *(Vilnius, Lithuania)*

C118 **SUN 6/7/2014, 12:15 - FENS-1340**

AUTONOMIC REGULATION DURING SOCIAL INTERACTION IN SCHIZOPHRENIA 432

M. Ardizzi, M. Ambrosecchia, L. Buratta, M. Peciccia, S. Donnari, C. Mazzeschi, V. Gallese *(Parma, Italy)*

C119 **SUN 6/7/2014, 11:15 - FENS-3681**

SLEEP SPINDLES IN DRUG-NAÏVE SUBJECTS WITH FIRST-EPISODE PSYCHOSIS: A HIGH-DENSITY EEG INVESTIGATION 433

A. D'Agostino, A. Castelnovo, S. Cavallotti, M. Marcatili, G. Schiena, S. Scarone, M. Canevini, G. Tononi, F. Ferrarelli, S. Sarasso *(Milan, Italy)*

C120 **SUN 6/7/2014, 12:15 - FENS-0928**

A MOUSE MODEL OF IMPAIRED NEUROPLASTICITY DURING DEVELOPMENT LEADING TO SCHIZOPHRENIA 434

A. Bacq, J. Grosse, C. Fournier, C. Sandi *(Lausanne, Switzerland)*

C121 **SUN 6/7/2014, 11:15 - FENS-3672**

NONCANONICAL DOPAMINE-DEPENDENT SYNAPTIC PLASTICITY LINKS GLUTAMATERGIC HYPOFUNCTION AND DOPAMINERGIC HYPERFUNCTION IN A RODENT MODEL OF ACUTE PSYCHOSIS 435

J. Bartsch, P. Fidzinski, J. Huck, R. Kovacs, C. Wozny, J. Behr *(Berlin, Germany)*

C122 **SUN 6/7/2014, 12:15 - FENS-0255**

EXPOSURE TO ENRICHED ENVIRONMENT BLOCKS THE DECREASE IN H3K4ME3 LEVEL INDUCED BY PRENATAL MAM ADMINISTRATION IN MPFC OF ADULT RATS 436

E. Bator, J. Latusz, A. Szybinska, K. Wedzony, M. Mackowiak *(Krakow, Poland)*

C123 **SUN 6/7/2014, 11:15 - FENS-0173**

PRENATAL ELEVATIONS IN KYNURENIC ACID IMPAIR THE DEVELOPMENT OF CORTICAL EXCITABILITY AND COGNITION: IMPLICATIONS FOR SCHIZOPHRENIA 437

J. Bruno, M.L. Pershing, D. Bortz, C.V. Jorgensen, B. Leuner, R. Schwarcz *(Columbus, USA)*

C124 **SUN 6/7/2014, 12:15 - FENS-3613**

THE THRIFTY PSYCHIATRIC PHENOTYPE 438

G. Clemente, B. Kirkpatrick, E. Fernandez-Egea, C. Oliveira, M. Bernardo *(Barcelona, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C125 **SUN 6/7/2014, 11:15 - FENS-2777**

REGULATION OF ZNF804A EXPRESSION AND LOCALISATION IN A CORTICALLY DERIVED HUMAN NEURAL PROGENITOR CELL LINE 439

P. Deans, P. Raval, N.J. Bray, D.P. Srivastava *(London, United Kingdom)*

C126 **SUN 6/7/2014, 12:15 - FENS-3767**

THE INVOLVEMENT OF CREB AND GABA-A RECEPTOR IN SSRI-ANTIPSYCHOTIC THERAPY OF NEGATIVE SYMPTOMS IN SCHIZOPHRENIA 440

R. Einoch, O. Weinreb, M.B. Youdim, H. Silver *(Haifa, Israel)*

C127 **SUN 6/7/2014, 11:15 - FENS-0775**

BEHAVIORAL CHARACTERIZATION OF A MOUSE MODEL OF THE 22Q11.2 MICRODELETION SYNDROME 441

K. Fejgin, F. Gastambide, S. Nilsson, V. Nielsen, D. Clausen, P.H. Larsen, M. Tricklebank, T. Bussey, M. Didriksen, J. Nielsen *(Valby, Denmark)*

C128 **SUN 6/7/2014, 12:15 - FENS-2552**

CANNABINOID-MEDIATED REVERSAL OF SOCIAL WITHDRAWAL IN THE PCP RAT MODEL OF SCHIZOPHRENIA 442

A. Giuffrida, A. Seillier *(San Antonio, USA)*

C129 **SUN 6/7/2014, 11:15 - FENS-0901**

POLYMORPHISMS IN CRYBB2 ENCODING BETA-B2-CRYSTALLIN ARE ASSOCIATED WITH MEMORY AND SENSORY GATING 443

J. Graw, I. Giegling, A.M. Hartmann, J. Genius, M. Friedl, A. Straube, T. Eggert, C. Mulert, G. Leicht, S. Karch, U. Hegerl, O. Pogarell, H.J. Möller, D. Rujescu *(Neuherberg, Germany)*

C130 **SUN 6/7/2014, 12:15 - FENS-0483**

ALTERATIONS IN NEURONAL EXCITABILITY AND NEUROTRANSMITTER RECEPTOR EXPRESSION ACCOMPANY DEFICITS IN HIPPOCAMPAL SYNAPTIC PLASTICITY IN AN ANIMAL MODEL OF PSYCHOSIS 444

T. Grüter, V. Wiescholleck, V. Aliane, V. Dubovyk, D. Manahan-Vaughan *(Bochum, Germany)*

C131 **SUN 6/7/2014, 11:15 - FENS-0563**

OSCILLATORY COUPLING WITHIN NEONATAL PREFRONTAL-HIPPOCAMPAL NETWORKS IS IMPAIRED IN MOUSE MODELS OF GENETIC, ENVIRONMENTAL OR COMBINED RISK FACTORS OF SCHIZOPHRENIA 445

H. Hartung, S. Riemann, S. Schildt, C. Mulert, J.A. Gogos, I.L. Hanganu-Opatz *(Hamburg, Germany)*

C132 **SUN 6/7/2014, 12:15 - FENS-0682**

CIRCADIAN RHYTHM ALTERATIONS IN A NEW SCHIZOPHRENIA-LIKE RAT SUBSTRAIN DEVELOPED BY SELECTIVE BREEDING 446

G. Horváth 1, G. Kekesi, Z. Petrovszki, G. Benedek, S. Keri *(Szeged, Hungary)*

C133 **SUN 6/7/2014, 11:15 - FENS-3224**

INVESTIGATION OF DISC1 UBIQUITINATION, A NOVEL MODIFICATION OF A CRITICAL DEVELOPMENTAL PROTEIN 447

D. Ivankovic, J. Kittler *(London, United Kingdom)*

C134 **SUN 6/7/2014, 12:15 - FENS-1523**

MOLECULAR, FUNCTIONAL AND PHENOTYPIC CONSEQUENCES OF GAD67 DELETION IN THE PV+ NEURONS OF THE MOUSE 448

Z. Katarova, A. Fülöp, Z. Emri, K. Antal, Z. Máté, R. Kedves, J. Laszy, C. Csölle, I. Gyertyán, V. Román, G. Szabó *(Budapest, Hungary)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C11: MENTAL DISORDERS - AUTISM, MENTAL RETARDATION, AND RELATED DISORDERS

C135 **SUN 6/7/2014, 11:15 - FENS-0831**

ALTERED SURFACE DYNAMICS OF MGLU5 RECEPTOR IN A MOUSE MODEL OF FRAGILE X SYNDROME 449

E. Aloisi, M. Spatuzza, S. D'Antoni, F. Drago, M.V. Catania, A. Frick *(Bordeaux, France)*

C136 **SUN 6/7/2014, 12:15 - FENS-2684**

DEVELOPMENTAL AND MAINTENANCE DEFECTS IN RETT SYNDROME NEURONS IDENTIFIED BY A NEW MOUSE STAGING SYSTEM IN VITRO 450

G. Baj, A. Patrizio, A. Piva, C. Deiana, A. Montalbano, M. Sciancalepore, E. Tongiorgi *(Trieste, Italy)*

C137 **SUN 6/7/2014, 11:15 - FENS-1832**

THE P21-ACTIVATED KINASE PAK3 FORMS HETERODIMERS WITH PAK1 IN BRAIN IMPLEMENTING TRANS-REGULATION OF PAK3 ACTIVITY 451

J. Barnier, G. Combeau, P. Kreis, F. Domenichini, M. Amar, P. Fossier, V. Rousseau *(Orsay, France)*

C138 **SUN 6/7/2014, 12:15 - FENS-1561**

FGF-2 DEFICIENCY CAUSES DYSREGULATION OF THE NUCLEOTIDE EXCHANGE FACTOR ARHGEF6 AND DOWNSTREAM TARGETS: IMPLICATIONS FOR CYTOSKELETON, NEURITE GROWTH AND SPINES 452

P. Baum, S. Werner, O. Von Bohlen und Halbach, K. Unsicker *(Freiburg, Germany)*

C139 **SUN 6/7/2014, 11:15 - FENS-2932**

DISTURBED EXCITATION-INHIBITION BALANCE IN A HUMAN EMBRYONIC STEM CELL-DERIVED MODEL FOR TUBEROUS SCLEROSIS 453

K. Behr, M. Vukcevic, V. Costa, S. Aigner, R. Jagasia, J. Bischofberger *(Basel, Switzerland)*

C140 **SUN 6/7/2014, 12:15 - FENS-1970**

IMPAIRED SPIKE TIMING-DEPENDENT PLASTICITY AT IMMATURE MF-CA3 SYNAPSES IN THE HIPPOCAMPUS OF NL3R451C KNOCK-IN MICE, AN ANIMAL MODEL OF AUTISM 454

A. Bialowas, E. Cherubini *(Trieste, Italy)*

C141 **SUN 6/7/2014, 11:15 - FENS-1131**

SENSORY HYPEREXCITABILITY IN THE FMR1 KNOCKOUT MOUSE MODEL OF FRAGILE X SYNDROME 455

G. Bony, M. Ginger, A. Frick *(Bordeaux, France)*

C142 **SUN 6/7/2014, 12:15 - FENS-2071**

FOREBRAIN GABAERGIC INTERNEURON CONNECTIVITY AND BDNF SIGNALING DEFICITS IN ENGRAILED 2 KNOCKOUT (EN2-/-) MICE, A MOUSE MODEL OF AUTISM 456

Y. Bozzi, P. Sgadò, S. Genovesi, G. Provenzano, G. Zunino *(Trento, Italy)*

C143 **SUN 6/7/2014, 11:15 - FENS-0907**

CORRELATION BETWEEN SNAP-25 ALTERATION AND COGNITIVE DEFICITS IN MICE AND CHILDREN 457

D. Braida, L. Ponzoni, I. Corradini, R. Benfante, D. Fornasari, M. Clerici, F. Guerini, M. Matteoli *(Milan, Italy)*

C144 **SUN 6/7/2014, 12:15 - FENS-2803**

KRAS MEDIATED ENHANCEMENT OF ERK SIGNALLING DURING BRAIN DEVELOPMENT RESULTS IN SYNAPTIC PLASTICITY DEFICITS AND LEARNING DISABILITIES 458

R. Brambilla, A. Papale, N. Solari, M. Cerovic, N. Hardingham, M. Cambiaghi, L. Leocani, E. Menna, M. Matteoli *(Milano, Italy)*

C145 **SUN 6/7/2014, 11:15 - FENS-1842**

ACTIVATION OF GROUP-I METABOTROPIC GLUTAMATE RECEPTORS REDUCES STRESS GRANULES FORMATION THROUGH A MECHANISM MEDIATED BY FMRP 459

M. Catania, B. Di Marco, M. Spatuzza, C.M. Bonaccorso, S. D'Antoni, F. Drago, P. Dell'Albani *(Catania, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C146 **SUN 6/7/2014, 12:15 - FENS-0422**

REDUCED INHIBITORY GATE IN THE BARREL CORTEX OF NEUROLIGIN3 R451C KNOCK-IN MICE, AN ANIMAL MODEL OF AUTISM SPECTRUM DISORDERS 460

G. Cellot, E. Cherubini *(Trieste, Italy)*

C147 **SUN 6/7/2014, 11:15 - FENS-1164**

EARLY EMBRYONIC TRANSCRIPTIONAL IMPAIRMENTS IN MECP2 NULL MICE AND THEIR IMPACT ON CEREBRAL CORTEX DEVELOPMENT 461

C. Cobolli Gigli, F. Bedogni, R. Rossi, P. Davide, L. Scaramuzza, C. Kilstrup-Nielsen, N. Landsberger *(Milan, Italy)*

C148 **SUN 6/7/2014, 12:15 - FENS-0708**

A PRIMATE SPECIFIC ISOFORM OF LIM KINASE 2, LIMK2-1, IS IMPLICATED IN REGULATION OF NEURITE OUTGROWTH AND INTELLECTUAL DISABILITY 462

H. Cuberos, J. Tastet, P. Vourc'h, S. Marouillat, M.L. De Tauzia, A. Toutain, M. Raynault, R.A. Thepault, F. Laumonnier, F. Bonnet Brilhault, B. Vallee, H. Benedetti, C. Andres *(Tours, France)*

C149 **SUN 6/7/2014, 11:15 - FENS-3168**

THE SMN-FMRP COMPLEX REGULATES MRNA METABOLISM DURING BRAIN DEVELOPMENT 463

L. D'Andrea, L. Pacini, M.G. Farace, T. Achsel, C. Bagni *(Rome, Italy)*

C150 **SUN 6/7/2014, 12:15 - FENS-2188**

ENDOGENOUS RETROVIRUS EXPRESSION IN TWO MOUSE MODELS OF AUTISM SPECTRUM DISORDERS 464

A. De Felice, L. Ricceri, E. Balestrieri du-Marteau, C. Matteucci, A.A. Dendoba, C. Cipriani, M.L. Scattoni, G. Calamandrei *(Rome, Italy)*

C151 **SUN 6/7/2014, 11:15 - FENS-2797**

PHARMACOLOGICAL MODULATION OF THE BRAIN SEROTONIN RECEPTOR 7 IMPROVES THE NEUROBEHAVIOURAL PHENOTYPE IN A MOUSE MODEL OF RETT SYNDROME 465

B. De Filippis, P. Nativio, L. Ricceri, W. Adriani, E. Lacivita, M. Leopoldo, F. Passarelli, A. Fuso, G. Laviola *(Rome, Italy)*

C152 **SUN 6/7/2014, 12:15 - FENS-2360**

IMPAIRED NEUROGENESIS AND HIPPOCAMPUS-DEPENDENT BEHAVIOR IN A KNOCKOUT MOUSE MODEL OF CDKL5 ENCEPHALOPATHY 466

M. De Franceschi, C. Fuchs, S. Trazzi, R. Viggiano, E. Amendola, C. Gross, L. Calzà, R. Bartesaghi, E. Ciani *(Bologna, Italy)*

C153 **SUN 6/7/2014, 11:15 - FENS-2898**

PHARMACOLOGICAL RESCUE OF CORTICAL, CARDIOVASCULAR AND RESPIRATORY DEFICITS IN A RETT SYNDROME MODEL BY TREATMENT WITH THE ANTIDEPRESSANT MIRTAZAPINE 467

C. Deiana, T. Bittolo, C.A. Raminelli, V. Vaghi, S. Ferrazzo, G. Baj, A. Bernareggi, E. Tongiorgi *(Trieste, Italy)*

C154 **SUN 6/7/2014, 12:15 - FENS-2278**

UNTARGETED METABOLOMICS APPROACH FOR THE URINE ANALYSIS OF AUTISTIC PATIENTS USING LC-HRMS, 1H-NMR AND 1H-13C-HSQC NMR 468

B. Dieme, S. Mavel, H. Blasco, C. Bocca, F. Montigny, F. Bonnet-Brilhault, C. Barthelemy, G. Tripi, C.R. Andres, L. Nadal-Desbarats, P. Emond *(Tours, France)*

C155 **SUN 6/7/2014, 11:15 - FENS-3491**

DISRUPTED SOMATOSENSORY CORTICAL PROCESSING EMERGES FROM CIRCUIT-WIDE DEFECTS IN THE JUVENILE FMR1-KO MOUSE MODEL OF FRAGILE X SYNDROME 469

A. Domanski, J.T.R. Isaac, P.C. Kind *(Edinburgh, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C156 **SUN 6/7/2014, 12:15 - FENS-2194**
THE R67C INTELLECTUAL DISABILITY MUTATION OF PAK3 GENE IMPAIRS PROGENITOR CELLS PROLIFERATION AND DIFFERENTIATION DURING ADULT NEUROGENESIS 470
F. Domenichini, S. Poëa-Guyon, F. Agasse, M. Carraro, A. Veyrac, R. Poirier, V. Rousseau, S. Laroche, V. Coronas, J.V. Barnier *(Orsay, France)*

C157 **SUN 6/7/2014, 11:15 - FENS-2648**
CELLULAR RESPONSES ELICITED BY THE R451C AUTISM LINK MUTATION IN NLGN3 471
F. Favaloro, L. Ulbrich, S. Marciniak, T. Pascucci, A. De Jaco *(Rome, Italy)*

C158 **SUN 6/7/2014, 12:15 - FENS-0954**
THE PUTATIVE ROLE OF PARVALBUMIN IN AUTISM SPECTRUM DISORDERS 472
F. Filice, B. Schwaller *(Fribourg, Switzerland)*

C159 **SUN 6/7/2014, 11:15 - FENS-2299**
UNCONVENTIONAL MYOSIN IXA REGULATES AMPA RECEPTOR TRAFFICKING IN HIPPOCAMPAL NEURONS 473
A. Folci, E. Vezzoli, S. Bassani, J. Zapata, F. Longo, M. Francolini, M. Passafaro *(Milano, Italy)*

C160 **SUN 6/7/2014, 12:15 - FENS-2217**
THE PROTEOLYTIC CLEAVAGE AND NUCLEAR FUNCTION OF THE EFMR PROTEIN PROTOCADHERIN-19 474
L. Gerosa, M. Passafaro, S. Bassani *(Milan, Italy)*

C161 **SUN 6/7/2014, 11:15 - FENS-1373**
INTRANASAL ADMINISTRATION OF OXYTOCIN ELICITS ROBUST FMRI RESPONSES IN THE MOUSE BRAIN 475
A. Gozzi, A. Galbusera, A. Bifone *(Rovereto, Italy)*

C162 **SUN 6/7/2014, 12:15 - FENS-1427**
A NOVEL MISSENSE MUTATION IN THE SYN1 GENE ASSOCIATED WITH X-LINKED INTELLECTUAL DISABILITY: EFFECTS ON THE SYNAPTIC VESICLE LIFE CYCLE 476
F. Guarnieri, D. Pozzi, A. Raimondi, M.M. Valente, E. Monzani, H. Van Esch, F. Benfenati, P. D'Adamo, F. Valtorta *(Milan, Italy)*

C163 **SUN 6/7/2014, 11:15 - FENS-1682**
ROLE OF THE AUTISM-ASSOCIATED SHANK PROTEINS IN EARLY DEVELOPMENT OF NEURONS 477
S. Halbedl, M.S. Schoen, T.M.B. Boeckers *(Ulm, Germany)*

C164 **SUN 6/7/2014, 12:15 - FENS-0506**
THE NEUROLIGIN-3 R451C MUTATION IS ASSOCIATED WITH GASTROINTESTINAL DYSFUNCTION IN AUTISM 478
E. Hill-Yardin, M. Ellis, M. Swaminathan, N. Archer, G. Seger, C. Gillberg, M. Rastam, L. Churilov, N. Oezguen, T. Savidge, J.C. Bornstein *(Melbourne, Australia)*

C165 **SUN 6/7/2014, 11:15 - FENS-0312**
MOTOR IMPAIRMENT IS ASSOCIATED TO GLUTAMINE AND TAURINE REDUCTION IN THE BRAIN OF MECP2-308-/- MICE, A MOUSE MODEL OF RETT SYNDROME 479
R. Invernizzi, G. Sacchetti, C. Kostoula, C. Villani, M. Carli *(Milano, Italy)*

C166 **SUN 6/7/2014, 12:15 - FENS-0766**
DISCOVERING BRAIN-SPECIFIC MOLECULAR PATHWAY ABERRATIONS IN NEUROPSYCHIATRIC DISEASES BY SOMATIC GENOMIC APPROACHES, HIGH-RESOLUTION CNV ANALYSIS AND BIOINFORMATICS 480
I. Iourov, S.G. Vorsanova, M.A. Zelenova, O.S. Kurinnaia, I.A. Demidova, A.D. Kolotii, S.A. Korostelev, V.S. Kravets, Y.B. Yurov *(Moscow, Russia)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C167 **SUN 6/7/2014, 11:15 - FENS-0194**
SUMOYLATION IS REQUIRED FOR THE CONTROL OF SPINE MORPHOLOGY 481
A. Khayachi, G.C. Gwizdek.C, P.G. Poupon.G, C.F. Casse.F, L.C. Loriol.C, B.B. Bardoni.B *(Valbonne, France)*

D01: MULTISENSORY

D001 **SUN 6/7/2014, 11:15 - FENS-1857**
EFFECTS OF BODY SIZE ALTERATION ON THE MOTOR REPRESENTATION OF BODILY-SELF 482
M. Ambrosecchia, M. Ardizzi, V. Gallese *(Parma, Italy)*

D002 **SUN 6/7/2014, 12:15 - FENS-0285**
DIFFERENT BASAL FOREBRAIN NEURONAL POPULATIONS DISPLAY DISTINCT PROJECTING PATHWAYS TO SENSORY PRIMARY CORTICAL AREAS IN THE RAT 483
I. Chaves, A. Nuñez, M.L. Rodrigo-Angulo *(Madrid, Spain)*

D003 **SUN 6/7/2014, 11:15 - FENS-1149**
NEURAL BASES OF IMPACT PREDICTION IN THE NON-HUMAN PRIMATE 484
J. Clery, O. Guipponi, S. Odouard, C. Wardak, S. Ben Hamed *(Bron, France)*

D004 **SUN 6/7/2014, 12:15 - FENS-1125**
MARMOSET PULVINO-CORTICAL AXONS BRANCH TO TARGET MULTIPLE AREAS, AND ARBORIZE IN LAMINA-SPECIFIC PATTERNS 485
M. Cordoba-Claros, P. Rubio-Garrido, R.R.M. De Lima, J.F. Araujo, F. Clascá *(Madrid, Spain)*

D005 **SUN 6/7/2014, 11:15 - FENS-3310**
DOES SENSE OF AGENCY AFFECT BODY OWNERSHIP? EVIDENCE FROM RUBBER HAND ILLUSION IN PURE HEMIPLEGIC PATIENTS 486
C. Fossataro, D. Burin, F. Garbarini, A. Livelli, A. Piedimonte, A. Berti, L. Pia *(Turin, Italy)*

D006 **SUN 6/7/2014, 12:15 - FENS-0779**
HIGH DENSITY AND SPECIFICITY OF THE MOUSE CORTICAL NETWORK 487
A. Gamanut, A. Burkhalter, Z. Toroczkai, K. Knoblauch, H. Kennedy *(Bron, France)*

D007 **SUN 6/7/2014, 11:15 - FENS-1810**
CROSS-MODAL AUDITORY AND TACTILE ACTIVATION OF THE PRIMARY VISUAL CORTEX FOLLOWING EARLY BINOCULAR ENUCLEATION IN MICE 488
S. Godbout, I. Massé, L. Arckens, D. Boire *(Trois-Rivières, Canada)*

D008 **SUN 6/7/2014, 12:15 - FENS-2837**
INTRINSIC CONNECTIVITY BETWEEN SENSORY AND MEMORY SYSTEMS IN THE AWAKE MOUSE BRAIN REVEALED BY INTRINSIC FUNCTIONAL CONNECTIVITY MRI 489
E. Harari, G. Bershadsky, A. Kavushansky, I. Kahn *(Kfar Saba, Israel)*

D009 **SUN 6/7/2014, 11:15 - FENS-1304**
NEURAL ACTIVITY IN THE INNER PERISYLVIAN REGIONS (SII/INSULA) OF THE MACAQUE MONKEY 490
H. Ishida, L. Grandi, M. Bimbi, G. Rizzolatti *(Parma, Italy)*

D010 **SUN 6/7/2014, 12:15 - FENS-3647**
PARAMETER RECOVERY FOR THE TIME-WINDOW-OF-INTEGRATION (TWIN) MODEL OF MULTISENSORY INTEGRATION 491
F.I. Kandil, A. Diederich, H. Colonius *(Bremen, Germany)*

D011 **SUN 6/7/2014, 11:15 - FENS-0065**
SENSORY RESPONSES OF LOCUS COERULEUS, DORSAL RAPHE NUCLEUS, AND BASAL MAGNOCELLULAR NUCLEUS STUDIED BY ANALYSIS OF INFRASLOW BRAIN POTENTIAL OSCILLATIONS 492
A. Krebs, I.V. Filippov, K.S. Pugachev, E.V. Zyuzin *(Yaroslavl, Russia)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D012 **SUN 6/7/2014, 12:15 - FENS-1130**
MULTISENSORY INTEGRATION IN NON-HUMAN PRIMATES DURING A SENSORY-MOTOR TASK 493
F. Lanz, V. Moret, E.M. Rouiller, G. Loquet *(Fribourg, Switzerland)*

D013 **SUN 6/7/2014, 11:15 - FENS-2632**
PITCH AND GRASP THE SOUND! MOTOR PLANNING DANCES ON PITCH DIMENSION 494
C. Lega, L. Rinaldi, Z. Cattaneo, L. Girelli, N.F. Bernardi *(Milano, Italy)*

D014 **SUN 6/7/2014, 12:15 - FENS-2787**
EVENT-RELATED POTENTIALS DURING DEVIANCE DETECTION AND THE DEPENDENCE OF MISMATCH NEGATIVITY/ STIMULUS-SPECIFIC ADAPTION IN RAT BARREL CORTEX ON MULTIMODAL INTERACTIONS 495
M. Machado Lemos Rodrigues, I. Schiwek, S. Klein, K. Funke *(Bochum, Germany)*

D02: VISION - SUBCORTICAL PATHWAYS AND STRIATE CORTEX

D015 **SUN 6/7/2014, 11:15 - FENS-2301**
CODING OF PERCEIVED SIZE IN V1 496
R. Arrighi, A. Pooresmaeili, L. Biagi, M.C. Morrone *(Florence, Italy)*

D016 **SUN 6/7/2014, 12:15 - FENS-3225**
A THREATENING STIMULUS INDUCES SYNCHRONIZED OSCILLATIONS IN THE RAT SUPERIOR COLLICULUS NEURONS 497
G. Baranauskas, G. Svirskis, N. Svirskiene, T. Tkatch *(Kaunas, Lithuania)*

D017 **SUN 6/7/2014, 11:15 - FENS-2007**
CORTICAL CONTROL OF THE PUPILLARY LIGHT RESPONSE 498
P. Binda, A. Benedetto *(Pisa, Italy)*

D018 **SUN 6/7/2014, 12:15 - FENS-1847**
BRIDGING THE GAP: ROLE OF THE INTACT HEMISPHERE IN VISUO-MOTOR INTEGRATION FOR UNSEEN STIMULI IN UNILATERAL BLINDSIGHT 499
A. Celeghin, C.A. Marzi, B. DeGelder, M. Tamietto *(Verona, Italy)*

D019 **SUN 6/7/2014, 11:15 - FENS-2572**
A DI-SYNAPTIC CIRCUIT LINKS DIRECTION SELECTIVE RETINAL GANGLION CELLS TO SUPERFICIAL LAYERS OF PRIMARY VISUAL CORTEX 500
A. Cruz-Martin, R.N. El-Danaf, F. Osakada, B. Sriram, O.S. Dhande, P.L. Nguyen, E.M. Callaway, A. Ghosh, A.D. Huberman *(San Diego, USA)*

D020 **SUN 6/7/2014, 12:15 - FENS-2005**
EFFECTS OF LOCOMOTION ON SOMATOSTATIN-EXPRESSING INTERNEURONS IN VISUAL CORTEX 501
M. Dipoppa, A. Ranson, M. Carandini, K.D. Harris *(London, United Kingdom)*

D021 **SUN 6/7/2014, 11:15 - FENS-1994**
COMPLETE DARKNESS PROMOTES RECOVERY FROM THE ANATOMICAL EFFECTS OF MONOCULAR DEPRIVATION 502
K. Duffy, J.C. Bowdridge, D.E. Mitchell *(Halifax, Canada)*

D022 **SUN 6/7/2014, 12:15 - FENS-2067**
CONVERGENT THALAMIC INPUTS TO PRIMARY AND ASSOCIATION VISUAL AREAS IN MICE 503
M. Evangelio, L. Prensa, J. Rodríguez-Moreno, F. Clascá *(Madrid, Spain)*

D023 **SUN 6/7/2014, 11:15 - FENS-2859**
EFFECTS OF HCN CHANNEL DEFICIENCY IN FOREBRAIN NEURONS ON STIMULUS SELECTIVITY AND OSCILLATORY ACTIVITY IN MOUSE PRIMARY VISUAL CORTEX 504
M. Fiorini, A. Vaiceliunaite, A. Merseburg, D. Isbrandt, L. Busse *(Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D024 **SUN 6/7/2014, 12:15 - FENS-3317**

CURRENT SOURCE DENSITY PROFILES OF RESPONSES TO VISUAL AND TRANSCORNEAL ELECTRICAL STIMULATION IN RAT VISUAL SYSTEM 505

A. Foik, E. Kublik, K. Zeber, W.J. Waleszczyk *(Warsaw, Poland)*

D025 **SUN 6/7/2014, 11:15 - FENS-2123**

FLASH LIGHTS ENHANCE VISUAL PERCEPTION THROUGH LATE CORTICAL DEPOLARIZATION 506

K. Funayama, G. Minamisawa, N. Matsumoto, N. Matsuki, Y. Ikegaya *(Tokyo, Japan)*

D026 **SUN 6/7/2014, 12:15 - FENS-0172**

ACTIVITY IS REQUIRED NOT FOR INITIAL FORMATION BUT FOR LATER REORGANIZATION OF NEURONAL FUNCTIONS IN VISUAL CORTEX 507

K. Hagihara, Y. Tagawa, T. Yoshoda, T. Murakami, K. Ohki *(Fukuoka, Japan)*

D027 **SUN 6/7/2014, 11:15 - FENS-2655**

A CAUSAL LINK BETWEEN CORTICAL AND RETINAL COMPUTATION OF MOTION DIRECTION 508

D. Hillier, M. Fiscella, A. Drinnenberg, S. Rompani, Z. Raics, G. Katona, J. Juettner, B. Rozsa, A. Hierlemann, B. Roska *(Basel, Switzerland)*

D028 **SUN 6/7/2014, 12:15 - FENS-1073**

VOLUNTARY PHYSICAL EXERCISE PROLONGS JUVENILE-LIKE OCULAR DOMINANCE PLASTICITY INTO LATE ADULTHOOD IN MOUSE VISUAL CORTEX 509

E. Kalogeraki, F. Greifzu, F. Haack, S. Löwel *(Göttingen, Germany)*

D03: PAIN - PERIPHERAL RECEPTORS

D029 **SUN 6/7/2014, 11:15 - FENS-1360**

COMBINATION OF L-MENTHOL AND COLD STIMULI: A HUMAN MODEL OF PROLONGED COLD HYPERSENSITIVITY 510

L. Arendt-Nielsen, J. Sørensen, J.L. Kjeldsen, P. Kugathasan, H.H. Andersen, P. Gazerani *(Aalborg, Denmark)*

D031 **SUN 6/7/2014, 11:15 - FENS-3593**

ATP DYNAMICS AND ITS RELEASE MECHANISMS IN PERIPHERAL SENSORY GANGLIA 511

T. Bele, E. Fabbretti *(Ljubljana, Slovenia)*

D032 **SUN 6/7/2014, 12:15 - FENS-0911**

PRO-NOCICEPTIVE EFFECTS OF ATP AND ITS DERIVATIVES IN RAT MENINGES AND TRIGEMINAL GANGLIA 512

C. Guerrero Toro, G. Yegutkin, K. Koroleva, R. Giniatullin *(Kuopio, Finland)*

D033 **SUN 6/7/2014, 11:15 - FENS-3294**

TAU DEPLETION RESULTS IN ALTERED PAIN SENSATION AND SCIATIC NERVE STRUCTURE 513

H. Leite-Almeida, A. Lopes, V. Pinto, S. Lopes, F. Pinto-Ribeiro, R. Fernandes, A. Almeida, N. Sousa, I. Sotiropoulos *(Braga, Portugal)*

D034 **SUN 6/7/2014, 12:15 - FENS-0785**

INTERLEUKIN-6 SIGNAL TRANSDUCER GP130 IS ESSENTIAL FOR MECHANONOCICEPTION AND DETERMINES EXPRESSION OF MECHANOTRANSDUCING ION CHANNEL TRPA1 IN NOCICEPTIVE NEURONS 514

P. Malsch, M. Andratsch, C. Vogl, A.S. Link, C. Alzheimer, S.M. Brierley, P.A. Hughes, M. Kress *(Innsbruck, Austria)*

D035 **SUN 6/7/2014, 11:15 - FENS-2671**

OPIOID RECEPTORS IN SCIATIC NERVE: A NEW PERSPECTIVE FOR PAIN TREATMENT 515

E. Mambretti, K. Kistner, D. Hackel, P. Reeh, A. Brack, E. Asan, H.L. Rittner *(Würzburg, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D036 **SUN 6/7/2014, 12:15 - FENS-1549**

POSTRAUMATIC CHANGES IN VEGF AND ITS RECEPTORS AND CORECEPTORS EXPRESSION AFTER PERIPHERAL NERVE CRUSH INJURY 516

L. Muratori, S. Gnavi, I. Perroteau, M. Fornaro, S. Geuna *(Orbassano, Italy)*

D037 **SUN 6/7/2014, 11:15 - FENS-3379**

MOLECULAR MECHANISMS OF THE SPHINGOSINE 1-PHOSPHATE AND LYSOPHOSPHATIDIC ACID - INDUCED CHLORIDE CONDUCTANCE IN NEUROBLASTOMA CELLS 517

N. Schiefermeier, M. Langeslag, N. Mair, K. Hutter, M. Kress *(Innsbruck, Austria)*

D038 **SUN 6/7/2014, 12:15 - FENS-0190**

SOPHORAFLAVANONE G AS A NOVEL T-TYPE CA2+ CHANNEL INHIBITOR: ELECTROPHYSIOLOGICAL EVIDENCE IN CAV3.2-EXPRESSING HEK293 CELLS AND ANTI-HYPERALGESIC ACTIVITY IN MICE 518

F. Sekiguchi, T. Fujita, T. Deguchi, M. Ichii, S. Yamaoka, H. Nishikawa, S. Yoshida, K. Murata, M. Matsuda, T. Ohkubo, A. Kawabata *(Higashi-Osaka, Japan)*

D039 **SUN 6/7/2014, 11:15 - FENS-0552**

TRPA1 MODULATORS FROM SEA ANEMONES 519

Y. Shapranova, Y. Andreev, I. Mosharova, Y. Korolkova, E. Grishin *(Moscow, Russia)*

D040 **SUN 6/7/2014, 12:15 - FENS-0162**

PAIN CAUSING Q875E MUTATION OF SODIUM CHANNEL HNAV1.7 STABILIZES OPEN STATE VIA AN INTERACTION BETWEEN THE PORE AND THE VOLTAGE-SENSOR 520

T. Stadler, A.O. O'Reilly, A. Lampert *(Erlangen, Germany)*

D041 **SUN 6/7/2014, 11:15 - FENS-3580**

FUNCTIONAL AND MOLECULAR INTERPLAY BETWEEN PPAR(ALFA) RECEPTORS AND TRPV1 CHANNELS 521

M. Taglialatela, P. Ambrosino, M.V. Soldovieri, M. De Maria, S. Di Sisto *(Campobasso, Italy)*

D04: CEREBELLUM

D042 **SUN 6/7/2014, 12:15 - FENS-2882**

THE ROLE OF ENDOCANNABINOID SIGNALING IN DELAY EYELID CONDITIONING 522

C. Albergaria, N.T. Silva, M.R. Carey *(Lisboa, Portugal)*

D043 **SUN 6/7/2014, 11:15 - FENS-1053**

INHIBITORY PROJECTIONS FROM THE CEREBELLAR NUCLEI TO THE CEREBELLAR CORTEX - POSSIBLE FEEDBACK TO GOLGI CELLS IN THE CEREBELLO-OLIVARY LOOP 523

L. Ankri, Y. Yarom, M.Y. Uusisaari *(Jerusalem, Israel)*

D044 **SUN 6/7/2014, 12:15 - FENS-3006**

SYNAPTIC MODULATION OF SUBTHRESHOLD OSCILLATIONS IN THE INFERIOR OLIVE 524

Y. Lefler, M.Y. Uusisaari, Y. Yarom *(Jerusalem, Israel)*

D045 **SUN 6/7/2014, 11:15 - FENS-2511**

CEREBELLAR MODULATION OF WHISKER MOVEMENTS 525

L. Bosman, J.K. Spanke, C.B. Owens, S. Lindeman, V. Romano, C. Ju, S. Van Gurp, M. Negrello, S.K.E. Koekkoek, C.I. De Zeeuw *(Rotterdam, The Netherlands)*

D046 **SUN 6/7/2014, 12:15 - FENS-3653**

MOLECULAR LAYER INTERNEURONS AND COMPLEX SPIKES COMODULATE ACTIVITY IN THE CEREBELLAR NUCLEI 526

V. Romano, C.B. Owens, L. De Propris, J.K. Spanke, S. Lindeman, L. Moscato, C.M. Parisius, M. Negrello, L.M.J. Bosman, C.I. De Zeeuw *(Rotterdam, The Netherlands)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D047 **SUN 6/7/2014, 11:15 - FENS-3677**
SPATIAL MAPPING OF WHISKER-RELATED SENSORY INPUT TO THE MURINE CEREBELLAR CORTEX 527
J. Spanke, S. Lindeman, C. Ju, C.B. Owens, V. Romano, P. Warnaar, L.W.J. Bosman, M. Negrello, S.K.E. Koekkoek, C.I. De Zeeuw *(Rotterdam, The Netherlands)*

D048 **SUN 6/7/2014, 12:15 - FENS-0984**
ROLE OF THE CEREBELLUM IN THE MOTOR SYSTEM DYSFUNCTIONS IN PARKINSON'S DISEASE 528
A. Bousquet, F. Menardy, C. Léna, D. Popa *(Paris, France)*

D049 **SUN 6/7/2014, 11:15 - FENS-1154**
CEREBELLAR INTEGRATION IN CORTICAL SENSORIMOTOR CIRCUITS FOR THE CONTROL OF VOLUNTARY MOVEMENTS 529
M. Spolidoro, R. Proville, N. Guyon, G. Dugué, F. Selimi, P. Isope, D. Popa, C. Lena *(Paris, France)*

D050 **SUN 6/7/2014, 12:15 - FENS-2213**
MIRROR NEURON SYSTEM AND THE CEREBELLUM 530
R. Broersen, S. Picard, A. Abdelgabar, M.M. Ten Brinke, C. Keysers, V. Gazzola, C.I. De Zeeuw *(Amsterdam, The Netherlands)*

D051 **SUN 6/7/2014, 11:15 - FENS-3009**
A CEREBELLAR SPIKING NEURAL NETWORK DRIVING ROBOT LEARNING IN MULTIPLE SENSORIMOTOR TASKS 531
C. Casellato, A. Antonietti, J. Garrido, R. Carrillo, N. Luque, E. Ros, A. Pedrocchi, E. D'Angelo *(Milano, Italy)*

D052 **SUN 6/7/2014, 12:15 - FENS-2544**
MOUSE LOCOMOTOR ADAPTATION ON A SPLIT-BELT TREADMILL 532
D. Darmohray, M.R. Carey *(Lisbon, Portugal)*

D053 **SUN 6/7/2014, 11:15 - FENS-1678**
SENSORY STIMULATION-DEPENDENT POTENTIATION IN THE PURKINJE CELLS OF ALERT MICE 533
L. De Propris, V. Romano, J. Spanke, M. Negrello, L. Bosman, E. D'Angelo, C.I. De Zeeuw *(Pavia, Italy)*

D054 **SUN 6/7/2014, 12:15 - FENS-1447**
THE SPATIOTEMPORAL ORGANIZATION OF CEREBELLAR NETWORK ACTIVITY RESOLVED BY TWO-PHOTON IMAGING OF MULTIPLE SINGLE NEURONS 534
D. Gandolfi, P. Pozzi, M. Tognolina, G. Chirico, J. Mapelli, E. D'Angelo *(Pavia, Italy)*

D055 **SUN 6/7/2014, 11:15 - FENS-2234**
COMPUTATIONAL MODELING PREDICTS THE IMPACT OF INHIBITORY MECHANISMS ON SPIKE PATTERNS AND CALCIUM INFLUX IN CEREBELLAR GRANULE CELLS 535
L. Mapelli, T. Nieus, E. D'Angelo *(Pavia, Italy)*

D056 **SUN 6/7/2014, 12:15 - FENS-2411**
CEREBELLAR PLASTICITY IN IB2 KO MICE 536
F. Prestori, F. Locatelli, L. Mapelli, M. Goldfarb, E. D'Angelo *(Pavia, Italy)*

D057 **SUN 6/7/2014, 11:15 - FENS-1396**
SPIKE-TIMING DEPENDENT PLASTICITY AT THE CEREBELLAR MOSSY FIBER - GRANULE CELL SYNAPSE 537
M. Sgritta, F. Prestori, E. D'Angelo *(Pavia, Italy)*

D058 **SUN 6/7/2014, 12:15 - FENS-2169**
INITIAL EVIDENCE OF LTD AT MOSSY FIBER-GOLGI CELL SYNAPSE IN THE CEREBELLAR CORTEX 538
T. Soda, M. Pagani, F. Locatelli, F. Prestori, J. Garrido, E. D'Angelo *(Pavia, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D059 **SUN 6/7/2014, 11:15 - FENS-1467**

A LARGE SCALE REALISTIC MODEL OF THE CEREBELLAR CORTEX REPRODUCES ENSEMBLE NEURONAL RESPONSES OBSERVED IN VITRO 539

S. Solinas, S. Casali, S. Masoli, E. D'Angelo *(Pavia, Italy)*

D060 **SUN 6/7/2014, 12:15 - FENS-0100**

PANNEXIN1 ARE EXPRESSED IN ZEBRIN POSITIVE BANDS IN THE ADULT MOUSE CEREBELLUM. 540

D. Dubayle, V. Ady, V.I. Shestopalov, C. Levenes *(Paris, France)*

D061 **SUN 6/7/2014, 11:15 - FENS-1105**

INFERIOR OLIVE CORTICOTROPIN-RELEASING FACTOR COORDINATES THE FLIGHT RESPONSE BY MODULATING MOTOR PERFORMANCE AND MOTIVATION 541

G. Ezra, N. Volk, Y. Kuperman, M. Tsoory *(Rehovot, Israel)*

D062 **SUN 6/7/2014, 12:15 - FENS-2376**

ROLE OF DISTRIBUTED CEREBELLAR PLASTICITY IN A MANIPULATION TASK 542

J. Garrido Alcazar, N.R. Luque, E. Ros, E. D'Angelo *(Pavia, Italy)*

D063 **SUN 6/7/2014, 11:15 - FENS-1210**

ACTIVITY-DEPENDENT PLASTICITY OF THE POST-COMPLEX SPIKE PAUSE IN CEREBELLAR PURKINJE CELLS 543

G. Grasselli, H. Titley, C. Hansel *(Chicago, USA)*

D064 **SUN 6/7/2014, 12:15 - FENS-3125**

MOLECULAR LAYER INTERNEURON REGULATION OF PURKINJE CELL SPIKE DYNAMICS DURING VOLUNTARY LOCOMOTION. 544

M. Jelitai, P. Puggioni, T. Ishikawa, I. Duguid *(Edinburgh, United Kingdom)*

E01: REGULATION OF FOOD INTAKE AND BODY WEIGHT - INTEGRATION OF PERIPHERAL SIGNALS

E001 **SUN 6/7/2014, 11:15 - FENS-3581**

FUNCTIONAL AND STRUCTURAL CHARACTERIZATION OF A BINDING SITE FOR TLQP-21, A VGF-DERIVED PEPTIDE 545

L. Molteni, L. Rizzi, E. Bresciani, R. Possenti, V. Locatelli, A. Torsello *(Monza, Italy)*

E002 **SUN 6/7/2014, 12:15 - FENS-0731**

THE HYPOTHALAMIC DERANGEMENT OF THE ANORECTIC ANX/ANX MOUSE IS RELATED TO PANCREATIC DYSFUNCTION 546

I. Nilsson, C. Lindfors, J.E. Johansen, A. Katz, L. Selander, P.O. Berggren, S. Zaitsev, T. Hökfelt, M. Schalling *(Stockholm, Sweden)*

E003 **SUN 6/7/2014, 11:15 - FENS-2915**

GENDER DIFFERENCES IN GLUCOKINASE-DEPENDENT HYPOTHALAMIC GLUCOSE SENSING 547

L. Steinbusch, G. Labouèbe, A. Picard, X. Berney, W. Dolci, B. Thorens *(Lausanne, Switzerland)*

E02: REGULATION OF FOOD INTAKE AND BODY WEIGHT - CENTRAL PATHWAYS

E004 **SUN 6/7/2014, 12:15 - FENS-0102**

BINGE-LIKE DRINKING OF CALORIC AND NON-CALORIC SUBSTANCES IS UNDER THE CONTROL OF OX IN C57BL/6J MICE: PHARMACOLOGICAL AND MOLECULAR EVIDENCE 548

M. Alcaraz Iborra, F. Carvajal, J.M. Lerma-Cabrera, L.M. Valor, I. Cubero *(Almería, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E005 **SUN 6/7/2014, 11:15 - FENS-3717**

DOPAMINE SIGNALING IN THE AMYGDALA, INCREASED BY FOOD INGESTION AND GLP-1, REGULATES FEEDING BEHAVIOR 549

R. Anderberg, C. Anefors, F. Bergquist, H. Nissbrandt, K. Skibicka *(Gothenburg, Sweden)*

E006 **SUN 6/7/2014, 12:15 - FENS-0221**

HIGH FAT DIET ALTERS THE INFLAMMATORY RESPONSE IN THE HIPPOCAMPUS AND THE HYPOTHALAMUS OF NON-OBESE MALE MICE WITH REGIONAL SPECIFICITY 550

M. Astiz, O. Pernía, V. Barrios, L.M. Garcia-Segura, Y. Diz-Chaves *(Madrid, Spain)*

E007 **SUN 6/7/2014, 11:15 - FENS-1503**

A NOVEL ROLE OF THE PSYCHIATRIC DISORDER SUSCEPTIBILITY GENE FKBP51 IN REGULATING ENERGY HOMEOSTASIS IN MICE 551

G. Balsevich, N.C. Gassen, C.W. Meyer, T. Rein, M.H. Tschöp, M.V. Schmidt *(Germany)*

E008 **SUN 6/7/2014, 12:15 - FENS-0493**

LEPTIN-CONTROLLED OREXIN-DEPENDENT ACTIVITY OF PERIAQUEDUCTAL GRAY NEURONS AFFECTS NOCICEPTION DURING OBESITY 552

T. Becker, L. Cristino, L. Luongo, R. Imperatore, G. Busetto, S. Maione, V. Di Marzo *(Pozzuoli, Italy)*

E009 **SUN 6/7/2014, 11:15 - FENS-0446**

A LATERAL POSTERIOR HYPOTHALAMIC REGION INVOLVED IN HEDONIC ASPECT OF FOOD CONSUMPTION 553

S. Chometton, G. Franchi, C. Houdayer, F. Poncet, A. Mariot, D. Fellmann, P.Y. Risold *(Besançon, France)*

E010 **SUN 6/7/2014, 12:15 - FENS-2928**

DIFFERENT REGULATION OF PRODYNORPHIN AND PRONOCICEPTIN GENES EXPRESSION IN RESISTANCE TO DIET-INDUCED OBESITY 554

C. Cifani, M. Micioni Di Bonaventura, M. Pucci, M.E. Giusepponi, R. Ciccocioppo, M. Maccarrone, V. Cuomo, S. Gaetani, C. D'Addario *(Camerino, Italy)*

E011 **SUN 6/7/2014, 11:15 - FENS-1039**

CROSSTALK BETWEEN HYPOTHALAMIC OREXINERGIC NEURONS AND OLFACTORY SYSTEM: A TRACING AND ANATOMO-FUNCTIONAL INVESTIGATION IN THE MOUSE 555

F. Datiche, S. Ortega-Martinez, S. Chaudy, A. Lemoine, E. Nedelec, K. Bettayeb, C. Rigault, A. Benani, L. Penicaud, J. Gascuel *(Dijon, France)*

E012 **SUN 6/7/2014, 12:15 - FENS-3237**

DETECTION OF OBESE PRONE ANIMALS MODELING BEHAVIORAL LONGITUDINAL DATA 556

J. Espinosa-Carrasco, M. Fructuoso, B. Sancristóbal, I. Erb, C. Notredame, M. Dierssen *(Barcelona, Spain)*

E013 **SUN 6/7/2014, 11:15 - FENS-3404**

HYPOTHALAMIC CILIARY NEUROTROPHIC FACTOR AND ENERGY BALANCE CONTROL 557

A. Giordano, I. Severi, J. Perugini, E. Mondini, A. Smorlesi, A. Frontini, S. Cinti *(Ancona, Italy)*

E014 **SUN 6/7/2014, 12:15 - FENS-2303**

MELANIN-CONCENTRATING HORMONE PRODUCING NEURONS IN THE MOUSE HYPOTHALAMUS 558

V. Jancsik, R. Bene, B. Szoke, P. Sótonyi *(Budapest, Hungary)*

E015 **SUN 6/7/2014, 11:15 - FENS-2706**

ACTIVATION OF RELAXIN-3 RECEPTORS (RXFP3) ON HYPOTHALAMIC PARAVENTRICULAR NUCLEUS (PVN) NEURONS IN THE RAT IN VITRO 559

A. Kania, A.L. Gundlach, M.H. Lewandowski, A. Blasiak *(Cracow, Poland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E016 **SUN 6/7/2014, 12:15 - FENS-2952**

GLUCOSE SENSING NEURONS OF THE PARAVENTRICULAR NUCLEUS OF THALAMUS AND MOTIVATED SWEET FEEDING 560

G. Labouèbe, D. Tarussio, M. Bonnet, E. Grouzmann, B. Boutrel, B. Thorens *(Lausanne, Switzerland)*

E017 **SUN 6/7/2014, 11:15 - FENS-2731**

ROLE OF THE CHEMOKINE RANTES/CCL5 IN THE ESTABLISHMENT OF HIGH-FAT DIET-INDUCED OBESITY IN MICE 561

O. Le Thuc, N. Blondeau, F. Rouaud, C. Poitou, K. Clément, A. Guyon, A. Pittaluga, C. Heurteaux, J.L. Nahon, C. Rovère *(Valbonne, France)*

E018 **SUN 6/7/2014, 12:15 - FENS-3742**

EFFECT OF ENDOCRINE DISRUPTER TRIBUTYLTIN ON MOUSE BRAIN CIRCUITS CONTROLLING FOOD INTAKE 562

G. Panzica, E. Bo, S. Gotti *(Torino, Italy)*

E019 **SUN 6/7/2014, 11:15 - FENS-2709**

LIMBIC NEUROPEPTIDE Y-1 RECEPTORS MODULATE VULNERABILITY TO SOCIAL AND METABOLIC CHALLENGES DEPENDING UPON GENDER AND MATERNAL ENVIRONMENT 563

S. Paterlini, R. Panelli, L. Gioiosa, S. Parmigiani, A. Bartolomucci, P. Mele, A. Longo, C. Eva, P. Palanza *(Parma, Italy)*

E020 **SUN 6/7/2014, 12:15 - FENS-1915**

THE HISTONE ACETYLTRANSFERASE MOF IS INVOLVED IN THE HYPOTHALAMIC REGULATION OF ENERGY HOMEOSTASIS 564

C. Rigault, X. Brenachot, E. Nédélec, A. Laderrière, S. Chaudy, A. Lemoine, F. Datiche, J. Gascuel, L. Pénicaud, A. Benani *(Dijon, France)*

E021 **SUN 6/7/2014, 11:15 - FENS-3727**

FLUOXETINE INDUCES PLASTICITY IN HYPOTHALAMIC CIRCUITS CONTROLLING LEPTIN SENSITIVITY AND FOOD INTAKE 565

G. Scabia, M. Mainardi, I. Barone, M. Scali, G. Ceccarini, F. Santini, N. Berardi, T. Pizzorusso, L. Maffei, M. Maffei *(Pisa, Italy)*

E022 **SUN 6/7/2014, 12:15 - FENS-2703**

GHRELIN ACTIVATION OF NUCLEUS INCERTUS NEURONS IN VITRO SUGGESTS LINK BETWEEN KEY HOMEOSTATIC PEPTIDE SYSTEMS 566

M. Siwiec, A. Grabowiecka, G. Hess, A.L. Gundlach, A. Blasiak *(Krakow, Poland)*

E023 **SUN 6/7/2014, 11:15 - FENS-1243**

COMPARISON BETWEEN BREAKING-POINTS OF PROGRESSIVE RATIO SCHEDULES FOR DIFFERENT SUCROSE AND OIL CONCENTRATIONS IN RATS 567

D. Velazquez-Martinez, Y. Ramirez-Yañez, W.A. Zepeda-Ruiz *(Mexico, Mexico)*

F01: HUMAN COGNITION AND BEHAVIOUR - WORKING MEMORY

F001 **SUN 6/7/2014, 11:15 - FENS-2604**

CRITICAL ROLES OF THE VENTROLATERAL AND DORSOMEDIAL PREFRONTAL CORTEX IN CONTEXT RETRIEVAL 568

C. Chapados Noreau, M. Petrides *(Montreal, Canada)*

F002 **SUN 6/7/2014, 12:15 - FENS-0533**

SUPPLEMENTARY MOTOR AREA IS ACTIVATED SELECTIVELY BY THE ACCUMULATION OF TEMPORAL, RATHER THAN SPATIAL, INFORMATION 569

J. Coull, M. Donadieu, S. Droit-Volet, F. Vidal *(Marseille, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F003 **SUN 6/7/2014, 11:15 - FENS-3139**
EXECUTIVE FUNCTIONS IN NON-VIOLENT OFFENDERS: AN EXPLORATORY STUDY 570
A. Cruz, R. Pasion, F. Barbosa *(Porto, Portugal)*

F004 **SUN 6/7/2014, 12:15 - FENS-2791**
WORKING MEMORY OF FACIAL EXPRESSIONS: BEHAVIORAL AND ELECTROPHYSIOLOGICAL DATA 571
M. García Rubio, D.K. Dominique Kessel, E.K. Erika Kirstin González, A. Almudena Capilla, S. Sandra Hoyos, F.J. Francisco Javier Román, S. Sara López, K. Kenia Martínez, R. Roberto Colom, L. Luis Carretié *(Madrid, Spain)*

F005 **SUN 6/7/2014, 11:15 - FENS-1936**
DISSOCIATING LOSS OF RESOURCES FROM LOSS OF MOTIVATION DURING MENTAL FATIGUE 572
M. Gergelyfi, E. Olivier, A. Zenon *(Brussels, Belgium)*

F006 **SUN 6/7/2014, 12:15 - FENS-2605**
ELECTROPHYSIOLOGICAL CORRELATES OF VISUAL WORKING MEMORY 573
L. Kargieman, M.A. Parra, A. Ibáñez, F. Baglivo, W. Silva, C. Ciraolo, M. Sigman, T.A. Bekinschtein, F. Manes, S. Della Sala *(Buenos Aires, Argentina)*

F007 **SUN 6/7/2014, 11:15 - FENS-1747**
SPATIAL WORKING MEMORY DEFICITS IN AGING: A NEW PERSPECTIVE 574
G. Klencklen, P. Banta Lavenex, C. Brandner, P. Lavenex *(Lausanne, Switzerland)*

F008 **SUN 6/7/2014, 12:15 - FENS-2768**
THE NEURAL CORRELATES OF THE CONTINUUM BETWEEN CATEGORICAL AND COORDINATE SPATIAL PROCESSES 575
Y. Lai, C. Hamilton, I.N. Ferrier, P. Gallagher *(Newcastle Upon Tyne, United Kingdom)*

F009 **SUN 6/7/2014, 11:15 - FENS-0486**
ABSENCE OF GENDER EFFECTS ON CHILDREN'S VISUOSPATIAL MEMORY TESTED WITH AUGMENTED REALITY 576
M. Mendez-Lopez, E. Perez-Hernandez, M.C. Juan, S. Albiol, M.J. Vicent *(Teruel, Spain)*

F010 **SUN 6/7/2014, 12:15 - FENS-1813**
NEURAL REPRESENTATION OF RULES AT DIFFERENT HIERARCHICAL LEVELS 577
D. Pischedda, K. Görgen, J.D. Haynes, C. Reverberi *(Milan, Italy)*

F011 **SUN 6/7/2014, 11:15 - FENS-0384**
NMDA RECEPTOR ANTAGONISTS IMPAIR WORKING, BUT NOT REFERENCE MEMORY IN A HOLEBOARD SPATIAL DISCRIMINATION TASK IN RATS 578
A. Potasiewicz, M. Holuj, A. Nikiforuk, P. Popik *(Krakow, Poland)*

F012 **SUN 6/7/2014, 12:15 - FENS-1746**
WORKING MEMORY AND EXECUTIVE FUNCTIONING ARE IMPROVED IN SCHOOL STUDENTS USING AN APPLIED ACTION VIDEO GAME 579
K. Sparrowhawk, J. Harrison, J. Van Rijswijk *(London, United Kingdom)*

F013 **SUN 6/7/2014, 11:15 - FENS-1032**
EFFECTS OF A HIGH DOSE OF ALCOHOL ON IMMEDIATE VISUAL MEMORY AND WORKING MEMORY IN ADOLESCENT HEAVY DRINKERS 580
C. Vinader-Caerols, A. Montañes, S. Monleon, A. Parra *(Valencia, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F014 **SUN 6/7/2014, 12:15 - FENS-2348**

TIME AS A DISTRACTOR IN REAL IDIOTHETIC MEMORY IN HUMANS 581

M. Wesierska, P. Calun-Nadulska, P. Calun-Nadulska, E. Szelag *(Warsaw, Poland)*

F02: ANIMAL COGNITION AND BEHAVIOUR - COGNITIVE LEARNING AND MEMORY SYSTEMS

F015 **SUN 6/7/2014, 11:15 - FENS-0556**

PREGNENOLONE SULFATE RESTORES THE GLUTAMATE-NITRIC-OXIDE-CGMP PATHWAY AND EXTRACELLULAR GABA IN CEREBELLUM AND LEARNING AND MOTOR COORDINATION IN HYPERAMMONEMIC RATS 582

A. Agustí Feliu, A. Gonzalez-Usano, O. Cauli, V. Felipo *(Valencia, Spain)*

F016 **SUN 6/7/2014, 12:15 - FENS-1706**

TOO MUCH MEMORY IS NOT GOOD FOR MEMORY: THE CASE OF ESTRADIOL 583

S. Alabed, A. Sellami, L. Brayda-Bruno, V. Lamothe, X. Nogues, C. Bennetau-pelissero, M. Potier, A. Marighetto *(Bordeaux, France)*

F017 **SUN 6/7/2014, 11:15 - FENS-3215**

IMPROVING AGE-RELATED MEMORY IMPAIRMENTS WITH DONEPEZIL: WHY YOU CAN'T HAVE IT ALL 584

A. Marighetto, A. Sellami, L. Brayda-Bruno, N. Etchamendy, N. Mons, M. Jabourian, X. Nogues, K. Bernard *(Bordeaux, France)*

F018 **SUN 6/7/2014, 12:15 - FENS-3437**

ROLE OF RGS14414 IN OBJECT RECOGNITION MEMORY AND REGULATION OF SYNAPTIC PLASTICITY IN PERIRHINAL CORTEX 585

M. Al-Masmudi Martin, S.J. Posadas, I. Navarro -Lobato, G. Delgado, Z.I. Bashir, Z.U. Khan *(Malaga, Spain)*

F019 **SUN 6/7/2014, 11:15 - FENS-1621**

SPATIAL RECOGNITION ENHANCES THE EXPRESSION OF RYANODINE RECEPTORS IN YOUNG BUT NOT IN AGED RAT HIPPOCAMPUS 586

A. Arias, T. Adasme, C. Hidalgo, P. Muñoz *(Valparaiso, Chile)*

F020 **SUN 6/7/2014, 12:15 - FENS-3603**

THE IMPACT OF DIURNAL PHASES ON THE CENTRAL EFFECTS OF CHRONIC MILD STRESS 587

S. Aslani, M.R. Harb, P.S. Costa, O.F.X. Almeida, N. Sousa, J.A. Palha *(Braga, Portugal)*

F021 **SUN 6/7/2014, 11:15 - FENS-0672**

COMBINING FOS IMAGING AND COMPUTATIONAL APPROACHES TO BETTER UNDERSTAND SEQUENCE-BASED NAVIGATION 588

B. Babayan, A. Watilliaux, C. Tobin, B. Girard, L. Rondi-Reig *(Paris, France)*

F022 **SUN 6/7/2014, 12:15 - FENS-1637**

THE ROLE OF THE THALAMIC PARAFASCICULAR NUCLEUS IN THE ACQUISITION AND REVERSAL OF AN OPERANT CONDITIONING DISCRIMINATION TASK 589

P. Barrós Millàs, J. Visa Bombardo, A. Vale-Martínez, M. Martí-Nicolovius, G. Guillazo-Blanch *(Barcelona, Spain)*

F023 **SUN 6/7/2014, 11:15 - FENS-0624**

HIPPOCAMPAL DEFICITS DRIVEN BY OVEREXPRESSION OF ADENOSINE A2A RECEPTORS IN FOREBRAIN NEURONS 590

V. Batalha, D.G. Ferreira, J.E. Coelho, J.S. Valadas, M. Bader, R.A. Gomes, D. Blum, L.V. Lopes *(Lisbon, Portugal)*

F024 **SUN 6/7/2014, 12:15 - FENS-1926**

5-HT7 RECEPTORS KNOCK-OUT YOUNG MICE DISPLAY NORMAL EPISODIC-LIKE AND WORKING MEMORIES 591

G. Beaudet, T. Freret, V. Delaunay, G. Nee, E. Paizanis, M. Boulouard *(Caen, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F025 **SUN 6/7/2014, 11:15 - FENS-3089**
INCREASE IN HIPPOCAMPAL THETA OSCILLATIONS DURING SPATIAL DECISION-MAKING 592
H. Belchior, V. Lopes-dos-Santos, A.B.L. Tort, S.T.G. Ribeiro *(Natal, Brazil)*

F026 **SUN 6/7/2014, 12:15 - FENS-3735**
PHOSPHO-ACETYLATION OF HISTONE H3 IN THE INSULAR CORTEX RELATED TO OBJECT RECOGNITION MEMORY DEPENDS ON BASOLATERAL AMYGDALA ACTIVITY 593
H. Beldjoud, B. Roozendaal *(Nijmegen, The Netherlands)*

F027 **SUN 6/7/2014, 11:15 - FENS-0470**
BEHAVIOURAL EFFECTS OF POSTNATAL EXPOSURE TO LOW-DOSE INTERNAL RADIATION IN MICE 594
M. Bellés, S. Gonzalo, J.L. Domingo, M.V. Linares *(Reus, Spain)*

F028 **SUN 6/7/2014, 12:15 - FENS-0997**
DEPLETION OF COENZIME Q IN MICE MIMICS THE BEHAVIORAL AND BIOCHEMICAL SYMPTOMS OF HUMAN FIBROMYALGIA 595
A. Fontan, I. Suarez-Pereira, M.D. Cordero, A.M. Carrión *(Madrid, Spain)*

F029 **SUN 6/7/2014, 11:15 - FENS-2259**
PRENATAL STRESS IMPAIRS LEARNING AND MEMORY PERFORMANCE IN RATS IN A SEX-DEPENDENT MANNER: ROLE FOR THE MEDIAL PREFRONTAL CORTEX? 596
Y. Lai, P.J.B. Brunton *(Edinburgh, United Kingdom)*

F030 **SUN 6/7/2014, 12:15 - FENS-0472**
INTERACTIVE EFFECTS BETWEEN CAESIUM AND ENVIRONMENTAL TOXICANTS AT CRITICAL PHASE OF BRAIN DEVELOPMENT 597
V. Linares Vidal, M. Bellés, L. Heredia, M.I. LLovet, J.L. Domingo *(Reus, Spain)*

F031 **SUN 6/7/2014, 11:15 - FENS-0621**
DOES PROTEIN ACCUMULATION EQUAL NEURODEGENERATION? ROSA26-LACZ MICE: FROM TRANSGENICS TO SENESCENCE 598
J. Reichel, B. Bedenk, C.Y. Kao, N.C. Gassen, T. Rein, C. Turck, J.M. Deussing, C.T. Wotjak *(Munich, Germany)*

F032 **SUN 6/7/2014, 12:15 - FENS-2468**
EXPLORING THE COGNITIVE-BEHAVIOURAL PHENOTYPE OF NEUREXIN-1-ALPHA MICE 599
S. Bennett, Y. Liu, C. Fernandes, G.T. Finnerty *(London, United Kingdom)*

F033 **SUN 6/7/2014, 11:15 - FENS-1833**
POLYPHENOL-RICH EXTRACTS FROM PLANTS CAN PREVENT AGE-RELATED COGNITIVE DECLINE BY REGULATING THE EXPRESSION OF GENES INVOLVED IN NEURONAL PLASTICITY 600
J. Bensalem, D. Gaudout, V. Pallet, P. Lafenêtre *(Bordeaux, France)*

F034 **SUN 6/7/2014, 12:15 - FENS-2480**
SLOW AND FAST GAMMA OSCILLATIONS SUPPORT DISTINCT SPATIAL CODING MODES IN RODENT HIPPOCAMPAL PLACE CELLS 601
K. Bieri, K. Bobbitt, L.L. Colgin *(Austin, USA)*

F035 **SUN 6/7/2014, 11:15 - FENS-0414**
JUXTACELLULAR RECORDING AND LABELLING OF PREFRONTAL INTERNEURONS DURING A RULE SWITCHING TASK IN FREELY MOVING RATS 602
Z. Borhegyi, H. Malagon-Viña, M. Lagler, T. Klausberger *(Wien, Austria)*

F036 **SUN 6/7/2014, 12:15 - FENS-0371**
BEHAVIOUR-DEPENDENT INFORMATION ROUTING IN VENTRAL HIPPOCAMPAL CA1 PROJECTION NEURONS 603
S. Ciocchi, H. Malagon, J. Passecker, T. Klausberger *(Vienna, Austria)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F037 **SUN 6/7/2014, 11:15 - FENS-0370**
FIRING PATTERNS OF GABAERGIC INTERNEURONS IN THE INTERMEDIATE CA1 HIPPOCAMPUS DURING A SPATIAL TASK IN A VIRTUAL ENVIRONMENT 604
T. Forro, T. Klausberger *(Wien, Austria)*

F038 **SUN 6/7/2014, 12:15 - FENS-0301**
FIRING PATTERNS OF IDENTIFIED PREFRONTAL NEURONS DURING A WORKING MEMORY TASK 605
M. Lagler, Z. Borhegyi, T. Klausberger *(Wien, Austria)*

F039 **SUN 6/7/2014, 11:15 - FENS-0291**
CELL ASSEMBLIES IN THE PREFRONTAL CORTEX DURING A RULE SWITCHING TASK 606
H. Malagon, S. Ciocchi, T. Klausberger *(Wien, Austria)*

F040 **SUN 6/7/2014, 12:15 - FENS-3017**
NOTCH1 ACTIVITY IN MITRAL CELLS IS ODOR DEPENDENT AND CONTRIBUTES TO OLFACTORY BEHAVIOR 607
E. Brai, A.L. Scotti, R. Kretz, L. Alberi *(Fribourg, Switzerland)*

F041 **SUN 6/7/2014, 11:15 - FENS-3675**
MEMORY ENHANCEMENT IN AGED RATS TREATED WITH LEPIDIUM MEYENII (MACA) 608
F. Cabral, B.S. Sousa, L.B. Torres, I.F. Cunha, R.M. Arida, K.J.V. Lopez, A. Pino-Figueroa, T.J. Maher, S. Gomes da Silva *(São Paulo, Brazil)*

F042 **SUN 6/7/2014, 12:15 - FENS-0132**
GENDER-DIFFERENTIAL EFFECTS OF DEVELOPMENTAL EXPOSURE TO THREE TYPES OF PESTICIDES ON SPATIAL LEARNING 609
A. Cabrera-Pastor, B. Gómez-Giménez, S. Dadsetan, V. Felipo, M. Llansola *(Valencia, Spain)*

F043 **SUN 6/7/2014, 11:15 - FENS-0983**
INFORMATION PROCESSING FOR LONG-TERM SOCIAL MEMORY IN THE DORSAL VERSUS VENTRAL HIPPOCAMPUS IN MICE 610
J. Camats Perna, R. Murau, K.D. Fischer, M. Engelmann *(Magdeburg, Germany)*

F044 **SUN 6/7/2014, 12:15 - FENS-0974**
PATTERNS RECOGNITION OF NEURONAL FIRINGS: APPLICATION TO THE CIRCUIT OF CLASSICAL CONDITIONING OF EYELID RESPONSES 611
C. Caro Martín, R. Sánchez-Campusano, J.M. Delgado-García, R. Leal-Campanario, A. Gruart *(Sevilla, Spain)*

F045 **SUN 6/7/2014, 11:15 - FENS-2106**
RETROSPECTIVELY AND PROSPECTIVELY MODULATED HIPPOCAMPAL PLACE RESPONSES ARE DIFFERENTIALLY DISTRIBUTED ALONG THE CENTRAL ARM OF A CONTINUOUS T-MAZE 612
J. Catanese, A. Viggiano, E. Cerasti, M. Zugaro, S.I. Wiener *(Waterloo, France)*

F046 **SUN 6/7/2014, 12:15 - FENS-1888**
EFFECTS OF THE ELECTRIC FIELD FROM POWER LINES ON DENDRITIC SYNAPTIC INTEGRATION IN HIPPOCAMPAL CA1 PYRAMIDAL NEURONS 613
F. Cavarretta, N.T. Carnevale, D. Tegolo, M. Migliore *(Milano, Italy)*

F047 **SUN 6/7/2014, 11:15 - FENS-2584**
NMDA RECEPTOR SUBUNITS EXPRESSION IN THE HIPPOCAMPUS AFTER HABITUATION TO A NEW ENVIRONMENT 614
M. Cercato, M. Snitcofsky, N. Colettis, E. Kornisiuk, A.I. Aguirre, M.V. Baez, D. Jerusalinsky *(Buenos Aires, Argentina)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F048 **SUN 6/7/2014, 12:15 - FENS-2137**
HIPPOCAMPAL EEG BIOMARKERS OF SOCIAL RECOGNITION 615
D. Cheaha, E. Kumarnsit *(Hatyai, Thailand)*

F03: ANIMAL COGNITION AND BEHAVIOUR - ASSOCIATIVE, NONASSOCIATIVE, AND SKILL LEARNING

F049 **SUN 6/7/2014, 11:15 - FENS-2167**
INTER-TRIAL RESPONSES IN RATS AS A MEASURE FOR COGNITIVE IMPULSIVITY 616
D. Berezhnoy, A. Inozemtsev *(Moscow, Russia)*

F050 **SUN 6/7/2014, 12:15 - FENS-1474**
DIFFERENTIAL MEMORY PERSISTENCE OF ODOUR MIXTURE AND COMPONENTS IN NEWBORN RABBITS: COMPETITION BETWEEN THE WHOLE AND ITS PARTS 617
G. Ferreira, T. Thomas-Danguin, F. Datiche, D.A. Wilson, G. Coureaud *(Bordeaux, France)*

F051 **SUN 6/7/2014, 11:15 - FENS-3254**
COST OPTIMIZATION IN THE CEREBELLAR NUCLEO OLIVARY PATHWAY 618
I. Herreros Alonso, S. Brandi, P.F.M.J. Verschure *(Barcelona, Spain)*

F052 **SUN 6/7/2014, 12:15 - FENS-3410**
ELEMENTAL OR CONTEXTUAL? IT DEPENDS: INDIVIDUAL DIFFERENCES IN THE HIPPOCAMPAL DEPENDENCE OF ASSOCIATIVE LEARNING FOR A SIMPLE SENSORY STIMULUS 619
I. Lee, K.J. Lee *(Seoul, Korea)*

F053 **SUN 6/7/2014, 11:15 - FENS-1968**
OPTOGENETIC LOSS-OF-FUNCTION MAPPING OF CORTICAL MOTOR CIRCUITS INVOLVED IN VOLUNTARY ACTIONS 620
K. Morandell, C. Bonardi, G. Galiñanes, D. Huber *(Geneva, Switzerland)*

F054 **SUN 6/7/2014, 12:15 - FENS-1326**
EFFECT OF TOLUENE CHRONIC EXPOSURE ON THE STRUCTURE OF THE HIPPOCAMPUS AND RECOGNITION MEMORY IN ADULT AND ADOLESCENT RATS 621
N. Phochkhidze, M. Zhvania, M. Dashniani, N. Japaridze, N. Chkhikvishvili *(Tbilisi, Georgia)*

F055 **SUN 6/7/2014, 11:15 - FENS-3028**
MICRORNA EXPRESSION IN LEARNED SAFETY 622
M. Ronovsky, G. Savalli, D.D. Pollak *(Baden, Austria)*

F056 **SUN 6/7/2014, 12:15 - FENS-3115**
ROLE OF METABOTROPIC GLUTAMATE RECEPTOR TYPE 5 IN THE NUCLEUS ACCUMBENS IN ACQUISITION OF MORPHINE-INDUCED CONDITIONED PLACE PREFERENCE IN RATS 623
A. Sarihi, N. Roohi, A. Haghparast *(Hamadan, Iran)*

F057 **SUN 6/7/2014, 11:15 - FENS-1259**
PHASE-REVERSAL IN ENTRAINED NEURAL INTERACTIONS IS A CONSERVED PROPERTY OF LEARNING 624
Z. Williams, R. Haslinger *(Boston, USA)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F04: ANIMAL COGNITION AND BEHAVIOUR - LEARNING AND MEMORY: PHYSIOLOGY AND IMAGING

F058 **SUN 6/7/2014, 12:15 - FENS-1624**
EARLY LONG-CHAIN POLYUNSATURATED FATTY ACID INTERVENTION AFFECTS COGNITION, VASCULAR FUNCTION AND GRAY MATTER INTEGRITY IN MILDLY OBESOGENIC APOE*3LEIDEN MICE 625
I. Arnoldussen, R. Noordman, V. Zerbi, P. Wielinga, R. Kleemann, G. Gross, E. Van Tol, M. Schoenmaker, A. Kiliaan *(Nijmegen, The Netherlands)*

F059 **SUN 6/7/2014, 11:15 - FENS-1848**
NEURONAL REPRESENTATION OF 3D CHARACTERISTICS OF THE SPACE 626
P. Balea, I. Márquez, E. Quintero, M. Portavella, J.P. Vargas *(Seville, Spain)*

F060 **SUN 6/7/2014, 12:15 - FENS-2108**
SLEEP-SCORING IN MICE USING GAMMA FREQUENCY IN THE OLFACTORY BULB 627
S. Bagur, M. Lacroix, K. Benchenane *(Paris, France)*

F061 **SUN 6/7/2014, 11:15 - FENS-1540**
LONG TERM MONITORING OF CA1 NEURONAL ASSEMBLY EXPRESSIONS DURING SPATIAL LEARNING 628
P. Baracskay, M. Lobianco, H. Xu, J. Csicsvari *(Klosterneuburg, Austria)*

F062 **SUN 6/7/2014, 12:15 - FENS-1435**
THE ACTIVITY OF CA1 PYRAMIDAL CELLS IN AN OBJECT-MISPLACED WORKING MEMORY TASK 629
K. Blahna, J. Csicsvari *(Klosterneuburg, Austria)*

F063 **SUN 6/7/2014, 11:15 - FENS-1588**
GRID FIELD REORGANIZATION DURING SPATIAL LEARNING 630
C. Boccara, J. O'Neill, J. Csicsvari *(Klosterneuburg, Austria)*

F064 **SUN 6/7/2014, 12:15 - FENS-1307**
HIDDEN MARKOV MODEL FOR THE DECODING OF SPATIAL FEATURES 631
I. Gridchyn, D. Dupret, J. Csicsvari *(Klosterneuburg, Austria)*

F065 **SUN 6/7/2014, 11:15 - FENS-1416**
CA1 ACTIVITY CONTROLS PLACE FIELD STABILISATION AND HIPPOCAMPAL REACTIVATION 632
P. Schoenenberger, J. O'Neill, J. Csicsvari *(Klosterneuburg, Austria)*

F066 **SUN 6/7/2014, 12:15 - FENS-2406**
CA1 PLACE CELL CODING DURING A SPATIAL MEMORY TASK ON THE EIGHT ARM MAZE 633
H. Xu, J. O'Neill, J. Csicsvari *(Klosterneuburg, Austria)*

F067 **SUN 6/7/2014, 11:15 - FENS-0137**
GENETIC BACKGROUND IMPACT ON ULTRASONIC VOCALIZATION (USV) IN MICE 634
J. Barski, J. Wiaderkiewicz, M. Glowacka, M. Grabowska *(Katowice, Poland)*

F068 **SUN 6/7/2014, 12:15 - FENS-0656**
EEG CORRELATES OF TRAIT AND MATHEMATICAL ANXIETY DURING LEXICAL AND MATHEMATICAL TASKS 635
A. Budakova, M.S. Zaleshin, T.A. Dolgorukova, E.A. Esipenko, E.A. Levin, G.G. Knyazev, A.N. Savostyanov, Y.V. Kovas *(Tomsk, Russia)*

F069 **SUN 6/7/2014, 11:15 - FENS-1220**
DIRECT VS. INDIRECT EFFECTS OF CHOLINERGIC SEPTAL NEURONS ON HIPPOCAMPAL NETWORKS 636
H. Dannenberg, M. Pabst, S. Schoch, M. Schwarz, J. Niediek, F. Mormann, H. Beck *(Bonn, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F070 **SUN 6/7/2014, 12:15 - FENS-3102**

ASSESSMENT OF COGNITIVE DEFICITS AND BLOOD BIOMARKERS OF NEURODEGENERATIVE DISEASE PROGRESSION IN AN AGED NON-HUMAN PRIMATE 637

F. Djelti, S. Languille, F. Pifferi, J.L. Picq, S. Dix, J. De Barry, E. Schenker, F. Aujard *(Brunoy, France)*

F071 **SUN 6/7/2014, 11:15 - FENS-0755**

NO MOVEMENT-RELATED OSCILLATIONS IN THE ENTORHINAL-HIPPOCAMPAL SYSTEM OF BEHAVING BATS DESPITE LOW-FREQUENCY CELLULAR RESONANCE 638

T. Eliav, M. Geva-Sagiv, M. Yartsev, A. Finkelstein, A. Rubin, L. Las, N. Ulanovsky *(Rehovot, Israel)*

F072 **SUN 6/7/2014, 12:15 - FENS-0482**

3D HEAD DIRECTION CELLS IN CRAWLING AND FLYING BATS 639

A. Finkelstein, D. Derdikman, A. Rubin, J.N. Foerster, L. Las, N. Ulanovsky *(Rehovot, Israel)*

F073 **SUN 6/7/2014, 11:15 - FENS-0413**

SWITCHING SENSORY MODALITIES ELICITS REMAPPING AND SHARPENING OF 3-D SPATIAL CODES IN BAT HIPPOCAMPUS 640

M. Geva-Sagiv, L. Las, N. Ulanovsky *(Rehovot, Israel)*

F074 **SUN 6/7/2014, 12:15 - FENS-2107**

IN SEARCH OF 3-D GRID CELLS IN FLYING BATS 641

G. Ginosar, A. Finkelstein, J.M. Fellous, L. Las, N. Ulanovsky *(Rehovot, Israel)*

F075 **SUN 6/7/2014, 11:15 - FENS-1212**

NEURAL-NETWORK MODEL OF 3D HEAD-DIRECTION TUNING IN BATS 642

A. Rubin, A. Finkelstein, N. Ulanovsky, M. Tsodyks *(Rehovot, Israel)*

F076 **SUN 6/7/2014, 12:15 - FENS-0625**

TRAINING DEPENDENT CHANGES IN SPATIAL MEMORY RETENTION CORRELATE WITH A REGIONAL SHIFT IN IMMEDIATE EARLY GENE EXPRESSION 643

F. R. Farina, S. Commins *(Maynooth, Ireland)*

F077 **SUN 6/7/2014, 11:15 - FENS-1145**

CAMP-INDUCED AMYLOID BETA PRODUCTION AND ITS ROLE IN LONG TERM POTENTIATION 644

E. Fedele, D. Puzzo, O. Bruno, E. Gardella, D. Rivera, L. Privitera, B. Marengo, A. Palmeri, O. Arancio, R. Ricciarelli *(Genova, Italy)*

F078 **SUN 6/7/2014, 12:15 - FENS-3191**

GENETIC DISSECTIONS OF PRE AND POSTSYNAPTIC ALPHA2A ADRENERGIC RECEPTORS IN CONTROLING AROUSAL AND COGNITION 645

V. Ferretti, E.A. Steinberg, F.W. Grillo, M. Brown, A. Moro, A. Zecharia, R. Yustos, A.L. Vyssotski, P. Chadderton, V. De Paola, W. Wisden, N.P. Franks *(London, United Kingdom)*

F079 **SUN 6/7/2014, 11:15 - FENS-3100**

APPLICATION OF MANGANESE-ENHANCED MAGNETIC RESONANCE IMAGING (MEMRI) FOR MAPPING OF RAT'S BRAIN STRUCTURES INVOLVED IN RESPONSE DEPENDENT OR INDEPENDENT REINFORCEMENT 646

R. Gálosi, C. Szalay, M. Aradi, J. Pál, G. Perlaki, A. Schwarz, L. Lénárd, Z. Karádi *(Pécs, Hungary)*

F080 **SUN 6/7/2014, 12:15 - FENS-1158**

INHIBITORY AVOIDANCE LEARNING IS ASSOCIATED WITH ALTERED EXPRESSION OF GENES INVOLVED IN NEURON-ASTROCYTE METABOLIC COUPLING 647

G. Grenningloh, M. Tadi, S. Lengacher, I. Allaman, P. Magistretti *(Lausanne, Switzerland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F081 **SUN 6/7/2014, 11:15 - FENS-2678**

SINGLE-NEURON OPERANT CONDITIONING BY TWO-PHOTON IMAGING INDUCES REWARD-TIMING-DEPENDENT BIDIRECTIONAL MODULATIONS IN CORTICAL MICROCIRCUIT 648

R. Hira, F. Ohkubo, Y. Masamizu, M. Ohkura, J. Nakai, T. Okada, M. Matsuzaki *(Okazaki, Aichi, Japan)*

F082 **SUN 6/7/2014, 12:15 - FENS-1666**

THE EFFECT OF PERINATALLY SUPPLEMENTED FLAVONOIDS ON COGNITION, BRAIN METABOLISM, AND NEUROHISTOLOGY IN C57BL/6J MICE 649

C. Janssen, V. Zerbi, M.P.C. Mutsaers, A. Heerschap, E.A.F. Van Tol, G. Gross, J.R. Homberg, B.M. Berg, A.J. Kiliaan *(Nijmegen, The Netherlands)*

F083 **SUN 6/7/2014, 11:15 - FENS-1050**

MAPPING ACTIVITY PATTERNS FOR CONTEXTUAL AND RECOGNITION MEMORY FOLLOWING REMOVAL OF THE HIPPOCAMPUS OR PERIRHINAL CORTEX IN RATS 650

L. Kinnavane, E. Amin, C. Olarte-Sanchez, M. Horne, J.P. Aggleton *(Cardiff, United Kingdom)*

F084 **SUN 6/7/2014, 12:15 - FENS-1801**

IN VIVO IMAGING OF CA1 NEURONAL ENSEMBLES AFTER MEMORY ACQUISITION AND RETRIEVAL IN APPSWE/PSEN1DE9 MICE 651

S. Kleiber, L. Schmid, J. Steffen, B. Schmidt, D. Ehninger, M. Fuhrmann *(Bonn, Germany)*

G01: GENOMICS AND PROTEOMICS

G001 **SUN 6/7/2014, 11:15 - FENS-0921**

FLIES IN TRANSLATION - CELL-TYPE SPECIFIC METABOLIC LABELING OF NEWLY SYNTHESIZED PROTEOMES IN DROSOPHILA 652

I. Erdmann, A. Müller, S. Niehus, O. Kobler, P. Landgraf, E. Storkebaum, U. Thomas, D.C. Dieterich *(Magdeburg, Germany)*

G002 **SUN 6/7/2014, 12:15 - FENS-1609**

IDENTIFICATION AND CLASSIFICATION OF STIMULI-INDUCED TRANSCRIPTIONAL VARIANTS AND NON-CODING RNAS IN THE MOUSE BRAIN 653

S. Golda, M. Piechota, R. Przewlocki, M. Korostynski *(Krakow, Poland)*

G003 **SUN 6/7/2014, 11:15 - FENS-1253**

IDENTIFICATION AND CHARACTERIZATION OF COFACTORS OF THE TRANSCRIPTION FACTOR SERUM RESPONSE FACTOR IN THE MOUSE BRAIN 654

C. Meyer zu Reckendorf, B. Knoell *(Ulm, Germany)*

G004 **SUN 6/7/2014, 12:15 - FENS-1571**

ANALYSING ASTROGLIAL PROTEOME DYNAMICS AND ITS CONTRIBUTION TO NEURONAL SIGNALLING 655

A. Mueller, P. Landgraf, C.F. Freitag, D.C. Dieterich *(Magdeburg, Germany)*

G005 **SUN 6/7/2014, 11:15 - FENS-0126**

IDENTIFICATION OF PHOSPHORYLATION-DEPENDENT RIM1A PROTEIN INTERACTIONS 656

A. Oprisoreanu, A. Müller, S. Schoch *(Bonn, Germany)*

G006 **SUN 6/7/2014, 12:15 - FENS-2982**

COMPARISON OF SIX COMMERCIAL ELISA KITS FOR HUMAN BDNF DETECTION 657

A. Polacchini, R. Francavilla, G. Metelli, G. Baj, D. Carlino, E. Tongiorgi *(Trieste, Italy)*

G007 **SUN 6/7/2014, 11:15 - FENS-3148**

LARGE SCALE QUANTITATIVE PROTEOMIC ANALYSIS IN HUMAN POSTMORTEM CEREBELLUM TISSUE IN SCHIZOPHRENIA 658

G. Riquelme, J. Villén, R. Pinacho, L.F. Callado, J.J. Meana, B. Ramos *(Barcel, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G008 **SUN 6/7/2014, 12:15 - FENS-2198**
MOLECULAR DIVERSIFICATION OF NEURONAL SURFACE RECEPTORS BY EXTENSIVE COMBINATORIAL ALTERNATIVE SPLICING 659
D. Schreiner, T.M. Nguyen, G. Russo, S. Heber, A. Patrignani, P. Scheiffele *(Basel, Switzerland)*

G009 **SUN 6/7/2014, 11:15 - FENS-3250**
A METABOLOMIC STUDY IN A MOUSE MODEL OF ADULT ONSET HYPOTHYROIDISM REVEALS SIGNIFICANT DIFFERENCES AMONG BRAIN REGIONS 660
C. Vasilopoulou, C. Maga-Nteve, M. Margarity, M. Klapa *(Patras, Greece)*

G026 **SUN 6/7/2014, 11:15 - FENS-0009**
SOME BIOCHEMICAL FEATURES OF CALF BRAIN CYTOSOL GLCNAC-, GAL-, MAN-SPECIFIC LECTINS 661
T. Macharadze *(Georgia, Tbilisi)*

G02: COMPUTATION, MODELLING, DATA ANALYSIS AND SOFTWARE

G010 **SUN 6/7/2014, 12:15 - FENS-2333**
DONDERS IS DEAD: CORTICAL TRAVELING WAVES AND THE LIMITS OF MENTAL CHRONOMETRY IN NEUROSCIENCE 662
D. Alexander *(Leuven, Belgium)*

G011 **SUN 6/7/2014, 11:15 - FENS-2813**
AUTOMATIC SEGMENTATION OF DEEP INTRACEREBRAL ELECTRODES IN COMPUTED TOMOGRAPHY SCANS FOR THE SUPPORT OF EPILEPSY SURGERY 663
G. Arnulfo, M. Narizzano, F. Cardinale, M.M. Fato *(Genoa, Italy)*

G012 **SUN 6/7/2014, 12:15 - FENS-2145**
AXON-SOMATIC BACK-PROPAGATION IN DETAILED MODELS OF SPINAL MOTONEURONS 664
P. Balbi, S. Martinoia, P. Massobrio *(Pavia, Italy)*

G013 **SUN 6/7/2014, 11:15 - FENS-0550**
FAST AND ACCURATE FITTING OF NOISY EXPONENTIALS AND FILTERING IN LEGENDRE SPACE 665
G. Bao, D. Schild *(Goettingen, Germany)*

G014 **SUN 6/7/2014, 12:15 - FENS-3214**
THE SI ELEGANS PROJECT - CAENORHABDITIS ELEGANS AS A BLUEPRINT FOR THE DESIGN OF BIOLOGICALLY INSPIRED, BRAIN-LIKE PARALLEL PROCESSING HARDWARE ARCHITECTURES 666
A. Blau, F. Callaly, S. Cawley, A. Coffey, A. De Mauro, G. Epelde, L. Ferrara, F. Krewer, C. Liberale, P. Machado, G. Maclair, M. McGinnity, F. Morgan, A. Mujika, A. Petrushin *(Genoa, Italy)*

G015 **SUN 6/7/2014, 11:15 - FENS-1943**
ALTERED TEMPORAL DYNAMICS OF EEG MICROSTATE SEQUENCES DURING PHARMACOLOGICALLY INDUCED LOSS OF CONSCIOUSNESS 667
J. Britz, J. Maillard, M. Tomescu, D. Van De Ville, C. Lysakowski, C. Michel, M. Tramer *(Geneva, Switzerland)*

G016 **SUN 6/7/2014, 12:15 - FENS-1141**
NOVEL STRATEGY TO PREVENT ALPHA-SYNUCLEIN OLIGOMERIC SPECIE THROUG HEPARIN-INDUCED GAPDH PROTOFIBRILS 668
R. Chehin, C.L. Avila, C.M. Torres-Bugeau, L.S. Barbosa, E. Morande-Sales, O. Ouidja, S.B. Socias, D. Papy-Garcia, R. Itri, R.I.T.A. Raisman-Vozari *(Tucuman, Argentina)*

G017 **SUN 6/7/2014, 11:15 - FENS-1668**
THE FIRST EDITION OF THE OPOSSUM, MONODELPHIS DOMESTICA BRAIN ATLAS 669
N. Chlodzinska, P. Majka, T. Banasik, R.L. Djavadian, W.P. Weglarz, D. Wójcik, K. Turlejski *(Warszawa, Poland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G018 **SUN 6/7/2014, 12:15 - FENS-3154**
CALCIUM CURRENT MAKES LIF NEURON WITH CONDUCTANCE SYNAPSES A BETTER COINCIDENCE DETECTOR 670
Y. Chua, A. Morrison, M. Helias *(Jülich, Germany)*

G019 **SUN 6/7/2014, 11:15 - FENS-3700**
ANALYSIS OF MITOCHONDRIAL BIOGENESIS AND MATURATION IN THE IPSC MODEL DURING NEURONAL DIFFERENTIATION 671
C. Compagnucci, A. Celluzzi, L. Da Sacco, S. Petrini, E. Bertini, G. Zanni, A. Masotti *(Rome, Italy)*

G020 **SUN 6/7/2014, 12:15 - FENS-2090**
CURRENT SOURCE DENSITY ESTIMATION OF SINGLE NEURONS 672
D. Cserpan, D. Wojcik, Z. Somogyvari *(Budapest, Hungary)*

G021 **SUN 6/7/2014, 11:15 - FENS-0570**
LARGE EEG DATA ANALYSIS FOR ESTIMATING MICROSTATES AT REST IN SENSOR AND SOURCE SPACE 673
A. Custo, D. Van De Ville, M.I. Tomescu, C.M. Michel *(Geneva, Switzerland)*

G022 **SUN 6/7/2014, 12:15 - FENS-2900**
A DIMENSIONALITY-REDUCTION APPROACH FOR THE REPRESENTATION OF COMPLEX WHOLE-BRAIN IMAGING DATA - APPLICATION TO OPTIC FLOW PROCESSING IN THE ZEBRAFISH BRAIN 674
M. Dal Maschio, H. Baier *(Martinsried, Germany)*

G023 **SUN 6/7/2014, 11:15 - FENS-1206**
TREASURES FROM CAJAL AND DE CASTRO OPEN TO THE WORLD: UPDATE OF A PROJECT ON THE HISTORY OF NEUROSCIENCE 675
D. Fernando, M.A. Merchán, J. DeFelipe, A. Oliviero, G. Foffani *(Toledo, Spain)*

G024 **SUN 6/7/2014, 12:15 - FENS-2924**
THE G PROTEIN-COUPLED RECEPTOR HETERODIMER NETWORK (GPCR-HETNET) AND ITS HUB COMPONENTS 676
M. Di Palma, D.O. Borroto-Escuela, I. Brito, W. Romero-Fernandez, J. Oflijan, K. Skieterska, J. Duchou, K. Van Craenenbroeck, D. Súarez-Boomgaard, A. Rivera, D. Guidolin, L.F. Agnati, K. Fuxe *(Stockholm, Sweden)*

G025 **SUN 6/7/2014, 11:15 - FENS-3281**
MONITORING SLEEP IN THE AGE OF SMARTPHONES: A VALIDATION PROCEDURE OF ACCELEROMETRIC DEVICES 677
U. Faraguna, U. Olcese, M. Di Galante, T. Banfi, P. D'Ascanio, E. Bonanni *(Pisa, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

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13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A05: DEVELOPMENTAL CELL DEATH

A001 **SUN 6/7/2014, 13:30 - FENS-3284**

P53-INDEPENDENT AND P53-DEPENDENT MECHANISMS IN MICROCEPHALY INDUCED BY CITRON KINASE MUTATION 678

F. Bianchi, Y.J. Chang, M. Gai, F. Sgro', N. El Assawi, F. Neri, D. Incarnato, S. Oliviero, W. Huttner, F. DiCunto *(Torino, Italy)*

A002 **SUN 6/7/2014, 14:30 - FENS-0510**

LITHIUM INDUCES EXPRESSION OF GENES PROTECTING BRAIN CELLS FROM APOPTOSIS AND ATTENUATES NEGATIVE GLUCOCORTICOID EFFECTS ON BEHAVIOR IN NEONATAL RATS 679

N. Dygalo, T.S. Kalinina, E.V. Sukhareva, P.N. Menshanov *(Novosibirsk, Russia)*

A003 **SUN 6/7/2014, 13:30 - FENS-1745**

EFFECT OF SELECTIVE ASTROCYTE DAMAGE ON AXONAL FUNCTION IN RAT OPTIC NERVE 680

H. HamaAmeen, A.M.J. Young *(Leicester, United Kingdom)*

A004 **SUN 6/7/2014, 14:30 - FENS-3734**

WNT PATHWAY DOWNREGULATION IS A COMMON FEATURE OF CORNELIA DE LANGE SYNDROME 681

V. Massa, G. Fazio, L.R. Bettini, A. Cereda, L. Ferrari, F. Cotelli, A. Biondi, A. Selicorni, A. Pistocchi *(Milan, Italy)*

A005 **SUN 6/7/2014, 13:30 - FENS-2102**

TROPHIC ACTIONS OF BDNF AND NMDA ARE MEDIATED BY REACTIVE OXYGEN SPECIES IN CULTURED CEREBELLAR GRANULE NEURONS 682

J. Moran, E. Avendaño-Guzman, M. Olguin-Albuerne *(Mexico City, Mexico)*

A06: DEVELOPMENT OF NEURAL SYSTEMS - MOTOR SYSTEMS

A006 **SUN 6/7/2014, 14:30 - FENS-3659**

ASSOCIATIVE AREAS AND CEREBELLUM SHOW NON-LINEAR MODULATION OF FMRI SIGNAL ESPECIALLY WHEN USING NON-DOMINANT HAND 683

A. Alahmadi, R. Samson, D. Gasston, M. Pardini, K. Friston, E. D'Angelo, A. Toosy, C. Wheeler-Kingshott *(London, United Kingdom)*

A007 **SUN 6/7/2014, 13:30 - FENS-2205**

BRAIN ACTIVATION CHANGES IN HEMIPLEGIC CEREBRAL PALSY CHILDREN AFTER A ROBOTIC ASSISTED REHABILITATION THERAPY WITH GAIT TRAINER 684

C. Cacciatori, S. Tamburin, P. Bonetti, S. Baldessarelli, A. Picelli, N. Cardobi, R. Cerini, R. Pozzi Mucelli *(Lavarone, Italy)*

A008 **SUN 6/7/2014, 14:30 - FENS-1101**

ACETYLCHOLINE CONTROLS INTERNEURON-DRIVEN GIANT DEPOLARIZING POTENTIALS THAT GOVERN SPONTANEOUS MOTONEURON ACTIVITY IN THE MOUSE EMBRYONIC SPINAL CORD 685

A. Czarnecki, H. Le Corronc, R. Chiara, B. Le Bras, F. Couraud, A.L. Scain, A.E. Allain, J.M. Mangin, P. Branchereau, P. Legendre *(Paris, France)*

A009 **SUN 6/7/2014, 13:30 - FENS-3651**

PHYSIOLOGICAL AND ANATOMICAL CHARACTERISATION OF DESCENDING DOPAMINERGIC NEURONS IN THE DEVELOPING ZEBRAFISH 686

M. Jay, J.R. McDearmid *(Leicester, United Kingdom)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A010 **SUN 6/7/2014, 14:30 - FENS-0875**

DEFINING A NOVEL SUBSET OF MESENCEPHALIC DERIVED CEREBELLAR NUCLEI NEURONS 687

H. Marzban, M. Rahimi Balaei, K. Bailey *(Winnipeg, Canada)*

A07: DEVELOPMENT OF NEURAL SYSTEMS - OTHER NEURAL SYSTEMS

A011 **SUN 6/7/2014, 13:30 - FENS-1614**

CONTRIBUTION OF CONNEXIN-43 DURING FGF8 PLANAR MORPHOGENTIC ACTIVITY OF MOUSE ISTHMIC ORGANIZER 688

A. Andreu, S. Martínez, D. Echevarría *(San Juan de Alicante, Spain)*

A012 **SUN 6/7/2014, 14:30 - FENS-3633**

A NEW TEMPLATE TO STUDY CALLOSAL GROWTH 689

J. Ansado, L. Collins, V. Fonov, M. Garon, A. Evans, M. Beauchamp *(Montreal, Canada)*

A013 **SUN 6/7/2014, 13:30 - FENS-0476**

NEONATAL STRESS EFFECTS ON LARYNGEAL CHEMOREFLEX IN ANESTHETIZED RAT PUPS 690

C. Baldy, S. Fournier, R. Kinkead *(Québec, Canada)*

A014 **SUN 6/7/2014, 14:30 - FENS-0818**

CHOLINERGIC MODULATION BY PRENATAL STRESS EXPOSURE 691

S. Borges, B. Coimbra, C. Soares-Cunha, A.P. Ventura-Silva, L. Pinto, M.M. Carvalho, J.M. Pego, N. Sousa, A.J. Rodrigues *(Braga, Portugal)*

A015 **SUN 6/7/2014, 13:30 - FENS-0112**

NEONATAL ERYTHROPOIETIN OVEREXPRESSION INFLUENCES THE MATURATION OF THE CENTRAL RESPIRATORY COMMAND AND ITS RESPONSE TO HYPOXIA 692

C. Caravagna, J. Soliz *(Québec, Canada)*

A016 **SUN 6/7/2014, 14:30 - FENS-1993**

ALLELE-SPECIFIC ABNORMALITIES OF CEREBELLAR NEUROGENESIS IN TWO ZFP423 DELETION MUTANTS 693

L. Croci, C. Bosone, G. Bergamini, P. Podini, A. Quattrini, A. Badaloni, A. Pagani, L. Politi, J. Sarna, R. Hawkes, S. Warming, G.G. Consalez *(Milan, Italy)*

A017 **SUN 6/7/2014, 13:30 - FENS-2877**

IDENTIFICATION AND CHARACTERIZATION OF MIRNAS INVOLVED IN MIDBRAIN DOPAMINERGIC NEURONS DIFFERENTIATION AND FUNCTION 694

R. De Gregorio, F. Volpicelli, C. De Sanctis, R. Esposito, C. Perrone-Capano, U. Di Porzio, M. Li, G.C. Bellenchi *(Naples, Italy)*

A018 **SUN 6/7/2014, 14:30 - FENS-3479**

VOLUMETRIC PARAMETERS OF THALAMOCORTICAL DEVELOPMENT IN TERM AND PRETERM CHILDREN 695

V. Galkowski, M. Raguz, D. Mandic, I. Nikic, M. Rados *(Zagreb, Croatia)*

A020 **SUN 6/7/2014, 14:30 - FENS-3584**

DEFICITS IN CEREBELLAR GRANULE CELL DIFFERENTIATION AND SOCIAL INTERACTIONS IN IAP/CD47 KNOCKOUT MICE 696

C. Hsieh, W.T. Chang, Y.C. Lee, A.M. Huang *(Tainan, Taiwan)*

A021 **SUN 6/7/2014, 13:30 - FENS-2647**

ROLE OF IMMUNE SYSTEM-RELATED GENES IN SYNAPSE FORMATION AND SPECIFICITY IN THE OLIVO-CEREBELLAR NETWORK 697

K. Iyer, A. Usardi, S. Sigoillot, M. Talleur, J.P. Doyle, E. Schmidt, N. Heintz, F. Selimi *(Paris, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A022 **SUN 6/7/2014, 14:30 - FENS-3353**

THE IMPACT OF BRAIN TRAINING ON CREATIVE THINKING: CAN WE MANIPULATE OUR BRAINS AND OUR LEVEL OF CREATIVE INSIGHT? 698

S. Langley *(Randwick, Australia)*

A023 **SUN 6/7/2014, 13:30 - FENS-1005**

DEVELOPMENT OF SPECKS IN THE ADULT SUBVENTRICULAR ZONE NEURAL STEM CELL NICHE 699

E. Lee, W.R. Kim, W. Sun *(Seoul, Korea)*

A024 **SUN 6/7/2014, 14:30 - FENS-3165**

PIRIMICARB AFFECTS THE CELL PROLIFERATION IN IMMATURE THREE-DIMENSIONAL BRAIN CELL CULTURES 700

E. Petrovova, L. Luptakova, J. Danko *(Kosice, Slovakia)*

A08: EPIGENETIC FACTORS (HORMONES, NUTRITION, EXPERIENCE)

A025 **SUN 6/7/2014, 13:30 - FENS-1521**

IMMEDIATE AND LONG-TERM EFFECTS OF HISTONE DEACETYLASE INHIBITION AT EARLY POSTNATAL PERIOD IN 129SV MICE 701

O. Burenkova, E.A. Aleksandrova, I.Y. Zarayskaya *(Moscow, Russia)*

A026 **SUN 6/7/2014, 14:30 - FENS-0232**

EFFECTS OF DURATION OF HYPERTHERMIC HYPOXIA ON NEONATAL RATS BASED ON MOTOR FUNCTION AND IMMUNOHISTOCHEMICAL STAINING AFTER GROWTH 702

T. Hosono, Y. Nishimura, M. Arakawa, M. Nakamoto, K. Akasaka, K. Minato *(Shijonawate, Japan)*

A027 **SUN 6/7/2014, 13:30 - FENS-2488**

C-FOS AND EGR1 EXPRESSION IN THE FOREBRAIN OF THE NEWBORN MICE 703

A. Ivanova, A. Lazutkin, K. Anokhin, I. Zarayskaya *(Moscow, Russia)*

A028 **SUN 6/7/2014, 14:30 - FENS-1337**

EPIGENETIC REGULATION OF HIPPOCAMPAL FUNCTION AND NEUROGENESIS AFTER CHRONIC EARLY-LIFE STRESS, A ROLE FOR NUTRITION? 704

E. Naninck, L. Hoeijmakers, K. Yam, P.J. Lucassen, A. Korosi *(Amsterdam, The Netherlands)*

A029 **SUN 6/7/2014, 13:30 - FENS-0278**

EFFECT OF HYPERTHERMIA ON MOTOR FUNCTION OF ADULT RATS AFTER NEONATAL HYPOXIC-ISCHEMIC ENCEPHALOPATHY 705

Y. Nishimura, K. Minato, T. Hosono *(Shijounawate, Japan)*

A030 **SUN 6/7/2014, 14:30 - FENS-0758**

PROGRAMMING OF GENOME-WIDE PROMOTER DNA METHYLATION IN SEROTONIN TRANSPORTER DEFICIENT MICE BY PRENATAL STRESS 706

K. Schraut, S.B. Jakob, M.T. Weidner, A.G. Schmitt, C.J. Scholz, N. El Hajj, L.M.T. Eijssen, G. Ortega, K.P. Lesch, D.L. Van den Hove *(Wuerzburg, Germany)*

A031 **SUN 6/7/2014, 13:30 - FENS-3306**

CHARCTERIZATION OF A NOVEL PHOSPHORYLATION SITE OF MECP2 THAT MIGHT BE INVOLVED IN NEURONAL MORPHOGENESIS AND CHROMATIN RELATED FUNCTIONS 707

G. Stefanelli, C. Kilstrup Nielsen, N. Landsberger *(Busto Arsizio, Italy)*

A032 **SUN 6/7/2014, 14:30 - FENS-2371**

STRESS IN FEMALE RATS LEADS TO CHANGES IN RNA EDITING PATTERNS OF THE SEROTONIN RECEPTOR 5HT2CR IN OFFSPRING 708

H. Zaidan, Y.N. Golumbic, I. Gaisler-Salomon *(Haifa, Israel)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A033 **SUN 6/7/2014, 13:30 - FENS-1862**

POLYCOMB REPRESSIVE COMPLEX 1 IN HUMAN GLIOBLASTOMA 709

B. Zografos, A. Bogeas, J. Lipecka, A. Dias-Morais, M. Goodhardt, H. Chneiweiss, M.P. Junier *(Paris, France)*

A09: TRANSPLANTATION AND REGENERATION - TRANSPLANTATION

A034 **SUN 6/7/2014, 14:30 - FENS-2809**

DEVELOPMENT AND MATURATION OF CORTICAL EMBRYONIC NEURONS GRAFTED INTO THE DAMAGED ADULT MOTOR CORTEX 710

N. Ballout, I. Frappe, S. Peron, M. Jaber, K. Zibara, A. Gaillard *(Poitiers, France)*

A035 **SUN 6/7/2014, 13:30 - FENS-2975**

FUNCTIONAL RECOVERY FOLLOWING DELAYED VERSUS IMMEDIATE TRANSPLANTATION WITHIN THE ADULT LESIONED MOTOR CORTEX IN MICE 711

M. Benoit-Marand, S. Péron, M. Jaber, A. Gaillard *(Poitiers, France)*

A036 **SUN 6/7/2014, 14:30 - FENS-3175**

DELAYING CORTICAL TRANSPLANTATION IMPROVES THE OUTCOME OF THE GRAFT 712

A. Gaillard, S. Peron, M. Droguerre, F. Debarbieux, N. Ballout, S. Brot, M. Francheteau, P. Weber, G. Rougon, M. Jaber *(Poitiers, France)*

A037 **SUN 6/7/2014, 13:30 - FENS-2662**

GENETIC REPROGRAMMING OF SKIN FIBROBLASTS INTO FUNCTIONAL GABAERGIC INTERNEURONS 713

G. Colasante, G. Lignani, L. Medrihan, A. Sessa, M. Caiazzo, S. Giannelli, D. Leo, A. Dahl, F. Benfenati, V. Broccoli *(Milan, Italy)*

A038 **SUN 6/7/2014, 14:30 - FENS-1079**

RECONSTRUCTION OF MIDBRAIN DOPAMINE PATHWAYS IN THE ADULT RAT BRAIN USING DOPAMINE NEURONS DERIVED FROM HUMAN EMBRYONIC STEM CELLS 714

S. Grealish, B. Mattsson, A. Kirkeby, A. Björklund, M. Parmar *(Lund, Sweden)*

A039 **SUN 6/7/2014, 13:30 - FENS-0307**

INDUCED NEURAL STEM CELLS ACHIEVE LONG-TERM SURVIVAL AND FUNCTIONAL INTEGRATION IN THE ADULT BRAIN 715

K. Hemmer, M. Zhang, T. Van Wüllen, M. Sakalem, N. Tapia, A. Baumuratov, C. Kaltschmidt, B. Kaltschmidt, H. Schöler, W. Zhang, J. Schwamborn *(Esch-Sur-Alzette, Luxembourg)*

A040 **SUN 6/7/2014, 14:30 - FENS-3361**

NEONATAL DESENSITIZATION ALLOWS FOR THE LONG-TERM SURVIVAL OF HUMAN EMBRYONIC STEM CELL NEURAL TRANSPLANTS WITHOUT THE NEED OF IMMUNE SUPPRESSION 716

A. Heuer, A. Kirkeby, M. Jönsson, M. Parmar *(Lund, Sweden)*

A041 **SUN 6/7/2014, 13:30 - FENS-1765**

ANTAGONIZATION OF NOGO-RECEPTOR 1 IN COMBINATION WITH NT4/5 ADMINISTRATION LEADS TO HIGHER DOPAMINERGIC CELL DENSITIES AS COMPARED TO SINGLE FACTOR TREATMENT 717

S. Seiler, D. Pollini, S. Di Santo, H.R. Widmer *(Bern, Switzerland)*

B09: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - MONOAMINES

B001 **SUN 6/7/2014, 13:30 - FENS-3518**

THE ROLE OF EXERCISE OR MUSIC ON DOPAMINERGIC BRAIN FUNCTIONS 718

K. Akiyama, D. Sutoo *(Tsukuba, Japan)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B002 **SUN 6/7/2014, 14:30 - FENS-2004**
COMPARATIVE ANALYSIS OF SEROTONERGIC MODULATORY PROJECTIONS ASSOCIATED WITH FEEDING IN REPRESENTATIVES OF MOLLUSCS AND ANNELIDS 719
M. Alania *(Tbilisi, Georgia)*

B003 **SUN 6/7/2014, 13:30 - FENS-0427**
PHARMACOLOGICAL CHARACTERIZATION OF THE SEROTONERGIC SYSTEM INVOLVED IN THE REGULATION OF FEEDING RHYTHM OF THE SNAIL, LYMNAEA STAGNALIS (MOLLUSCA, GASTROPODA) 720
I. Battonyai, E. Voronezhskaya, G. Balog, M. Khabarova, L. Hiripi, K. Elekes *(Tihany, Hungary)*

B004 **SUN 6/7/2014, 14:30 - FENS-0492**
CALCIUM BINDING PROTEINS NCS-1 AND CALNEURON INTERACT AND MODULATE STRIATAL ADENOSINE A2A-DOPAMINE D2 RECEPTOR HETEROMERS SIGNALING 721
G. Navarro, D. Aguinaga, E. Moreno, M. Mikhaylova, E. Angelats, A. Cortés, J. Mallol, V. Casadó, C. Lluís, P.J. McCormick, M. Kreutz, E.I. Canela *(Barcelona, Spain)*

B005 **SUN 6/7/2014, 13:30 - FENS-0366**
TPH2 GENE DELETION ENHANCES SPONTANEOUS AND AMPHETAMINE-INDUCED LOCOMOTION:EFFECT OF 5-HT RESTORATION AND ROLE OF CATECHOLAMINES 722
M. Carli, C. Kostoula, G. Sacchetti, P. Mainolfi, A. Di Clemente, A. Anastasia, C. Villani, R.W. Invernizzi *(Milan, Italy)*

B006 **SUN 6/7/2014, 14:30 - FENS-1662**
PRESYNAPTIC CROSSTALK BETWEEN KAPPA OPIOID AND DOPAMINE D2 RECEPTORS IN THE NUCLEUS ACCUMBENS 723
A. Escobar, M.P. Gonzalez, K. Gysling, R.A. España, M.E. Andres *(Santiago, Chile)*

B007 **SUN 6/7/2014, 13:30 - FENS-3190**
DOPAMINE-DEPENDENT REGULATION OF HDAC EXPRESSION IN STRIATUM 724
S. Espinoza, G. Ronzitti, C. Magagnotti, A. Contestabile, L. Mus, E. Chieregatti, A. Bachi, R.R. Gainetdinov *(Genova, Italy)*

B008 **SUN 6/7/2014, 14:30 - FENS-3212**
DENDRITIC GEOMETRY CONTROLS THE EFFICACY OF CAMP SIGNALING FROM SYNAPSES TO NUCLEUS 725
N. Gervasi, L. Li, J.A. Girault *(Paris, France)*

B009 **SUN 6/7/2014, 13:30 - FENS-3135**
INVERTED-U EFFECT OF MONOAMINERGIC NEUROMODULATION IN BRAIN EXPLAINED BY COMBINED ACTION OF INHIBITORY AND EXCITATORY RECEPTORS 726
A. Gjedde *(Copenhagen, Denmark)*

B010 **SUN 6/7/2014, 14:30 - FENS-0551**
CONTROL OF MEMBRANE POTENTIAL IN MEDIAL PREFRONTAL CORTEX (MPFC) PYRAMIDAL NEURONS BY ALPHA-2 ADRENERGIC RECEPTORS IN YOUNG RATS 727
K. Grzelka, B. Szulczyk, P. Szulczyk *(Warsaw, Poland)*

B011 **SUN 6/7/2014, 13:30 - FENS-0918**
DOPAMINE TRANSPORTER KNOCKOUT RATS: NEW MODEL FOR DOPAMINE RELATED DISEASES 728
D. Leo, P. Illiano, I. Sukhanov, L. Mus, S. Espinoza, T. Sotdnikova, R. Gainetdinov *(Genova, Italy)*

B012 **SUN 6/7/2014, 14:30 - FENS-0953**
TPH2 GENE DELETION ENHANCES SPONTANEOUS AND AMPHETAMINE-INDUCED LOCOMOTION: EFFECT OF 5-HT RESTORATION AND ROLE OF CATECHOLAMINES 729
C. Mirjana, C. Kostoula, G. Sacchetti, P. Mainolfi, A. Di Clemente, A. Anastasia, C. Villani, R.W. Invernizzi *(Milan, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B10: LIGAND GATED ION CHANNELS - GLUTAMATE RECEPTORS

B013 **SUN 6/7/2014, 13:30 - FENS-1520**
STRESS EFFECTS IN THE STRIATUM 730
M. Arp, H. Krugers, M. Joëls, M. Oitzl *(Amsterdam, The Netherlands)*

B014 **SUN 6/7/2014, 14:30 - FENS-1008**
TIME-OF-DAY DEPENDENT CHANGES IN NMDAR SUBUNITS AT INTRATHALAMIC SYNAPSES 731
S. Astori, A. Lüthi *(Lausanne, Switzerland)*

B015 **SUN 6/7/2014, 13:30 - FENS-1026**
MODULATION OF MOLECULAR SUBSTRATES OF THALAMIC SLEEP RHYTHMS THROUGH SYNAPTIC NMDA RECEPTORS 732
C. Pellegrini, A. Lüthi, S. Astori *(Lausanne, Switzerland)*

B016 **SUN 6/7/2014, 14:30 - FENS-1282**
THE SEARCHING OF MOLECULAR MECHANISM OF ANALGESIC AND ANTIPRURITIC ACTION OF ANTIDEPRESSANTS AND ANTIPSYCHOTICS 733
O. Barygin, E. Nagaeva, N. Shestakova, D. Belinskaya, N. Vanchakova, D. Tikhonov *(Saint-Petersburg, Russia)*

B017 **SUN 6/7/2014, 13:30 - FENS-0474**
INFLUENCE OF CKAMP44 ON AMPA RECEPTOR NUMBER AND FUNCTION IN RELAY NEURONS OF THE LATERAL GENICULATE NUCLEUS 734
X. Chen, P.A. Farrow, M. Aslam, J. Von Engelhardt *(Heidelberg, Germany)*

B018 **SUN 6/7/2014, 14:30 - FENS-1245**
GLUTAMATE INDUCED AMPA RECEPTOR DESENSITIZATION INCREASE THEIR MOBILITY AND MODULATE SHORT TERM PLASTICITY 735
D. Choquet, A. Constals, A.C. Penn, A.S. Hafner, N. Retailleau, E. Hosy *(Bordeaux, France)*

B019 **SUN 6/7/2014, 13:30 - FENS-1635**
AMPA RECEPTOR INTRACELLULAR TRAFFICKING; FROM ER TO PLASMA MEMBRANE 736
F. Coussen-Choquet, C. Renancio, J. Petersen, D. Choquet *(Bordeaux, France)*

B020 **SUN 6/7/2014, 14:30 - FENS-2476**
IMPACT OF THE WNT NON-CANONICAL SIGNALING PATHWAY ON AMPA RECEPTORS SYNAPTIC ENRICHMENT 737
C. Montecinos, A.S. Hafner, D. Choquet, N.C. Inestrosa *(Santiago, Chile)*

B021 **SUN 6/7/2014, 13:30 - FENS-1559**
GLUN2B-CONTAINING NMDA RECEPTORS REGULATE AMPA RECEPTOR TRAFFIC THROUGH ANCHORING OF THE SYNAPTIC PROTEASOME 738
J. Ferreira, P. Rio, K.W. Li, A.M. Craig, A.L. Carvalho *(Coimbra, Portugal)*

B022 **SUN 6/7/2014, 14:30 - FENS-3174**
AXOTOMY INCREASES THE RELATIVE CONTENT OF NR2B-CONTAINING NMDARS IN NEONATAL HYPOGLOSSAL MOTONEURONS: POSSIBLE INVOLVEMENT IN THE REMOVAL OF SYNAPTIC INPUTS 739
D. González-Forero, V. Garcia-Morales, G. Rodríguez-Bey, B. Moreno-López, L. Rubio *(Cádiz, Spain)*

B023 **SUN 6/7/2014, 13:30 - FENS-2256**
FUNCTIONAL INTERACTION OF CPT1C WITH AMPA RECEPTORS IN EXPRESSION SYSTEMS 740
E. Gratacòs-Batlle, N. Yefimenko, D. Soto *(Llobregat, Spain)*

B024 **SUN 6/7/2014, 14:30 - FENS-1944**
MOLECULAR MECHANISMS INVOLVED IN TARP REGULATION OF CALCIUM-PERMEABLE AMPA RECEPTORS 741
D. Soto del Cerro, I.D. Coombs, E. Gratacòs-Batlle, M. Farrant, S.G. Cull-Candy *(Barcelona, Spain)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B025 **SUN 6/7/2014, 13:30 - FENS-0959**

ENCODING SYNAPTIC GLUN2A-CONTAINING NMDA RECEPTOR ACTIVATION: THE ROLE OF RING FINGER PROTEIN 10 742

F. Guzzetti, M.C. Dinamarca, D. Lim, N. Mitro, E. Marcello, A. Burguiere, A. Caldarelli, A.A. Gennazzani, J. Perroy, L. Fagni, P.L. Canonico, F. Gardoni, M. Di Luca *(Milano, Italy)*

B026 **SUN 6/7/2014, 14:30 - FENS-2801**

STOICHIOMETRY AND PHOSPHOISOTYPES OF HIPPOCAMPAL AMPA TYPE GLUTAMATE RECEPTOR PHOSPHORYLATION 743

Y. Hayashi, D. Mitsushima, T. Hosokawa *(Wako, Saitama, Japan)*

B027 **SUN 6/7/2014, 13:30 - FENS-3654**

GRIP1 INTERLINKS N-CADHERIN AND AMPA RECEPTORS AT VESICLES TO PROMOTE COMBINED CARGO TRANSPORT INTO DENDRITES 744

F. Heisler, H.K. Lee, K.V. Gromova, Y. Pechmann, B. Schurek, T.J. Hausrat, L. Ruschkies, M. Schroeder, M. Schweizer, M. Kneussel *(Hamburg, Germany)*

B028 **SUN 6/7/2014, 14:30 - FENS-2690**

ANALYZING CYCLOTHIAZIDE AND A RELATED POSITIVE ALLOSTERIC MODULATOR ON RECOMBINANT AMPA RECEPTORS AND IN HIPPOCAMPAL SYNAPSES 745

M. Holm, G.B. Christiansen, K. Jensen, A.H. Gouliaev, S.E. Hede, J. Egebjerg *(Århus, Denmark)*

B029 **SUN 6/7/2014, 13:30 - FENS-2873**

REGULATION OF THE EARLY PROCESSING OF NMDA RECEPTORS BY N-GLYCOSYLATION 746

M. Horak, K. Lichnerova, M. Kaniakova, Y.H. Suh *(Prague 4 - Krc, Czech Republic)*

B030 **SUN 6/7/2014, 14:30 - FENS-1835**

SODIUM DIFFUSION ALONG DENDRITES OF CENTRAL NEURONS 747

C. Kleinhans, K.W. Kafitz, C.R. Rose *(Düsseldorf, Germany)*

B031 **SUN 6/7/2014, 13:30 - FENS-0710**

SURFACE DYNAMIC OF AMPA RECEPTORS AT ASPINY NEURONS IS NOT AFFECTED BY EXTRACELLULAR MATRIX 748

J. Klyueva, E.D. Gundelfinger, R. Frischknecht, M. Heine *(Magdeburg, Germany)*

B11: ION CHANNELS - CALCIUM CHANNELS

B032 **SUN 6/7/2014, 14:30 - FENS-1985**

HUMAN NATIVE CAV1 CHANNELS IN CHROMAFFIN CELLS: CONTRIBUTION TO EXOCYTOSIS AND CELL EXCITABILITY 749

A. Albillos, A. Hernandez-vivanco, B. Carmona-hidalgo, A. Perez-alvarez, J. Caba-gonzalez, A. Tabernero, S. Alonso Y Gregorio, J. Passas, J. Blazquez *(Madrid, Spain)*

B033 **SUN 6/7/2014, 13:30 - FENS-0341**

DIFFERENTIAL DISTRIBUTION OF PRESYNAPTIC P/Q-TYPE CALCIUM CHANNELS IN HIPPOCAMPAL BASKET CELLS 750

D. Althof, D. Baehrens, M. Watanabe, B. Fakler, A. Kulik *(Freiburg, Germany)*

B034 **SUN 6/7/2014, 14:30 - FENS-1043**

ILLUMINATING THE IMPORTANCE OF DIFFERENT L-TYPE CALCIUM CHANNELS IN THE RETINA 751

V. Burtscher, B. Pöhn, C. Kugler, J. Striessnig, G.J. Obermair, K.W. Schicker, A. Koschak *(Vienna, Austria)*

B035 **SUN 6/7/2014, 13:30 - FENS-1964**

ROLE OF VOLTAGE-GATED CALCIUM CHANNELS IN SPONTANEOUS RECURRENT CORTICAL ACTIVITY 752

C. Capuani, A. Tottene, D. Pietrobon *(Padova, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B036 **SUN 6/7/2014, 14:30 - FENS-1236**

LEUCINE RICH REPEAT KINASE 2 (LRRK2) REGULATES CAV2.1 CALCIUM CHANNEL FUNCTION 753

S. Condliffe, C.S. Sears, C. Bedford, G. Piccoli *(Dunedin, New Zealand)*

B037 **SUN 6/7/2014, 13:30 - FENS-0574**

CAV-BK(CA)-NOS - THE INTERPLAY BETWEEN TWO CHANNELS AND AN ENZYME 754

C. Constantin, M.G. Leitner, C.S. Müller, U. Schulte, D. Oliver, B. Fakler *(Freiburg, Germany)*

B038 **SUN 6/7/2014, 14:30 - FENS-1956**

DIFFERENTIAL EFFECT OF FAMILIAL HEMIPLEGIC MIGRAINE MUTATIONS ON EXCITATORY AND INHIBITORY SYNAPTIC TRANSMISSION BETWEEN CORTICAL PYRAMIDAL CELLS AND SOMATOSTATIN-EXPRESSING INTERNEURONS 755

A. Forli, N. Pilati, M. Sessolo, D. Pietrobon *(Padova, Italy)*

B039 **SUN 6/7/2014, 13:30 - FENS-3219**

TRAFFIC OF THE T-TYPE CALCIUM CHANNEL CAV3.2 IN DRG NEURONS 756

C. Fürst, O. Pongs, E. Bourinet, M. Heine *(Magdeburg, Germany)*

B040 **SUN 6/7/2014, 14:30 - FENS-1106**

HYPOXIA-ELICITED MEMBRANE DEPOLARISATION, CA2+ TRANSIENTS AND CATECHOLAMINE RELEASE IN RAT EMBRYO CHROMAFFIN CELLS ARE MAINLY CONTROLLED BY L-TYPE CALCIUM CHANNELS 757

A. G. García, J.C. Fernández-Morales, J.F. Padín, J.A. Arranz-Tagarro, S. Vestring, A. G. de Diego *(Madrid, Spain)*

B041 **SUN 6/7/2014, 13:30 - FENS-2331**

BRAIN STRUCTURE ANALYSIS AND PHENOTYPIC CHARACTERIZATION OF CALCIUM CHANNEL ALPHA-2-DELTA SUBUNIT DOUBLE KNOCKOUT MOUSE MODELS 758

S. Geisler, C.L. Schöpf, C. Schwarzer, N. Stefanova, G.J. Obermair *(Innsbruck, Austria)*

B042 **SUN 6/7/2014, 14:30 - FENS-1116**

CAV1.4 IT MOUSE AS MODEL FOR VISION IMPAIRMENT IN HUMAN CONGENITAL STATIONARY NIGHT BLINDNESS TYPE 2 759

D. Knoflach, V. Kerov, S. Sartori, G. Obermair, C. Schmuckermair, X. Liu, V. Sothilingam, M. Garriodo, S. Baker, M. Glösmann, K. Schicker, M. Seeliger, A. Lee, A. Koschak *(Vienna, Austria)*

B12: TRANSPORTERS - OTHER

B043 **SUN 6/7/2014, 13:30 - FENS-1829**

ALTERED ACTIN POLYMERIZATION AND AMPA RECEPTOR TRAFFIC UPON SUPPRESSION OF THE KCC2 TRANSPORTER 760

Q. Chevy, M. Heubl, I. Moutkine, E. Eugene, S. Lévi, J.C. Poncer *(Paris, France)*

B044 **SUN 6/7/2014, 14:30 - FENS-3609**

STRUCTURAL DETERMINANTS OF NEURONAL K+-CL- CO-TRANSPORTER KCC2 SURFACE TARGETING 761

P. Friedel, A. Ludwig, C. Rivera, C. Pellegrino, I. Medina *(Marseille, France)*

B045 **SUN 6/7/2014, 13:30 - FENS-1647**

SYNAPTIC INHIBITION REGULATES THE MEMBRANE DYNAMICS OF THE KCC2 TRANSPORTER 762

M. Heubl, Q.C. Chevy, I.M. Moutkine, S.L. Levi *(Paris, France)*

B046 **SUN 6/7/2014, 14:30 - FENS-0349**

TRANSFORMING GROWTH FACTOR BETA 1 DIFFERENTLY AFFECTS MOLECULAR AND ELECTROPHYSIOLOGICAL PROPERTIES OF CEREBELLAR GRANULE CELLS AND HIPPOCAMPAL NEURONS 763

K. Jasková, D. Jurkovicova, M. Pavlovicova, L. Lichvarova, L. Lacinova *(Bratislava, Slovakia)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B047 **SUN 6/7/2014, 13:30 - FENS-0628**

REGULATION OF NATIVE-KCC2 FUNCTION AND CHLORIDE HOMEOSTASIS BY COMPONENTS OF EXCITATORY NEUROTRANSMISSION 764

V. Mahadevan, J.C. Pressey, B.A. Acton, P. Uvarov, E.A. Ivakine, M.S. Airaksinen, M.A. Woodin *(Toronto, Canada)*

B048 **SUN 6/7/2014, 14:30 - FENS-0819**

THE ROLE OF KCC2 INTERACTING PARTNERS IN MAINTAINING STABILITY AND FUNCTION AT THE MEMBRANE 765

J. Pressey, V. Mahadevan, B. Acton, M.A. Woodin *(Toronto, Canada)*

B049 **SUN 6/7/2014, 13:30 - FENS-3403**

FAST AND REVERSIBLE AXON INITIAL SEGMENT DISASSEMBLY TRIGGERED BY NA+/CA2+ EXCHANGER AFTER BRIEF ISCHEMIA 766

C. Serra, A. Alcázar, M.I. Ayuso, C.H. Henneberger, R. Padmashri, D.A. Rusakov, R.S. Scott

(Sant Joan d'Alacant, Spain)

B050 **SUN 6/7/2014, 14:30 - FENS-1463**

MAPKS REGULATE THE EXPRESSION AND ACTIVITY OF THE ISOFORMS OF THE NA+/CA2+ EXCHANGER, NCX1, NCX2, AND NCX3 IN PC12 CELLS 767

R. Sirabella, A. Secondo, A. Pannaccione, P. Molinaro, L. Formisano, N. Guida, G. Di Renzo,

L. Annunziato, M. Cataldi *(Genova, Italy)*

B051 **SUN 6/7/2014, 13:30 - FENS-0768**

HIGH BICARBONATE SENSITIVITY AND CYTOPLASMIC PROTON BUFFER STRENGTH OF MOUSE CORTICAL ASTROCYTES MEDIATED BY THE ELECTROGENIC SODIUM-BICARBONATE CO TRANSPORTER NBCE1 768

S. Theparambil, J. Deitmer *(Kaiserslautern, Germany)*

B052 **SUN 6/7/2014, 14:30 - FENS-2597**

NCC, THE 'KIDNEY SPECIFIC' SODIUM-CHLORIDE COTRANSPORTER IS EXPRESSED IN THE BRAIN AND MODULATES FEAR EXTINCTION 769

F. Turpin, J. Spampanato, R.K.P. Sullivan, F. Windels, Y. Sun, S. Hunt, P. Sah *(St Lucia, Australia)*

B13: SYNAPSES - ELECTRICAL SYNAPSES AND GAP JUNCTIONS

B053 **SUN 6/7/2014, 13:30 - FENS-3697**

DEVELOPMENT OF NETWORK CONNECTIVITY IN HUMAN PLURIPOTENT STEM CELL DERIVED NEURAL NETWORKS 770

M. Mäkinen, L. Ylä-Outinen, D. Fayuk, S. Narkilahti *(Tampere, Finland)*

B14: SYNAPTIC PLASTICITY - LTP: POSTSYNAPTIC MECHANISMS

B054 **SUN 6/7/2014, 14:30 - FENS-1166**

PRIMING OF GABAERGIC LONG-TERM POTENTIATION MEDIATED BY MUSCARINIC RECEPTORS ACTIVATION 771

J. Ahumada, M. Moreno, K. Morales, C. Bonansco, M. Fuenzalida *(Valparaíso, Chile)*

B055 **SUN 6/7/2014, 13:30 - FENS-2714**

MOLECULAR PATHWAY TO LONG TERM POTENTIATION AT PARALLEL FIBER TO PURKINJE SYNAPSES 772

F. Binda, M. Kano, K. Sakimura, P. Isope *(Strasbourg, France)*

B056 **SUN 6/7/2014, 14:30 - FENS-1724**

EFFECTS OF ENZYMATIC REMOVAL OF CHONDROITIN SULFATES ON NEURAL EXCITABILITY AND SYNAPTIC PLASTICITY IN THE HIPPOCAMPAL CA1 REGION 773

Y. Dembitskaya, I. Song, M. Doronin, A. Dityatev, A. Semyanov *(Saitama, Japan)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B057 **SUN 6/7/2014, 13:30 - FENS-0523**

PERSISTENT CAMKII ACTIVATION MEDIATES LEARNING-INDUCED LONG-LASTING ENHANCEMENT OF SYNAPTIC INHIBITION 774

S. Ghosh, R. Lamprect, E. Barkai *(Haifa, Israel)*

B058 **SUN 6/7/2014, 14:30 - FENS-3169**

SPLICING OF ARC 3'UTR EXERTS OPPOSITE EFFECTS ON ARC PROTEIN EXPRESSION UPON BDNF STIMULATION 775

C. Giorgi, M.T. Ciotti, C. Catalanotto, A. Cattaneo, C. Cogoni *(Rome, Italy)*

B059 **SUN 6/7/2014, 13:30 - FENS-1336**

NOGO-A SIGNALING MODULATES ACTIVITY-DEPENDENT FUNCTIONAL PLASTICITY IN THE MOUSE HIPPOCAMPUS 776

C. Iobbi, M.E. Schwab, M. Zagrebelsky, M. Korte *(Braunschweig, Germany)*

B060 **SUN 6/7/2014, 14:30 - FENS-0680**

EXPRESSION OF HEPARANASE 1 AND HEPARANASE 2 AT THE HIPPOCAMPUS 777

W. Lau, W.C. Cham, C.W. Ma, Y.S. Chan, D.K.Y. Shum *(Hong Kong, China)*

B061 **SUN 6/7/2014, 13:30 - FENS-1431**

REPETITIVE MAGNETIC STIMULATION INDUCES PLASTICITY OF EXCITATORY POSTSYNAPSES ON PROXIMAL DENDRITES OF CULTURED MOUSE CA1 PYRAMIDAL NEURONS 778

M. Lenz, S. Platschek, V. Priesemann, D. Becker, L.M. Willems, U. Ziemann, T. Deller, F. Müller-Dahlhaus, P. Jedlicka, A. Vlachos *(Frankfurt, Germany)*

B062 **SUN 6/7/2014, 14:30 - FENS-2405**

CORTICAL PHOTOTHROMBOTIC STROKE AFFECTS SYNAPTIC PLASTICITY AND EXCITABILITY IN RAT HIPPOCAMPUS 779

K. Lippmann, L. Kamintsky, S.Y. Kim, S. Sublinsky, D. Kaufer, U. Heinemann, A. Friedman *(Berlin, Germany)*

B15: SYNAPTIC PLASTICITY - STRUCTURAL PLASTICITY

B063 **SUN 6/7/2014, 13:30 - FENS-0456**

INFLUENCE OF CD44 ADHESION MOLECULE ON DENDRITIC SPINE MORPHOLOGY AND SYNAPTIC TRANSMISSION 780

M. Babraj, T. Wojtowicz, M. Kisiel, A. Konopka, A. Skupien, J. Mozrzymas, J. Wlodarczyk, G. Wilczynski, J. Dzwonek *(Warsaw, Poland)*

B064 **SUN 6/7/2014, 14:30 - FENS-1031**

SEROTONERGIC SIGNALING AND EXTRACELLULAR MATRIX IN STRUCTURAL PLASTICITY OF DENDRITIC SPINES 781

M. Bijata, J. Dzwonek, E. Ponimaskin, L. Kaczmarek, J. Wlodarczyk *(Warsaw, Poland)*

B065 **SUN 6/7/2014, 13:30 - FENS-1277**

TAU PHOSPHORYLATION ASSOCIATED SPINE REGRESSION DOES NOT IMPAIR HIPPOCAMPAL DEPENDENT MEMORY IN HIBERNATING HAMSTERS 782

T. Bullmann, G. Seeger, J.T. Stieler, T. Treutlein, I. Hilbrich, M. Holzer, A. Alpár, T. Arendt *(Kobe, Japan)*

B066 **SUN 6/7/2014, 14:30 - FENS-1755**

LONG-TERM MEMORY-INDUCED STRUCTURAL SYNAPTIC PLASTICITY IN THE MOUSE AUDITORY CORTEX 783

E. Calcagno, N. Morello, B. Sacchetti, M. Giustetto *(Torino, Italy)*

B067 **SUN 6/7/2014, 13:30 - FENS-1484**

CONDITIONAL DELETION OF PTEN AFFECTS PURKINJE CELL SURVIVAL AND RESPONSE TO INJURY 784

D. Carulli, A. Faralli, D. Cupolillo, F. Rossi *(Orbassano, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B068 **SUN 6/7/2014, 14:30 - FENS-3334**
ROUGHNESS DISCRIMINATION IN THE GAP CROSSING TEST AFTER UNILATERAL FOCAL CORTICAL STROKE 785
D. Chodkowska, J. Jablonka, E. Fuszara *(Warszawa, Poland)*

B069 **SUN 6/7/2014, 13:30 - FENS-0562**
THE RELATIVE PARTS OF SPECIFIC ACTIVITY HISTORIES AND SPONTANEOUS PROCESSES IN SYNAPTIC REMODELING IN EX-VIVO NETWORKS OF CORTICAL NEURONS 786
R. Dvorkin *(Haifa, Israel)*

B070 **SUN 6/7/2014, 14:30 - FENS-0849**
PERINEURONAL NET MODIFICATIONS AND STRUCTURAL PLASTICITY IN THE VESTIBULAR NUCLEI OF ADULT MICE DURING VESTIBULAR COMPENSATION 787
A. Faralli, F. Dagna, R. Albera, F. Rossi, D. Carulli *(Turin, Italy)*

B071 **SUN 6/7/2014, 13:30 - FENS-2066**
KNOCKDOWN OF DYSTROGLYCAN DISRUPTS NEURONAL MORPHOLOGY AND DENDRITIC SPINE PLASTICITY 788
I. Figiel, M. Bijata, J. Wlodarczyk, L. Kaczmarek *(Warsaw, Poland)*

B072 **SUN 6/7/2014, 14:30 - FENS-0381**
GLYCOSAMINOGLYCAN FORMS IN THE AGEING EXTRACELLULAR MATRIX 789
S. Foscarin, J.W. Fawcett, J.C.F. Kwok *(Cambridge, United Kingdom)*

B073 **SUN 6/7/2014, 13:30 - FENS-1780**
A NEW AUTOMATED 3D DETECTION OF SYNAPTIC CONTACTS REVEALS THE FORMATION OF CORTICO-STRIATAL SYNAPSES UPON COCAINE TREATMENT IN VIVO 790
N. Heck, M. Dos Santos, B. Amairi, M. Salery, A. Besnard, E. Herzog, T. Boudier, P. Vanhoutte, J. Caboche *(Paris, France)*

B074 **SUN 6/7/2014, 14:30 - FENS-3766**
NEUROPLASTIN BALANCES THE NUMBER AND FUNCTION OF EXCITATORY AND INHIBITORY SYNAPSES 791
R. Herrera-Molina, I. Sarto-Jackson, C. Montenegro-Venegas, M. Heine, K.H. Smalla, P.W. Beesley, C.I. Seidenbecher, E.D. Gundelfinger, D. Montag *(Magdeburg, Germany)*

B075 **SUN 6/7/2014, 13:30 - FENS-3172**
GLYCOGEN SYNTHASE KINASE-3 REGULATES SYNAPTIC MATRIX METALOPROTEINASE-9 792
T. Jaworski, I. Kondratiuk, F. Van Leuven, L. Kaczmarek *(Warsaw, Poland)*

B076 **SUN 6/7/2014, 14:30 - FENS-2362**
CHRONIC FLUOXETINE TREATMENT ALTERS THE STRUCTURE, CONNECTIVITY AND PLASTICITY OF CORTICAL INTERNEURONS 793
N. Juan Salvador, R. Guirado, M. Perez-Rando, E. Castren *(Valencia, Spain)*

B077 **SUN 6/7/2014, 13:30 - FENS-1007**
FEAR LEARNING INDUCES STRUCTURAL PLASTICITY AND CHANGES SUBUNIT COMPOSITION AT GABAERGIC SYNAPSES IN THE BASOLATERAL AMYGDALA 794
Y. Kasugai, H. Hörtnagl, R. Shigemoto, W. Sieghart, N. Singewald, A. Lüthi, F. Ferraguti *(Innsbruck, Austria)*

B078 **SUN 6/7/2014, 14:30 - FENS-3340**
MULTI-INNERVATED DENDRITIC SPINES IN MEMORY FORMATION IN AGEING 795
I. Kraev, K. Mizuno, H.A. Davies, K.P. Giese, M.G. Stewart *(Milton Keynes, United Kingdom)*

B079 **SUN 6/7/2014, 13:30 - FENS-1547**
THE FORMATION AND MAINTENANCE OF POSTSYNAPTIC GEPHYRIN/GABAA RECEPTOR CLUSTERS IN HIPPOCAMPAL NEURONS IS DEPENDENT ON CYCLIN DEPENDENT KINASE ACTIVITY 796
J. Kuhse, H. Kalbouneh, A. Schlicksupp, J. Kirsch *(Heidelberg, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B080 **SUN 6/7/2014, 14:30 - FENS-0334**

PULSED MAGNETIC FIELD STIMULATION IMPROVES TOPOGRAPHY OF ABNORMAL VISUAL CORTICAL CIRCUITS AND UPREGULATES BDNF EXPRESSION 797

K. Makowiecki, A.R. Harvey, J. Rodger *(Crawley, Australia)*

B16: NETWORK INTERACTIONS - OSCILLATIONS AND SYNCHRONY

B081 **SUN 6/7/2014, 13:30 - FENS-3236**

SPONTANEOUS TRANSIENTS IN THE RAT DENTATE GYRUS 798

M. Anderson, U. Heinemann *(Berlin, Germany)*

B082 **SUN 6/7/2014, 14:30 - FENS-1404**

OPTOGENETIC CONTROL OF THETA OSCILLATIONS IN BEHAVING MICE 799

F. Bender, M. Gorbati, T. Korotkova, A. Ponomarenko *(Berlin, Germany)*

B083 **SUN 6/7/2014, 13:30 - FENS-1485**

COORDINATION OF INNATE BEHAVIOURS BY GABAERGIC CELLS IN LATERAL HYPOTHALAMUS 800

M. Carus-Cadavieco, M. Gorbati, A. Ponomarenko, T. Korotkova *(Berlin, Germany)*

B084 **SUN 6/7/2014, 14:30 - FENS-2112**

JOINT REGULATION OF DEFENSIVE BEHAVIOR AND CIRCULATORY RESPONSES BY HYPOTHALAMIC CIRCUITS 801

X. Gao, T. Korotkova, A. Ponomarenko *(Berlin, Germany)*

B085 **SUN 6/7/2014, 13:30 - FENS-2001**

PANEL REGRESSION MODELING OF OPTOGENETIC INTERROGATION OF NETWORK OSCILLATIONS 802

M. Gorbati, F. Bender, T. Korotkova, A. Ponomarenko *(Berlin, Germany)*

B086 **SUN 6/7/2014, 14:30 - FENS-2957**

GAMMA-RHYTHMIC SIGNALING BETWEEN MEDIAL PREFRONTAL CORTEX AND LATERAL SEPTUM IN BEHAVING MICE 803

T. Korotkova, C. Börgers, N. Denisova, N.J. Kopell, A. Ponomarenko *(Berlin, Germany)*

B087 **SUN 6/7/2014, 13:30 - FENS-1809**

RESONANCE PROPERTIES OF THE PERIRHINAL NEURONS IN THE MOUSE 804

N. Binini, C. Maniezzi, F. Talpo, Y. Yanagawa, P. Spaiardi, M. Toselli, G. Biella *(Pavia, Italy)*

B088 **SUN 6/7/2014, 14:30 - FENS-0149**

OSCILLATORY ENTRAINMENT OF SYNAPTIC ACTIVITY PROVIDES A FRAMEWORK FOR THETA-GAMMA NETWORK SYNCHRONY IN THE PREFRONTAL CORTEX OF NEONATAL RATS 805

S. Bitzenhofer, K. Sieben, K. Siebert, I. Hanganu-Opatz *(Hamburg, Germany)*

B089 **SUN 6/7/2014, 13:30 - FENS-3626**

DISRUPTED HIPPOCAMPAL SHARP WAVE RIPPLE-ASSOCIATED SPIKE DYNAMICS IN A TRANSGENIC MOUSE MODEL OF DEMENTIA 806

J. Brown, J. Witton, L.E. Staniaszek, A.D. Randall, M.W. Jones *(Exeter, United Kingdom)*

B090 **SUN 6/7/2014, 14:30 - FENS-0434**

ALTERED SLEEP PATTERN IN OF PHOSPHOLIPASE C BETA 4-DEFICIENT MICE 807

E. Cheong, J. Lee, J. Hong, H.S. Shin *(Seoul, Korea)*

B091 **SUN 6/7/2014, 13:30 - FENS-3376**

SPONTANEOUS AND EVOKED POPULATION BURSTS: HISTORY-DEPENDENT RESPONSE, DIFFERENTIAL ROLE OF NEURONAL ADAPTATION AND SYNAPTIC SHORT-TERM DEPRESSION AND TIME SCALES INFERENCE 808

P. Del Giudice, G. Gigante, G. Deco *(Rome, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B092 **SUN 6/7/2014, 14:30 - FENS-0086**

BIOELECTRICAL NATURE OF EXTRACELLULAR INFRASLOW BRAIN POTENTIAL OSCILLATIONS: EVIDENCES FROM COMBINED ACUTE RECORDINGS IN FRONTAL NEOCORTEX OF THE RAT 809

I. Filippov, K.S. Pugachev, A.A. Krebs, E.V. Zyuzin *(Yaroslavl, Russia)*

B093 **SUN 6/7/2014, 13:30 - FENS-1912**

IDENTIFYING AND CHARACTERIZING NEURAL OSCILLATIONS IN THE HUMAN SENSORIMOTOR SYSTEM ON THE BASIS OF A NEW RHYTHMICITY MEASURE 810

A. Fransen, F. Van Ede, E. Maris *(Nijmegen, The Netherlands)*

B094 **SUN 6/7/2014, 14:30 - FENS-3355**

EXTRACTING PHASE-COUPLED OSCILLATORY NETWORKS FROM ELECTROPHYSIOLOGICAL DATA 811

E. Maris, J. Jacobs, R. Van der Meij *(Nijmegen, The Netherlands)*

B095 **SUN 6/7/2014, 13:30 - FENS-1576**

A SINGLE CELL TYPE IN THE MEDIAL SEPTUM LINKS INITIATION AND INTENSITY OF MOVEMENT TO HIPPOCAMPAL THETA FREQUENCY 812

F. Fuhrmann, D. Justus, H. Kaneko, L. Sosulina, T. Beutel, D. Friedrichs, A. Gauchel, S. Schoch-McGovern, M. Fuhrmann, S. Remy *(Bonn, Germany)*

B096 **SUN 6/7/2014, 14:30 - FENS-3529**

PREFRONTAL OSCILLATORY NEURAL ACTIVITY IS MODULATED BY THE ACTIVATION OF THE PARAFASCICULAR NUCLEUS OF THE THALAMUS 813

G. Guillazo-Blanch, M. Ruiz-Mejias, L. Perez-Méndez, M.V. Sánchez-Vives *(Barcelona, Spain)*

B097 **SUN 6/7/2014, 13:30 - FENS-3056**

PHASE LOCKING WITH ARBITRARY PHASE SHIFT OF TWO SYNAPTICALLY COUPLED SPIKING NEURONS 814

S. Gordleeva, A.Y.U. Simonov, A.N. Pisarchik, V.B. Kazantsev *(Nizhny Novgorod, Russia)*

C12: PARKINSON'S DISEASE - CELLULAR DYSFUNCTION MECHANISMS

C001 **SUN 6/7/2014, 13:30 - FENS-2140**

PARKINSONIAN SYMPTOMS ARE REDUCED BY KV4 CHANNEL INHIBITION IN RATS 815

S. Aidi-Knani, I. Regaya, M. Amalric, C. Mourre *(Marseille, France)*

C002 **SUN 6/7/2014, 14:30 - FENS-3397**

STRESS-INDUCED CHANGES IN PROTEOLYTIC AND BIOENERGETIC MARKERS IN FIBROBLASTS FROM PATIENTS WITH SPORADIC AND GLUCOCEREBROSIDASE-RELATED PARKINSON'S DISEASE 816

G. Ambrosi, C. Ghezzi, M. D'Eletto, R. Zangaglia, C. Pacchetti, P.G. Mastroberardino, F. Blandini *(Pavia, Italy)*

C003 **SUN 6/7/2014, 13:30 - FENS-0873**

NATURAL PHENOLICS PROTECT FROM LRRK2-INDUCED NEURONAL OXIDATIVE STRESS IN DROSOPHILA MODELS OF PARKINSON'S DISEASE 817

D.C. Angeles *(Singapore, Singapore)*

C004 **SUN 6/7/2014, 14:30 - FENS-1428**

GRP78 CLUSTERING AT THE CELL SURFACE OF NEURONS TRANSDUCES THE ACTION OF EXOGENOUS ALPHA-SYNUCLEIN 818

S. Bellani, A. Mescola, G. Ronzitti, C. Canale, F. Valtorta, E. Chieregatti *(Milan, Italy)*

C005 **SUN 6/7/2014, 13:30 - FENS-2038**

ALPHA-SYNUCLEIN AND ION HOMEOSTASIS - SOLUBLE AGGREGATES OF ALPHA-SYNUCLEIN STIMULATES ENDOPLASMIC RETICULUM CALCIUM ATP'ASE AND PERTURB CALCIUM HOMEOSTASIS 819

C. Betzer, J. Zheng, A. Stensballe, W.P. Gai, J.P. Andersen, P.H. Jensen *(Aarhus, Denmark)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C006 **SUN 6/7/2014, 14:30 - FENS-0807**
MONITORING PD-RELEVANT PHENOTYPES IN IPSC-DERIVED NEURONS FROM PARKINSON'S DISEASE PATIENTS 820
K. Bi, S. Hermanson, D. Thompson, K. Vogel, B. Schuele *(Madison, USA)*

C007 **SUN 6/7/2014, 13:30 - FENS-2195**
K27 UBIQUITINATION OF THE MITOCHONDRIAL TRANSPORT PROTEIN MIRO1 IS DEPENDENT ON SER65 OF PARKIN 821
N. Birsa, R. Norkett, H.C. Wu, T. Foltynie, K. Bhatia, H. Plun-Favreau, J. Kittler *(London, United Kingdom)*

C008 **SUN 6/7/2014, 14:30 - FENS-2999**
INFLUENCE OF ALPHA-SYNUCLEIN ON INTRACELLULAR LEVELS OF TRANSITION METALS 822
E. Carboni, S. Roudeau, L. Barski, A. Carmona, R. Ortega, M. Bähr, P. Lingor *(Göttingen, Germany)*

C009 **SUN 6/7/2014, 13:30 - FENS-2502**
NEURODEGENERATION IN PARKINSON'S DISEASE: COULD MICROTUBULES SOLVE THE ENIGMA? 823
F. Casagrande, D. Cartelli, A. Amadeo, D. Modena, M. Canesi, G. Pezzoli, G. Cappelletti *(Milano, Italy)*

C010 **SUN 6/7/2014, 14:30 - FENS-3660**
STUDIES OF IRON METABOLISM IMBALANCE AND ALTERATION OF CELL OXIDATIVE STATUS IN A L- FERRITIN VARIANT CAUSING NEUROFERRITINOPATHY 824
F. Cignarella, A. Cozzi, M. Tagliaferri, P. Santambrogio, M. Guaraldo, C. Fiorillo, E. Rovida, S. Levi *(Milan, Italy)*

C011 **SUN 6/7/2014, 13:30 - FENS-1882**
LRRK2 BINDS TO NEURONAL VESICLES THROUGH PROTEIN INTERACTIONS MEDIATED BY ITS C-TERMINAL WD40 DOMAIN 825
M. Cirnaru, F. Onofri, A. Marte, A. Kastenmüller, F. Pischedda, F. Von Zweydorf, P. Jagtap, F. Giesert, L. Pan, C. Sala, M. Ueffing, C.J. Gloeckner, G. Piccoli *(Milano, Italy)*

C012 **SUN 6/7/2014, 14:30 - FENS-2359**
MICROTUBULE DYSFUNCTION IN PARKIN-Q311X MICE 826
C. De Gregorio, F. Casagrande, A. Calogero, D. Cartelli, J. Sassone, G. Cappelletti *(Milano, Italy)*

C013 **SUN 6/7/2014, 13:30 - FENS-3311**
DEVELOPMENT AND CHARACTERIZATION OF HUMAN IPSC-DERIVED MIDBRAIN DOPAMINERGIC NEURONS FOR DRUG DISCOVERY 827
S. DeLaura, L. Chase, C. McMahon, J. Ma, N. Meyer, J. Grinager, C. Chavez, D. Hussey, B. Swanson, W.B. Wang *(Madison, USA)*

C014 **SUN 6/7/2014, 14:30 - FENS-2978**
CALBINDIN CONTENT AND DIFFERENTIAL VULNERABILITY OF MIDBRAIN EFFERENT DOPAMINERGIC NEURONS IN MONKEYS 828
I. Dopeso-Reyes, A.J. Rico, E. Roda, S. Sierra-San Nicolas, D. Pignataro, C. Morales-Aristregui, M. Lanz, D. Sucunza, L. Chang-Azancot, J.L. Lanciego *(Pamplona, Spain)*

C015 **SUN 6/7/2014, 13:30 - FENS-3721**
LMX1A AND LMX1B REGULATE SURVIVAL OF MIDBRAIN DOPAMINE NEURONS 829
H. Doucet-Beaupre, M. Lévesque *(Québec, Canada)*

C016 **SUN 6/7/2014, 14:30 - FENS-0945**
EXTRACELLULAR ALPHA-SYNUCLEIN ALTERS SYNAPTIC CONNECTIVITY 830
M. Emanuele, G. Russo, R. Marotta, S. Taverna, E. Chieregatti *(Genoa, Italy)*

C017 **SUN 6/7/2014, 13:30 - FENS-0534**
IMPAIRED MATURATION OF OLIGODENDROCYTE PRECURSORS IN MULTIPLE SYSTEM ATROPHY 831
B. Ettle, V.E.L. May, S. Reiprich, W. Xiang, B. Winner, M. Wegner, E. Masliah, J. Winkler *(Erlangen, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C018 **SUN 6/7/2014, 14:30 - FENS-3184**

ALPHA-SYNUCLEIN OLIGOMERS FAIL TO INDUCE SYNAPTIC DYSFUNCTION IN ADENOSINE A2A RECEPTOR KNOCKOUT-MICE 832

D. Ferreira, J.E. Coelho, V.L. Batalha, H.V. Miranda, F. Queiroz, J. Real, R.A. Cunha, L.V. Lopes, T.F. Outeiro *(Goettingen, Germany)*

C019 **SUN 6/7/2014, 13:30 - FENS-3137**

PARKINSON'S DISEASE GENES TRIGGER MICROGLIA SENSITIVITY TO DOPAMINE TOWARD NEUROTOXICITY 833

D. Frenkel, D. Trudler *(Tel Aviv, Israel)*

C020 **SUN 6/7/2014, 14:30 - FENS-1895**

CYTOKINES AND MEDIATORS OF THE IMMUNE RESPONSE IN THE HUMAN BRAIN: DYSREGULATION IN PARKINSON'S DISEASE 834

P. Garcia-Esparcia, F. Llorens, M. Carmona, I. Ferrer *(Llobregat, Spain)*

C021 **SUN 6/7/2014, 13:30 - FENS-0262**

FUNCTIONAL INTERACTION AND REGULATION OF PARKINSON DISEASE LINKED PINK1 BY NOVEL MITOCHONDRIAL M-AAA PROTEASE, AFG3L2 835

M. Haque, M.A. Seegobin, R. Farazifard, R.S. Slack, D. Figeys, D.S. Park *(Al-Ain, United Arab Emirates)*

C022 **SUN 6/7/2014, 14:30 - FENS-2446**

PROTEOMIC IDENTIFICATION OF ALPHA-SYNUCLEIN-AGGREGATE INTERACTING SYNAPTOSOMAL PROTEINS 836

P. Jensen, C. Betzer, A.J. Movius, M. Shi, J. Zhang *(Aarhus, Denmark)*

C023 **SUN 6/7/2014, 13:30 - FENS-0176**

PROTECTIVE EFFECTS OF OBESTATIN ARE MEDIATED BY PROLIFERATIVE RATHER THAN ANTI-APOPTOTIC PROPERTIES IN MES23.5 DOPAMINERGIC CELLS 837

H. Jiang, X. Shen, F. Jia, N. Song, J. Xie *(Qingdao, China)*

C024 **SUN 6/7/2014, 14:30 - FENS-2037**

AUTOPHAGY MODULATES ASYN RELEASE AND MICROENVIRONMENTAL RESPONSE 838

J. Klucken, A.M. Poehler, W. Xiang, H. Meixner, O. Marques, E. Rockenstein, T.F. Outeiro, E. Masliah, J. Winkler *(Erlangen, Germany)*

C025 **SUN 6/7/2014, 13:30 - FENS-0838**

EFFECTS OF ALPHA-SYNUCLEIN OVEREXPRESSION ON NEURITE INTEGRITY IN VITRO AND IN VIVO 839

J. Koch, J. Haack, F. Bitow, U. Michel, M. Bähr, P. Lingor *(Göttingen, Germany)*

C026 **SUN 6/7/2014, 14:30 - FENS-0769**

CORTICO-SUBTHALAMIC TRANSMISSION VIA NMDA RECEPTORS IS ESSENTIAL FOR THE GENESIS OF PARKINSONIAN LOCOMOTOR DEFICITS 840

C. Kuo, M. Pan, C. Tai, W. Liu *(Taipei, Taiwan)*

C13: MOTOR NEURON DISEASES

C027 **SUN 6/7/2014, 13:30 - FENS-1489**

ROLE OF NF-KAPPAB PATHWAY SIGNALING IN THE REGULATION OF SURVIVAL MOTOR NEURON PROTEIN IN SPINAL CORD MOTONEURONS 841

S. Arumugam, A. Periyakaruppiah, N. Bahi, A. Garcera, R.M. Soler *(Leida, Spain)*

C028 **SUN 6/7/2014, 14:30 - FENS-2110**

A "TRANSLATIONAL" APPROACH TO ALS: GENERATION OF A CHIMERIC RIBOSOMAL PROTEIN TO STUDY AXONAL PROTEIN SYNTHESIS IN MOTOR NEURON DISEASE 842

A. Badaloni, G. Viero, R. Arnese, M. Marchioretto, D. Peroni, P. Podini, F. Guarnieri, F. Valtorta, A. Quattrini, A. Quattrone, G.G. Consalez *(Milan, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C029 **SUN 6/7/2014, 13:30 - FENS-1429**

CONTRIBUTION OF MCP-1/CCR2 AXIS IN MOTOR NEURONAL PATHOLOGY OF AMYOTROPHIC LATERAL SCLEROSIS (ALS) 843

C. Bendotti, G. Nardo *(Milano, Italy)*

C030 **SUN 6/7/2014, 14:30 - FENS-0651**

MOTOR NEURON DEGENERATION AND NEUROMUSCULAR JUNCTION PLASTICITY FOLLOWING CHRONIC EXCITOTOXIN EXPOSURE TO THE SPINAL CORD 844

C. Blizzard, J.A. Clark, A.E. King, T.C. Dickson *(Hobart, Tasmania, Australia)*

C031 **SUN 6/7/2014, 13:30 - FENS-1553**

NANOVESICLES FROM MESENCHYMAL STEM CELLS: AN INNOVATIVE NON-CELL BASED THERAPEUTIC APPROACH FOR ALS? 845

R. Bonafede, M. Bonaconsa, I. Scambi, A. Farinazzo, B. Bonetti, R. Mariotti *(Verona, Italy)*

C032 **SUN 6/7/2014, 14:30 - FENS-2283**

ALTERED EXPRESSION PATTERNS OF NEURAL- AND CELL CYCLE-RELATED MIRNAS AND THEIR PREDICTED TARGET GENES IN G93A-SOD1 MOUSE BRAIN REGIONS 846

S. Bonanno, S. Marcuzzo, C. Barzago, P. Cavalcante, D. Kapetis, P. Bernasconi, R. Mantegazza *(Milan, Italy)*

C033 **SUN 6/7/2014, 13:30 - FENS-2017**

DIFFERENT CLEARANCE OF MUTANT MISFOLDED ALS PROTEINS IN MOTONEURONS AND MUSCLE 847

A. Boncoraglio, V. Crippa, R. Galbiati, P. Rusmini, E. Onesto, E. Giorgetti, R. Cristofani, M. Pennuto, S. Carra, A. Poletti *(Milan, Italy)*

C034 **SUN 6/7/2014, 14:30 - FENS-1667**

INHIBITION OF DYNEIN ATPASE ACTIVITY REDUCES AGGREGATES FORMATION OF MISFOLDED PROTEINS INVOLVED IN MOTONEURON DISEASES 848

R. Cristofani, E. Giorgetti, V. Crippa, A. Boncoraglio, P. Rusmini, A. Poletti *(Milano, Italy)*

C035 **SUN 6/7/2014, 13:30 - FENS-1919**

CYCLOPHILIN A GOVERNS TDP-43 FUNCTION AND ASSEMBLY IN HNRNP COMPLEXES 849

V. Bonetto, E. Lauranzano, S. Pozzi, R. Stucchi, L. Pasetto, T. Massignan, M. Mombrini, G. Nardo, C. Lunetta, M. Corbo, G. Mora, C. Bendotti *(Milano, Italy)*

C036 **SUN 6/7/2014, 14:30 - FENS-1089**

GROUP I METABOTROPIC GLUTAMATE RECEPTORS MODULATE GLUTAMATE EXOCYTOSIS IN A MOUSE MODEL OF ALS 850

T. Bonifacino, F. Giribaldi, M. Milanese, P.I.A. Rossi, A. Pittaluga, A. Puliti, C. Usai, G. Bonanno *(Genoa, Italy)*

C037 **SUN 6/7/2014, 13:30 - FENS-3392**

A NOVEL SPLICE VARIANT OF SIGMA-1 RECEPTOR (S1R) MAY BE INVOLVED IN MOTOR NEURON DEMISE OCCURRING IN AMYOTROPHIC LATERAL SCLEROSIS (ALS) 851

L. Bontempi, M. Peviani, M. Paolillo, G. Russo, A. Coatti, A. Petese, S. Collina, I. Ferrer, D. Curti *(Pavia, Italy)*

C038 **SUN 6/7/2014, 14:30 - FENS-0952**

SPG11 KNOCKOUT IN MOUSE MIMICS THE PHENOTYPE OBSERVED IN PATIENTS 852

J. Branchu, K.H. El-Hachimi, L. Sourd, M. Dumont, M. Vallucci, A. Brice, G. Stevanin, F. Darios *(Paris, France)*

C039 **SUN 6/7/2014, 13:30 - FENS-1056**

ALTERATIONS OF THE EXOCYTOTIC FUSION PORE AND ION CURRENTS IN CHROMAFFIN CELLS OF A MOUSE MODEL OF AMYOTROPHIC LATERAL SCLEROSIS 853

E. Calvo Gallardo, R. De Pascual, J.C. Fernandez Morales, M. Maroto, J.A. Arranz Tagarro, J.F. Padín, A.G. García *(Madrid, Spain)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C040 **SUN 6/7/2014, 14:30 - FENS-1806**
ELAV PROTEINS IN ALS: EXPRESSION AND LOCALIZATION 854
C. Cereda, P. Milani, M. Dell'Orco, M. Amadio, S. Gagliardi, O. Pansarasa, V. Sardone, M. Ceroni *(Pavia, Italy)*

C041 **SUN 6/7/2014, 13:30 - FENS-2251**
P2X7 ANTAGONISM IN A MOUSE MODEL OF AMYOTROPHIC LATERAL SCLEROSIS: GENDER DEPENDENCY 855
C. Cervetto, D. Frattaroli, G. Maura, M. Marcoli *(Genoa, Italy)*

C042 **SUN 6/7/2014, 14:30 - FENS-3662**
INTEGRATED PHENOTYPICAL CHARACTERIZATION OF THE HSOD1-G93A TRANSGENIC SWINE, A POTENTIAL ANIMAL MODEL FOR AMYOTROPHIC LATERAL SCLEROSIS (ALS) 856
C. Corona, P. Crociara, C. Bendotti, A. Botter, M.N. Chieppa, A. D'Angelo, R. Duchi, D. Formicola, S. Grifoni, R. Merletti, A. Rainoldi, C. Galli, C. Casalone *(Turin, Italy)*

C043 **SUN 6/7/2014, 13:30 - FENS-0252**
NICOTINE MEDIATES NEUROPROTECTION OF BRAINSTEM MOTONEURONS AGAINST ACUTE EXCITOTOXICITY 857
S. Corsini, A. Nistri *(Trieste, Italy)*

C044 **SUN 6/7/2014, 14:30 - FENS-0530**
ROLE OF SUMOYLATION IN AMYOTROPHIC LATERAL SCLEROSIS NEURODEGENERATION ASSOCIATED WITH SOD1 GENE MUTATIONS 858
A. Dangoumau, C. Veyrat-Durebex, H. Blasco, P. Corcia, C.R. Andres, P. Vourc'h *(Tours, France)*

C045 **SUN 6/7/2014, 13:30 - FENS-1925**
ENDOTHELIN-1 INDUCES DEGENERATION OF CULTURED MOTOR NEURONS: UNDERLYING MECHANISMS 859
S. D'antoni, E. Ranno, M.V. Catania *(Catania, Italy)*

C14: DEVELOPMENTAL DISORDERS

C046 **SUN 6/7/2014, 14:30 - FENS-2626**
SCREENING FOR GENETIC VARIANTS IN ATTENTION DEFICIT/HYPERACTIVITY DISORDER (ADHD) IN HIGHLY INBRED SAUDI ARABIAN FAMILIES 860
D. Abebe, A. Adi, F. Alnaemi, A. Magrashi, A. Tahir, M. Ghaziuddin, N. Al Tassan *(Riyadh, Saudi Arabia)*

C047 **SUN 6/7/2014, 13:30 - FENS-2878**
GABAPENTIN AND MEMANTINE REDUCE SPONTANEOUS EYE OSCILLATIONS IN ZEBRAFISH BELLADONNA MUTANT 861
M. Afthinos, G. Bertolini, D. Straumann, Y.Y. Huang *(Zurich, Switzerland)*

C048 **SUN 6/7/2014, 14:30 - FENS-2287**
TIME, NUMBER AND ATTENTION AND IN VERY LOW BIRTH WEIGHT CHILDREN 862
G. Anobile, F. Tinelli, M. Gori, D. Murphy, M. Bartoli, G. Cioni, D.C. Burr, C. Morrone *(Florence, Italy)*

C049 **SUN 6/7/2014, 13:30 - FENS-0103**
BENZODIAZEPINE BINDING SITE AND GABA-B RECEPTOR DENSITY IN THE CEREBELLAR CORTEX, BROCA'S AND WERNICKE'S AREAS IN INDIVIDUALS WITH AUTISM 863
G. Blatt, C. Clancy, A. Oblak *(Ellicott City, USA)*

C050 **SUN 6/7/2014, 14:30 - FENS-1693**
CORTICAL STRUCTURE ALTERATIONS IN P50 KNOCK-OUT MICE 864
S. Bonini, L. La Rosa, G. Ferrari-Toninelli, M. Premoli, G. Maccarinelli, P. Bettinsoli, M. Memo *(Brescia, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C051 **SUN 6/7/2014, 13:30 - FENS-0991**

FUNCTIONAL REORGANIZATION OF THE MEDIAL TEMPORAL LOBE MEMORY SYSTEM FOLLOWING NEONATAL HIPPOCAMPAL DAMAGE IN MONKEYS 865

L. Chareyron, P. Banta Lavenex, D.G. Amaral, P. Lavenex *(Fribourg, Switzerland)*

C052 **SUN 6/7/2014, 14:30 - FENS-3575**

A NEUROCHEMICAL STUDY OF THE POSTNATAL REELER MOUSE CEREBELLUM 866

C. Cocito, S. Alasia, A. Merighi, L. Lossi *(Grugliasco, Italy)*

C053 **SUN 6/7/2014, 13:30 - FENS-1369**

EXCITATORY GABAERGIC TRANSMISSION IMPAIRS SYNAPTIC PLASTICITY AND MEMORY IN DOWN SYNDROME 867

G. Deidda, M. Parrini, S. Naskar, I. Fernandez Bozarth, A. Contestabile, L. Cancedda *(Genova, Italy)*

C054 **SUN 6/7/2014, 14:30 - FENS-1927**

UNSTABLE DENDRITIC SPINES IN A MOUSE MODEL OF CDKL5 DISORDER 868

G. Della Sala, E. Putignano, G. Chelini, E. Calcagno, G. Ratto, E. Amendola, C.T. Gross, M. Giustetto, T. Pizzorusso *(Florence, Italy)*

C055 **SUN 6/7/2014, 13:30 - FENS-3435**

MAP6 REGULATES AXONAL GROWTH DURING BRAIN DEVELOPMENT AND IS REQUIRED FOR THE GROWTH-PROMOTING ACTIVITY OF SEMAPHORIN 3E ON SUBICCULAR NEURONS 869

J. Deloulme, S. Gory-Fauré, F. Mauconduit, S. Chauvet, C. Maucler, A. Deparis, E.L. Barbier, J. Brocard, F. Mann, A. Lahrech, A. Andrieux *(Grenoble , France)*

C056 **SUN 6/7/2014, 14:30 - FENS-1468**

A CELL MODEL FOR RETT SYNDROME SUITABLE FOR CHARACTERIZATION OF CELLULAR ALTERATIONS AND PRECLINICAL STUDIES 870

H. Diez, A. Tristán-Noguero, J. Armstrong, A. Garcia-Cazorla *(Barcelona, Spain)*

C057 **SUN 6/7/2014, 13:30 - FENS-3121**

MOLECULAR MECHANISMS OF DOMINANT AND RECESSIVE RETINAL DEGENERATIONS CAUSED BY MUTATIONS IN THE PHOTORECEPTOR-SPECIFIC NUCLEAR RECEPTOR PNR/NR2E3 871

P. Escher, D. Von Alpen, G. Venturini, T. Favez, D. Schorderet, A. Boulling *(Sion, Switzerland)*

C058 **SUN 6/7/2014, 14:30 - FENS-1049**

5-HT2A/2C RECEPTOR AGONIST PREVENTS REDUCTION OF SEROTONERGIC NEURONS IN RAPHE NUCLEI OF RAT OFFSPRING CAUSED BY MATERNAL ETHANOL INTAKE 872

Y. Fukui, T. Ishiguro, H. Sakata *(Tokushima, Japan)*

C059 **SUN 6/7/2014, 13:30 - FENS-1492**

A NOVEL GAMMA-SECRETASE INHIBITOR RESTORES NEURODEVELOMENTAL ALTERATIONS IN DOWN SYNDROME 873

A. Giacomini, F. Stagni, S. Trazzi, S. Guidi, E. Ragazzi, G. Basi, B.E.T.H. Brigham, E. Ciani, R. Bartesaghi *(Bologna, Italy)*

C060 **SUN 6/7/2014, 14:30 - FENS-2220**

CEREBELLAR FUNCTIONAL AND NEUROCHEMICAL ABNORMALITIES IN CDKL5-KO MICE 874

A. Giuliani, S. Sivilia, S. Beggiato, R. Torricella, C. Mangano, V.A. Baldassarro, L. Lorenzini, L. Giardino, L. Ferraro, L. Calzà *(Ozzano dell'Emilia, Italy)*

C061 **SUN 6/7/2014, 13:30 - FENS-2883**

MILD NEONATAL STRESS ALTERS THE EFFECT OF MTHFR DEFICIENCY ON BEHAVIORAL PHYNOTYPE AND HISTONE METHYLATION 875

H. Golan, N. Kezurer *(Beer-Sheva, Israel)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C062 **SUN 6/7/2014, 14:30 - FENS-3715**
CHARACTERIZATION OF CALCIUM BINDING PROTEINS (CABPS) KNOCKOUTS WITH SPECIAL EMPHASIS ON AUTISTIC-LIKE TRAITS 876
M. Grabowska, J.J. Barski *(Katowice, Poland)*

C063 **SUN 6/7/2014, 13:30 - FENS-2341**
HYPOXIC STRESS REACTIONS ARE LINKED TO THE 2-OXOGLUTARATE DEHYDROGENASE COMPLEX IN DIFFERENT BRAIN REGIONS OF NON-PREGNANT AND PREGNANT RATS 877
A. Graf, E. Kulakovskaya, G. Mkrtchyan, L. Trofimova, E. Khirazova, M. Maslova, N. Sokolova, V. Bunik *(Moscow, Russia)*

C15: ISCHEMIA - CELLULAR AND MOLECULAR MECHANISMS

C064 **SUN 6/7/2014, 14:30 - FENS-0617**
HOMER1 PROTEINS AND THE TUNING OF ASTROCYTIC CALCIUM SIGNALING PATHWAYS 878
P. Bezzi, L. Buscemi, V. Ginet, F. Petrelli, P. Spagnuolo, C. Sala, A. Truttmann, L. Hirt, J. Puyal *(Lausanne, Switzerland)*

C065 **SUN 6/7/2014, 13:30 - FENS-0303**
MECHANISMS OF A DELAYED CALCIUM DEREGULATION. MATHEMATICAL MODELLING 879
D. Chastukhin, B. Khodorov *(Moscow, Russia)*

C066 **SUN 6/7/2014, 14:30 - FENS-3611**
IF1 IS A NGF DEPENDENT NEUROPROTECTIVE PATHWAY 880
S. Cocco, F. Florenzano, J. Crosby, A.Y. Abramov, R. Lupi, M. D'Onofrio, A. Cattaneo, G. Pignataro, L. Annunziato, M. Campanella *(Rome, Italy)*

C067 **SUN 6/7/2014, 13:30 - FENS-2951**
EXCITOTOXIC STIMULATION AND TRANSIENT BRAIN ISCHEMIA DOWNREGULATE THE NEUROPROTECTIVE GDNF-RET RECEPTOR SIGNALING ACTIVITY VIA CALPAIN ACTIVATION 881
M. Curcio, A.R. Inácio, T. Wieloch, E.P. Duarte, L.M.T. Canzoniero, C.B. Duarte *(Coimbra, Portugal)*

C068 **SUN 6/7/2014, 14:30 - FENS-3063**
DISTINCT SUBCELLULAR LOCALIZATION OF THE NEURONAL MARKER HUC/D REVEALS HYPOXIA-INDUCED DAMAGE IN ENTERIC NEURONS 882
A. Desmet, C. Cirillo, P. Vanden Berghe *(Leuven, Belgium)*

C069 **SUN 6/7/2014, 13:30 - FENS-2384**
DYNAMIC EPIGENETIC REGULATION OF NCX1 EXPRESSION IN BRAIN ISCHEMIA AND IN ISCHEMIC BRAIN PRECONDITIONING 883
L. Formisano, N. Guida, G. Laudati, O. Cuomo, A. Vinciguerra, G. Di Renzo, L. Annunziato *(Naples, Italy)*

C070 **SUN 6/7/2014, 14:30 - FENS-0398**
EPHRINB2 ACTIVATION IN REPAIRING BLOOD BRAIN BARRIER AFTER CEREBRAL ISCHEMIA 884
A. Ghori, I. Kremenetskaia, M. Nieminen-Kelhä, F. Freimann, K. Gertz, M. Endres, P. Vajkoczy *(Berlin, Germany)*

C071 **SUN 6/7/2014, 13:30 - FENS-0217**
CORTICOGENESIS CONTROLLING GENES IN NEURONAL PROGENITOR CELLS AFTER ISCHEMIA 885
D. Gorup, S. Gajovic, M. Rosário, V. Tarabykin *(Zagreb, Croatia)*

C072 **SUN 6/7/2014, 14:30 - FENS-3333**
IDENTIFICATION OF CD95/FAS/APO-1 LIGAND IN ISCHEMIC STROKE PATIENTS 886
O. Huet, L.F. Jave-Suarez, S. Ratkovich-Gonzalez, J. Garcia-Estrada, A. Feria-Velasco, S. Luquín de Anda *(Zapopan Jalisco, Mexico)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C073 **SUN 6/7/2014, 13:30 - FENS-2885**

OXALOACETATE IS NEUROPROTECTIVE. APART FROM GLUTAMATE SCAVENGING, IT EXERTS METABOLIC AND ANTIOXIDATIVE EFFECTS 887

L. Knapp, K. Kocsis, G. Oláh, A. Ozsvár, Z. Kis, T. Farkas, J. Toldi *(Szeged, Hungary)*

C074 **SUN 6/7/2014, 14:30 - FENS-2886**

EXAMINATION OF THE NEUROPROTECTIVE EFFECTS OF ACETYL-L-CARNITINE AGAINST IN VIVO AND IN VITRO ISCHEMIA 888

K. Kocsis, L. Knapp, Z. Kis, T. Farkas, J. Toldi *(Szeged, Hungary)*

C075 **SUN 6/7/2014, 13:30 - FENS-1853**

CHARACTERIZATION OF THE NEURON-ASTROCYTE-MICROGLIA TRIAD IN A MODEL OF CHRONIC CEREBRAL HYPOPERFUSION IN THE RAT HIPPOCAMPUS: PROTECTIVE EFFECT OF DIPYRIDAMOLE 889

D. Lana, A. Melani, D. Nosi, F. Pedata, M.G. Giovannini *(Florence, Italy)*

C076 **SUN 6/7/2014, 14:30 - FENS-1333**

REGULATION OF ADAMTS PROTEOGLYCANASE EXPRESSION IN CNS PATHOLOGIES 890

S. Lemarchant, S. Lehtonen, P. Korhonen, V. Kärkkäinen, Y. Pomeshchik, T. Malm, J. Montaner, K. Kanninen, J. Koistinaho *(Kuopio, Finland)*

C077 **SUN 6/7/2014, 13:30 - FENS-0170**

CHANGES IN CONNEXIN-36 AND CONNEXIN-43 NUMBER IN THE AREAS WITH REVERSIBLE CELL INJURY AFTER CEREBRAL ISCHEMIA IN RATS 891

N. Loginova, N.V. Panov, A.A. Prokuratova, N.S. Kositsyn, M.M. Svinov *(Moscow, Russia)*

C078 **SUN 6/7/2014, 14:30 - FENS-2003**

EFFECT HYPOXIA ON CALCIUM SIGNALLING IN CENTRAL NEURONS OF RAT BRAIN 892

I. Lukyanets, V.G. Bilonozhko, E.A. Lukyanetz *(Kyiv, Ukraine)*

C079 **SUN 6/7/2014, 13:30 - FENS-0497**

AUTOPHAGY IS EARLY INDUCED DURING GLUCOSE DEPRIVATION IN CULTURED CORTICAL NEURONS AND CONTRIBUTES TO NEURONAL DEATH 893

L. Massieu, C. Gerónimo-Olvera *(Mexico City, Mexico)*

C080 **SUN 6/7/2014, 14:30 - FENS-3531**

GENERATION OF MICE OVEREXPRESSING NCX1 IN CORTICAL AND HIPPOCAMPAL NEURONS CREATES RESISTANCE TO STROKE WHEREAS KNOCKING-OUT MAKES MICE MORE VULNERABLE 894

P. Molinaro, R. Sirabella, G. Pignataro, F. Boscia, A. Vinciguerra, O. Cuomo, K.D. Philipson, M. De Felice, R. Di Lauro, G. Di Renzo, L. Annunziato *(Naples, Italy)*

C081 **SUN 6/7/2014, 13:30 - FENS-1051**

PROTEOMIC PATTERN OF ISCHEMIC INJURED RAT HIPPOCAMPAL REGION AFTER POSTCONDITIONING 895

M. Nemethova, I. Talian, S. Tkacikova, V. Danielisova, J. Sabo, J. Burda *(Kosice, Slovakia)*

C082 **SUN 6/7/2014, 14:30 - FENS-1078**

ROLE OF DEATH RECEPTORS REGULATION ON CELL DAMAGE INDUCED BY OXYGEN-GLUCOSE DEPRIVATION IN CORTICAL CULTURES 896

A. Ochoa de Amezaga, G. Sanchez, E. Cavani, A.J. Miñano-Molina, R. Fado, J.X. Comella, J. Rodriguez-Alvarez *(Barcelona, Spain)*

C083 **SUN 6/7/2014, 13:30 - FENS-1774**

BRAIN DAMAGE AFTER FOCAL ISCHEMIA: NEUROIMMUNE MECHANISMS 897

M. Onufriev, M. Stepanichev, A. Tishkina, S. Freiman, N. Gulyaeva *(Moscow, Russia)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C084 **SUN 6/7/2014, 14:30 - FENS-1374**

THE ENHANCEMENT OF UPR WITH SALUBRINAL MODIFIES THE AUTOPHAGIC RESPONSE IN A MODEL OF GLOBAL CEREBRAL ISCHEMIA 898

D. Pérez Rodríguez, B. Anuncibay Soto, M. Santos Galdiano, I.F. Ugidos, J.M. Gonzalo Orden, A. Fernández López *(Leon, Spain)*

C085 **SUN 6/7/2014, 13:30 - FENS-3033**

DIFFERENTIAL IMPACT OF PROTEASOMAL STRESS ON MECHANISMS OF DEATH OF NEURAL CELLS 899

P. Racay, I. Pilchova, K. Klacanova, D. Dobrota *(Martin, Slovakia)*

C086 **SUN 6/7/2014, 14:30 - FENS-3710**

ANALYSIS OF ASTROCYTE REACTIVITY IN THE IMMATURE RAT HIPPOCAMPUS FOLLOWING ASPHYXIA 900

E. Rojas, T. Neira-Peña, D. Bustamante, P. Morales, L. Leyton, M. Herrera-Marschitz *(Santiago, Chile)*

C087 **SUN 6/7/2014, 13:30 - FENS-1701**

3,3'-DIINDOLYLMETHANE PROTECTS NEURONS AGAINST HYPOXIA IN AHR-AND ARNT-, BUT NOT ERBETA-DEPENDENT PATHWAYS 901

J. Rzemieniec, E. Litwa, A. Wnuk, W. Lason, M. Kajta *(Krakow, Poland)*

C088 **SUN 6/7/2014, 14:30 - FENS-2282**

EXCITOTOXIC GLUTAMATE STIMULATION AND OXYGEN AND GLUCOSE DEPRIVATION DOWNREGULATE THE 26S PROTEASOME IN CULTURED NEURONS 902

I. Salazar, M. Curcio, G. Leal, M. Mele, L. Canzoniero, C.B. Duarte, M.V. Caldeira *(Coimbra, Portugal)*

C089 **SUN 6/7/2014, 13:30 - FENS-2695**

GENETIC ABLATION OF THE FISSION DYNAMIN RELATED PROTEIN 1 (DRP1) INDUCES EARLY NEUROPROTECTION IN CEREBRAL ISCHEMIA BUT LONG-TERM SPONTANEOUS NEURONAL DEGENERATION 903

C. Savoia, B. Oettinghaus, M. Licci, S. Frank, L. Scorrano *(Padova, Italy)*

C090 **SUN 6/7/2014, 14:30 - FENS-0862**

PHYTOCERAMIDE INHIBITS ISCHEMIC BRAIN DAMAGE IN RATS 904

Y. Seong *(Cheongju, Korea)*

C091 **SUN 6/7/2014, 13:30 - FENS-1688**

ENDOPLASMIC RETICULUM REFILLING AND MITOCHONDRIAL CALCIUM EXTRUSION ELICITED IN NEURONS BY NCX1 AND NCX3 IN ISCHEMIC PRECONDITIONING PROMOTES NEUROPROTECTION 905

M. Sisalli, A. Secondo, A. Esposito, C. Savoia, G.F. Di Renzo, L. Annunziato, A. Scorziello *(Naples, Italy)*

C092 **SUN 6/7/2014, 14:30 - FENS-2149**

MELATONIN PROTECTS BRAIN ENDOTHELIAL CELLS AGAINST OXYGEN-GLUCOSE DEPRIVATION FOLLOWED BY REPERFUSION (OGD/R) INDUCED INJURY 906

J. Song, K.M. Lee, J.E. Lee, W.T. Lee *(Seoul, Korea)*

C093 **SUN 6/7/2014, 13:30 - FENS-1247**

CYSTINE/GLUTAMATE ANTIPORTER CONTRIBUTES TO ISCHEMIC NEURONAL DAMAGE BY EXTRASYNAPTIC GLUTAMATE RELEASE 907

F. Soria, A. Pérez-Samartín, A. Martín, K. Babu Gona, J. Llop, B. Szczupak, J.C. Chara, C. Matute, M. Domercq *(Leioa, Spain)*

C094 **SUN 6/7/2014, 14:30 - FENS-1296**

THE ADORA2A/MAPK/HIF-1ALPHA MODULE IS CRUCIAL FOR PURINE NUCLEOSIDE-MEDIATED SIGNALING IN HYPOXIC NEURONS 908

B. Thauerer, S. Zur Nedden, G. Baier-Bitterlich *(Innsbruck, Austria)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C095 **SUN 6/7/2014, 13:30 - FENS-2721**

BRAIN CATHEPSIN B AND PROTEASOME CAN CLEAVE A CASPASE-3 SUBSTRATE 909

A. Yakovlev, A. Gorokhovatsky, M. Onufriev, J. Trizna, I. Beletsky, N. Gulyaeva *(Moscow, Russia)*

C096 **SUN 6/7/2014, 14:30 - FENS-2357**

ROLE OF PROTEIN KINASE C-RELATED KINASE (PKN1) IN PURINE NUCLEOSIDE-MEDIATED NEUROPROTECTION 910

S. Zur Nedden, B. Thauerer, G. Baier-Bitterlich *(Innsbruck, Austria)*

C16: TRAUMA - PERIPHERAL NERVE

C097 **SUN 6/7/2014, 13:30 - FENS-1293**

TIME COURSE CHARACTERIZATION AND EFFECTS OF NT3/BDNF APPLICATION ON THE SYNAPTIC STRIPPING SUFFERED BY RAT MOTONEURONS AFTER SCIATIC NERVE INJURY 911

A. Arbat Plana, A. Macias-Gómez, X. Navarro, E. Udina *(Barcelona, Spain)*

C098 **SUN 6/7/2014, 14:30 - FENS-2235**

DISTINCT ROLES OF MHC-I IN DIFFERENT PHASES OF AXONAL REGENERATION PROCESS FOLLOWING SCIATIC NERVE CRUSHING 912

A. Bombeiro, R. Thomé, L.M.C. Verinaud, A.L.R. Oliveira *(Campinas, Brazil)*

C099 **SUN 6/7/2014, 13:30 - FENS-3454**

DIFFERENT NEUREGULIN 1 ISOFORMS ARE EXPRESSED DURING NERVE DEGENERATION, AXON REGENERATION AND REMYELINATION FOLLOWING PERIPHERAL NERVE INJURY 913

G. Gambarotta, G. Ronchi, D. Pascal, A. Crosio, O. Friard, A. Iannello, P. Galletta, I. Perroteau, S. Geuna *(Orbassano, Italy)*

C100 **SUN 6/7/2014, 14:30 - FENS-2528**

ROLE OF THE TRANSCRIPTION FACTOR ATF3 IN AXONAL REGENERATION AFTER FACIAL NERVE INJURY IN THE MOUSE 914

M. Gey, B. Knöll *(Ulm, Germany)*

C101 **SUN 6/7/2014, 13:30 - FENS-1757**

IN VITRO COMPARISON OF MOTOR AND SENSORY NEURON OUTGROWTH IN DIFFERENT EXTRACELLULAR MATRIX (ECM) ENRICHED MATRICES 915

F. Gonzalez-Perez, A. Alé, X. Navarro, E. Udina *(Barcelona, Spain)*

C102 **SUN 6/7/2014, 14:30 - FENS-2449**

SUSTAINED RELEASE OF NEUROTROPHIC FACTORS WITH PLGA MICROSPHERES IMPROVES NERVE REGENERATION 916

D. Santos, G. Giudetti, S. Micera, J. Del Valle, X. Navarro *(Montgat, Spain)*

C103 **SUN 6/7/2014, 13:30 - FENS-1786**

ERYTHROPOIETIN AND ACETYL-L-CARNITINE AMELIORATES PERIPHERAL NERVE INJURY IN A RAT MODEL 917

C. Kencebay, H. Ozcanli, G. Tanriover, R.Y. Arican, I. Cakici, N. Demir, N. Derin *(Antalya, Turkey)*

C104 **SUN 6/7/2014, 14:30 - FENS-2908**

ABNORMALLY SHORT INTERNODES ARE TOXIC TO PERIPHERAL AXONS DURING STRENUOUS ACTIVITY 918

M. Moldovan, S. Alvarez, C. Krarup *(Copenhagen, Denmark)*

C105 **SUN 6/7/2014, 13:30 - FENS-1317**

METHYLCOBALAMIN FACILITATES THE EXPRESSION OF MYELIN BASIC PROTEIN IN SCHWANN CELLS 919

S. Nishimoto, H. Tanaka, T. Murase, H. Yoshikawa *(Osaka, Japan)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C106 **SUN 6/7/2014, 14:30 - FENS-1094**

IL-6 SIGNAL TRANSDUCER GP130 AND PHOSPHO-STAT3 MODULATE NGF-DEPENDENT PERIPHERAL REGENERATION 920

S. Quarta, B.E. Bäumer, N. Scherbakov, M. Andratsch, S. Rose-John, G. Dechant, C.E. Bandtlow, M. Kress *(Innsbruck, Austria)*

C107 **SUN 6/7/2014, 13:30 - FENS-2627**

THE EFFECT OF GLATIRAMER ACETATE ON PAIN BEHAVIOR AND MOTOR FUNCTION IN A RAT MODEL OF NEUROPATHIC PAIN 921

E. Spandou, P. Vorniotakis, T. Georgiou, O. Touloumi, C. Simeonidou, N. Grigoriadis, D. Tata *(Thessaloniki, Greece)*

C108 **SUN 6/7/2014, 14:30 - FENS-1554**

NEURONAL AND GLIAL CELL TAILORING BY NANO/MICRO-STRUCTURED MEMBRANES: APPLICATION TO PATHO-PHYSIOLOGICAL MODELS 922

I. Tonazzini, E. Jacchetti, S. Meucci, Y. Elgersma, F. Beltram, M. Cecchini *(Pisa, Italy)*

C17: NEUROTOXICITY, INFLAMMATION, AND NEUROPROTECTION

C109 **SUN 6/7/2014, 13:30 - FENS-3173**

THE EFFECT OF LITHIUM ON EXPRESSION AND ACTIVITY OF NUCLEAR FACTOR E2-RELATED FACTOR 2 IN SH-SY5Y CELLS 923

B. Alural, U. Tufekci, S. Genc, K. Genc *(Izmir, Turkey)*

C110 **SUN 6/7/2014, 14:30 - FENS-2998**

SULFORAPHANE ATTENUATES INFLAMMATORY RESPONSES IN PRIMARY MOUSE ASTROCYTES 924

E. Eren, U. Tufekci, K. Isci, S. Genc *(Izmir, Turkey)*

C111 **SUN 6/7/2014, 13:30 - FENS-3146**

ENDOTHELIAL PROTEIN C RECEPTOR EXPRESSION IN GLIAL CELLS IS REGULATED BY SP1 925

K. Tufekci, E. Eren, H. Ates, S. Genc *(Izmir, Turkey)*

C112 **SUN 6/7/2014, 14:30 - FENS-1959**

THE EFFECTS OF HYPERAMMONEMIA ON SWITCHING LEARNINGS AND BRAIN METABOLISM 926

N. Arias, C. Fidalgo, V. Felipo, J.L. Arias *(Oviedo, Spain)*

C113 **SUN 6/7/2014, 13:30 - FENS-0007**

COMPLEX DIETARY INTERVENTIONS TO SLOW AGING OF THE BRAIN 927

V. Aksenov *(Hamilton Ontario, Canada)*

C114 **SUN 6/7/2014, 14:30 - FENS-1722**

DETERMINING THE ROLE OF MICROPHTHALMIA ASSOCIATED TRANSCRIPTION FACTOR (MITF) IN THE CENTRAL NERVOUS SYSTEM 928

D. Atacho, S. Hafsteinsson, S. Skadborg, E. Steingrímsson, P.H. Petersen *(Reykjavik, Iceland)*

C115 **SUN 6/7/2014, 13:30 - FENS-3181**

PITUITARY ADENYLATE CYCLASE-ACTIVATING POLYPEPTIDE (PACAP) PREVENTS MONOSODIUM GLUTAMATE (MSG) INDUCED FUNCTIONAL DISTURBANCES IN THE MOUSE RETINA 929

T. Atlasz, M. Balogh, D. Werling, Y. Zhang, D. Reglodi, S. Bloomfield, B. Volgyi *(Pecs, Hungary)*

C116 **SUN 6/7/2014, 14:30 - FENS-0774**

EFFECTS OF HUPERZIA SAURURUS ALKALOID EXTRACT ON BEHAVIORAL PARAMETERS OF ADULT MICE AND ON ACETYLCHOLINESTERASE ACTIVITY OF THEIR BRAIN REGIONS 930

I. Bakoyiannis, A. Kokkosis, M.G. Vallejo, M.G. Ortega, F. Lamari, A.M. Agnese, M. Margarity *(Athens, Greece)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C117 **SUN 6/7/2014, 13:30 - FENS-0623**

THE CORRELATION BETWEEN THE ACETYLCHOLINESTERASE ISOFORMS AND BEHAVIOR AFTER A LEAD INTOXICATION IS GENDER AND TIME DEPENDENT 931

A. Kokkosis, A. Krontira, C.G. Vasilopoulou, I. Georgakopoulou, E.A. Kaplanian, G. Tsapara, V. Kokkinou, A. Kolliopoulou, C. Constantinou, M. Margarity *(Patras, Greece)*

C118 **SUN 6/7/2014, 14:30 - FENS-1325**

C-FOS EXPRESSION IN BRAIN AND FREE RADICALS PRODUCTION IN FOUR ORGANS IN MICE: EFFECTS OF HIGH-FREQUENCY ELECTROMAGNETIC RADIATION EXPOSURE 932

J. Barcal, D. Jelinkova, P. Stopka, J. Vrba, F. Vozeh *(Pilsen, Czech Republic)*

C119 **SUN 6/7/2014, 13:30 - FENS-1988**

ACTIVATION OF THE STAT3 PATHWAY IS INVOLVED IN ASTROGLIOSIS IN MULTIPLE NEURODEGENERATIVE DISEASE MODELS 933

L. Benhaim, K. Ceyzeriat, M.A. Carrillo de Sauvage, F. Aubry, G. Auregan, M. Guillermier, D. Houitte, E. Faivre, L. Francelle, M. Vandesquille, M. Dhenain, E. Brouillet, G. Bonvento, C. Escartin *(Fontenay-aux-roses, France)*

C120 **SUN 6/7/2014, 14:30 - FENS-2236**

RETINAL PROGENITOR CELLS CULTURE IN A MEDIUM SUPPLENTED WITH LIPOIC ACID 934

S. Benlloch-Navarro, L.C. Trachsel-Moncho, D.T. Lamelas, J.M. Soria, M. Miranda *(Valencia, Spain)*

C121 **SUN 6/7/2014, 13:30 - FENS-0457**

HISTONE DEACETYLASE INHIBITORS VALPROIC ACID AND SODIUM BUTYRATE ENHANCE PROSTAGLANDINS RELEASE IN LIPOPOLYSACCHARIDE-ACTIVATED PRIMARY MICROGLIA 935

H. Bhatia, V. Singh, A. Kumar, A.C.P. De Oliveira, B.L. Fiebich *(Freiburg, Germany)*

C122 **SUN 6/7/2014, 14:30 - FENS-3678**

MODULATING AMPK ACTIVITY AS A NOVEL NEUROPROTECTIVE STRATEGY IN AN ALPHA-SYNUCLEIN MODEL OF PARKINSON'S DISEASE 936

W. Bobela, P. Aebischer, B.L. Schneider *(Lausanne, Switzerland)*

C123 **SUN 6/7/2014, 13:30 - FENS-2423**

MODULATION OF BILIRUBIN NEUROTOXICITY BY MDR1 IN A UGT1A KO MOUSE MODEL 937

L. Bockor, G. Bortolussi, J. Zelenka, C. Tiribelli, L. Vitek, A.F. Muro *(Trieste, Italy)*

C124 **SUN 6/7/2014, 14:30 - FENS-1947**

MODULATION OF GLIAL-INFLAMMATORY RESPONSE BY BROAD SPECTRUM AND SELECTIVE HISTONE DEACETYLASE INHIBITORS: AN IN VITRO COMPARATIVE STUDY 938

M. Boraso, N. Marchetti, A. Galmozzi, V. Galbiati, C.L. Galli, M. Marinovich, N. Mitro, M. Crestani, B. Viviani *(Milan, Italy)*

C125 **SUN 6/7/2014, 13:30 - FENS-1901**

AGE-DEPENDENT CEREBELLAR SUSCEPTIBILITY TO UCB-INDUCED NEUROLOGICAL DAMAGE IN A UGT1A KO MOUSE MODEL 939

G. Bortolussi, G. Baj, S. Vodret, G. Viviani, T. Bittolo, E. Tongiorgi, A.F. Muro *(Trieste, Italy)*

C126 **SUN 6/7/2014, 14:30 - FENS-2935**

USP14 INTERACTS WITH LC3B HELPING TO PROTECT NEUROBLASTOMA CELLS AGAINST OXIDATIVE STRESS 940

C. Bruelle, D. Lindholm, L. Korhonen *(Helsinki, Finland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C127 **SUN 6/7/2014, 13:30 - FENS-2088**
REGION-SPECIFIC DIFFERENCES IN THE ACTIVITY OF MITOCHONDRIAL COMPLEXES I AND II IN THE MOUSE BRAIN 941
J. Burtscher, J. Heidler, E. Gnaiger, C. Schwarzer *(Innsbruck, Austria)*

C128 **SUN 6/7/2014, 14:30 - FENS-2901**
MEVALONIC ACIDURIA (MA): A NEW PATHOGENIC MODEL FOR NEUROINFLAMMATION 942
F. Celsi, N. Freato, G. Campisciano, S. Crovella *(Trieste, Italy)*

C129 **SUN 6/7/2014, 13:30 - FENS-0328**
C-SRC/JAK2/PDGFR/PKCDELTA-DEPENDENT MMP-9 INDUCTION IS REQUIRED FOR THROMBIN-STIMULATED RAT BRAIN ASTROCYTES MIGRATION 943
Y. Chen, C.C. Lin, C.M. Yang *(Taoyuan, Taiwan)*

C130 **SUN 6/7/2014, 14:30 - FENS-0277**
COOPERATION BETWEEN SP1 AND NRF2 TO REGULATE HEME OXYGENASE-1 GENE EXPRESSION BY CARBON MONOXIDE-RELEASING MOLECULE-2 IN BRAIN ASTROCYTES 944
P. Chi, C.C. Lin, C.M. Yang *(Taoyuan, Taiwan)*

C131 **SUN 6/7/2014, 13:30 - FENS-0091**
A RESTRICTED POPULATION OF CB1 CANNABINOID RECEPTORS WITH NEUROPROTECTIVE ACTIVITY 945
A. Chiarlone, L. Bellocchio, C. Blázquez, E. Soria-Gómez, J.J. Ferrero, J. Sánchez-Prieto, B. Lutz, J. Fernández-Ruiz, I. Galve-Roperh, M. Guzmán *(Madrid, Spain)*

C132 **SUN 6/7/2014, 14:30 - FENS-0403**
2-CYCLOPROPYLIMINO-3-METHYL-1,3-THIAZOLINE HYDROCHLORIDE INHIBITS MICROGLIA ACTIVATION BY SUPPRESSION OF NF-KB AND MAP KINASES 946
S. Cho, E.A. Kim, J.Y. Choi, A.R. Han, C.H. Cho *(Seoul, Korea)*

C133 **SUN 6/7/2014, 13:30 - FENS-1980**
ROLE OF NF-KAPPAB P50 IN MICROGLIA-NEURAL PROGENITOR CELLS CROSS-TALK 947
S. Cvijetic, V. Bortolotto, S. Lovecchio, P.L. Canonico, M. Grilli *(Novara, Italy)*

C134 **SUN 6/7/2014, 14:30 - FENS-1041**
HIPPOCAMPUS IS THE MOST SENSIBLE REGION TO BILIRUBIN TOXICITY IN VITRO 948
M. DalBen, C. Tiribelli, S. Gazzin *(Trieste, Italy)*

C135 **SUN 6/7/2014, 13:30 - FENS-2912**
A ROLE FOR MIR-142-3P IN EAE SYNAPTIC DYSFUNCTION 949
F. De Vito, G. Mandolesi, A. Musella, A. Gentile, H. Sepman, D. Fresegna, C. Di Sanza, I. Bozzoni, C. Presutti, D. Centonze *(Rome, Italy)*

C136 **SUN 6/7/2014, 14:30 - FENS-1300**
GLAUCOMA: THE NEUROTROPHIN DEPRIVATION HYPOTHESIS IN THE OPTIC NERVE CRUSH MODEL 950
E. Dekeyster, L. De Groef, E. Geeraerts, M. Salinas-Navarro, I. Van Hove, L. Moons *(Leuven, Belgium)*

C137 **SUN 6/7/2014, 13:30 - FENS-1826**
ABLATION OF TYPE 2 TRANSGLUTAMINASE RESULTS IN AUTOPHAGY INDUCTION AND IN MODULATION OF ANTIOXIDANT DEFENCES 951
B. D'orio, R. Nardacci, F. Fanelli, L. Barone, S. Sepe, M. Piacentini, S. Moreno *(Rome, Italy)*

C138 **SUN 6/7/2014, 14:30 - FENS-0631**
PHYSIOLOGICAL AND PATHOLOGICAL ROLES OF BRAIN GLYCOGEN 952
J. Duran, J.J. Guinovart *(Barcelona, Spain)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C139 **SUN 6/7/2014, 13:30 - FENS-1354**

A MODEL OF NEUROINFLAMMATION AND DEMYELINATION BY INTRACEREBROVENTRICULAR INJECTION OF MICROBIAL NEURAMINIDASE 953

P. Fernandez-Llebrez, M.C. Gómez-Roldán, M. Cifuentes, M. Pérez Martín, J.M. Grondona, F. Rodríguez de Fonseca, M.D. López- Ávalos *(Malaga, Spain)*

C140 **SUN 6/7/2014, 14:30 - FENS-0726**

THE COMPLEMENT SYSTEM IS INVOLVED IN EPENDYMAL CELL DEATH CAUSED BY ICV ADMINISTRATION OF NEURAMINIDASE 954

P. Granados-Duran, J.M. Grondona, M.D. López-Ávalos, M. Pérez-Martín, M. Cifuentes, T.R. Hughes, B.P. Morgan, P. Fernández-Llebrez *(Málaga, Spain)*

C141 **SUN 6/7/2014, 13:30 - FENS-3336**

CALCIUM-INDUCED CELL DEATH IN HUMAN NEURAL STEM CELLS IS MODULATED BY THE PEPTIDYLARGININE DEIMINASE (PAD)-AIF PATHWAY - A NEW PATHWAY TO NEUROPROTECTION 955

P. Ferretti, K.P. U, B. Vagaska *(London, United Kingdom)*

C18: SENSORY DISORDERS

C142 **SUN 6/7/2014, 14:30 - FENS-0248**

TMPRSS3, A TYPE II SERINE PROTEASE, IS A KEY COMPONENT OF THE COCHLEAR HAIR CELL ACTIVITY 956

B. Delprat, L. Molina, L. Fasquelle, R. Nouvian, J. Wang, N. Salvetat, F. Molina, J.L. Puel *(Montpellier, France)*

C143 **SUN 6/7/2014, 13:30 - FENS-0845**

CHANGES IN T-TYPE CALCIUM CHANNEL FUNCTIONING ARE RELATED TO ALTERED THERMAL NOCICEPTION UNDER PERIPHERAL STZ-DIABETIC NEUROPATHIES 957

E. Khomula, A. Borisyuk, V. Viatchenko-Karpinski, P. Belan, N. Voitenko *(Kyiv, Ukraine)*

C144 **SUN 6/7/2014, 14:30 - FENS-0964**

BDNF DEPENDENT AUDITORY FIBERS SET BRAINS BASELINE FOR SOUND AND HOMEOSTATIC ADAPTATION, RISKING TO LOOSE BOTH AFTER INJURY-INDUCED FIBER LOSS 958

M. Knipper, T. Chumak, L. Rüttiger, C. Lee, D. Campanelli, A. Zuccoti, W. Singer, J. Popelar, K. Gutsche, S. Schraven, M. Jaumann, J. Hu, T. Schimmang, U. Zimmermann, J. Syka *(Tuebingen, Germany)*

C145 **SUN 6/7/2014, 13:30 - FENS-1272**

GABAB RECEPTOR DYSFUNCTIONNING IN THE SPINAL CORD OF NEUROPATHIC RATS 959

M. Landry, R. Bouali-Benazzouz, Y. Le Feuvre, S. Laffray, M.A. Papon, A. Favereaux *(Bordeaux, France)*

C146 **SUN 6/7/2014, 14:30 - FENS-2693**

INCREASED BRAIN ACTIVITY IN THE FRONTAL CORTEX OF EARLY BLIND SUBJECTS DURING AUDITORY AND VIBRO-TACTILE BEAT PROCESSING 960

E. Lerens, R. Araneda, L. Renier, L. Dricot, N. Deggouj, A. De Volder *(Bruxelles, Belgium)*

C147 **SUN 6/7/2014, 13:30 - FENS-1449**

VESTIBULAR DYSFUNCTION AND RECOVERY IN CHRONIC OTOTOXICITY: ASSOCIATION WITH AFFERENT DAMAGE AND REPAIR IN RATS 961

J. Llorens, P. Boadas-Vaello, C. Soler-Martín, L. Sedó-Cabezón *(Llobregat, Spain)*

C148 **SUN 6/7/2014, 14:30 - FENS-3511**

SPEECH SOUNDS REPRESENTATION IN THE AUDITORY CORTEX OF POST-STROKE PATIENTS WITH SENSORY APHASIA 962

O. Martynova, L. Mayorova *(Moscow, Russia)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C149 **SUN 6/7/2014, 13:30 - FENS-0336**
CLINICAL CLASSIFICATION AND TAILORED NEURO-VESTIBULAR EVALUATION IN CHRONIC DIZZINESS 963
S. Oh *(Jeonju, Korea)*

C150 **SUN 6/7/2014, 14:30 - FENS-3108**
PROTEIN CCDC66 IN RETINAL DEGENERATION 964
S. Schreiber, D.A. Akkad, E. Petrasch-Parwez, J.T. Epplen, W.M. Gerding *(Bochum, Germany)*

C151 **SUN 6/7/2014, 13:30 - FENS-1699**
CO-TRASPLANTATION OF PANCREATIC ISLETS WITH MESENCHYMAL STEM CELLS PROMOTES THE FUNCTIONAL RECOVERY OF DIABETIC NEUROPATHY IN VIVO 965
A. Scuteri, E. Ballarini, V. Carozzi, A. Chiorazzi, R. Bianchi, C. Porretta-Serapiglia, S. Silvani, B. Bonandrini, A. Remuzzi, G. Tredici *(Monza, Italy)*

C152 **SUN 6/7/2014, 14:30 - FENS-3004**
ALERTING EFFECT OF THE DIRECT ELECTRICAL STIMULATION OF THE LOCUS COERULEUS ON THE ACOUSTIC STARTLE RESPONSE IN THE RAT 966
S. Van Keulen, N.K. Logothetis, O. Eschenko *(Tuebingen, Germany)*

C153 **SUN 6/7/2014, 13:30 - FENS-3386**
CRITICAL ROLES OF PERIPHERAL CATHEPSIN S IN ACTIVATION OF TH1 CELLS THAT CONTRIBUTE TO MAINTENANCE OF NEUROPATHIC PAIN 967
Z. Wu, H. Nakanishi *(Fukuoka, Japan)*

C154 **SUN 6/7/2014, 14:30 - FENS-1804**
A LOCALIZED AUTOPHAGIC FILTER PREVENTS ENTRY OF MITOCHONDRIA CARRYING PATHOGENIC OPA1 MUTATIONS IN RETINAL GANGLION CELL AXONS 968
M. Zaninello, L. Scorrano *(Padova, Italy)*

C19: MENTAL DISORDERS - ADDICTION AND DRUGS OF ABUSE

C155 **SUN 6/7/2014, 13:30 - FENS-1767**
FROM ETHANOL TO SALSOLINOL: ROLE OF CATALASE AND SALSOLINOL IN THE EFFECTS OF ETHANOL ON DOPAMINE NEURONS IN POSTERIOR VTA 969
E. Acquas, P. Caboni, E. Carboni, M. Melis *(Cagliari, Italy)*

C156 **SUN 6/7/2014, 14:30 - FENS-2738**
INVESTIGATION OF THE EFFECTS OF POSTNATAL EXERCISE ON BEHAVIORAL DEFICITS IN RATS INDUCED BY PRENATAL MORPHINE EXPOSURE 970
A. Ahmadalipour, J. Sadeghzadeh, A. Vafaei, A. Rashidy-pour *(Semnan, Iran)*

C157 **SUN 6/7/2014, 13:30 - FENS-2033**
ACUTE AND CHRONIC AMPHETAMINE REGULATES DIFFERENTIALLY NURR1 EXPRESSION IN RAT VENTRAL TEGMENTAL AREA 971
C. Arredondo, M.P. González, M.E. Andrés, K. Gysling *(Santiago, Chile)*

C158 **SUN 6/7/2014, 14:30 - FENS-0576**
A NOVEL, PERIPHERALLY AVAILABLE NOCICEPTIN/ORPHANIN FQ RECEPTOR AGONIST REVERSES HANGOVER ANXIETY, ATTENUATES ALCOHOL INTAKE, AND PREVENTS REINSTATEMENT IN WISTAR RATS 972
A. Aziz, S. Brothers, L. Holm, M. Heilig, C. Wahlestedt, A. Thorsell *(Linköping, Sweden)*

C159 **SUN 6/7/2014, 13:30 - FENS-2372**
PROTRACTED ABSTINENCE FROM OPIATE VERSUS PSYCHOSTIMULANT: BEHAVIORAL AND MOLECULAR DIFFERENCES 973
J. Becker, B.L. Kieffer, J. Le Merrer *(Illkirch, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C160 **SUN 6/7/2014, 14:30 - FENS-2012**

AMPHETAMINE PROMOTES CELL-TYPE-SPECIFIC PHOSPHORYLATION OF THE RIBOSOMAL PROTEIN S6 INDEPENDENTLY OF MTORC1 IN THE STRIATUM 974

A. Biever, E. Puighermanal, M. Kuroiwa, A. Nishi, A. David, G. Gangarossa, D. Hervé, J. Girault, M. Pende, E. Valjent *(Montpellier, France)*

C161 **SUN 6/7/2014, 13:30 - FENS-1777**

ROLE OF NORADRENERGIC AND SEROTONERGIC INHIBITORY FEED-BACKS IN AMPHETAMINE-INDUCED BEHAVIORAL SENSITIZATION 975

A. Bobadilla, E. Doucet, G. Godeheu, C. Lanteri, L. Lanfumey, J.P. Tassin *(Paris, France)*

C162 **SUN 6/7/2014, 14:30 - FENS-2125**

IDENTIFYING CELLULAR CHANGES IN THE REWARD SYSTEM FOLLOWING METHAMPHETAMINE SELF-ADMINISTRATION IN RATS USING A MULTI-OMICS APPROACH 976

P. Bosch, M. Benton, L. Peng, D. Macartney-Coxson, B. Kivell *(Wellington, New Zealand)*

C163 **SUN 6/7/2014, 13:30 - FENS-2745**

DYSPHORIC-LIKE BEHAVIOUR DURING ETHANOL WITHDRAWAL IN FEMALE RATS. EFFECT OF CONTINUOUS VS INTERMITTENT ACCESS PARADIGM 977

A. Brancato, F. Plescia, G. Casano, G. Maniaci, C. Cannizzaro *(Palermo, Italy)*

C164 **SUN 6/7/2014, 14:30 - FENS-2172**

ETHANOL PREFERENCE DURING PREGNANCY AFTER LONG-TERM ETHANOL CONSUMPTION: EFFECT OF DRINKING PATTERN AND MATERNAL BEHAVIOUR ANALYSIS 978

C. Cannizzaro, F. Plescia, C. Gagliardo, A. Brancato *(Palermo, Italy)*

C165 **SUN 6/7/2014, 13:30 - FENS-2192**

ETHANOL DRINKING PATTERN DIFFERENTLY AFFECTS NOVELTY-RELATED BEHAVIOUR DURING ABSTINENCE IN FEMALE RATS 979

M. Cracchiolo, A. Fanale, C. Cannizzaro, A. Brancato *(Palermo, Italy)*

C166 **SUN 6/7/2014, 14:30 - FENS-2189**

PATHOLOGICAL GAMBLING: AN ASSOCIATION WITH ALEXITHYMIA, PERSONALITY DISORDERS AND CLINICAL SINDROMES 980

G. Maniaci, F. Picone, A. Lipari, S. Scardina, T. Dimarco, T. Piccoli, A. Brancato, C. Gagliardo, C. Cannizzaro *(Palermo, Italy)*

C167 **SUN 6/7/2014, 13:30 - FENS-1851**

MOLECULAR MECHANISMS GOVERNING STRESS RESPONSE IN ADOLESCENT ANIMALS EXPOSED TO COCAINE: ROLE OF THE MEDIAL PREFRONTAL CORTEX 981

L. Caffino, G. Giannotti, C. Malpighi, G. Racagni, F. Fumagalli *(Milano, Italy)*

C168 **SUN 6/7/2014, 14:30 - FENS-1173**

POTENTIAL ROLE OF THE 26S PROTEASOME MACHINERY IN THE MOLECULAR MECHANISMS OF ETHANOL AND COCAINE EXPOSURE 982

F. Caputi *(Bologna, Italy)*

C169 **SUN 6/7/2014, 13:30 - FENS-1378**

ADVERSE ENVIRONMENT IN EARLY AGE AND VULNERABILITY TO DRUG-ADDICTION 983

V. Carola, L. Lo Iacono, F. Visco Comandini, A. Valzania, L. Roscini, A. Felsani, E. Arico', S. Cabib, S. Puglisi-Allegra *(Rome, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C170 **SUN 6/7/2014, 14:30 - FENS-1979**

KETAMINE PRODUCES STRUCTURAL PLASTICITY IN DOPAMINERGIC NEURONS VIA CO-ACTIVATION OF MEK-ERK AND AKT-MTOR PATHWAYS: ROLE OF BDNF AND DOPAMINE D3R 984

L. Cavalleri, F. Bono, E. Merlo Pich, M.J. Millan, C. Chiamulera, P.F. Spano, G. Collo *(Brescia, Italy)*

C171 **SUN 6/7/2014, 13:30 - FENS-0885**

ATTENUATED ACUTE EFFECTS OF KETAMINE ON MOTOR PATHWAY IN THE LIMBIC SYSTEM OF DOPAMINE D3 RECEPTOR KNOCK-OUT MICE 985

C. Chiamulera, M. Di Chio, L. Cavalleri, F. Bono, L. Padovani, M.J. Millan, G. Collo *(Verona, Italy)*

C172 **SUN 6/7/2014, 14:30 - FENS-0781**

NEONATAL CORTICOSTERONE AND ENVIRONMENTAL ENRICHMENT DURING ADOLESCENCE MODULATE NEUROTROPHIC FACTORS AND EMOTIONAL RESPONSES TO THE CANNABINOID AGONIST JWH-018 IN MICE 986

C. Ceci, S. Macrì, M. Fiore, S. De Nicolò, G. Laviola *(Rome, Italy)*

C173 **SUN 6/7/2014, 13:30 - FENS-1351**

ANTI-RELAPSE PHARMACOLOGICAL CHARACTERIZATION OF CR5542, A SELECTIVE, BRAIN PENETRANT, OREXIN RECEPTOR 1 ANTAGONIST 987

L. Cervo, A. Di Clemente, C. Cassina, O. Letari, M. Lanza, R. Artusi, M. Salvi, F. Moro *(Milan, Italy)*

C174 **SUN 6/7/2014, 14:30 - FENS-2128**

PROTEOMIC ANALYSES OF PREFRONTAL CORTEX, NUCLEUS ACCUMBENS AND HIPPOCAMPUS IN METHAMPHETAMINE-SENSITIZED RATS: IMPLICATIONS FOR PSYCHOSIS 988

J. Cornish, T.A. Wearne, M.K. Sauer, A.M. Stuart, J.L. Franklin, M. Mirzaei, A.K. Goodchild, P.A. Haynes *(Sydney, Australia)*

D05: CHEMICAL SENSES - TASTE

D001 **SUN 6/7/2014, 13:30 - FENS-0261**

CONTRIBUTION OF THE CORPUS CALLOSUM TO THE TASTE REPRESENTATION IN THE TWO HEMISPHERES: AN FMRI AND DTI STUDY 989

M. Fabri, O. Gozdziewicz, F. Fiori, V. Granatelli, G. Mascioli, G. Berlucchi, N. Foschi, G. Polonara *(Ancona, Italy)*

D002 **SUN 6/7/2014, 14:30 - FENS-3020**

LOCAL FIELD POTENTIALS IN THE GUSTATORY CORTEX CARRY DYNAMIC STIMULUS INFORMATION THAT IS INDEPENDENT FROM SPIKE INFORMATION 990

R. Pavão, C. Piette, V. Lopes-dos-Santos, D.B. Katz, A.B.L. Tort *(Natal, Brazil)*

D003 **SUN 6/7/2014, 13:30 - FENS-2853**

GUSTATORY PROCESSING IN ZEBRAFISH BRAIN 991

N. Vendrell Llopis, E. Yaksi *(Leuven, Belgium)*

D06: AUDITORY

D004 **SUN 6/7/2014, 14:30 - FENS-0809**

CHOLINERGIC MODULATION OF STIMULUS-SPECIFIC ADAPTATION (SSA) IN THE INFERIOR COLLICULUS (IC) 992

Y. Aguilar Ayala, M.S. Malmierca *(Salamanca, Spain)*

D005 **SUN 6/7/2014, 13:30 - FENS-1494**

FUNCTIONAL IMAGING AND PHOTOLABELING OF NEURONAL POPULATIONS IN THE MOUSE AUDITORY CORTEX 993

D. Aschauer, M.P. Peter, B.B. Bathellier *(Vienna, Austria)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D006 **SUN 6/7/2014, 14:30 - FENS-1878**
DIFFERENCES IN THE HEARING FUNCTION BETWEEN MALE AND FEMALE FISCHER 344 RATS 994
Z. Balogova, N. Rybalko, J. Popelar, J. Syka *(Prague, Czech Republic)*

D007 **SUN 6/7/2014, 13:30 - FENS-2991**
BRAIN STATE DEPENDENCY OF EVOKED SPIKING ACTIVITY IN THE AUDITORY THALAMOCORTICAL SYSTEM 995
J. Bamber, S. Sakata *(Edinburgh, United Kingdom)*

D008 **SUN 6/7/2014, 14:30 - FENS-3753**
FINE-SCALE TONOTOPIC ARRANGEMENT IN THE DORSAL CORTEX OF THE MOUSE INFERIOR COLLICULUS STUDIED WITH TWO-PHOTON CALCIUM IMAGING 996
O. Barnstedt, P. Keating, A.J. King, J.C. Dahmen *(Oxford, United Kingdom)*

D009 **SUN 6/7/2014, 13:30 - FENS-0073**
FROM HEARING TO SINGING: SENSORY TO MOTOR INFORMATION PROCESSING IN THE GRASSHOPPER BRAIN 997
M. Bhavsar, A. Stumpner, R. Heinrich *(Göttingen, Germany)*

D010 **SUN 6/7/2014, 14:30 - FENS-1840**
UNBIASED STEREOLOGICAL ESTIMATES OF NEURON NUMBERS IN THE CENTRAL AUDITORY SYSTEM OF YOUNG AND OLD MICE AND RATS 998
J. Burianova, L. Ouda, J. Syka *(Prague, Czech Republic)*

D011 **SUN 6/7/2014, 13:30 - FENS-3430**
AUDITORY-MOTOR TRAINING IMPROVES AUDIO SPATIAL LOCALIZATION 999
G. Cappagli, G. Baud-Bovy, G. Sandini, M. Gori *(Genoa, Italy)*

D012 **SUN 6/7/2014, 14:30 - FENS-3635**
CHARACTERIZATION OF AUDITORY RESPONSES IN NIF, A SONGBIRD PREMOTOR AREA 1000
S. Cavé-Lopez, A.L. Vyssotski, N. Giret, R.H.R. Hahnloser *(Zurich, Switzerland)*

D013 **SUN 6/7/2014, 13:30 - FENS-0323**
UNCERTAINTY ENCODED IN THE OWL'S SOUND LOCALIZATION SYSTEM 1001
F. Cazettes, B.J. Fischer, J.L. Pena *(Bronx, USA)*

D014 **SUN 6/7/2014, 14:30 - FENS-1134**
EXCITABILITY OF MOTOR CORTICES AS A FUNCTION OF EMOTIONAL SOUNDS 1002
P. Cesari, N. Komeilipoor, F. Pizzolato, A. Daffertshofer *(Verona, Italy)*

D015 **SUN 6/7/2014, 13:30 - FENS-1361**
ROLE OF OTOFERLIN IN VESICLE DYNAMICS AT THE INNER HAIR CELL RIBBON SYNAPSES 1003
R. Chakrabarti, H. Al-Moyed, T. Moser, E. Reisinger, C. Wichmann *(Göttingen, Germany)*

D016 **SUN 6/7/2014, 14:30 - FENS-0360**
MEMBRANE POTENTIAL DYNAMICS OF PYRAMIDAL NEURONS AND GABAERGIC NEURONS DURING STIMULUS-SPECIFIC ADAPTATION IN MOUSE AUDITORY CORTEX 1004
I. Chen, F. Helmchen, H. Lütcke *(Zurich, Switzerland)*

D017 **SUN 6/7/2014, 13:30 - FENS-2606**
TONE EXPOSURE WITHOUT CONDITIONING MODIFIES SOUND PROCESSING IN MOUSE INFERIOR COLLICULUS 1005
H. Cruces Solis, **L. De Hoz** *(Göttingen, Germany)*

D018 **SUN 6/7/2014, 14:30 - FENS-1475**
LISTENING AUDIENCE MODULATES HEARING-RELATED NEURAL ACTIVITY IN THE SONGBIRD FOREBRAIN 1006
C. Del Negro, F. Menardy *(Orsay, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D019 **SUN 6/7/2014, 13:30 - FENS-2367**

MASKING RELEASE DUE TO COHERENT ENVELOPE FLUCTUATIONS ACROSS FREQUENCY AT THE LEVEL OF THE INFERIOR COLLICULUS 1007

J. Diepenbrock, F.W. Ohl, J.L. Verhey *(Magdeburg, Germany)*

D020 **SUN 6/7/2014, 14:30 - FENS-1542**

PRE- AND POSTSYNAPTIC REFINEMENTS IN THE MEDIAL SUPERIOR OLIVE (MSO) DURING LATE POSTNATAL DEVELOPMENT 1008

D. Franzen, S. Berner, S. Blank, C. Kellner, F. Felmy *(Martinsried, Germany)*

D021 **SUN 6/7/2014, 13:30 - FENS-1297**

KANAMYCIN-INDUCED CHANGES IN CALCIUM-BINDING PROTEIN EXPRESSION IN INNER EAR OF WILD TYPE AND PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE-DEFICIENT MICE 1009

B. Fülöp, A. Nemeth, K. Szabadfi, B. Szalontai, D. Reglodi, J. Farkas, P. Kiss, H. Hashimoto, R. Gabriel, A. Tamas *(Pecs, Hungary)*

D022 **SUN 6/7/2014, 14:30 - FENS-1405**

SEX SPECIFIC PROCESSING IN A SONGBIRD SECONDARY AUDITORY AREA 1010

N. Giret, K. Touiki, C. Del Negro *(Orsay, France)*

D023 **SUN 6/7/2014, 13:30 - FENS-1376**

EVOKED RESPONSES ELICITED BY ACOUSTIC AND MGB ELECTRICAL STIMULATION IN THE CAT 1011

D. Horváth, R. Fiáth, L. Wittner, I. Ulbert, G. Karmos *(Budapest, Hungary)*

D024 **SUN 6/7/2014, 14:30 - FENS-0465**

MICROGLIAL RESPONSE NEARBY FOS EXPRESSING NEURONS: REGION-SPECIFIC HYPERTROPHY OF IBA1 POSITIVE CELLS AFTER ELECTRICAL INTRACOCHLEAR STIMULATION OF DEAF ADULT RATS 1012

R. Illing, H. Hildebrandt, N. Rosskothen-Kuhl *(Freiburg, Germany)*

D025 **SUN 6/7/2014, 13:30 - FENS-2352**

LAMINAR STRUCTURE OF AUDITORY CORTICAL POPULATION ACTIVITY FOLLOWING ACOUSTIC TRAUMA 1013

T. Khodai, S. Sakata *(Glasgow, United Kingdom)*

D026 **SUN 6/7/2014, 14:30 - FENS-3693**

COMPARISON OF APPETITIVE AND AVERSIVE REINFORCEMENT IN AN AUDITORY GO/NOGO DISCRIMINATION TASK IN MICE 1014

A. Kolodziej, A. Schulz, F.W. Ohl *(Magdeburg, Germany)*

D027 **SUN 6/7/2014, 13:30 - FENS-0150**

DEVELOPMENT OF AUDITORY DURATION TUNED NEURONS IN THE SUPERIOR COLLICULUS OF THE RAT 1015

M. Lainesse, M. Costa, F. Lepore, J.P. Guillemot *(Montreal, Canada)*

D028 **SUN 6/7/2014, 14:30 - FENS-1960**

EFFECTS OF ACOUSTICALLY ENRICHED ENVIRONMENT ON PROPERTIES OF INFERIOR COLLICULUS NEURONS IN RAT - ESTIMATION OF INTER-INDIVIDUAL DIFFERENCES 1016

J. Lindovsky, Z. Bures, M. Jilek, J. Syka *(Prague, Czech Republic)*

D029 **SUN 6/7/2014, 13:30 - FENS-1088**

AUDITORY PROFILE OF CAV 2.3 MICE USING AUDITORY BRAINSTEM RESPONSE (ABR) ANALYSIS 1017

A. Lundt, V. Ginde, T. Kahl, K. Broich, A. Papazoglou, M. Weiergräber *(Bonn, Germany)*

D030 **SUN 6/7/2014, 14:30 - FENS-3453**

INVESTIGATION OF GLUTAMATE-MEDIATED MECHANISMS ON THE SPIKE RATE AT INFERIOR COLLICULUS AND STRIATUM 1018

L. Melo-Thomas , U. Thomas *(Marburg, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D031 **SUN 6/7/2014, 13:30 - FENS-0872**

SOUND PRESENTATION DURING DIFFERENT RESPIRATION PHASES ALTERS THE SOUND-INDUCED SYMPATHETIC TONE 1019

Y. Ooishi, T. Sato *(Atsugi, Japan)*

D032 **SUN 6/7/2014, 14:30 - FENS-1969**

PROTECTIVE EFFECT OF ROSMARINIC ACID IN NOISE INDUCED HEARING LOSS: A FUNCTIONAL AND MORPHOLOGICAL STUDY 1020

F. Paciello, S.L.M. Eramo, R. Rolesi, M. Ralli, A.R. Fetoni, D. Troiani, G. Paludetti *(Rome, Italy)*

D07: TACTILE/SOMATOSENSORY - PERIPHERAL RECEPTORS

D033 **SUN 6/7/2014, 13:30 - FENS-2811**

TRANSLATIONAL RESEARCH ON MECHANICAL SENSITIVITY: ANALYSIS OF QUANTITATIVE SENSORY TESTING IN RATS UNDER NAIVE AND NEUROPATHIC CONDITIONS 1021

O. Caspani, D. Hrncic, R.D. Treede *(Mannheim, Germany)*

D034 **SUN 6/7/2014, 14:30 - FENS-3372**

ENHANCED TACTILE HEAT DISCRIMINATION IN CONGENITAL BLINDNESS 1022

H. Slimani, L. Plaghki, M. Ptito, R. Kupers *(København, Denmark)*

D08: TACTILE/SOMATOSENSORY - BRAIN STEM, THALAMUS, CORTEX

D035 **SUN 6/7/2014, 13:30 - FENS-0378**

CAN RATS PERCEIVE TEMPORAL VIBRATION PATTERNS? 1023

S. Antopolskiy, M.E. Diamond *(Trieste, Italy)*

D036 **SUN 6/7/2014, 14:30 - FENS-1566**

A VIRTUAL TACTILE ENVIRONMENT TO STUDY SOMATOSENSORY PROCESSING IN MOUSE CORTEX DURING LOCOMOTION 1024

A. Ayaz, A. Stäuble, F. Helmchen *(Zurich, Switzerland)*

D037 **SUN 6/7/2014, 13:30 - FENS-2927**

CHOLINERGIC MODULATION ENHANCES FLUCTUATIONS OF MEMBRANE POTENTIAL OF POSTEROMEDIAL THALAMIC NEURONES OF THE RAT 1025

M. Bekisz, S. Nersisyan, E. Kublik, B. Granseth, A. Wróbel *(Warsaw, Poland)*

D038 **SUN 6/7/2014, 14:30 - FENS-2024**

CHARACTERIZATION OF WHISKER EVOKED LOCAL FIELD POTENTIALS IN RAT'S VENTRAL AND DORSAL ZONA INCERTA 1026

Z. Borzymowska, D. Swiejkowski, A. Wróbel, E. Kublik *(Warszawa, Poland)*

D039 **SUN 6/7/2014, 13:30 - FENS-2535**

STIMULUS LOCKED BETA OSCILLATIONS IN THE THALAMO-CORTICAL BARREL SYSTEM OF AWAKE RAT 1027

K. Jurewicz, A. Stompor, A. Kaminski, D. Swiejkowski *(Warsaw, Poland)*

D040 **SUN 6/7/2014, 14:30 - FENS-2582**

TEMPORAL PATTERN OF POST- STIMULS GAMMA OSCILLATIONS IN RAT SOMATOSENSORY THALAMUS IS MODULATED BY AROUSAL LEVEL 1028

K. Paluch, A. Sobolewski, D. Swiejkowski, A. Wróbel, E. Kublik *(Warsaw, Poland)*

D041 **SUN 6/7/2014, 13:30 - FENS-3737**

SPATIAL ORGANIZATION OF NEURONS CODING FOR COMPLEX MULTI-WHISKER FEATURES IN S1BF 1029

L. Bourdieu, L. Estebanez, J.F. Bertherat, D.E. Shulz, J.F. Léger *(Paris, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D042 **SUN 6/7/2014, 14:30 - FENS-2170**

DIFFERENTIAL EFFECTS OF NEONATAL SENSORY INPUT ABLATION ON THALAMOCORTICAL AXON ARBORS FROM THE POSTERIOR AND VENTROPOSTERORMEDIAL NUCLEI IN MICE 1030

D. Casas, C. Porrero, M. García-Amado, F. Clascá *(Madrid, Spain)*

D043 **SUN 6/7/2014, 13:30 - FENS-1645**

VARIABILITY OF LFP RESPONSES IN THE RAT BARREL CORTEX UPON SINGLE WHISKER STIMULATION 1031

C. Cecchetto, M. Maschietto, S. Girardi, S. Vassanelli *(Padova, Italy)*

D044 **SUN 6/7/2014, 14:30 - FENS-1381**

EARLY INCREASE AND LONG-TERM DECREASE IN CORTICAL RESPONSIVENESS TO FOREPAW STIMULI AFTER THORACIC SPINAL CORD TRANSECTION IN RATS 1032

H. Desire, G. Foffani, E. Alonso-Calviño, E. Fernandez-Lopez, J. Aguilar *(Toledo, Spain)*

D045 **SUN 6/7/2014, 13:30 - FENS-1444**

MORPHOLOGICAL AND ELECTROPHYSIOLOGICAL PROPERTIES OF PKC-GAMMA INTERNEURONS WITHIN THE TRIGEMINAL SUBNUCLEUS CAUDALIS 1033

C. Elkhoueiry, C. Alba-Delgado, C. Peirs, R. Dallel, A. Artola, M. Antri *(Clermont Ferrand, France)*

D046 **SUN 6/7/2014, 14:30 - FENS-2553**

THALAMIC NMDA RECEPTOR FUNCTION IS NECESSARY FOR PATTERNING OF THE THALAMOCORTICAL SOMATOSENSORY MAP AND FOR SEVERAL SENSORIMOTOR BEHAVIORS 1034

R. Erzurumlu, H. Arakawa, A. Suzuki, F.S. Lo, V. Tsytsarev, S. Zhao, T. Iwasato *(Baltimore, USA)*

D047 **SUN 6/7/2014, 13:30 - FENS-1133**

CHANGES IN PRO-BDNF AND OTHER SIGNALING PROTEINS INVOLVED IN INPUT-DEPENDENT STRUCTURAL PLASTICITY IN ADULT RAT TRIGEMINAL SYSTEM 1035

J. Fernandez-Montoya, P. Negredo, Y.B. Martin, C. Avendaño *(Madrid, Spain)*

D048 **SUN 6/7/2014, 14:30 - FENS-2228**

CHARACTERIZATION OF CORTICAL INHIBITORY NEURON ACTIVITY IN VIVO USING GENETICALLY ENCODED CA2+ SENSORS 1036

C. Georgiou, S. Pagés, A. Holtmaat *(Geneve, Switzerland)*

D049 **SUN 6/7/2014, 13:30 - FENS-0917**

EEG ASSESSMENT OF THE CORTICAL MECHANISMS UNDERLYING SENSORY INTEGRATION FROM THE FINGERS IN NON-HUMAN PRIMATES 1037

A. Gindrat, E.M. Rouiller, A. Ghosh *(Fribourg, Switzerland)*

D09: BASAL GANGLIA

D050 **SUN 6/7/2014, 14:30 - FENS-0090**

LEVODOPA IMPROVES FATIGUE TOLERANCE IN RESERPINIZED MICE - AN ANIMAL MODEL OF PARKINSONISM 1038

A. Aguiar Jr, D. Scheffer, A. Latini *(Florianopolis, Brazil)*

D051 **SUN 6/7/2014, 13:30 - FENS-0767**

INCREASED LOCOMOTOR ACTIVITY LEADS TO A CALCINEURIN-DEPENDENT PYK2 ACCUMULATION IN THE NUCLEUS OF DORSOLATERAL STRIATUM NEURONS 1039

R. Coura, A. Giralt, C. Faure, L. Marion-Poll, E. Montalban, S. Longueville, Y. Terao, D. Hervé, J.A. Girault *(Paris, France)*

D052 **SUN 6/7/2014, 14:30 - FENS-1563**

D2R-EXPRESSING CELLS MANIPULATION IN THE LATERAL GLOBUS PALLIDUS IMPAIRS MOTOR COORDINATION IN MOUSE 1040

J. Espallergues, E. Valjent *(Montpellier, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D053 **SUN 6/7/2014, 13:30 - FENS-1570**

NEURONAL POPULATION LABELED IN THE 5HT3AEGFP MOUSE DOUBLES THE AMOUNT OF MOLECULARLY DEFINED STRIATAL GABAERGIC INTERNEURONS 1041

C. Foldi, A.B. Muñoz-Manchado, S. Szydlowski, L. Sjulson, M. Farries, C. Wilson, G. Silberberg, J. Hjerling-Leffler *(Stockholm, Sweden)*

D054 **SUN 6/7/2014, 14:30 - FENS-2440**

DISSECTING AND UNRAVELING NEURAL CIRCUITS AND DOPAMINE-DEPENDENT MOLECULAR EVENTS IN THE CAUDAL STRIATUM 1042

G. Gangarossa, J. Espallergues, P. Krieger, E. Valjent *(Montpellier, France)*

D055 **SUN 6/7/2014, 13:30 - FENS-1619**

STUDY OF THE ROLES OF STRIATAL POPULATIONS IN MOTOR CONTROL AND INSTRUMENTAL LEARNING BY OPTOGENETIC TARGETING 1043

M. Laurent, S. Schiffmann, A. De Kerchove D'Exaerde *(Brussels, Belgium)*

D056 **SUN 6/7/2014, 14:30 - FENS-2393**

REGIONAL SPECIFICITY OF SYNAPTIC PLASTICITY DEFICITS IN A KNOCK-IN MOUSE MODEL OF DYT1 DYSTONIA 1044

M. Maltese, G. Martella, R. Nisticò, T. Schirinzi, G. Madeo, G. Sciamanna, G. Ponterio, M. Pignatelli, P. Bonsi, A. Pisani *(Rome, Italy)*

D057 **SUN 6/7/2014, 13:30 - FENS-2349**

CHOLINERGIC NEURONS IN THE BRAINSTEM TOPOGRAPHICALLY INNERVATE AND DIFFERENTIALLY MODULATE NEURONS OF THE STRIATUM AND NUCLEUS ACCUMBENS 1045

J. Mena-Segovia, D. Dautan, I. Huerta-Ocampo, I.B. Witten, K. Deisseroth, T. Gerdjikov, J.P. Bolam *(Oxford, United Kingdom)*

D058 **SUN 6/7/2014, 14:30 - FENS-1391**

TECTAL SENSORY LOOP OF THE BASAL GANGLIA 1046

A. Nagy, T. Nagypál, P. Gombköto, G. Benedek *(Szeged, Hungary)*

D059 **SUN 6/7/2014, 13:30 - FENS-2795**

CUE DISCRIMINATION TASKS IN A MODEL OF THE STRIATAL MEDIUM SPINY NEURON NETWORK 1047

A. Ponzi, J.R. Wickens *(Okinawa, Japan)*

D060 **SUN 6/7/2014, 14:30 - FENS-2946**

ACTION MONITORING BY THE STRIATUM IS CRITICAL FOR ACCURATE EXECUTION OF PROCEDURAL MEMORIES 1048

P. Rueda-Orozco, D. Robbe *(Marseille, France)*

D061 **SUN 6/7/2014, 13:30 - FENS-2133**

PHYSIOLOGICAL ROLES OF CORTICO-STRIATAL NEURONS IN VOLUNTARY MOVEMENTS 1049

H. Sano, K. Kobayashi, S. Kato, K. Kobayashi, A. Nambu *(Okazaki, Japan)*

D062 **SUN 6/7/2014, 14:30 - FENS-2210**

NEGATIVE ALLOSTERIC MODULATION OF METABOTROPIC GLUTAMATE RECEPTOR 5 RESCUES ABNORMAL D2 DOPAMINE RECEPTOR RESPONSES IN A MODELS MOUSE OF DYT1 DYSTONIA 1050

A. Tassone, G. Sciamanna, G. Ponterio, P. Bonsi, A. Pisani *(Rome, Italy)*

D063 **SUN 6/7/2014, 13:30 - FENS-0344**

LOW-FREQUENCY PEDUNCULOPONTINE NUCLEUS-STIMULATION AFFECTS SENSORIMOTOR PERFORMANCE AND REDUCES ROTATIONAL MOVEMENTS INDUCED BY DOPAMINERGIC DRUGS IN A PARKINSONIAN RAT MODEL 1051

F. Vitale, C. Mattei, A. Capozzo, P. Mazzone, E. Scarnati *(L'Aquila, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E03: STRESS AND THE BRAIN - HPA AXIS

E001 **SUN 6/7/2014, 13:30 - FENS-0187**

THE EFFECTS OF UROCORTIN I ON THE HYPOTHALAMIC CRF, AVP AND GABA CONCENTRATIONS - THE IMPACTS ON THE HYPOTHALAMIC-PITUITARY-ADRENAL (HPA) AXIS 1052

Z. Bagosi, K. Csabafi, M. Palotai, M. Jászberényi, I. Földesi, J. Gardi, G. Telegdy *(Szeged, Hungary)*

E002 **SUN 6/7/2014, 14:30 - FENS-3286**

HIGH FAT DIET, OVARIECTOMY AND PHYSICAL ACTIVITY DIFFERENTLY AFFECT LEPTIN RECEPTOR DISTRIBUTION IN HIPPOCAMPUS 1053

M. Balog, S. Blaetic, I. Labak, B. Viljetic, V. Ivic, M. Gajdo, S. Vari, M. Heffer *(Osijek, Croatia)*

E003 **SUN 6/7/2014, 13:30 - FENS-0250**

CORTISOL LEVELS AND EXPERIENCING OF FLOW: ARE THEY RELATED? A STUDY WITH SEVEN DIFFERENT INTERVENTIONS 1054

C. Brom, F. Dechterenko, M. Buchtová, V. Sisler, R. Palme, L.M. Glenk *(Prague, Czech Republic)*

E004 **SUN 6/7/2014, 14:30 - FENS-1196**

CHRONIC STRESS IMPAIRS AUDITORY ATTENTION AND GABAERGIC SYNAPTIC TRANSMISSION IN THE RAT AUDITORY CORTEX 1055

A. Dagnino-Subiabre, C. Pérez-Valenzuela, R. Sotomayor-Zárate, M. Fuenzalida *(Valparaíso, Chile)*

E005 **SUN 6/7/2014, 13:30 - FENS-3502**

REVISITING GLUCOCORTICOID REGULATION OF THE HPA AXIS 1056

E. De Kloet *(Leiden, The Netherlands)*

E006 **SUN 6/7/2014, 14:30 - FENS-1383**

ALTERATIONS OF THE GLUCOCORTICOID-INDUCED LECUCINE ZIPPER (GILZ) IN RAT CHRONIC MILD STRESS MODEL 1057

W. Duda, E. Fagan, T.J. Connor, K. Curzytek, M. Kubera *(Krakow, Poland)*

E007 **SUN 6/7/2014, 13:30 - FENS-2162**

A CHARACTERISTIC OF THE FUNCTION OF THE HYPOTHALAMUS-PITUITARY-ADRENAL AXIS IN AGED AND CHRONIC STRESSED MICE 1058

Y. Funakami, T. Miyamoto, T. Iida, K. Sakai, K. Ueshiba, T. Wada, S. Ichida *(Higashi-Osaka, Japan)*

E008 **SUN 6/7/2014, 14:30 - FENS-2244**

CHRONIC STRESS DECREASES THE FUNCTION OF THE HYPOTHALAMUS-PITUITARY-ADRENAL AXIS VIA GLUCOCORTICOID RECEPTORS IN MICE 1059

S. Ichida, Y. Funakami, T. Miyamoto, T. Iida, K. Sakai, K. Ueshiba, T. Wada *(Higashi-Osaka, Japan)*

E009 **SUN 6/7/2014, 13:30 - FENS-2164**

SELECTIVE VULNERABILITY OF HIPPOCAMUS: NEUROINFLAMMATION AND SEPTO-TEMPORAL GRADIENT 1060

N. Gulyaeva, M. Onufriev, S. Freiman, Y. Moiseeva, A. Tishkina, M. Stepanichev *(Moscow, Russia)*

E010 **SUN 6/7/2014, 14:30 - FENS-0148**

IMPACT OF MINERALOCORTICOID, GLUCOCORTICOID AND THYROID HORMONES ON RESPIRATORY CONTROL DEVELOPMENT IN LITHOBATES CATESBEIANUS 1061

R. Jean-Philippe, D. Pierre-Luc, R. Kinkead *(Québec, Canada)*

E011 **SUN 6/7/2014, 13:30 - FENS-3149**

VARIANTS OF THE V1B VASOPRESSIN RECEPTOR ASSOCIATED WITH DEPRESSION AND SUICIDE DISPLAY DISTINCT PHARMACOLOGICAL PROPERTIES 1062

M. Manière, V. Boulay, P. Courtet, G. Guillon, M. Corbani *(Montpellier, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E012 **SUN 6/7/2014, 14:30 - FENS-1611**

ADMINISTRATION OF A LEPTIN ANTAGONIST DURING THE PHYSIOLOGICAL NEONATAL LEPTIN SURGE INDUCES LONG-TERM SEX DEPENDENT ALTERATIONS IN ADOLESCENT RAT BRAINS 1063

V. Mela, A.B. López Rodríguez, M.J. Ramirez Gil, A. Gertler, M.J. Vázquez, M. Tena-Sempere, J.A. Chowen, M.P. Viveros *(Madrid, Spain)*

E013 **SUN 6/7/2014, 13:30 - FENS-2722**

CRH AND VASOPRESSIN: THE NEUROENDOCRINE MARKERS OF ANXIETY-LIKE STATE IN FEMALE RATS IN A MODEL OF POSTTRAUMATIC STRESS DISORDER 1064

V. Mironova, N. Ordyan, S. Pivina, V. Rakitskaya *(Saint Petersburg, Russia)*

E014 **SUN 6/7/2014, 14:30 - FENS-2222**

DOWN-REGULATION OF HIPPOCAMPAL GLUCOCORTICOID RECEPTORS IN ADULT HYPERTHYROID RATS 1065

E. Nikolopoulou, D. Mytilinaios, G.P. Chrousos, E.O. Johnson *(Athens, Greece)*

E015 **SUN 6/7/2014, 13:30 - FENS-1479**

EFFECTS OF EARLY-LIFE STRESS ON HPA-AXIS RESPONSIVENESS DURING ADULTHOOD IN A HYPERTHERMIA-INDUCED FEBRILE SEIZURE MODEL 1066

E. Umeoka, E.J. Robinson, J.S. Van Campen, N. Garcia-Cairasco, P.N.E. De Graan, M. Joëls *(Ribeirão Preto, Brazil)*

E016 **SUN 6/7/2014, 14:30 - FENS-0700**

CONSTITUTIONAL DIFFERENCES IN GLUCOCORTICOID RESPONSIVENESS TO PERIPUBERTY STRESS ARE ASSOCIATED WITH DIFFERENCES IN PSYCHOPATHOLOGY-LIKE BEHAVIOURS IN RATS 1067

S. Walker, C. Fournier, I. Guillot de Suduiraut, C. Sandi *(Lausanne, Switzerland)*

E04: BIOLOGICAL RHYTHMS AND SLEEP - SLEEP: SYSTEMS AND BEHAVIOUR

E017 **SUN 6/7/2014, 13:30 - FENS-2903**

HIGH THROUGHPUT BEHAVIORAL SLEEP ASSAY FOR LARVAL ZEBRAFISH 1068

H. Thorsteinsson, A.B. Ágústsdóttir, M. Jung, K. Karlsson *(Reykjavik, Iceland)*

E018 **SUN 6/7/2014, 14:30 - FENS-2904**

THE EFFECTS OF TRANSIENT KCNA2 KNOCK-DOWN ON REST-ACTIVITY CYCLES IN LARVAL ZEBRAFISH 1069

A. Ágústdóttir, K.E. Ammendrup, C. Del Río-Bermúdes, H. Arnardóttir, H. Thorsteinsson, K. Karlsson *(Reykjavik, Iceland)*

E019 **SUN 6/7/2014, 13:30 - FENS-2798**

ABSENCE OF RAPID EYE MOVEMENTS DURING SLEEP IN ZEBRAFISH 1070

K. Karlsson, B.B. Árnason, H. Thorsteinsson *(Reykjavik, Iceland)*

E020 **SUN 6/7/2014, 14:30 - FENS-2337**

THE OCULOMOTOR SYSTEM DURING RAPID EYE MOVEMENT (REM) SLEEP 1071

L.C. Cervantes, A. Sánchez-López, M. Escudero *(Sevilla, Spain)*

E021 **SUN 6/7/2014, 13:30 - FENS-3071**

EFFECTS OF SHORT-TERM SLEEP DEPRIVATION ON PERFORMANCE IN THE VISUAL DISCRIMINATION TASK IN MICE 1072

R. Dore, N. Cui, V. Vyazovskiy *(Oxford, United Kingdom)*

E022 **SUN 6/7/2014, 14:30 - FENS-1083**

DIVERSITY OF SLEEP SPINDLE RHYTHMS IN LOCAL AREAS OF THE MOUSE BRAIN 1073

L. Fernandez, A. Lüthi *(Lausanne, Switzerland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E023 **SUN 6/7/2014, 13:30 - FENS-2214**
ACOUSTIC STIMULATION AS A TOOL FOR ASSESSING SLEEP QUALITY IN MICE 1074
S. Lecci, R.D. Wimmer, J.Y. Chatton, A. Lüthi *(Lausanne, Switzerland)*

E024 **SUN 6/7/2014, 14:30 - FENS-0834**
LATERAL HYPOTHALAMIC INHIBITORY INFLUENCE ON THALAMIC NETWORKS: A NOVEL AROUSAL PATHWAY 1075
C. Gutierrez Herrera, S. Jego, J. Colby-Milley, A. Adamantidis *(Bern, Switzerland)*

E025 **SUN 6/7/2014, 13:30 - FENS-0778**
OPTOGENETIC DISSECTION OF THE MCH SYSTEM: IMPLICATIONS FOR SLEEP-STATE MODULATION 1076
S. Jego, S.D. Glasgow, C. Gutierrez Herrera, R. Boyce, S.J. Reed, M. Ekstrand, J.M. Friedman, D. Burdakov, A.R. Adamantidis *(Montreal, Canada)*

F05: HUMAN COGNITION AND BEHAVIOUR - ATTENTION

F001 **SUN 6/7/2014, 13:30 - FENS-1287**
TEMPORAL EXPECTATION AND PUPILLARY RESPONSE 1077
B. Akdogan, F. Balci *(Istanbul, Turkey)*

F002 **SUN 6/7/2014, 14:30 - FENS-2469**
DEFICIENT TOP-DOWN COGNITIVE CONTROL AND AUDITORY PROCESSING IN TINNITUS: EVIDENCES FROM AUDITORY AND VISUAL SPATIAL STROOP TASKS 1078
R. Araneda, A.G. De Volder, N. Deggouj, P. Philippot, A. Heeren, E. Lacroix, E. Lerens, P. Rombaux, J.P. Rauschecker, L. Renier *(Brussels, Belgium)*

F003 **SUN 6/7/2014, 13:30 - FENS-2450**
CONSEQUENCES ON SUSTAINED ATTENTION OF SELF IMPOSED SLEEP DEPRIVATION DURING A MOUNTAIN ULTRA MARATHON 1079
T. Banfi, F. Mastorci, G. Giardini, L. Pratali, U. Faraguna *(Montescudaio, Italy)*

F004 **SUN 6/7/2014, 14:30 - FENS-2374**
ENDOGENOUS PROGESTERONE LEVELS ARE ASSOCIATED WITH ALPHA OSCILLATIONS IN YOUNG WOMEN 1080
C. Broetzner, H.H.K. Kerschbaum, W.K. Klimesch *(Salzburg, Austria)*

F005 **SUN 6/7/2014, 13:30 - FENS-1102**
ALTERING SPATIAL PRIORITY MAPS VIA REWARD-BASED LEARNING 1081
R. Calletti, J. Etocinová, E. Lo Gerfo, I. Sani, C. Della Libera, E. Santandrea, L. Chelazzi *(Verona, Italy)*

F006 **SUN 6/7/2014, 14:30 - FENS-3302**
ATTENTIONAL BIASES ASSOCIATED WITH EMOTIONAL STIMULI IN PEOPLE WITH FIBROMYALGIA: A PRELIMINARY STUDY WITH AN ODDBALL DUAL-TASK PARADIGM 1082
S. Cardoso, V. Guerra, P. Barjola, D. Esculpi, D. R. Pereira, I. Pelaez, F. Mercado, S. Torres, F. Barbosa *(Coimbra, Portugal)*

F007 **SUN 6/7/2014, 13:30 - FENS-0311**
CONTINUOUS MONITORING OF COVERT ATTENTIONAL TRACKING THROUGH STEADY-STATE VISUAL EVOKED POTENTIALS (SSVEP) 1083
C. De'Sperati, E. Calore, R. Gregori Grgîc, D. Marini *(Milano, Italy)*

F008 **SUN 6/7/2014, 14:30 - FENS-3296**
HIGH-FREQUENCY STEADY STATE VISUAL EVOKED POTENTIALS AS AN INDICATOR OF ATTENTION 1084
A. Duszyk, R. Kus, P. Durka *(Warszawa, Poland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F009 **SUN 6/7/2014, 13:30 - FENS-2784**
CROSSSMODAL SEMANTIC PRIMING OF VISUAL SENSITIVITY WITH ONOMATOPOEIA 1085
A. Fidalgo, K. Takahashi, K. Watanabe *(London, United Kingdom)*

F010 **SUN 6/7/2014, 14:30 - FENS-0131**
THE IMPACT OF LOW-TECH SENSORY INTERVENTIONS ON PSEUDONEGLECT 1086
K. Forte, R.A.P. Roche *(Kildarei, Ireland)*

F011 **SUN 6/7/2014, 13:30 - FENS-3098**
EEG AND NIRS AFTER VIBROTACTILE STIMULATION: A NOVEL METHOD TO DIFFERENTIATE BETWEEN BEST POSSIBLE, INTENTIONALLY DELAYED OR FAILED MOTOR ANSWERS 1087
C. Frischholz, B.J. Dangel, S. Grams, F. Häußinger, A.C. Ehlis, A.J. Fallgatter, B.C.J. Liske *(Tübingen, Germany)*

F012 **SUN 6/7/2014, 14:30 - FENS-2646**
DISENTANGLING PERSPECTIVE-TAKING AND SPATIAL COMPATIBILITY EFFECTS 1088
L. Gawryszewski, L. Riggio, J.A. Lemos-da-Silva, L.V. Kamarowski, S. De Oliveira *(Niteroi, Brazil)*

F013 **SUN 6/7/2014, 13:30 - FENS-3053**
ELECTROPHYSIOLOGICAL CORRELATES OF ATTENTIONAL FUNCTIONS IN TEENAGERS WITH ADHD AND HEALTHY CONTROLS 1089
K. Giertuga, M. Magnuski, M. Zakrzewska, M. Bielecki, M. Kossut, A. Cybulska-Klosowicz *(Warsaw, Poland)*

F014 **SUN 6/7/2014, 14:30 - FENS-0324**
LOCALIZATION OF THE EFFECT OF VISUAL STIMULI INTENSITY ON SIMPLE REACTION TIME TASK: AN FMRI STUDY 1090
M. Gut, I. Szumska, I. Roszuk, W. Szeszkowski, P. Jaskowski *(Torun, Poland)*

F015 **SUN 6/7/2014, 13:30 - FENS-1112**
INTER- AND INTRA-SUBJECT VARIABILITY AND THE MEG CORRELATES OF TASK-SWITCHING 1091
M. Huotilainen, L. Ahonen, J. Lukander, S. Pakarinen *(Helsinki, Finland)*

F016 **SUN 6/7/2014, 14:30 - FENS-3615**
CHANGES IN ALPHA OSCILLATIONS ARE ASSOCIATED WITH IDENTIFICATION OF MUSICAL INSTRUMENTS 1092
E. Lehner, C.P. Brötzner, N. Bresgen, W. Klimesch, H.H. Kerschbaum *(Salzburg, Austria)*

F017 **SUN 6/7/2014, 13:30 - FENS-2354**
JOB BURNOUT, SLEEP-RELATED PROBLEMS AND BLINKING BEHAVIOUR DURING COGNITIVELY DEMANDING TASKS 1093
M. Leinikka, L. Sokka, M. Huotilainen, J. Korpela, A. Henelius, S. Pakarinen *(Helsinki, Finland)*

F06: HUMAN COGNITION AND BEHAVIOUR - SOCIAL COGNITION

F018 **SUN 6/7/2014, 14:30 - FENS-3117**
THEORY AND PRACTICE OF NEUROANTHROPOLOGY IN A GLOBAL CONTEXT 1094
N. Araneda Hinrichs, Z.V. Pardo Alvarado *(Concepción, Chile)*

F019 **SUN 6/7/2014, 13:30 - FENS-1710**
SOCIAL RESPONDING AND KNOWLEDGE IN THOSE WITH AUTISM SPECTRUM DISORDER IN EVERYDAY AWKWARD INTERACTIONS 1095
G. Bellesi, L. Jameel, K. Vyas, S. Channon *(London, United Kingdom)*

F020 **SUN 6/7/2014, 14:30 - FENS-3484**
CONCATENATION OF OBSERVED GRASP PHASES WITH OBSERVER'S DISTAL MOVEMENTS: A BEHAVIOURAL AND TMS STUDY 1096
D. De Marco, E. De Stefani, A. Innocenti, M. Gentilucci *(Parma, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F021 **SUN 6/7/2014, 13:30 - FENS-1320**
AGGRESSIVE-NEUTRAL-GENTLE: LOOKING THROUGH THE STYLE OF ACTION 1097
G. Di Cesare, C. Di Dio, E. Ruffaldi *(Parma, Italy)*

F022 **SUN 6/7/2014, 14:30 - FENS-1379**
THE DORSOMEDIAL PREFRONTAL CORTEX PLAYS A CAUSAL ROLE IN INTEGRATING SOCIAL IMPRESSIONS FROM FACES AND VERBAL DESCRIPTIONS 1098
C. Ferrari, C. Lega, M. Vernice, M. Tamietto, P. Mende-Siedleki, T. Vecchi, A. Todorov, Z. Cattaneo *(Pavia, Italy)*

F023 **SUN 6/7/2014, 13:30 - FENS-1415**
TOP-DOWN MODULATION OF CORTICOSPINAL EXCITABILITY: A TMS STUDY ON THE PLACEBO EFFECT 1099
M. Fiorio, M. Emadi Andani, A. Marotta, J. Classen, M. Tinazzi *(Verona, Italy)*

F024 **SUN 6/7/2014, 14:30 - FENS-0377**
SURVIVING AT ANY COST: GUILT EXPRESSION FOLLOWING MORAL VS. UTILITARIAN EXTREME CONFLICTS 1100
C. Cristofari, M. Guitton *(Québec, Canada)*

F025 **SUN 6/7/2014, 13:30 - FENS-0851**
THE ROLE OF ANTERIOR CINGULATE NEURONS IN REINFORCING POSITIVE SOCIAL INTERACTIONS 1101
K. Haroush, Z.M. Williams *(Boston, USA)*

F026 **SUN 6/7/2014, 14:30 - FENS-3043**
STIMULUS PRECEDING NEGATIVITY DURING ANTICIPATION OF SOCIAL ACCEPTANCE: A POSSIBLE ENDOPHENOTYPE OF SOCIAL ANXIETY DISORDER? 1102
A. Harrewijn, M.J.W. Van der Molen, P.M. Westenberg *(Leiden, The Netherlands)*

F027 **SUN 6/7/2014, 13:30 - FENS-2783**
DIFFERENTIAL EFFECTS OF OXYTOCIN IN THE MEDIAL AND CENTRAL AMYGDALA AS A BASIS FOR ITS ROLE AS A SOCIAL MOLECULE 1103
C. Hegoburu, S. Chenaux, E. Charrière, C. Grundschober, R. Stoop *(Lausanne, Switzerland)*

F028 **SUN 6/7/2014, 14:30 - FENS-1945**
GOING ABOVE AND BEYOND': PRO-SOCIAL BEHAVIOUR IN GROUPS HIGH AND LOW IN AUTISTIC TRAITS 1104
L. Jameel, K. Vyas, G. Bellesi, V. Roberts, S. Channon *(London, United Kingdom)*

F029 **SUN 6/7/2014, 13:30 - FENS-2940**
ERP AND FMRI CORRELATES OF FACIAL EXPRESSIONS ACCOMPANYING SOCIAL INTERACTIONS: NEW IMPLICATIONS FOR THE FUNCTIONAL FACE PERCEPTION MODEL 1105
Z. Kovács-Bálint, A. Trunk, G. Stefanics, I. Hernádi *(Pécs, Hungary)*

F030 **SUN 6/7/2014, 14:30 - FENS-3476**
DECREASED EMOTION RECOGNITION IS ASSOCIATED WITH IMPAIRED ACTIVITY OF DAILY LIVING IN THE PATIENT WITH EARLY ALZHEIMER'S DISEASE 1106
H. Lee, A. Cho, J. Lee, P. Ko, K. Kang, M. Chang, H. Kwak *(Daegu, Korea)*

F031 **SUN 6/7/2014, 13:30 - FENS-3640**
CHOOSING BETWEEN MOTIVATIONALLY SIMILAR VALUES ACTIVATES THE SUPPLEMENTARY MOTOR AREA 1107
E. Leszkowicz, D. Linden, G.R. Maio, N. Ihssen *(Gdansk, Poland)*

F032 **SUN 6/7/2014, 14:30 - FENS-1845**
EMPATHY FOR SOCIAL EXCLUSION INVOLVES THE SENSORY-DISCRIMINATIVE COMPONENT OF PAIN: A WITHIN-SUBJECTS FMRI STUDY 1108
G. Novembre, M. Zanon, G. Silani *(Trieste, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F033 **SUN 6/7/2014, 13:30 - FENS-0280**

CORTICAL ACTIVATION DURING IMITATIVE BEHAVIOR IN CONTROL SUBJECTS AND CALLOSOTOMIZED PATIENTS 1109

C. Pierpaoli, G. Polonara, N. Foschi, U. Salvolini, G. Berlucchi, M. Fabri *(Ancona, Italy)*

F034 **SUN 6/7/2014, 14:30 - FENS-2675**

THE ROLE OF THE OCCIPITAL FACE AREA IN DETECTION AND HOLISTIC PROCESSING OF FACES: A TDCS STUDY 1110

S. Schiavi, C. Ferrari, A. Pisoni, C. Papagno, T. Vecchi, A. Antal, C. Renzi, Z. Cattaneo *(Merate, Italy)*

F035 **SUN 6/7/2014, 13:30 - FENS-1572**

DEFICITS IN SOCIAL COGNITION IN METHAMPHETAMINE DEPENDANTS WITH AND WITHOUT A HISTORY OF PSYCHOSIS 1111

A. Uhlmann, D. Wilson, E. Meintjes, D. Stein *(Cape Town, South Africa)*

F036 **SUN 6/7/2014, 14:30 - FENS-2414**

SECOND LANGUAGE WORD LEARNING IN SOCIAL INTERACTION 1112

L. Verga, S.A. Kotz *(Leipzig, Germany)*

F037 **SUN 6/7/2014, 13:30 - FENS-1687**

PROSOCIAL BEHAVIOUR IN GROUPS HIGH AND LOW IN PSYCHOPATHIC TRAITS 1113

K. Vyas, L. Jameel, S. Channon *(London, United Kingdom)*

F084 **SUN 6/7/2014, 14:30 - FENS-0682**

BIOMARKERS FOR BRAIN DISORDERS IN PATIENTS WITH CHRONIC FATIGUE SYNDROME 1114

O. Safonicheva *(Russia)*

F07: ANIMAL COGNITION AND BEHAVIOUR - COGNITIVE LEARNING AND MEMORY SYSTEMS

F038 **SUN 6/7/2014, 14:30 - FENS-1009**

THE TOPOGRAPHICAL ORGANISATION OF SUBICULAR EFFERENTS TO THE DIENCEPHALON IN THE RAT AND THE MACAQUE 1115

K. Christiansen, N.F. Wright, R.C. Saunders, S.D. Vann, J.P. Aggleton *(Cardiff, United Kingdom)*

F039 **SUN 6/7/2014, 13:30 - FENS-1246**

ENVIRONMENTAL ENRICHMENT ENGAGES SYNAPTIC ZINC SIGNALING TO MODULATE HIPPOCAMPAL PLASTICITY 1116

M. Chrusch, S.C. Spanswick, P. Patel, H. Vecchiarrelli, M.N. Hill, R.H. Dyck *(Calgary, Canada)*

F040 **SUN 6/7/2014, 14:30 - FENS-3649**

BEHAVIOR AND BIOCHEMICAL EFFECTS OF CAFETERIA DIET WITH EITHER HIGH INTENSITY OR LOW INTENSITY EXERCISE IN ADULT FEMALE RATS 1117

I. Cigarroa, A. Caimari, J.M. Del Bas, J.F. Lalanza, L. Capdevila, L. Arola, R.M. Escorihuela *(Barcelona, Spain)*

F041 **SUN 6/7/2014, 13:30 - FENS-2115**

NEURAL CORRELATES OF PROACTIVE AND RETROACTIVE INTERFERENCE IN THE MONKEY DORSOLATERAL PREFRONTAL AND POSTERIOR PARIETAL CORTEX 1118

C. Constantinidis, X.L. Qi *(Winston-Salem, USA)*

F042 **SUN 6/7/2014, 14:30 - FENS-1846**

INCREASE IN TASK COMPLEXITY IN BARNES MAZE UNMASKS SCHIZOPHRENIA-LIKE COGNITIVE PHENOTYPE IN 129SV MICE 1119

B. Crouch, B. Platt, G. Riedel *(Aberdeen, United Kingdom)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F043 **SUN 6/7/2014, 13:30 - FENS-3207**
BUILDING THE ATTRACTOR: GRID CELLS AND STRUCTURED CONNECTIVITY EMERGENCE IN A SELF-ORGANIZING MODEL 1120
B. Dunn, F. Stella, Y. Roudi, A. Treves *(Trondheim, Norway)*

F044 **SUN 6/7/2014, 14:30 - FENS-0567**
MORPHOLOGY OF ENTORHINAL INTERNEURONS 1121
B. Jacobsen, A. Phan, M. Sorati, M.P. Witter *(Trondheim, Norway)*

F045 **SUN 6/7/2014, 13:30 - FENS-3642**
ORGANIZATION OF ENTORHINAL-HIPPOCAMPAL PROJECTIONS IN THE EGYPTIAN FRUIT BAT 1122
H. Kleven, W. Gatome, L. Las, N. Ulanovsky, M.P. Witter *(Trondheim, Norway)*

F046 **SUN 6/7/2014, 14:30 - FENS-0585**
REPRESENTATION OF GEOMETRIC BORDERS IN THE DEVELOPING RAT 1123
T. L. Bjerknes, E.I. Moser, M.B. Moser *(Trondheim, Norway)*

F047 **SUN 6/7/2014, 13:30 - FENS-1918**
REDUCED RATE REMAPPING IN HIPPOCAMPAL SUBREGION CA2 1124
L. Lu, K.M. Igarashi, M.P. Witter, M.B. Moser, E.I. Moser *(Trondheim, Norway)*

F048 **SUN 6/7/2014, 14:30 - FENS-2227**
DORSOVENTRAL GRADIENTS IN ENTORHINAL-HIPPOCAMPAL INHIBITORY NETWORKS 1125
C. Miao, Q. Cao, M. Witter, E. Moser, M. Moser *(Trondheim, Norway)*

F049 **SUN 6/7/2014, 13:30 - FENS-0815**
LOCAL CONNECTIVITY BETWEEN PRINCIPAL NEURONS IN LAYER II OF LATERAL ENTORHINAL CORTEX 1126
E. Nilssen, P. Kvello, M.P. Witter *(Trondheim, Norway)*

F050 **SUN 6/7/2014, 14:30 - FENS-1929**
DEVELOPMENT OF ANATOMICAL CONNECTIONS BETWEEN RETROSPLENIAL CORTEX AND THE (PARA) HIPPOCAMPAL REGION 1127
J. Sugar, K.G. Haugland, M.P. Witter *(Trondheim, Norway)*

F051 **SUN 6/7/2014, 13:30 - FENS-1717**
INTERHEMISPHERIC CONNECTIONS BETWEEN LEFT AND RIGHT MEDIAL ENTORHINAL CORTICES 1128
K. Zheng, O. W Simonsen, M. P Witter *(Trondheim, Norway)*

F052 **SUN 6/7/2014, 14:30 - FENS-0852**
ACTIVITY OF OPTOGENETICALLY IDENTIFIED DOPAMINERGIC NEURONS IN THE VENTRAL TEGMENTAL AREA DURING EXPLORATION OF FAMILIAR AND NOVEL ENVIRONMENTS 1129
A. Duszkiewicz, T. Takeuchi, K. Deisseroth, R.G.M. Morris *(Edinburgh, United Kingdom)*

F053 **SUN 6/7/2014, 13:30 - FENS-0598**
SELECTIVE INTERVENTION IN HIPPOCAMPAL VS. CORTICAL CONSOLIDATION 1130
L. Genzel, J. Rossato, R. Fitzpatrick, R.G.M. Morris *(Edinburgh, United Kingdom)*

F054 **SUN 6/7/2014, 14:30 - FENS-2947**
DIFFERENTIAL INVOLVEMENT OF HIPPOCAMPUS AND PREFRONTAL CORTEX ON SPATIAL MEMORY RECONSOLIDATION AFTER ITS EXPRESSION 1131
J. Rossato, A. Radiske, C.A. Kohler, R.H. Lima, L.R. Bevilaqua, M. Cammarota *(Edinburgh, United Kingdom)*

F055 **SUN 6/7/2014, 13:30 - FENS-2104**
SELECTIVE CATECHOLAMINERGIC CONTROL OF INITIAL MEMORY CONSOLIDATION IN MICE 1132
T. Takeuchi, A.J. Duszkiewicz, D. Tse, K. Deisseroth, R.G.M. Morris *(Edinburgh, United Kingdom)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F08: ANIMAL COGNITION AND BEHAVIOUR - FEAR AND AVERSIVE LEARNING AND MEMORY

F056 **SUN 6/7/2014, 14:30 - FENS-1504**
INTERLEUKIN 6 AFFECTS SPONTANEOUS ACTIVITY AND ANXIETY DRIVEN BEHAVIOR IN AGING MICE 1133
A. Aniszewska, N. Chlodzinska, R. Djavadian, K. Turlejski *(Warsaw, Poland)*

F057 **SUN 6/7/2014, 13:30 - FENS-2361**
PROTEIN SYNTHESIS DEPENDENCY OF POSTRAUMATIC STRESS DISORDER DEVELOPMENT IN MICE 1134
K. Anokhin *(Moscow, Russia)*

F058 **SUN 6/7/2014, 14:30 - FENS-2062**
SELECTIVE C-FOS EXPRESSION IN MOUSE ASSOCIATIVE AND SENSORY CORTICES AFTER MEMORY ACQUISITION AND RETRIEVAL IN COMPOUND FEAR CONDITIONING TASK 1135
O. Ivashkina, K. Toropova, M. Roshchina, K. Anokhin *(Moscow, Russia)*

F059 **SUN 6/7/2014, 13:30 - FENS-2065**
NUCLEOSIDE ANALOG REVERSE-TRANSCRIPTASE INHIBITOR 3'-AZIDO-3'-DEOXYTHYMIDINE (AZT) IMPAIRS HIPPOCAMPUS-DEPENDENT MEMORY IN MICE 1136
M. Roshchina, O.I. Ivashkina, D.A. Zubkov, K.V. Anokhin *(Moscow, Russia)*

F060 **SUN 6/7/2014, 14:30 - FENS-1522**
MICE FORM COMPLEX ASSOCIATIVE MEMORY IN THE COMPOUND TONE-LIGHT FEAR CONDITIONING TASK 1137
K. Toropova, O. Ivashkina, M. Roshchina, K.V. Anokhin *(Moscow, Russia)*

F061 **SUN 6/7/2014, 13:30 - FENS-2082**
ANXIOLYTIC-LIKE EFFECTS OF EPICATECHIN IN SHORT-TERM OVACTEROMIZED RAT 1138
A. Atona, R. Bustamante Garcia, D. Hernandez, E. Diaz Martinez, I. Ramirez Sanchez, T. Neri Gomez *(Mexico, Mexico)*

F062 **SUN 6/7/2014, 14:30 - FENS-2563**
DISRUPTION OF PERINEURONAL NETS IN MICE LACKING CRTL1 IS SUFFICIENT TO MAKE FEAR MEMORIES SUSCEPTIBLE TO ERASURE 1139
N. Berardi, A. Poli, S. Morea, E. Putignano, R. Melani, J.W. Fawcett, T. Pizzorusso *(Florence, Italy)*

F063 **SUN 6/7/2014, 13:30 - FENS-3537**
NMDA RECEPTOR AND PRESYNAPTIC ACTIVITY IN THE LATERAL/BASOLATERAL AMYGDALA NEURONS IS NOT REQUIRED FOR THE RETRIEVAL OF CUED-FEAR MEMORY 1140
I. Bertocchi, D. Arcos-Diaz, P. Botta, G. Dogbevia, A. Lüthi, R. Sprengel, M.T. Hasan *(Heidelberg, Germany)*

F065 **SUN 6/7/2014, 13:30 - FENS-0944**
THE RECALL OF FEAR MEMORY RECRUITS THETA ACTIVITY IN THE SECONDARY AUDITORY CORTEX AT RECENT AND REMOTE TIME-POINTS 1141
M. Cambiaghi, B. Sacchetti *(Turin, Italy)*

F066 **SUN 6/7/2014, 14:30 - FENS-0376**
PRELIMBIC CORTEX STIMULATION DURING MEMORY CONSOLIDATION INDUCES INAPPROPRIATE FEAR RESPONSES 1142
A. C. Vanvossen, C. Stern, H. Guerra, L.J. Bertoglio *(Florianópolis, Brazil)*

F067 **SUN 6/7/2014, 13:30 - FENS-0267**
THE ACTIVATION OF BETA2- AND BETA3-ADRENERGIC RECEPTORS IN THE DORSAL HIPPOCAMPUS IS NECESSARY FOR FEAR GENERALIZATION IN RATS 1143
L. Gazarini, C.A.J. Stern, L.J. Bertoglio *(Florianópolis, Brazil)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F068 **SUN 6/7/2014, 14:30 - FENS-0365**
PREFRONTAL-VENTRAL PERIAQUEDUCTAL GRAY PATHWAY REGULATES FEAR BEHAVIOR 1144
F. Chaudun, J. Courtin, C. Dejean, R. Rozeske, S. Valerio, H. Wurtz, C. Herry *(Bordeaux, France)*

F069 **SUN 6/7/2014, 13:30 - FENS-0673**
PREFRONTAL INTERNEURONS IN FEAR BEHAVIOR 1145
J. Courtin, H. Wurtz, C. Herry *(Bordeaux, France)*

F070 **SUN 6/7/2014, 14:30 - FENS-3363**
MEDIAL PREFRONTAL CORTEX NEURONAL ENSEMBLES ENCODE CONDITIONED FEAR BEHAVIOR 1146
C. Dejean, J. Courtin, N. Karalis, H. Wurtz, C. Herry *(Bordeaux, France)*

F071 **SUN 6/7/2014, 13:30 - FENS-2852**
NEURONAL CIRCUITS IN THE BASOLATERAL AMYGDALA SUPPORTING FEAR MEMORY STRENGTHENING 1147
E. Einarsson, H. Wurtz, C. Herry *(Bordeaux, France)*

F072 **SUN 6/7/2014, 14:30 - FENS-1267**
LONG-RANGE SYNCHRONIZATION OF PREFRONTAL-AMYGDALA NEURONAL CIRCUITS DURING FEAR BEHAVIOR 1148
N. Karalis, J. Courtin, C. Dejean, F. Chaudun, R. Rozeske, H. Wurtz, C. Herry *(Tübingen, Germany)*

F073 **SUN 6/7/2014, 13:30 - FENS-0742**
PREFRONTAL CIRCUITS OF CONTEXTUAL FEAR DISCRIMINATION 1149
R. Rozeske, F. Chaudun, S. Khoder, N. Karalis, H. Wurtz, C. Herry *(Bordeaux, France)*

F074 **SUN 6/7/2014, 14:30 - FENS-0895**
MAJOR ROLE OF DYSTROPHIN IN FEAR RESPONSES: PHENOTYPIC CHARACTERIZATION AND BEHAVIORAL RESCUE BY ANTISENS-MEDIATED EXON SKIPPING IN THE MDX MOUSE 1150
R. Chaussenot, A. Goyenvalle, G. Griffith, C. Leumann, B. Dugovic, S. Laroche, L. Garcia, C. Vaillend *(Orsay, France)*

F075 **SUN 6/7/2014, 13:30 - FENS-2190**
ROLE OF THE MEDIAL PREFRONTAL CORTEX AND AMYGDALA IN DISCRIMINATORY AVOIDANCE LEARNING 1151
J. Choi, Y. Lee *(Seoul, Korea)*

F076 **SUN 6/7/2014, 14:30 - FENS-2124**
ROLE OF THE 5-HT6 RECEPTOR DURING EXPOSURE TO CONTROLLABLE VERSUS UNCONTROLLABLE AVERSIVE STIMULI 1152
R. Daut, J. Amat, L.R. Watkins, S.F. Maier *(Boulder, USA)*

F077 **SUN 6/7/2014, 13:30 - FENS-0600**
PRELIMBIC-INFRALIMBIC NETWORK IN CONDITIONED FEAR AND EXTINCTION LEARNING: A COMPUTATIONAL STUDY 1153
G. Fenton, C.W. Stevenson, R. Mason, M. Owen, S. Coombes *(Kegworth, United Kingdom)*

F078 **SUN 6/7/2014, 14:30 - FENS-0555**
PERSISTENT PRELIMBIC CORTEX ACTIVITY CONTRIBUTES TO ENHANCED LEARNED FEAR EXPRESSION IN FEMALES 1154
C. Stevenson, A. Pollard, D. Halliday, R. Mason, T. Bredy, G. Fenton *(Loughborough, United Kingdom)*

F079 **SUN 6/7/2014, 13:30 - FENS-3133**
MOLECULAR MECHANISMS BEHIND INFLAMMATION-INDUCED AVERSION 1155
M. Fritz, A. Klawonn, D.B. Wilhelms, M. Lazarus, U. Ortegren, M. Jaarola, D.A. Ridder, J. Rodriguez Parkitna, M. Schwaninger, C.B. Saper, A. Blomqvist, D. Engblom *(Linköping, Sweden)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F080 **SUN 6/7/2014, 14:30 - FENS-1214**

INVOLVEMENT OF THE MEDIAL PREFRONTAL CORTEX IN CONDITIONED TASTE AVERISON MEMORY PROCESSING 1156

C. Gonzalez, M.E. Villar, M. Tomaiuolo, N.V. Weisstaub, H. Viola, J.H. Medina *(Buenos Aires, Argentina)*

F081 **SUN 6/7/2014, 13:30 - FENS-2634**

THE POSTERIOR BED NUCLEUS OF STRIA TERMINALIS IS IMPORTANT FOR ADEQUATE STRESS RECOVERY; AN OPTOGENETICS APPROACH 1157

M. Henckens, U. Shamgar, Y. Drori, M. Lebow, O. Issler, N. Justice, A. Chen *(Rehovot, Israel)*

F082 **SUN 6/7/2014, 14:30 - FENS-1284**

NEURONAL CIRCUITS UNDERLYING FEAR REINSTATEMENT 1158

N. Imamura, Y. Miura, C. Teshirogi, H. Shen, Y. Ikegaya, N. Matsuki, H. Nomura *(Tokyo, Japan)*

F083 **SUN 6/7/2014, 13:30 - FENS-0094**

DISSOCIABLE REQUIREMENT FOR RAPID AND LATE ARC/ARG3.1 SYNTHESIS IN FORMATION AND PERSISTENCE OF FEAR MEMORY 1159

D. Nakayama, H. Iwata, C. Teshirogi, Y. Ikegaya, N. Matsuki, H. Nomura *(Tokyo, Japan)*

G03: MOLECULAR AND GENETIC TECHNIQUES

G001 **SUN 6/7/2014, 13:30 - FENS-1338**

DEVELOPMENT OF A MAMMALIAN CELL LINE WITH STABLE EXPRESSION OF HUMAN AMYLOID BETA PRECURSOR PROTEIN 1160

G. Alquicer Barrera, P. Zimcík, V. Doleal *(Prague, Czech Republic)*

G002 **SUN 6/7/2014, 14:30 - FENS-2045**

DEFINING MIDBRAIN DOPAMINERGIC NEURON DIVERSITY BY SINGLE-CELL GENE PROFILING 1161

R. Awatramani, J.F. Poulin, J. Zou, F. Cicchetti, J. Drouin-Ouellet *(Chicago, USA)*

G003 **SUN 6/7/2014, 13:30 - FENS-2180**

COLOCALIZATION OF C-FOS AND ARC/ARG3.1 EXPRESSION IN DISSOCIATED PRIMARY MOUSE CORTICAL NEURONAL CULTURES 1162

A. Azieva, O. Subach, F. Subach, M. Burtsev *(Moscow, Russia)*

G004 **SUN 6/7/2014, 14:30 - FENS-2919**

A GOLGI TRACKING SYSTEM TO VISUALIZE GOLGI OUT-POSTS IN LIVING NEURONS 1163

S. Bera, R. Frischknecht, M. Kreutz, M. Mikhaylova *(Magdeburg, Germany)*

G005 **SUN 6/7/2014, 13:30 - FENS-2867**

DYNAMIC MODULATION OF FGFR1-5-HT1A HETERORECEPTOR COMPLEXES: AGONIST TREATMENT ENHANCES PARTICIPATION OF FGFR1 AND 5-HT1A HOMODIMERS AND RECRUITMENT OF B-ARRESTIN2 1164

D. Borroto-Escuela, F. Corrales, M. Narváez, J. Oflijan, M. Di Palma, N. Belluardo, L.F. Agnati, I. Brito, K. Fuxe *(Stockholm, Sweden)*

G006 **SUN 6/7/2014, 14:30 - FENS-1913**

EXPLORING SHANK-3 REGULATING PATHWAYS USING HUMAN PLURIPOTENT STEM CELL-DERIVED NEURONS 1165

H. Darville, A. Poulet, R. Delorme, F. Coge, M.J. Millan, T. Bourgeron, M. Peschanski, A. Benchoua *(Evry, France)*

G007 **SUN 6/7/2014, 13:30 - FENS-2922**

DYNAMIC PATTERN DESIGN - A NEW TOOL FOR IN SITU GUIDANCE OF NEURITES 1166

H. Dermutz, R. Grüter, A. Truong, L. Demko, T. Zambelli, J. Vörös *(Zurich, Switzerland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G008 **SUN 6/7/2014, 14:30 - FENS-3449**
CELL-TYPE-SPECIFIC TRANSLATIONAL PROFILING OF PROJECTION NEURONS 1167
M. Ekstrand, A. Nectow, J. Friedman *(New York, USA)*

G009 **SUN 6/7/2014, 13:30 - FENS-3447**
MOLECULAR ANNOTATION OF DEFINED NEURAL POPULATIONS USING VIRAL TRAP 1168
A. Nectow, M. Ekstrand, J. Friedman *(New York, USA)*

G04: PHYSIOLOGICAL METHODS - ELECTROPHYSIOLOGY

G010 **SUN 6/7/2014, 14:30 - FENS-1517**
SUBCELLULAR CHEMICAL STIMULATION OF NEURONAL CULTURES USING THE FLUIDFM NANOPIPETTE COMBINED WITH MEA RECORDING 1169
M.J. Aebersold, H. Dermutz, J.F. Saenz Cogollo, L. Demkó, T. Zambelli, J. Vörös *(Zürich, Switzerland)*

G011 **SUN 6/7/2014, 13:30 - FENS-1763**
ALZHEIMER'S DISEASE (AD) IN-VITRO MODEL: A NOVEL DRUG SCREENING APPROACH ON 4096-MICROELECTRODE RECORDING ARRAYS 1170
H. Amin, A. Maccione, T. Nieus, L. Berdondini *(Genova, Italy)*

G012 **SUN 6/7/2014, 14:30 - FENS-3288**
A HIGH-RESOLUTION EXPERIMENTAL PLATFORM FOR LARGE-SCALE RECORDING OF LIGHT-EVOKED RESPONSES IN THE RETINAL GANGLION CELL LAYER 1171
S. Di Marco, A. Maccione, T. Nieus, M. Hennig, S. Pirmoradian, G. Hilgen, E. Sernagor, L. Berdondini *(Genova, Italy)*

G013 **SUN 6/7/2014, 13:30 - FENS-1782**
DIFFERENTIATION AND FUNCTIONAL INTEGRATION OF ADULT-BORN HIPPOCAMPAL NEURONS: A STUDY ON HIGH-RESOLUTION MICROELECTRODE ARRAYS (MEA) 1172
A. Simi, A. Maccione, T. Nieus, D. De Pietri Tonelli, L. Berdondini *(Genova, Italy)*

G014 **SUN 6/7/2014, 14:30 - FENS-2422**
CHARACTERIZATION OF THERMAL EPIDURAL EFFECTS ASSOCIATED TO TRANSCRANIAL DIRECT CURRENT STIMULATION OF MOTOR CORTEX IN ALERT RABBITS 1173
C. Ammann, A. Gruart, J.M. Delgado-García, J. Márquez-Ruiz *(Sevilla, Spain)*

G015 **SUN 6/7/2014, 13:30 - FENS-0181**
EFFECTS OF ELECTRICAL PULSE POLARITY SHAPE ON INTRA COCHLEAR NEURAL RESPONSES IN HUMANS: TRIPHASIC PULSES WITH CATHODIC SECOND PHASE 1174
A. Bahmer, U. Baumann *(Frankfurt, Germany)*

G016 **SUN 6/7/2014, 14:30 - FENS-2593**
NEW MEDIUM SUPPORTING THE ACTIVITY OF HUMAN IPSC-DERIVED NEURONS IN VITRO 1175
C. Bardy, M. Van Den Hurk, C. Marchand, T.J. Eames, R. Hernandez, M. Kellogg, L. Boyer, S. Simon, F.H. Gage *(La Jolla, USA)*

G017 **SUN 6/7/2014, 13:30 - FENS-2965**
EFFECT OF TRANSCRANIAL STATIC MAGNETIC FIELDS OVER THE PARIETAL CORTEX STIMULATION ON SOMATOSENSORY EVOKED POTENTIALS IN HUMANS 1176
M. Carrasco, V. Soto-Leon, V.R. Cespedes-Nava, P. Profice, A. Oliviero, G. Foffani *(Toledo, Spain)*

G018 **SUN 6/7/2014, 14:30 - FENS-3026**
EFFECTS OF TRANSCRANIAL STATIC MAGNETIC FIELD STIMULATION (TSMS) OVER THE HUMAN VISUAL CORTEX: BEHAVIOURAL AND ELECTROPHYSIOLOGICAL EFFECTS 1177
J. Gonzalez-Rosa, V. Soto-Leon, P. Real, G. Foffani, B. Strange, A. Oliviero *(Madrid, Spain)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G019 **SUN 6/7/2014, 13:30 - FENS-3554**
INTERRELATION OF AUTONOMOUS PACEMAKER AREAS OF URETER AND URINARY BLADDER IN RAT 1178
L. Simonyan, K.V. Kazaryan, R.G. Chibukhchyan *(Yerevan, Armenia)*

G020 **SUN 6/7/2014, 14:30 - FENS-3606**
THE USE OF INTESTINAL NERVE TISSUE AS A GATEWAY TO STUDY NEURONAL (PATHO)PHYSIOLOGY IN HUMANS 1179
C. Cirillo, J. Tack, P. Vanden Berghe *(Leuven, Belgium)*

G021 **SUN 6/7/2014, 13:30 - FENS-3761**
HIGH CONTENT INTEGRATED IN VITRO TESTING STRATEGY FOR CHEMICAL NEUROTOXICITY EVALUATION 1180
E. Defranchi, S. Alloisio, A. Novellino, S. Martinoia *(Chiavari, Italy)*

G022 **SUN 6/7/2014, 14:30 - FENS-1516**
SELINE, A NEW SELF-OPENING ELECTRODE TO INTERFACE THE NERVOUS SYSTEM 1181
J. Del Valle, A. Cutrone, S. Bossi, J. Badia, D. Santos, J. Jaramillo, S. Micera, X. Navarro *(Barcelona, Spain)*

G023 **SUN 6/7/2014, 13:30 - FENS-2941**
FROM AXONAL GUIDANCE TO HYBRID NETWORKS WITH CONTROLLED TOPOLOGY 1182
L. Demko, C. Forró, H. Dermutz, J. Vörös *(Zurich, Switzerland)*

G024 **SUN 6/7/2014, 14:30 - FENS-1382**
CURRENT SOURCE DENSITY ANALYSIS OF NEURONAL ACTION POTENTIALS RECORDED WITH TWO-DIMENSIONAL, HIGH CONTACT DENSITY SILICON PROBES 1183
R. Fiáth, K. Kocsis, P. Beregszászi, I. Ulbert *(Budapest, Hungary)*

G025 **SUN 6/7/2014, 13:30 - FENS-3093**
ELECTROPHYSIOLOGICAL CORRELATES OF CEREBRAL BLOOD FLOW IN INTRACRANIAL ARTERIES OF HEALTHY SUBJECTS 1184
V. Fokin, N. Ponomareva, G. Kuntcevitch *(Moscov, Russia)*

G026 **SUN 6/7/2014, 14:30 - FENS-2895**
MULTIFUNCTIONAL FLEXIBLE NEURAL PROBES FOR BRAIN MACHINE INTERFACES 1185
U. Froriep, A. Canales, X. Jia, C. Lu, R. Koppes, C. Tringides, J. Selvidge, Y. Fink, P. Anikeeva *(Cambridge, USA)*

G027 **SUN 6/7/2014, 13:30 - FENS-3092**
BRAINLEAP CONSORTIUM: DEVELOPMENT OF NOVEL MICROELECTRODES FOR MEASURING SUBTHRESHOLD MEMBRANE POTENTIALS 1186
L. Gentet, S. Ferraina, M. Giugliano, R. Samba, M. Spira *(Lyon, France)*

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- Academic researchers with a promising novel approach to dementia therapy
- SME and small biotechs looking for further preclinical target validation of a new therapeutic small molecule or antibody

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SCIENTIFIC PROGRAMME
MONDAY, JULY 07, 2014

8:30 - 9:30 **Hall A**

PLENARY LECTURE:
PL04: Plenary Lecture

Introducer: S. Arber *(Switzerland)* 1187

NEUROMODULATION OF BRAIN STATES 1188
Y. Dan *(Berkeley, USA)*

9:45 - 11:15 **Hall D**

SYMPOSIUM:
S17: Human brain development and evolution: new approaches and emerging concepts

Chair: F. Polleux *(USA)* 1189

9:50 **GENES EXPRESSED BY HUMAN CORTICAL RADIAL GLIA HELP EXPLAIN DEVELOPMENTAL AND EVOLUTIONARY CORTICAL EXPANSION** 1190
A. Kriegstein, J. Lui, A. Pollen, B. LaMonica, T. Nowakowski, M. Oldham *(San Francisco, USA)*

10:10 **CORTICAL NEUROGENESIS AND BRAIN EVOLUTION** 1191
P. Vanderhaeghen *(Brussels, Belgium)*

10:30 **ROLE OF SRGAP2 AND ITS HUMAN-SPECIFIC PARALOGS IN SYNAPTIC MATURATION** 1192
C. Charrier *(Paris, France)*

10:50 **GENETIC STUDIES OF HUMAN CEREBRAL CORTICAL DEVELOPMENT** 1193
C. Walsh, B.I. Bae, I. Tietjen *(Boston, USA)*

9:45 - 11:15 **Hall F**

SYMPOSIUM:
S18: Oxytocin and vasopressin: anatomical and molecular pathways to modulate brain circuits and behavior

Chairs: V. Grinevich *(Germany)* 1194
B. Chini *(Italy)* 1195

9:50 **VIRAL VECTORS FOR ANATOMY AND PHYSIOLOGY OF HYPOTHALAMIC NEUROPEPTIDES IN MAMMALS** 1196
V. Grinevich *(Heidelberg, Germany)*

10:10 **ZEBRAFISH AS A MODEL TO STUDY THE ANATOMY AND FUNCTION OF HYPOTHALAMO-NEUROHYPOPHYSEAL NEURONS** 1197
G. Levkowitz, S. Anbalagan, J. Biran, J. Blechman, M. Gliksberg, E. Mishor, M. Tahor, E. Wircer, L. Wolchek *(Rehovot, Israel)*

10:30 **NEW PHARMACOLOGICAL TOOLS: FLUORESCENT ANALOGS TO PROBE RECEPTOR DIMERS IN VIVO** 1198
T. Durroux *(Montpellier, France)*

10:50 **ROLE OF OXYTOCIN AND VASOPRESSIN IN ANXIETY AND FEAR RESPONSES** 1199
R. Stoop *(Prilly, Switzerland)*

9:45 - 11:15 **Hall J**

SYMPOSIUM:
S19: Glia in neuronal information processing: from synapses to behaviour.

Chair: N. Rouach *(France)* 1200

9:50 **THE ROLE OF ASTROCYTE-SECRETED FACTORS IN THE FORMATION OF FUNCTIONAL EXCITATORY SYNAPSES** 1201
N. Allen *(La Jolla, USA)*

10:10 **GLIAL CELLS DECODE AND ALTER TRANSMITTER RELEASE OF COMPETING TERMINALS AT MAMMALIAN NEUROMUSCULAR SYNAPSE** 1202
R. Robitaille, H. Darabid *(Montreal, Canada)*

10:30 **UNRAVELING THE ROLE OF ASTROGLIAL CONNEXINS IN SYNAPTIC STRENGTH AND MEMORY** 1203
N. Rouach *(Paris, France)*

10:50 **THE ROLE OF GLIAL TRANSMITTER RECEPTORS IN VIVO** 1204
F. Kirchhoff *(Homburg, Germany)*

9:45 - 11:15 **Hall C**

SYMPOSIUM:
S20: Neurobiological and neurogenetic bases of the link between sleep, stress and depression.

Chairs: F. Holsboer *(Germany)* 1205
L. Imeri *(Italy)* 1206

9:50 **HYPOCRETIN NEURONS AT THE INTERFACE OF SLEEP AND MOOD REGULATION** 1207
V. Fabre, A. Rachalski, S.J. Lin, M. Hamon, G. Vodjdani, J. Adrien *(Paris, France)*

10:10 **NEUROBIOLOGICAL CONSEQUENCES OF CHRONICALLY DISRUPTED SLEEP** 1208
P. Meerlo *(Groningen, The Netherlands)*

10:30 **STUDYING REM SLEEP IN ANIMAL MODELS TO UNDERSTAND DEPRESSION IN HUMANS** 1209
M. Kimura *(Munich, Germany)*

10:50 **CHRONOBIOLOGY OF DEPRESSION: THE ROLE OF CLOCK GENES** 1210
F. Benedetti *(Milan, Italy)*

9:45 - 11:15 **Hall E**

SYMPOSIUM:
S21: Risk factors for vulnerability to addiction.

Chair: L. Coolen *(USA)* 1211

9:50 **IMPULSIVITY IN ADDICTION: HORMONAL AND MONOAMINERGIC MECHANISMS AND TREATMENT OPPORTUNITIES** 1212
T. Pattij, T.J. De Vries, A.N.M. Schoffelmeer *(Amsterdam, The Netherlands)*

10:10 **INSULIN-INDUCED EFFECTS IN THE VENTRAL TEGMENTAL AREA** 1213
S. Borgland, S. Liu, A. Globa, F. Mills, S.X. Bamji *(Vancouver, Canada)*

10:30 **EFFECTS OF NATURAL REWARD EXPERIENCE AND DEPRIVATION ON DRUG REWARD** 1214
L. Coolen *(Jackson, USA)*

10:50 **EXTENDED AMYGDALA AND HYPOTHALAMIC CIRCUITS FOR REGULATING DISTINCT MOTIVATED BEHAVIORAL STATES** 1215
G. Stuber *(Chapel Hill, USA)*

9:45 - 11:15 **Hall I**

SYMPOSIUM:
S22: In vivo functional recording of neuronal population activity.

Chair: B. Rózsa *(Hungary)* 1216

9:50 **IN VIVO CALCIUM IMAGING OF NEURONS AND MICROGLIA IN MOUSE MODELS OF NEURODEGENERATIVE DISEASES** 1217
O. Garaschuk *(Tübingen, Germany)*

10:10 **VISUALIZING THE DEVELOPMENT OF ON/OFF MAPS IN FERRET VISUAL CORTEX** 1218
D. Fitzpatrick, G. Smith, D. Whitney *(Jupiter, USA)*

10:30 **IN VIVO FUNCTIONAL IMAGING HIPPOCAMPAL MICRCOCIRCUITS SUPPORTING SENSORY PROCESSING AND CONTEXTUAL LEARNING IN BEHAVING MICE** 1219
A. Losonczy *(New York, USA)*

10:50 **FAST 3D IMAGING OF NEURAL NETWORK AND DENDRITIC ACTIVITY DURING BRAIN OSCILLATIONS IN NEARCUBICMILLIMETER VOLUME UP TO SUBMILLISECOND TEMPORAL RESOLUTION** 1220
B. Rózsa, B. Chiovini, G.F. Turi, G. Katona, A. Kaszas, D. Palfi, P. Maak, G. Szalay, Z. Szadai, G. Szabo, M.F. Szabo, S.Z. Kali *(Budapest, Hungary)*

9:45 - 11:15 **Hall G**

SYMPOSIUM:
S23: Control of goal-related actions and behavioural decision processing in the prefrontal cortex.

Chair: A. Genovesio *(Italy)* 1221

9:50 **STRUCTURAL AND FUNCTIONAL ORGANIZATION OF THE FRONTAL ASSOCIATION CORTEX FOR GOAL-DIRECTED BEHAVIOUR** 1222
E. Hoshi *(Tokyo, Japan)*

10:10 **ROLE OF VENTROLATERAL PREFRONTAL CORTEX IN MOTOR CONTROL OF INTENTIONAL ACTIONS. AN ANATOMO-FUNCTIONAL PERSPECTIVE** 1223
S. Rozzi *(Parma, Italy)*

10:30 **TEMPORAL AND SPATIAL ENCODING IN PREFRONTAL CORTEX, FROM DOMAIN SPECIFICITY TO GOAL REPRESENTATION** 1224
A. Genovesio *(Rome, Italy)*

10:50 **DEFINING THE ROLE OF PREFRONTAL CORTEX IN SENSORY DECISION-MAKING** 1225
T. Pasternak *(Rochester, USA)*

9:45 - 11:15 **Hall H**

SYMPOSIUM:
S24: Genetic analysis of neural circuits controlling reproduction.

Chair: U. Boehm *(Germany)* 1226

9:50 **BRAIN CIRCUITRY IN THE METABOLIC CONTROL OF REPRODUCTION: NEW STRATEGIES, NOVEL INSIGHTS** 1227
C. Elias *(Ann Arbor, USA)*

10:10 **SEMAPHORINS'SIGNALING IN DEVELOPMENT AND FUNCTION OF GNRH NEURONS: SETTING THE STAGE FOR REPRODUCTION** 1228
P. Giacobini *(Lille, France)*

10:30 **FGF21 AS A LINK BETWEEN METABOLISM AND REPRODUCTION** 1229
N. Pitteloud *(Lausanne, Switzerland)*

10:50 **KISSPEPTIN NEURONS AND THE ONSET OF PUBERTY** 1230
U. Boehm *(Homburg, Germany)*

13:00 - 13:45 **Hall B**

SPECIAL LECTURE:
SL03: Host Society Special Lecture

Introducer: M. Matteoli *(Italy)* 1231

CELL BIOLOGY OF THE NEURON: MEMBRANE LIPID DYNAMICS IN THE REGULATION OF SYNAPTIC FUNCTION 1232
P. De Camilli *(New Haven, USA)*

12:30 - 13:30 **Hall C**

SPECIAL INTEREST EVENT:
SiE05: Neuroscience Outreach Awards Programme Comprising the EDAB-FENS Brain Awareness Week (BAW) Excellence Award & The Dana/EDAB Neuroscience Outreach Champion

13:00 - 13:45 **Hall C**

SPECIAL LECTURE:
SL04: EDAB / Max Cowan Special Lecture

Introducer: C. Blakemore *(United Kingdom)* 1233

GENETIC AND EXTRA-GENETIC REGULATION OF CORTICAL AREA PATTERNING 1234
D. O'Leary *(La Jolla, USA)*

13:00 - 13:45 **Hall J**

SPECIAL LECTURE:
SL05: Boehringer-Ingelheim / FENS Research Award

Introducer: B. Sommer *(Germany)* 1235

PROCESSING OF CORRELATED SYNAPTIC INPUT BY DENDRITES 1236
J. Makara *(Budapest, Hungary)*

15:45 - 17:15 **Hall D**

SYMPOSIUM:
S25: Regulatory mechanisms of neuronal specification.

Chair: N. Flames *(Spain)* 1237

15:50 **REGULATORY LOGIC OF MONOAMINERGIC TERMINAL DIFFERENTIATION** 1238
N. Flames *(Valencia, Spain)*

16:10 **CONTROLLING CELL FATE AND CELL NUMBERS IN THE DROSOPHILA CNS** 1239
S. Thor *(Linkoping, Sweden)*

16:30 **SYNERGISTIC ACTIVITY OF TRANSCRIPTION FACTORS DURING MOTOR NEURON PROGRAMMING** 1240
E. Mazzoni *(New York, USA)*

16:50 **SPATIO-TEMPORAL TRANSCRIPTOME OF THE HUMAN BRAIN** 1241
N. Sestan *(New Haven, USA)*

15:45 - 17:15 **Hall F**

SYMPOSIUM:
S26: Voltage-gated calcium channels and synaptic function: from basic mechanisms to disease.

Chair: A.C. Dolphin *(United Kingdom)* 1242

15:50 **VOLTAGE-GATED L-TYPE CALCIUM CHANNELS IN BRAIN DISORDERS** 1243
J. Striessnig *(Innsbruck, Austria)*

16:10 **LATERAL MOBILITY OF CALCIUM CHANNEL SUBUNITS IN THE NEURONAL MEMBRANE** 1244
M. Heine, R. Schneider, J. Klyueva, U. Thomas, A. Voigt *(Magdeburg, Germany)*

16:30 **THE ROLE OF CALCIUM CHANNEL ALPHA2DELTA SUBUNITS IN CHANNEL FUNCTION AND NEUROPATHIC PAIN** 1245
A. Dolphin *(London, United Kingdom)*

16:50 **THE ROLE OF P/Q-TYPE CALCIUM CHANNELS IN MIGRAINE** 1246
D. Pietrobon *(Padua, Italy)*

15:45 - 17:15 **Hall J**

SYMPOSIUM:
S27: Post-synaptic plasticity of GABAergic synapses.

Chairs: M. Kneussel *(Germany)* 1247
A. Barberis *(Italy)* 1248

15:50 **ROLE OF MUSKELIN AND RADIXIN IN TRAFFICKING AND TURNOVER OF POSTSYNAPTIC GABA-A RECEPTORS** 1249
M. Kneussel *(Hamburg, Germany)*

16:10 **MOLECULAR MECHANISMS OF POSTSYNAPTIC POTENTIATION OF GABAERGIC SYNAPSES: A SINGLE PARTICLE TECHNIQUE APPROACH** 1250
E. Petrini *(Genova, Italy)*

16:30 **INHIBITORY EFFECT OF THE PROLYL-ISOMERASE PIN1 ON GABAERGIC SIGNALLING IN THE HIPPOCAMPUS** 1251
P. Zacchi, A.R. Antonelli, R.P. Pizzarelli, C.E. Cherubini *(Trieste, Italy)*

16:50 **PLASTICITY MECHANISMS AT GABAERGIC POST-SYNAPSE ARE FACILITATED BY GEPHYRIN POST-TRANSLATIONAL MODIFICATIONS** 1252
S. Tyagarajan, H. Gosh, L. Auguadri, Z. Thirouin, M. Acuna, H. Wildner, S. Messner, M. Hottiger, G.E. Yevenes, H.U. Zeilhofer, J.M. Fritschy *(Zurich, Switzerland)*

15:45 - 17:15 **Hall C**

SYMPOSIUM:
S28: RNA metabolism: what ALS/FTD has is in common with other RNA-related diseases

Chairs: P. Pasinelli *(USA)* 1253
L. Bruijn *(USA)* 1254

15:50 **RNA-BINDING PROTEIN METABOLISM IN NEURODEGENERATIVE DISEASE** 1255
J.P. Taylor *(Memphis, USA)*

16:10 **REPEAT ASSOCIATED NON-ATG (RAN) TRANSLATION IN C9ORF72 ALS/FTD** 1256
L.P.W. Ranum *(Gainesville, USA)*

16:30 **ROLE OF TDP-43 FUNCTION IN NEUROMUSCULAR SYNAPSIS** 1257
F. Feiguin *(Trieste, Italy)*

16:50 **ATYPICAL TRANSLATION OF C9ORF72 GGGGCC EXPANSION TO DIPEPTIDE CONTRIBUTE TO NEURODEGENERATION** 1258
Y. Lee *(London, United Kingdom)*

15:45 - 17:15 **Hall E**

SYMPOSIUM:
S29: Glioblastoma stem cells in tumor progression and in new therapies.

Chairs: R. Galli *(Italy)* 1259
H. Chneiweiss *(France)* 1260

15:50 **EXPLOITING GLIOMA INITIATING CELLS FOR CANCER GENE DISCOVERY** 1261
R. Galli, A. Narayanan, S. Mazzoleni, F. Gagliardi, M. Cominelli, G. Bozzuto, A. Molinari, P.L. Poliani *(Milan, Italy)*

16:10 **METABOLIC CONTROL OF GLIOMA CELL TRANSITIONS BETWEEN STEM AND NON STEM STATES** 1262
M. Junier, E.A. El-Habr, L.G. Dubois, A. Bogeas, J. Lipecka, L. Turchi, C. Ottolenghi, F.X. Lejeune, T. Virolle, H. Chneiweiss *(Paris, France)*

16:30 **THE ROLE OF TGFBETA IN GLIOBLASTOMA-INITIATING CELLS** 1263
J. Seoane *(Barcelona, Spain)*

16:50 **MOLECULAR PROFILING OF GLIOBLASTOMA STEM CELLS AND THEIR THERAPEUTIC TARGETING** 1264
C. Beier *(Aachen, Denmark)*

15:45 - 17:15 **Hall G**

SYMPOSIUM:
S30: Ramping up resilience: from (epi) genetics, to optogenetics and imaging.

Chair: B. Lutz *(Germany)* 1265

15:50 **THE EPIGENETICS OF THE EXPRESSION AND INHERITANCE OF BEHAVIORAL DISORDERS INDUCED BY EARLY TRAUMA IN THE MOUSE** 1266
I. Mansuy *(Zurich, Switzerland)*

16:10 **LONG-TERM EFFECTS OF EARLY LIFE ADVERSITY: ADAPTIVE OR DETRIMENTAL?** 1267
M. Schmidt *(Munich, Germany)*

16:30 **HOMEOSTATIC PLASTICITY OF MIDBRAIN DOPAMINE NEURONS UNDERLIES BEHAVIORAL RESILIENCE TO SOCIAL STRESS** 1268
M. Han *(New York, USA)*

16:50 **FEAR EXTINCTION AS A KEY HUMAN RESILIENCE MECHANISM: DOPAMINERGIC CONTRIBUTIONS** 1269
R. Kalisch *(Mainz, Germany)*

15:45 - 17:15 **Hall I**

SYMPOSIUM:
S31: Basal ganglia networks in health and disease: from synapses to systems

Chair: G. Silberberg *(Sweden)* 1270

15:50 **STRIATAL MICROCIRCUITS IN DISEASE** 1271
A. Gittis, A. Soumier *(Pittsburgh, USA)*

16:10 **FUNCTIONAL DICHOTOMY IN THE STRIATAL-PALLIDAL AXIS** 1272
P. Magill *(Oxford, United Kingdom)*

16:30 **FUNCTIONAL REORGANIZATION OF THE STRIATAL NETWORK IN A CUE-SPECIFIC AND LOCATION-SPECIFIC (PUTAMEN VS. CAUDATE AND VENTRAL STRIATUM) MANNER** 1273
A. Adler, I. Finkes, S. Katabi, Y. Prut, H. Bergman *(Jerusalem, Israel)*

16:50 **SYNAPTIC PROPERTIES OF FEEDFORWARD INHIBITION BY STRIATAL FAST SPIKING INTERNEURONS** 1274
G. Silberberg *(Stockholm, Sweden)*

15:45 - 17:15 **Hall H**

SYMPOSIUM:
S32: Principles of information coding in human lateral prefrontal cortex.

Chair: J. Haynes *(Germany)* 1275

15:50 **TASK SET AND EFFICACY OF PREFRONTAL SIGNAL TRANSMISSION** 1276
K. Sakai *(Tokyo, Japan)*

16:10 **REPRESENTATION OF MULTIPLE TASK FEATURES IN HUMAN FRONTAL CORTEX** 1277
C. Reverberi *(Milan, Italy)*

16:30 **FLEXIBLE CODING OF TASK RELEVANT INFORMATION IN FRONTAL AND PARIETAL CORTEX** 1278
A. Woolgar *(North Ryde, Australia)*

16:50 **PREFRONTAL MECHANISMS OF HUMAN REASONING** 1279
E. Koechlin *(Paris, France)*

17:30 - 18:30 **Hall A**

PLENARY LECTURE:
PL05: FENS Presidential Lecture

Introducer: M. Joëls *(The Netherlands)* 1280

RETT AND MECP2-ASSSOCIATED DISORDERS: FROM PATIENTS TO GENES AND NEUROBIOLOGY 1281
H. Zoghbi *(Houston, USA)*

18:45 - 21:00 **Hall F**

SPECIAL INTEREST EVENT:
SiE06: Building your Career: non-academic opportunities

18:45	**INTRODUCTORY NOTE** Chair: H. Luhmann *(Germany)*	1282
18:50	**FROM SCIENCE TO INDUSTRY: DIFFERENT ROLES, DIFFERENT OPPORTUNITIES** F. Conicella *(Italy)*	1283
19:10	**R&D PROCESS AND OPPORTUNITIES** D. D'Urso *(Germany)*	1284
19:30	**SCIENCE AND A COMMUNICATIONS CAREER** E. Snell *(United Kingdom)*	1285
19:50	**Q & A**	1286
20:10	**WINE TASTING AND INFORMAL GATHERING**	1287

18:45 - 20:30 **Hall E**

NETWORKING EVENT:
Educational Course on: Manuscript and Grant Writing, effective Poster or Talk preparation

18:45 - 20:00 **Suite 4**

NETWORKING EVENT:
Trisomy 21 Research Society Social Gathering

18:45 - 22:30 **Hall H**

NETWORKING EVENT:
Neuroinformatics social - networking data, tools and people

18:45 - 20:00

NETWORKING EVENT:
Meet top scientists and experts from German funding organizations at a speed-dating event

Venue: Museo Nazionale della Scienza e della Tecnologia Leonardo da Vinc

19:30 - 03:00

NETWORKING EVENT:
Jump the FENS Party

Venue: Alcatraz

9th FENS FORUM OF NEUROSCIENCE

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Organised by the Federation of European Neuroscience Societies | FENS

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11:15 - 13:15

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Monday, 7th July

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11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A10: NEUROGENESIS AND GLIOGENESIS: CELL LINEAGE AND CELL FATE SPECIFICATION

A001 **MON 7/7/2014, 11:15 - FENS-1451**
A NOVEL MOLECULAR MECHANISM SPECIFYING DIFFERENT SUBPOPULATIONS OF LAYER V PROJECTION NEURONS IN THE DEVELOPING MOUSE CORTEX 1288
C. Alfano, K. Harb, E. Magrinelli, M. Studer *(Nice, France)*

A002 **MON 7/7/2014, 12:15 - FENS-2043**
SECRETAGOGIN, A CALCIUM SENSOR PROTEIN, TYPIFIES DISTINCT CELL POPULATIONS IN THE AVIAN BRAIN 1289
A. Alpár, G. Gati, D. Lendvai, T. Hökfelt, T. Harkany *(Budapest, Hungary)*

A003 **MON 7/7/2014, 11:15 - FENS-2702**
THE ROLE OF CHAPERONE MEDIATED AUTOPHAGY IN NERVOUS SYSTEM DEVELOPMENT 1290
D. Antoniou, M. Xilouri, R. Oysten, L. Stefanis, P. Politis *(Athens, Greece)*

A004 **MON 7/7/2014, 12:15 - FENS-2412**
PICK1 AND PKCA REGULATE JAGGED1 ACTIVATION TO CONTROL NEUROGENESIS 1291
R. Beattie, A. Grabosch, M. Rukavina, V. Taylor *(Sheffield, United Kingdom)*

A005 **MON 7/7/2014, 11:15 - FENS-1676**
MICRO-RNA REGULATION OF POST-NATAL NEUROGENESIS IN THE MOUSE OLFACTORY BULB 1292
C. Beclin, P. Follert, P. Barbry, N. Coré, H. Cremer, A. De Chevigny *(Marseille, France)*

A006 **MON 7/7/2014, 12:15 - FENS-3342**
ROLE OF SALT-INDUCIBLE KINASE 1 IN THE ACTIVATION OF MEF2-DEPENDENT TRANSCRIPTION BY BDNF 1293
A. Carrard, C. Finsterwald, J.L. Martin *(Prilly, Switzerland)*

A007 **MON 7/7/2014, 11:15 - FENS-3724**
ORIGIN AND GENERATION OF DIFFERENT ASTROGLIAL PHENOTYPES IN THE CEREBELLUM 1294
V. Cerrato, E. Parmigiani, K. Leto, J. Gracia-Marques, L. Lòpez-Mascaraque, A. Buffo, F. Rossi *(Orbassano, Italy)*

A008 **MON 7/7/2014, 12:15 - FENS-2246**
GENERATION OF HES INDUCIBLE CELL LINES FOR IN VITRO PRODUCTION OF MSNS BY REGULATED EXPRESSION OF STRIATAL SPECIFIC TRANSCRIPTION FACTORS 1295
A. Faedo, A. La Porta, A. Segnali, M. Galimberti, E. Cattaneo *(Milano, Italy)*

A009 **MON 7/7/2014, 11:15 - FENS-0966**
LINEAGE PROGRESSION OF ADULT NEURAL STEM CELLS IN VITRO - ROLE OF SOX2 1296
C. Galante, F. Ortega, G. Masserdotti, B. Berninger *(Mainz, Germany)*

A010 **MON 7/7/2014, 12:15 - FENS-1398**
MOLECULAR CONTROL OF NEURAL STEM CELL POSITIONAL IDENTITY AND NEURONAL SUBTYPE SPECIFICATION 1297
E. Hennen, N. Coré, S. Barral, C. Beclin, H. Cremer *(Marseille, France)*

A011 **MON 7/7/2014, 11:15 - FENS-2780**
DIVERS FUEL REQUIREMENTS OF DIFFERENT NEURAL STEM/PROGENITOR POPULATIONS: CHANGING METABOLIC ROUTES WITH NEURAL DIFFERENTIATION 1298
A. Jády, T. Kovács, R. Bencsik, S. Ferenczi, L. Tretter, E. Madarász *(Budapest, Hungary)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A012 **MON 7/7/2014, 12:15 - FENS-1225**

FGF2, BUT NOT EGF, INDUCES MULTICILIATED EPENDYMAL CELLS TO DEDIFFERENTIATE AND ADOPT RADIAL GLIAL FEATURES IN VITRO 1299

J. Grondona, P. Granados-Durán, I. Navarro-Dueñas, P. Fernández-Llebrez, M.D. López-Ávalos *(Málaga, Spain)*

A013 **MON 7/7/2014, 11:15 - FENS-2387**

NEUROGENIC AND GLIOGENIC PROGENITORS IN THE DEVELOPING CEREBELLUM 1300

E. Parmigiani, K. Leto, C. Rolando, M. Figueres-Oñate, L. Lòpez-Mascaraque, A. Buffo, F. Rossi *(Orbassano, Italy)*

A014 **MON 7/7/2014, 12:15 - FENS-2011**

GONADAL HORMONES AFFECT DIFFERENT CELL POPULATIONS OF THE NEUROGENIC LINEAGE IN THE SUBVENTRICULAR ZONE OF ADULT MALE RATS 1301

G. Ponti, A. Farinetti, G.C. Panzica *(Orbassano, Italy)*

A015 **MON 7/7/2014, 11:15 - FENS-2483**

UNITARY PRODUCTION AND ORGANIZATION OF EXCITATORY NEURONS IN THE NEOCORTEX 1302

M. Postiglione, P. Gao, L. Hernandez, E. Papusheva, C. Streicher, O. Kodish, K. Huang, L. Luo, S.H. Shi, S. Hippenmeyer *(Klosterneuburg, Austria)*

A016 **MON 7/7/2014, 12:15 - FENS-0058**

THE DISCOVERY OF A POPULATION OF MICROGLIA WHICH ENHANCE NEUROGENESIS AND OLIGODENDROGENESIS IN THE EARLY POSTNATAL SVZ 1303

K. Sato, Y. Shigemoto-Mogami, K. Hoshikawa, J.E. Goldman, Y. Sekino *(Tokyo, Japan)*

A017 **MON 7/7/2014, 11:15 - FENS-2493**

NUCLEAR RECEPTOR NR5A2/LRH-1 REGULATES PROLIFERATION AND DIFFERENTIATION OF NEURAL STEM CELLS DURING DEVELOPMENT THROUGH DISTINCT MECHANISMS 1304

A. Stergiopoulos, K. Schoonjans, J. Auwerx, P.K. Politis *(Athens, Greece)*

A018 **MON 7/7/2014, 12:15 - FENS-1150**

EXPRESSION ANALYSIS OF SOX14 DURING NEURAL DIFFERENTIATION OF EMBRYONAL CARCINOMA CELLS 1305

M. Svirtlih, J. Popovic, D. Stanisavljevic, A. Klajn, J. Marjanovic, M. Stevanovic *(Belgrade, Serbia)*

A019 **MON 7/7/2014, 11:15 - FENS-0218**

COMPARISON OF OLIGODENDROCYTE PROGENITORS AND UNCOMMITTED MESENCHYMAL STEM CELLS DERIVED FROM WHARTON JELLY IN TERMS OF THEIR NEUROPROTECTIVE PROPERTIES 1306

J. Sypecka, S. Koniusz, L. Strojek, H. Winiarska, A. Sarnowska *(Warsaw, Poland)*

A020 **MON 7/7/2014, 12:15 - FENS-2146**

GUIDANCE OF DRG NEURONS IN FATE DETERMINATION OF BONE MARROW DERIVED SCHWANN CELLS 1307

E. Tai, G.K.H. Shea, Y.P.A. Tsui, Y.S. Chan, D.K.Y. Shum *(Hong Kong, China)*

A11: AXON AND DENDRITE DEVELOPMENT - AXON GROWTH AND GUIDANCE

A021 **MON 7/7/2014, 11:15 - FENS-2415**

NEURONAL GALECTIN-4 IS REQUIRED FOR AXON GROWTH AND FOR THE ORGANIZATION OF AXONAL MEMBRANE L1 DELIVERY AND CLUSTERING 1308

J. Abad Rodríguez, S. Velasco, N. Díez-Revuelta, T. Hernández-Iglesias, H.J. Gabius, H. Kaltner, S. Andrè *(Toledo, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A022 **MON 7/7/2014, 12:15 - FENS-1068**
ISOLATED TREATMENT OF CNS AXONS AND SOMATA REVEALS A COMPLEX ELONGATION RESPONSE TO NETRIN-1 1309
A. Blasiak, D. Kilinc, G.U. Lee *(Dublin, Ireland)*

A023 **MON 7/7/2014, 11:15 - FENS-1219**
POSITIVE SELECTION AND SIGNALING SWITCH OF THE COMMISSURAL AXON GUIDANCE RECEPTOR ROBO3 DURING VERTEBRATE EVOLUTION 1310
H. Blockus, P. Zelina, Y. Zagar, A. Péres, F. Friocourt, E. Hohenester, M. Tessier-Lavigne, J. Schweitzer, H. Roest Crollius, A. Chedotal *(Paris, France)*

A024 **MON 7/7/2014, 12:15 - FENS-1597**
MOLECULAR TARGETS AND CELLULAR INTERACTIONS OF ENDOCANNABINOID SIGNALING UPON DELTA-9-TETRAHYDROCANNABINOL EXPOSURE OF THE FETAL BRAIN 1311
D. Calvigioni, A. Alpar, G. Tortoriello, C. Morris, E. Keimpema, Y. Hurd, T. Harkany *(Vienna, Austria)*

A025 **MON 7/7/2014, 11:15 - FENS-2765**
SEMA3E/PLXND1 SIGNALLING PROMOTES GNRH NEURON SURVIVAL 1312
A. Cariboni, V. Andre, K. Davidson, S. Chauvet, A. Fantin, F. Mann *(Milan, Italy)*

A026 **MON 7/7/2014, 12:15 - FENS-0074**
CELSR3 IS REQUIRED IN MOTOR NEURONS TO STEER THEIR AXONS IN THE HINDLIMB 1313
G. Chai, A. Goffinet, F. Tissir *(Brussels, Belgium)*

A027 **MON 7/7/2014, 11:15 - FENS-2934**
SMURF2 REGULATES RETINOTECTAL CONNECTIVITY IN ZEBRAFISH 1314
J. Cioni, C. O'Hare, H. Hornberg, A. Dwivedy, C. Holt *(Cambridge, United Kingdom)*

A028 **MON 7/7/2014, 12:15 - FENS-0145**
TNF-ALPHA-MEDIATED REVERSE SIGNALLING IN THE DEVELOPING PERIPHERAL NERVOUS SYSTEM 1315
C. Erice, L. Kisiswa, A.M. Davies *(Cardiff, United Kingdom)*

A029 **MON 7/7/2014, 11:15 - FENS-3195**
PLEXIN A1 AND SEMAPHORIN 6D REGULATE RETINAL AXON TARGETING AND FASCICULATION 1316
C. Francius, T. Kuwajima, P. Gaspar, C.a. Mason, A. Rebsam *(Paris, France)*

A12: DEVELOPMENT OF NEURAL SYSTEMS - SENSORY SYSTEMS

A030 **MON 7/7/2014, 12:15 - FENS-0808**
ROLE OF THALAMIC AXONS IN CORTICAL DEVELOPMENT AND CONNECTIVITY 1317
N. Antón-Bolaños, E. Leyva-Díaz, G. López-Bendito *(San Juan de Alicante, Spain)*

A031 **MON 7/7/2014, 11:15 - FENS-1313**
DISTRIBUTION OF GABA-ERG NEURONS IN THE DEVELOPING SUPERFICIAL SPINAL DORSAL HORN 1318
A. Balázs, K. Dócs, Z. Hegyi, Z. Mészár, M. Antal *(Debrecen, Hungary)*

A032 **MON 7/7/2014, 12:15 - FENS-2542**
DEVELOPMENT OF VISUAL CORTEX IN HUMAN INFANTS 1319
S. Crespi, L. Biagi, M. Tosetti, M.C. Morrone *(Milan, Italy)*

A033 **MON 7/7/2014, 11:15 - FENS-3521**
PITUITARY ADENYLATE CYCLASE-ACTIVATING PEPTIDE (PACAP), A NOVEL SECRETAGOGUE IN THE POSTNATAL RETINAL DEVELOPMENT AFFECTS HORIZONTAL AND BIPOLAR CELL DIFFERENTIATION 1320
V. Denes, M. Lakk, G. Berta, R. Gabriel *(Pécs, Hungary)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A034 **MON 7/7/2014, 12:15 - FENS-2253**

FOLLOWING CHANGES IN INDIVIDUAL ZEBRAFISH OLFACTORY BULB NEURONS AT MULTIPLE DEVELOPMENTAL STAGES 1321

S. Fore, C. Wyatt, E. Yaksi *(Leuven, Belgium)*

A035 **MON 7/7/2014, 11:15 - FENS-1591**

MICROARRAY ANALYSIS OF PHOTORECEPTOR GENE EXPRESSION IN HYPOTHYROID MICE 1322

M. Glösmann, S. Kummer, R. Ertl, U. Reichart, S. Tauber, L. Peichl *(Vienna, Austria)*

A036 **MON 7/7/2014, 12:15 - FENS-3492**

SENSORY FEEDBACK BY SPONTANEOUS MUSCLE TWITCHES IN NEONATAL RATS 1323

A. Inacio, A. Nasretdinov, J. Lebedeva, R. Khazipov *(Marseille, France)*

A037 **MON 7/7/2014, 11:15 - FENS-1418**

ROLE OF A C-MAF PUTATIVE TARGET GENE IN ESTABLISHING NEURONAL CONNECTIONS BETWEEN SOMATOSENSORY NEURONS AND THEIR CENTRAL TARGETS. 1324

W. Joly, S. Moussa, P. Carroll *(Montpellier, France)*

A038 **MON 7/7/2014, 12:15 - FENS-1423**

THE TRANSCRIPTION FACTOR MEIS1 COORDINATES SURVIVAL, TARGET-FIELD INNERVATION AND SYNAPTOGENESIS OF SYMPATHETIC NEURONS 1325

F. Marmigère, F. Bouilloux, S. Venteo, J. Thireau, S. Richard *(Montpellier, France)*

A039 **MON 7/7/2014, 11:15 - FENS-2559**

OXIDATIVE DNA DAMAGE AND POLY(ADP-RIBOSE) POLYMERASE-1 (PARP-1) ACTIVATION DURING MOUSE POSTNATAL RETINA DEVELOPMENT 1326

F. Martín Oliva, S.M. Martín-Guerrero, A.M. Matia-González, R.M. Ferrer-Martín, M. Martín-Estebané, M.C. Carrasco, A. Sierra, J.L. Marín-Teva, R. Calvente, J. Navascués, M.A. Cuadros *(Granada, Spain)*

A040 **MON 7/7/2014, 12:15 - FENS-2400**

MIR-132 DELETION PREVENTS MATURATION OF BINOCULAR MATCHING OF ORIENTATION PREFERENCE IN MOUSE VISUAL CORTEX 1327

R. Mazziotti, P. Tognini, G. Chelini, J. Tola, D. Napoli, S. Arthur, T. Pizzorusso *(Pisa, Italy)*

A13: DEVELOPMENT OF NEURAL SYSTEMS - LIMBIC SYSTEM

A041 **MON 7/7/2014, 11:15 - FENS-0674**

THE MOTIVATIONAL DRIVE TO NATURAL REWARDS IS MODULATED BY PRENATAL GLUCOCORTICOID EXPOSURE 1328

C. Cunha, B. Coimbra, S. Borges, M.M. Carvalho, N. Sousa, A.J. Rodrigues *(Braga, Portugal)*

A042 **MON 7/7/2014, 12:15 - FENS-3369**

PROTRACTED POSTNATAL DEVELOPMENT OF NEURONAL CIRCUITS IN THE HIPPOCAMPUS OF NAKED MOLE RATS 1329

J. Fuzik, O.K. Penz, E. Keimpema, R. Romanov, J. Larsson, T.J. Park, T. Harkany *(Stockholm, Sweden)*

A043 **MON 7/7/2014, 11:15 - FENS-2865**

THE ROLE OF CORTICOTROPIN-RELEASING HORMONE SIGNALING IN THE EXTINCTION OF CONDITIONED FEAR ACROSS DEVELOPMENT 1330

M. Kritman, M. Maroun *(Haifa, Israel)*

A044 **MON 7/7/2014, 12:15 - FENS-1128**

THE TRANSCRIPTION FACTOR COUP-TFI REGULATES GRANULE CELL DIFFERENTIATION IN THE DEVELOPING HIPPOCAMPUS 1331

J. Parisot, G. Flore, M. Studer *(Nice, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A045 **MON 7/7/2014, 11:15 - FENS-1453**

IMMUNOHISTOCHEMICAL ANALYSIS OF THE DEVELOPING HUMAN HIPPOCAMPAL MARGINAL ZONE 1332

M. Vuksic, Z. Krsnik, I. Kostovic *(Zagreb, Croatia)*

B17: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - GLUTAMATE

B001 **MON 7/7/2014, 11:15 - FENS-1648**

COACTIVATION OF NMDA AND GLUTAMATE MGLU5 RECEPTORS SYNERGISTICALLY PROMOTE PHOSPHORYLATION OF ERK1/2 KINASES IN RAT HIPPOCAMPUS 1333

F. Angelatou, M. Badouna, K. Sarantis, E. Tsiamaki, N. Matsokis *(Patra, Greece)*

B002 **MON 7/7/2014, 12:15 - FENS-3674**

EVIDENCE THAT GLUTAMATERGIC NEURONS WITHIN THE SUPRAMAMMILLARY NUCLEUS ARE RESPONSIBLE FOR THE ACTIVATION OF DORSAL DENTATE GYRUS DURING PARADOXICAL SLEEP 1334

F. Billwiller, L. Renouard, O. Clement, P. Fort, P.H. Luppi *(Lyon, France)*

B003 **MON 7/7/2014, 11:15 - FENS-3150**

NEUROCHEMICAL CHANGES OF DOXYCYCLINE IN STRIATUM OF RATS SUBMITTED TO THE MODEL OF TEMPORAL LOBE EPILEPSY INDUCED PILOCARPINE 1335

A. Cavalcante, R.M.P. Siqueira, I.B.F. Calou, E.B.F. Calou, I.F. Silva, S.B. Bezerra, P.B. Gomes, M.J.P. Lopes, F.A.O. Garcia, G.S.B. Viana *(Fortaleza, Brazil)*

B004 **MON 7/7/2014, 12:15 - FENS-3119**

SPATIALLY AND TEMPORALLY CLUSTERED INPUTS GENERATE DENDRITIC CALCIUM SPIKES AND LOCAL MEMBRANE POTENTIAL OSCILLATIONS AT RIPPLE FREQUENCY IN PARVALBUMIN INTERNEURONS 1336

B. Chiovini, G.F. Turi, D. Pálfi, A. Kaszás, P. Maák, G. Katona, Z. Szadai, M. Madarász, S.Z. Káli, B. Rózsa *(Budapest, Hungary)*

B005 **MON 7/7/2014, 11:15 - FENS-3103**

DENDRITIC INTEGRATION IN FAST-SPIKING, PARVALBUMIN-EXPRESSING INTERNEURONS DURING SHARP WAVE-RIPPLE ACTIVITY 1337

D. Pálfi, B. Chiovini, G. Turi, A. Kaszás, G. Katona, P. Maák, Z. Szadai, M. Madarász, S.Z. Káli, B. Rózsa *(Budapest, Hungary)*

B006 **MON 7/7/2014, 12:15 - FENS-0238**

CHRONIC INTERMITTENT TOLUENE INHALATION DURING ADOLESCENCE IN RATS RESULTS IN GLUTAMATERGIC DYSFUNCTION IN THE PREFRONTAL CORTEX 1338

J. Duncan, A.L.W. Dick, S. Gibbs, A.J. Lawrence *(Melbourne, Australia)*

B007 **MON 7/7/2014, 11:15 - FENS-2673**

PSD-93 REGULATES NEUROTRANSMISSION IN NEOCORTEX 1339

P. Favaro, O.M. Schlüter *(Goettingen, Germany)*

B008 **MON 7/7/2014, 12:15 - FENS-0498**

GLUTAMATE-DEPENDENT TRANSLATIONAL CONTROL BY PHOSPHORYLATION OF RIBOSOMAL PROTEIN S6 IN BERGMANN GLIA CELLS THROUGH OF THE GLUTAMATERGIC RECEPTORS 1340

M. Flores, Z. Martínez-Lozada, L.C.R. Hernández-Kelly, J. Aguilera, A. Ortega *(Mexico, Mexico)*

B009 **MON 7/7/2014, 11:15 - FENS-2243**

BUILDING A KNOWLEDGE REPOSITORY OF SYNAPTIC SIGNALING 1341

M. Froehlich, N. Rodriguez, J. Zhu, N. Le Novère *(Cambridge, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B010 **MON 7/7/2014, 12:15 - FENS-1408**

DISTINCT ACTION OF MGLU4 RECEPTOR POSITIVE ALLOSTERIC MODULATORS AT CORTICOSTRIATAL VS. STRIATOPALLIDAL SYNAPSES: IMPLICATION FOR PARKINSON'S DISEASE TREATMENT 1342

P. Gubellini, C. Melon, E. Dale, D. Doller, L. Kerkerian-Le Goff *(Marseille, France)*

B011 **MON 7/7/2014, 11:15 - FENS-0275**

CYCLIC GUANOSINE MONOPHOSPHATE (CGMP) PATHWAY REGULATES GLUTAMATE UPTAKE/ GLUTAMINE RELEASE FROM BERGMANN GLIAL CELLS 1343

A. Guillem, Z. Martínez-Lozada, L.C.R. Hernández-Kelly, J. Aguilera, A. Rodríguez, A. Ortega *(Mexico City, Mexico)*

B012 **MON 7/7/2014, 12:15 - FENS-3431**

INVESTIGATING THE ROLE OF CA2+ UPTAKE BY THE MITOCHONDRIAL UNIPORTER MCU IN COUPLING SYNAPTIC ACTIVITY TO ADAPTIVE METABOLIC CHANGES 1344

P. Hasel, C. Bas-Orth, H. Bading, G.E. Hardingham *(Edinburgh, United Kingdom)*

B18: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - ACETYLCHOLINE

B013 **MON 7/7/2014, 11:15 - FENS-3362**

THE MUSCARINIC M2 RECEPTOR (M2R) IS ENDOCYTOSED VIA A CLATHRIN-DEPENDENT MECHANISM IN LIVING HIPPOCAMPAL NEURONS 1345

V. Bernard, L. Lambert, A. Fafouri, E. Herzog, Z. Csaba, P. Dournaud *(Paris, France)*

B014 **MON 7/7/2014, 12:15 - FENS-1704**

SUBTYPE DIFFERENCES IN IMMEDIATE AND DELAYED EFFECTS OF BRIEF EXPOSURE OF MUSCARINIC ACETYLCHOLINE RECEPTORS TO XANOMELINE 1346

E. Dolejsi, J. Jakubik, E.E. El-Fakahany, V. Dolezal *(Prague, Czech Republic)*

B015 **MON 7/7/2014, 11:15 - FENS-0855**

CHOLINERGIC MODULATION OF CA3 CIRCUITS IN VIVO 1347

M. Griguoli, S. Zucca, C. Mulle *(Bordeaux, France)*

B016 **MON 7/7/2014, 12:15 - FENS-1228**

CONTROL OF MEMBRANE POTENTIAL IN MEDIAL PREFRONTAL CORTEX (MPFC) PYRAMIDAL NEURONS BY MUSCARINIC RECEPTORS 1348

P. Kurowski, P. Szulczyk *(Warsaw, Poland)*

B017 **MON 7/7/2014, 11:15 - FENS-1528**

THE ROLE OF CONSERVED AMINO ACIDS IN THE ACTIONS OF ATYPICAL AGONISTS OF THE M1 MUSCARINIC RECEPTOR 1349

A. Randakova, E. Dolejsi, P. Zimcik, V. Dolezal, E.E. El-Fakahany, J. Jakubik *(Prague, Czech Republic)*

B018 **MON 7/7/2014, 12:15 - FENS-2495**

DYNAMIC REGULATION OF NICOTINIC SYNAPTIC TRANSMISSION BY POSTSYNAPTIC GROUP I MGLURS IN THE THALAMIC RETICULAR NUCLEUS 1350

V. Rupprecht, Y.G. Sun, M. Beierlein *(Houston, USA)*

B019 **MON 7/7/2014, 11:15 - FENS-3487**

ELECTRICAL STIMULATIONS WITH 'NOISY' WAVEFORMS FACILITATE MUSCLE CELL ACTIVITY IN VITRO 1351

M. Sciancalepore, T. Coslovich, P. Lorenzon, G. Taccola *(Trieste, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B19: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - NITRIC OXIDE AND OTHER GASES

B020 **MON 7/7/2014, 12:15 - FENS-0253**

NADPH-DIAPHORASE/NITRIC OXIDE SYNTHASE IN THE CNS OF TWO CLADISTIANS FISHES 1352

D. Lozano, S. Bandín, D. Monjas, L. Morales, S. Helgueta, R. Morona, N. Moreno, A. González, J.M. López *(Madrid, Spain)*

B021 **MON 7/7/2014, 11:15 - FENS-0599**

NITRIC OXIDE / CYCLIC GMP SIGNALING REGULATES MOTILITY OF A MICROGLIAL LINE AND PRIMARY MICROGLIA IN VITRO 1353

H. Scheiblich, F. Roloff, V. Singh, M. Stangel, M. Stern, G. Bicker *(Hannover, Germany)*

B20: ION CHANNELS - POTASSIUM CHANNELS

B022 **MON 7/7/2014, 12:15 - FENS-0887**

CLINICAL ASPECTS OF POTASSIUM CHANNELS SIGNAL FUNCTION 1354

N. Bogdanova, N.C.H. Pogorela, I.S. Magura, E.A. Lukyanetz *(Kyiv, Ukraine)*

B023 **MON 7/7/2014, 11:15 - FENS-1508**

FUNCTIONAL CHARACTERIZATION OF GENETICALLY IDENTIFIED CHOLINERGIC AND GABAERGIC NEURONS IN THE PEDUNCULOPONTINE NUCLEUS OF MICE 1355

C. Bordás, A. Koszeghy, E. Kokai, M. Sivado, P. Szucs, B. Pal *(Debrecen, Hungary)*

B024 **MON 7/7/2014, 12:15 - FENS-0396**

CEREBELLAR GRANULE CELLS EXHIBIT DISTINCT DEVELOPMENTAL EXPRESSION OF VOLTAGE-DEPENDENT CHANNELS IN THE HEMISPHERES AS COMPARED TO THE VERMIS 1356

F. Brandalise, R. Lujan, U. Gerber, P. Rossi *(Jona, Switzerland)*

B025 **MON 7/7/2014, 11:15 - FENS-3495**

SK2 CHANNELS AND MGLU5 RECEPTORS ASSEMBLE INTO FUNCTIONALLY INTERACTING COMPLEXES 1357

F. Ciruela, G. García-Negredo, D. Soto, J. Llorente, K.M.O. Galenkamp, V. Fernández-Dueñas, J.P. Adelman, R. Shigemoto, Y. Fukozawa, R. Luján *(Barcelona, Spain)*

B026 **MON 7/7/2014, 12:15 - FENS-0730**

CYCLIC NUCLEOTIDE-DEPENDENT MODULATION OF PACEMAKER CURRENT IN THALAMIC NEURONS 1358

M. Datunashvili, E. Mergia, A. Baumann, D. Koesling, H. Pape, T. Budde *(Münster, Germany)*

B027 **MON 7/7/2014, 11:15 - FENS-1393**

LOCALIZATION OF RGS7/Gß5 COMPLEXES AND THEIR GABAB/GIRK SIGNALLING PARTNERS IN THE HIPPOCAMPUS 1359

A. Fajardo Serrano, K. Wickman, K. Martemyanov, R. Luján *(Albacete, Spain)*

B028 **MON 7/7/2014, 12:15 - FENS-1905**

INWARD RECTIFIER POTASSIUM CURRENT IN DOPAMINERGIC CELLS OF THE MOUSE OLFACTORY BULB 1360

A. Fogli Iseppe, M. Borin, A. Pignatelli, F. Pighin, O. Belluzzi *(Ferrara, Italy)*

B029 **MON 7/7/2014, 11:15 - FENS-1123**

EFFECT OF LEPTIN ON ADRENAL MOUSE CHROMAFFIN CELLS FUNCTION 1361

D. Gavello, D. Vandael, S. Gosso, E. Carbone, V. Carabelli *(Torino, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B030 **MON 7/7/2014, 12:15 - FENS-3180**

THE MINIMAL ANKYRIN-G BINDING MOTIF OF KV7 CHANNELS IS NECESSARY BUT NOT SUFFICIENT FOR LOCALIZATION TO THE AXON INITIAL SEGMENT 1362

L. Hefting, C.S. Jensen, N. Schmitt, S.P. Olesen, H. Borger Rasmussen *(Copenhagen N, Denmark)*

B031 **MON 7/7/2014, 11:15 - FENS-0741**

DIFFERENTIAL DISTRIBUTION PATTERNS OF VOLTAGE-GATED POTASSIUM CHANNELS IN CA1 PYRAMIDAL CELLS 1363

T. Kirizs, A. Lorincz, Z. Nusser *(Budapest, Hungary)*

B032 **MON 7/7/2014, 12:15 - FENS-2306**

CRITICAL ROLE OF LARGE CONDUCTANCE VOLTAGE- AND CALCIUM-ACTIVATED POTASSIUM CHANNELS IN LEPTIN-INDUCED NEUROPROTECTION OF N-METHYL-D-ASPARTATE-EXPOSED CORTICAL NEURONS 1364

M. Mancini, M.V. Soldovieri, G. Gessner, B. Wissuwa, V. Barrese, F. Boscia, C. Franco, P. Ambrosino, L.M.T. Canzoniero, M. Bauer, T. Hoshi, S.H. Heinemann *(Campobasso, Italy)*

B033 **MON 7/7/2014, 11:15 - FENS-3374**

FUNCTIONAL EFFECTS OF KV7.2 CHANNEL MUTATIONS CAUSING NEONATAL EPILEPTIC ENCEPHALOPATHY 1365

F. Miceli, M.V. Soldovieri, P. Ambrosino, V. Barrese, M.A. Ricci, M. Taglialatela *(Naples, Italy)*

B034 **MON 7/7/2014, 12:15 - FENS-1052**

PERIODICITY OF STRUCTURAL COMPONENTS OF THE AXON INITIAL SEGMENT OF PYRAMIDAL NEURONS REVEALED BY CONFOCAL MICROSCOPY 1366

M. Alberto, A. Antón-Fernández, D. Sánchez-Ponce *(Madrid, Spain)*

B21: NEUROTRANSMITTER RELEASE

B035 **MON 7/7/2014, 11:15 - FENS-3408**

A POST DOCKING ROLE OF THE SYNAPTOTAGMIN1-C2B BASE DOMAIN 1367

G. Kedar, A. Munch, J.R. Van Rhijn, J.R.T. Van Weering, H. De Wit, J. Sørensen, M. Verhage *(Amsterdam, The Netherlands)*

B036 **MON 7/7/2014, 12:15 - FENS-1473**

MODULATION OF NEUROTRANSMITTER RELEASE BY AMYLOID BETA INVOLVES MOLECULAR REMODELING OF PRESYNAPTIC RELEASE APPARATUS 1368

V. Lazarevic, M. Andres-Alonso, E.D. Gundelfinger, A. Fejtová *(Magdeburg, Germany)*

B037 **MON 7/7/2014, 11:15 - FENS-0415**

PURINERGIC ADENOSINE RECEPTORS AND CHOLINERGIC MUSCARINIC RECEPTORS COOPERATE IN ACETYLCHOLINE RELEASE MODULATION ON NEUROMUSCULAR SYNAPSE 1369

S. Manuel, M. Priego, T. Obis, N. Garcia, M. Tomàs, M.A. Lanuza, N. Ortiz, E. Hurtado, L. Nadal, J. Tomàs *(Reus Tarragona, Spain)*

B038 **MON 7/7/2014, 12:15 - FENS-0658**

MYOSINS MOBILIZE SYNAPTIC VESICLES AT PRESYNAPTIC NERVE TERMINALS 1370

S. Mochida, M. Hayashida, S. Tanifuji *(Tokyo, Japan)*

B039 **MON 7/7/2014, 11:15 - FENS-0608**

PANNEXIN 1 CHANNELS: NEW ACTORS IN THE REGULATION OF CATECHOLAMINE RELEASE FROM ADRENAL CHROMAFFIN CELLS 1371

F. Momboisse, M.J. Olivares, X. Baéz, M.J. Guerra, C. Flores-Muñoz, J.C. Sáez, A.D. Martínez, A.M. Cárdenas *(Valparaiso, Chile)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B040 **MON 7/7/2014, 12:15 - FENS-0535**

BLOCKADE OF TYROSINE KINASE RECEPTOR B PREVENTS MUSCLE CONTRACTION-INDUCED PRESYNAPTIC NPKCEPSYLON, CPKCBETA1 AND CPKCALPHA INCREASES 1372

L. Nadal, E. Hurtado, T. Obis, N. Garcia, M. Priego, M.M. Santafé, M. Tomàs, N. Ortiz, M.A. Lanuza, J. Tomàs *(Reus, Spain)*

B041 **MON 7/7/2014, 11:15 - FENS-0532**

ACTIVITY-DEPENDENT CHANGES OF THE NOVEL PROTEIN KINASE C EPSILON ISOFORM IN THE NEUROMUSCULAR SYNAPSE AND ITS COUPLING TO ACH RELEASE 1373

T. Obis, N. Besalduch, M.M. Santafé, M. Tomàs, N. Garcia, M. Priego, E. Hurtado, L. Nadal, M.A. Lanuza, J. Tomàs *(Reus, Spain)*

B042 **MON 7/7/2014, 12:15 - FENS-1223**

PROTEASOME-ASSOCIATED HERC1 E3 UBIQUITIN LIGASE IS ESSENTIAL FOR NORMAL EVOKED NEUROTRANSMITTER RELEASE AT THE MOUSE NEUROMUSCULAR JUNCTION 1374

R. Ruiz, S. Bachiller, T. Rybkina, E. Porras-García, E. Pérez-Villegas, L. Tabares, J.A. Armengol, A.M. Carrión *(Sevilla, Spain)*

B043 **MON 7/7/2014, 11:15 - FENS-0793**

EXPRESSION AND FUNCTION OF BAD-LAMP (LAMP5) IN GABAERGIC SYNAPSES 1375

M. Tiveron, C. Beurrier, M. Koehl, N. Andriambao, C. Céni, E. Gatti, L. Kerkerian, N. Abrous, P. Pierre, H. Cremer *(Marseille, France)*

B22: SYNAPSES - OTHER

B044 **MON 7/7/2014, 12:15 - FENS-1874**

SORTING AND REGULATION OF THE V-ATPASE DURING SYNAPTIC VESICLE RECYCLING IN HIPPOCAMPAL NEURONS 1376

A. Bodzeta, M. Kahms, J. Klingauf *(Münster, Germany)*

B045 **MON 7/7/2014, 11:15 - FENS-0185**

ACTIVITY-DEPENDENT REGULATION OF THE SUMOYLATION MACHINERY IN HIPPOCAMPAL NEURON 1377

F. Cassé, L.C. Loriol.C, A.K. Khayachi.A, P.G. Poupon.G, G.C. Gwizdek.C, M.S. Martin.S *(Valbonne, France)*

B046 **MON 7/7/2014, 12:15 - FENS-3490**

AXON PHYSIOLOGY OF PREMOTOR INTERNEURONS IN THE LUMBAR SPINAL CORD 1378

N. Chmykhova *(St-Petersburg, Russia)*

B047 **MON 7/7/2014, 11:15 - FENS-3725**

MATURATION OF EXCITATORY AND INHIBITORY SYNAPSES WITHIN HIPPOCAMPAL NEURON NETWORKS IN VITRO 1379

E. Dzyubenko, A. Faissner *(Bochum, Germany)*

B048 **MON 7/7/2014, 12:15 - FENS-2778**

A NOVEL REPORTER FOR THE ANALYSIS OF SYNAPTIC ACTIVITY IN VIVO 1380

M. Ferro, M. Ripamonti, A. Arena, J. Lamanna, S. Spadini, G. Racchetti, V. Zimarino, A. Malgaroli *(Milan, Italy)*

B049 **MON 7/7/2014, 11:15 - FENS-3087**

SUBTHRESHOLD INFORMATION DECODING AT THE GRANULE CELL TO PURKINJE CELL SYNAPSE 1381

A. Grangeray, P. Isope *(Strasbourg, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B050 **MON 7/7/2014, 12:15 - FENS-1967**

EUKARYOTIC ELONGATION FACTOR 2 KINASE DOWNREGULATES VESICLE RELEASE AND GABAERGIC TRANSMISSION BY TRANSLATION CONTROL OF A SUBSET OF PROTEINS 1382

C. Heise, L. Murru, L. Ponzoni, A. Cattaneo, F.C. Guarnieri, G. Ippolito, J. Zapata, R. Benfante, D. Braida, L. Pattini, F. Valtorta, M. Passafaro, M. Sala, A. Bachi, C. Verpelli, C. Sala *(Milan, Italy)*

B051 **MON 7/7/2014, 11:15 - FENS-0971**

PROTEOMIC SCREENING OF GLUTAMATERGIC MOUSE BRAIN SYNAPTOSOMES ISOLATED BY FLUORESCENCE ACTIVATED SORTING 1383

E. Herzog, C. Biesemann, E. Luquet, Y. Humeau, N. Brose *(Bordeaux, France)*

B052 **MON 7/7/2014, 12:15 - FENS-1751**

SLEEP DEPRIVATION AND RECOVERY SLEEP RESHAPE THE SYNAPTIC PROTEOME 1384

A. Kékesi, A. Simor, B. Györffy, P. Gulyássy, K. Völgyi, A. Czurkó, A. Dobolyi, Z. Szabó, T. Janáky, G. Juhász *(Budapest, Hungary)*

B053 **MON 7/7/2014, 11:15 - FENS-3552**

PROTEIN CATALOG OF SYNAPTIC SUB-DOMAINS: QUANTITATIVE PROTEOMICS OF BIOCHEMICALLY ISOLATED MOUSE BRAIN SYNAPTIC FRACTIONS 1385

N. Pandya, F. Koopmans, S. Spijker, A.B. Smit, K. Li *(Amsterdam, The Netherlands)*

B054 **MON 7/7/2014, 12:15 - FENS-3113**

A KETOGENIC DIET ACCELERATES NEURODEGENERATION IN FOREBRAIN NEURONS UNDERGOING MITOCHONDRIAL DNA TOXICITY 1386

C. Regnell, K. Lauritzen, M. Hasan, A. Klungland, L. Bergersen *(Oslo, Norway)*

B055 **MON 7/7/2014, 11:15 - FENS-0747**

AGE-RELATED (MIS-) REGULATION OF THE ACTIN-BINDING PROTEIN DREBRIN AT THE CNS SYNAPSE 1387

E. Rojas-Puente, T. Mack, P. Kreis, B. Eickholt *(Berlin, Germany)*

B056 **MON 7/7/2014, 12:15 - FENS-3359**

CHONDROITIN SULFATE PROTEOGLYCANS IN REGULATION OF EXCITATORY SYNAPTIC TRANSMISSION IN THE HIPPOCAMPAL CA2 REGION 1388

I. Song, A. Dityatev *(Magdeburg, Germany)*

B057 **MON 7/7/2014, 11:15 - FENS-0704**

OPTOGENETIC STIMULATION OF PARABRACHIO-AMYGDALOID PATHWAY MODULATES EXCITABILITY OF THE NOCICEPTIVE AMYGDALA 1389

Y. Sugimura, Y. Takahashi, A.M. Watabe, F. Kato *(Tokyo, Japan)*

B058 **MON 7/7/2014, 12:15 - FENS-2302**

ROLE OF P140CAP IN PRIMARY HIPPOCAMPAL NETWORK MATURATION AND SYNCHRONIZATION 1390

D. Vandael, I. Russo, D. Gavello, M. Matteoli, E. Menna, F. Di Cunto, E. Turco, E. Carbone, P. Defilippi, V. Carabelli *(Torino, Italy)*

B059 **MON 7/7/2014, 11:15 - FENS-1273**

ANTI-NMDA RECEPTOR SUBUNIT 1 ANTIBODIES INCREASE EXCITATORY SYNAPSE NUMBER IN PRIMARY RAT HIPPOCAMPAL NEURONS 1391

A. Wu, A. Mouravlev, J.M. Montgomery, D. Young *(Auckland, New Zealand)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B23: SYNAPTIC PLASTICITY - HOMEOSTATIC PLASTICITY

B060 **MON 7/7/2014, 12:15 - FENS-2614**

COMPARISON OF SYNAPTIC TRANSMISSION IN THE BED NUCLEUS OF STRIA TERMINALIS BEFORE AND AFTER BEING FATHER 1392

T. Amano, Y. Tsuneoka, S. Sindo, C. Yoshihara, K.O. Kuroda *(Wako, Japan)*

B061 **MON 7/7/2014, 11:15 - FENS-0902**

SYNAPTIC PROTEINS CHANGES ASSOCIATED TO COGNITIVE PROCESSES 1393

S. Bachiller Sánchez- Arévalo, R. Ruiz, A.M. Carrión *(Sevilla, Spain)*

B062 **MON 7/7/2014, 12:15 - FENS-0738**

TUMOR NECROSIS FACTOR-ALPHA (TNFA) SIGNALLING VIA TNF-RECEPTOR 1 AND TNF-RECEPTOR 2 MEDIATES DENERVATION-INDUCED HOMEOSTATIC SYNAPTIC PLASTICITY 1394

D. Becker, N. Zahn, T. Deller, A. Vlachos *(Frankfurt, Germany)*

B063 **MON 7/7/2014, 11:15 - FENS-2239**

EUHMT1 EPIGENETIC DYNAMIC CONTROL OF HOMEOSTATIC SYNAPTIC PLASTICITY 1395

M. Benevento, M. Selten, R. Mancini, M. Van de Molengraft, W. Ba, A. Oudakker, H. Van Bokhoven, N. Nadif Kasri *(Nijmegen, The Netherlands)*

B064 **MON 7/7/2014, 12:15 - FENS-2291**

HOMEOSTATIC METAPLASTICITY CONTROL OF LONG-TERM POTENTIATION: ROLE OF POSTSYNAPTIC FIRING ACTIVITY 1396

G. Giuseppe, B.G. Mockett, W.C. Abraham *(Verona, Italy)*

B065 **MON 7/7/2014, 11:15 - FENS-1539**

CONTACTIN-ASSOCIATED PROTEINS 1 AND 2 (CASPR1 & CASPR2): NOVEL PLAYERS IN THE HOMEOSTATIC REGULATION OF SYNAPTIC AMPA RECEPTORS 1397

D. Fernandes, L. Ribeiro, S. Santos, A.L. Carvalho *(Braga, Portugal)*

B066 **MON 7/7/2014, 12:15 - FENS-1527**

EXPERIENCE-DEPENDENT HOMEOSTATIC PLASTICITY IN THE BARREL CORTEX 1398

S. Glazewski, S. Greenhill, J. Butcher, K. Fox *(Keele, United Kingdom)*

B067 **MON 7/7/2014, 11:15 - FENS-3075**

HOMEOSTATIC PLASTICITY IS REGULATED BY STARGAZIN PHOSPHORYLATION 1399

S. Louros, C. Chen, A.L. Carvalho *(Coimbra, Portugal)*

B068 **MON 7/7/2014, 12:15 - FENS-1061**

REST/NRSF MEDIATED PRESYNAPTIC HOMEOSTASIS INDUCED BY CHRONIC HYPER-ACTIVITY IN EXCITATORY HIPPOCAMPAL NEURONS 1400

F. Pecoraro Bisogni, G. Lignani, D. Pozzi, M. Massacesi, A. Contestabile, M. Orlando, F. Benfenati, P. Baldelli *(Genova, Italy)*

B069 **MON 7/7/2014, 11:15 - FENS-2796**

MOLECULAR ALTERATIONS AND GENE EXPRESSION ASSOCIATED WITH RAPID ANTIDEPRESSANT EFFECTS OF KETAMINE 1401

S. Pothula, H. Dang-Quynh, D. Schanze, A. Fejtova *(Magdeburg, Germany)*

B070 **MON 7/7/2014, 12:15 - FENS-0180**

INTERPLAY BETWEEN STABILITY AND PLASTICITY OF HIPPOCAMPAL NETWORKS 1402

E. Slomowitz, I. Vertkin, B. Styr, R. Maor, I. Nelken, G. Chechik, I. Slutsky *(Kfar Saba, Israel)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B071 **MON 7/7/2014, 11:15 - FENS-2257**

THE EFFECT OF MIRO-MEDIATED MITOCHONDRIAL POSITIONING ON PRESYNAPTIC CALCIUM SIGNALS AND HOMEOSTATIC PLASTICITY 1403

V. Vaccaro, N. Higgs, J. Kittler *(London, United Kingdom)*

B24: SYNAPTIC PLASTICITY - OTHER

B072 **MON 7/7/2014, 12:15 - FENS-1741**

NITRIC OXIDE TRIGGERS PROTEIN DEGRADATION DURING SYNAPTIC PLASTICITY 1404

N. Bal, M. Lemak, P. Balaban *(Moscow, Russia)*

B073 **MON 7/7/2014, 11:15 - FENS-0686**

DIFFERENTIAL REGULATION OF H3K27ME3S28 PHOSPHORYLATION IN RESPONSE TO AMPHETAMINE AND HALOPERIDOL 1405

A. BonitoOliva, E. Södersten, H. Xiaochen, G. Spigolon, J. Caboche, K. Hansen, G. Fisone *(Stcokholm, Sweden)*

B074 **MON 7/7/2014, 12:15 - FENS-1735**

ANALYSIS OF HISTONE VARIANTS AND POSTTRANSLATIONAL MODIFICATIONS IN PLASTICITY MODELS OF THE MOUSE VISUAL CORTEX 1406

N. Bornia, G. Vierci, F.M. Rossi *(Montevideo, Uruguay)*

B075 **MON 7/7/2014, 11:15 - FENS-2000**

ANALYSIS OF PROTEINS RESTORING PLASTICITY IN THE ADULT MOUSE VISUAL CORTEX: A PROTEOMIC APPROACH 1407

F. Rossi, M. Muniz, L. Ruiz Perera, G. Vierci, N. Bornia *(Montevideo, Uruguay)*

B076 **MON 7/7/2014, 12:15 - FENS-2427**

A THEORY TO EXPLAIN SYNAPTIC CLUSTERING IN DENDRITES 1408

R. Cazé, C. Clopath, K. Kitamura, M. Kano, S.R. Schultz *(London, United Kingdom)*

B077 **MON 7/7/2014, 11:15 - FENS-1081**

LEARNING ABOUT NOVEL AUDITORY SPATIAL CONTEXT FACILITATES HIPPOCAMPAL SYNAPTIC PLASTICITY IN FREELY BEHAVING RATS 1409

B. Dietz, D. Manahan-Vaughan *(Bochum, Germany)*

B078 **MON 7/7/2014, 12:15 - FENS-3687**

TIMING-BASED REHABILITATION AS A NOVEL APPROACH TO POST-STROKE CARE. A HYPOTHESIS 1410

M. Gobbo *(Brescia, Italy)*

B079 **MON 7/7/2014, 11:15 - FENS-0237**

MICROARRAY ANALYSIS OF EARLY GROWTH RESPONSE I (EGR-1) KNOCKOUT MICE DURING FEAR MEMORY PROCESSING 1411

S. Han, J.H. Chin, S. Hong, J. Mo, D. Lee, E. Choi, J.S. Choi, W. Sun, H.W. Lee, H. Kim *(Seoul, Korea)*

B080 **MON 7/7/2014, 12:15 - FENS-2391**

INVESTIGATING FORMATION AND SUBSTRATES OF PROTEIN KINASE M DURING SYNAPTIC PLASTICITY IN APLYSIA 1412

M. Hastings, K. Gong, C. Gao, X. Fan, J.K. Bougie, D. Baker-Andresen, W.S. Sossin *(Montreal, Canada)*

B081 **MON 7/7/2014, 11:15 - FENS-0920**

INTRACELLULAR OLIGOMERISED AMYLOID BETA CAUSES AN INCREASE IN BASAL SYNAPTIC TRANSMISSION THAT IS DEPENDANT ON GLUA1 AMPAR INSERTION. 1413

E. Hogg, P. Regan, D.J. Whitcomb, K. Cho *(Bristol, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B082 **MON 7/7/2014, 12:15 - FENS-0870**
ALPHA-SYNUCLEIN AND RAB3A INDEPENDENTLY REGULATE LATE STAGE OF EXOCYTOSIS IN PC12 CELLS 1414
C.C. Huang, C.C. Lin, L.S. Kao *(Taoyuan County, Taiwan)*

B083 **MON 7/7/2014, 11:15 - FENS-0863**
EFFECTS OF SPINAL PKM-ZETA INHIBITION AND CONSTITUITIVE PKM-ZETA KNOCKOUT ON PERSISTENT REFERRED ALLODYNIA INDUCED BY ACIDIC SALINE 1415
H. Nasir, S. Ding, A. Laferrière, T.J. Coderre *(Montreal, Canada)*

B084 **MON 7/7/2014, 12:15 - FENS-0641**
SODIUM BUTYRATE, A HISTONE DEACETYLASE INHIBITOR, AMELIORATES SIRT2-INDUCED MEMORY IMPAIRMENT, REDUCTION OF CELL PROLIFERATION, AND NEUROBLAST DIFFERENTIATION IN THE DENTATE GYRUS 1416
I. Hwang, D.Y. Yoo, D.W. Kim, M.J. Kim, W. Kim, H.Y. Jung, S.M. Nam, J.W. Kim, Y.S. Yoon, S.Y. Choi *(Seoul, Korea)*

B085 **MON 7/7/2014, 11:15 - FENS-2460**
THE SPHINGOLIPID RECEPTOR S1PR2 IS A RECEPTOR FOR NOGO-A REPRESSING SYNAPTIC PLASTICITY 1417
A. Kempf, B. Tews, M.E. Arzt, O. Weinmann, F.J. Obermair, V. Pernet, M. Zagrebelsky, D. Gygax, M. Korte, M.E. Schwab *(Zurich, Switzerland)*

B086 **MON 7/7/2014, 12:15 - FENS-2759**
DOWNREGULATION OF TRANSLATION BY UPSTREAM OPEN READY FRAMES (ORF) IN 5'UTR OF PKMZETA 1418
P. Kolosov, N. Bal, D. Susorov, E. Alkalaeva *(Moscow, Russia)*

B25: NETWORK INTERACTIONS - OTHER

B087 **MON 7/7/2014, 11:15 - FENS-3563**
NEURAL ELEMENTS AND DIFFERENTIAL TUNING OF THE ON MOTION PATHWAY IN DROSOPHILA 1419
G. Ammer, A. Borst *(Martinsried, Germany)*

B088 **MON 7/7/2014, 12:15 - FENS-3051**
ANALYSIS OF THE EFFECTS OF GENERAL ANESTHETICS ON THE ACTIVITY OF RAT VISUAL CORTEX 1420
A. Arena, J. Lamanna, M. Gemma, M. Ripamonti, G. Ravasio, A. De Vitis, V. Zimarino, L. Beretta, A. Malgaroli *(Milano, Italy)*

B089 **MON 7/7/2014, 11:15 - FENS-3729**
PARCELLATED ORGANIZATION OF THE MEDIAL SEPTUM OF THE RAT 1421
A. Aviles, I. Arnal-Vicente, H. Albert-Gascó, N. Elmlili, A.M. Sánchez-Pérez, F.E. Olucha-Bordonau *(Valencia, Spain)*

B090 **MON 7/7/2014, 12:15 - FENS-3301**
MULTISTABLE DYNAMICS OF MACRO-SCALE CORTICAL CIRCUITS LEAD TO SWITCHING FUNCTIONAL CONNECTIVITY NETWORKS 1422
D. Battaglia, E.C.A. Hansen, A. Spiegler, G. Deco, V. Jirsa *(Marseille, France)*

B091 **MON 7/7/2014, 11:15 - FENS-1910**
CELLULAR AND NETWORK DETERMINANTS OF ACTIVE NEURONAL ENSEMBLES 1423
C. Bertollini, T. Stefanelli, D. Muller, P. Mendez *(Geneve, Switzerland)*

B092 **MON 7/7/2014, 12:15 - FENS-0950**
THE PV1-FOXB1-NUCLEUS PROJECTS TO THE PAG 1424
A. Bilella, G. Alvarez-Bolado, M.R. Celio *(Fribourg, Switzerland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B093 **MON 7/7/2014, 11:15 - FENS-1567**

REGULATION OF PTEN BY TRANSMEMBRANE LIPID PSEUDO-PHOSPHATASES OF THE PLASTICITY-RELATED GENE (PRG) FAMILY: IMPLICATIONS FOR NEURONAL GROWTH RESPONES 1425

A. Brosig, G. Leondaritis, B.J. Eickholt *(Berlin, Germany)*

B094 **MON 7/7/2014, 12:15 - FENS-0943**

PARVALBUMIN-EXPRESSING INTERNEURONS PROVIDE GRID CELL-DRIVEN RECURRENT INHIBITION IN THE MEDIAL ENTORHINAL CORTEX 1426

C. Buetfering, K. Allen, H. Monyer *(Heidelberg, Germany)*

B095 **MON 7/7/2014, 11:15 - FENS-1714**

PERTURBATIONAL COMPLEXITY IN CHRONIC PATIENTS WITH DISORDERS OF CONSCIOUSNESS 1427

M. Fecchio, S. Casarotto, P.D. Trimarchi, A.G. Casali, C. Landi, A. Pigorini, L. Saia, M. Napolitani, S. Sarasso, M. Rosanova, G. Devalle, M. Massimini *(Milano, Italy)*

B096 **MON 7/7/2014, 12:15 - FENS-3300**

REDEFINING CEREBELLO-THALAMIC CONNECTIVITY IN THE MOUSE BRAIN USING OPTOGENETICS AND CONFOCAL MICROSCOPY 1428

S. Gornati, C.I. De Zeeuw, F.E. Hoebeek *(Rotterdam, The Netherlands)*

B097 **MON 7/7/2014, 11:15 - FENS-1581**

SPECIALIZED CORTICO-THALAMIC DRIVE OF THE BASAL GANGLIA RECIPIENT THALAMUS 1429

N. Hádinger, H. Bokor, L. Acsády *(Budapest, Hungary)*

B098 **MON 7/7/2014, 12:15 - FENS-1518**

CHARACTERIZATION AND FUNCTION OF IGSF9 AND IGSF9-DERIVED PEPTIDES - POTENTIAL REGULATORS OF DENDRITIC "TILING" AND "SELF-AVOIDANCE" 1430

M. Hansen, S.M. Schenstrøm, L.L.S. Larsen, R. Säther, J. Nielsen, V. Berezin, P.S. Walmod *(Copenhagen, Denmark)*

C20: ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - THERAPEUTIC STRATEGIES

C001 **MON 7/7/2014, 11:15 - FENS-0114**

NATURAL COMPOUNDS REDUCE INFLAMMATION IN PRIMARY CULTURE OF ASTROCYTES 1431

D. Aguirre, V. Soraya Valles *(Valencia, Spain)*

C002 **MON 7/7/2014, 12:15 - FENS-2096**

STRUCTURE CORRECTOR RESCUE OF APOLIPOPROTEIN E4-ASSOCIATED NEUROPATHOLOGY IN TRANSGENIC MICE 1432

Y. Andrews-Zwilling, W.J. Brecht, R.D. Miranda, E. Rutenber, R.W. Mahley *(San Francisco, USA)*

C003 **MON 7/7/2014, 11:15 - FENS-1617**

DOXYCYCLINE REVERTS OLIGOMER-MEDIATED MEMORY IMPAIRMENT IN MOUSE MODELS OF ALZHEIMER'S DISEASE 1433

C. Balducci, M. Beeg, P. La Vitola, R. Viscomi, M. Salmona, S. Ottonello, G. Forloni *(Milan, Italy)*

C004 **MON 7/7/2014, 12:15 - FENS-2174**

EFFICACY OF CHRONIC ORAL ADMINISTRATION OF HDAC INHIBITORS ON AGE-ASSOCIATED MEMORY IMPAIRMENT 1434

E. Benito Garagorri, H. Urbanke, R. Halder, V. Capece, S. Burkhardt, A. Schütz, A. Fischer *(Goettingen, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C005 **MON 7/7/2014, 11:15 - FENS-1217**

PERIPHERAL EXENDIN-4 THERAPY RESTORES BRAIN GLUCAGON-LIKE PEPTIDE-1 RECEPTOR-MEDIATED SIGNALING PATHWAYS AND GLUCOSE UPTAKE AND METABOLISM IN TYPE 2 DIABETIC GOTO-KAKIZAKI RATS 1435

E. Candeias, I. Sebastião, M.S. Santos, P.I. Moreira, A. Duarte *(Coimbra, Portugal)*

C006 **MON 7/7/2014, 12:15 - FENS-1679**

NEUTROPHILS INDUCE ALZHEIMER'S-LIKE DISEASE VIA LFA-1-INTEGRIN AND NEUTROPHIL EXTRACELLULAR TRAPS 1436

G. Constantin, E. Zenaro, E. Pietronigro, G. Piacentino, E. Turano, B. Bonetti, V. Della Bianca *(Verona, Italy)*

C007 **MON 7/7/2014, 11:15 - FENS-2252**

NEUROPROTECTION BY ASSOCIATION OF PALMITOYLETHANOLAMIDE WITH LUTEOLIN IN EXPERIMENTAL ALZHEIMER'S DISEASE MODELS: THE CONTROL OF NEUROINFLAMMATION 1437

M. Cordaro, I. Paterniti, M. Campolo, R. Siracusa, E. Esposito, S. Cuzzocrea *(Messina, Italy)*

C008 **MON 7/7/2014, 12:15 - FENS-2986**

IMMUNOMODULATORY ROLE OF MICROVESICLES FROM MESENCHYMAL STEM CELLS IN A MODEL OF ALZHEIMER'S DISEASE 1438

C. Elia, S. Mazzitelli, F. Filipello, F. Costato, C. Verderio, S. Coco, M. Matteoli *(Milan, Italy)*

C009 **MON 7/7/2014, 11:15 - FENS-3024**

THE EFFECTS OF CANNABIDIOL IN MODELS OF ALZHEIMER'S DISEASE: A STUDY OF LONG-TERM POTENTIATION 1439

B. Hughes, C. Herron *(Dublin, Ireland)*

C010 **MON 7/7/2014, 12:15 - FENS-1625**

NEUROPROTECTIVE AND PROLIFERATION-PROMOTING EFFECTS OF NOVEL NEUROSTEROID ANALOGUES 1440

M. Karout, F. Geoffroy, M. Miesch, M. Kirsch, A.G. Mensah-Nyagan, H.D. Hofmann *(Freiburg im Breisgau, Germany)*

C011 **MON 7/7/2014, 11:15 - FENS-0387**

GOLD-CONTAINING DRUG AURANOFIN AND ITS DERIVATIVES COULD BE BENEFICIAL IN ALZHEIMER'S DISEASE DUE TO INHIBITION OF CATHEPSIN B AND NEUROPROTECTION 1441

A. Klegeris, J.M. Madeira, A.R. D'Ovidio, C.J. Renschler, N.E. Gill, S. Hashioka *(Kelowna, Canada)*

C012 **MON 7/7/2014, 12:15 - FENS-0993**

NEW LABELED DERIVATIVES OF THE NEUROPROTECTIVE PEPTIDE COLIVELIN: SYNTHESIS, EVALUATION AND FIRST IN VITRO AND IN VIVO APPLICATIONS 1442

M. Kostomoiri, C. Zikos, D. Benaki, C. Triantis, M. Sagnou, M. Paravatou-Petsotas, A. Papadaki, H. Boleti, M. Papadopoulos, I. Pirmettis, M. Pelecanou, E. Livaniou *(Holargos, Greece)*

C013 **MON 7/7/2014, 11:15 - FENS-2779**

PHARMACOLOGICAL TARGETING OF THE BETA-AMYLOID PRECURSOR PROTEIN INTRACELLULAR DOMAIN 1443

A. Lanzillotta, C. Branca, I. Sarnico, R. Ruotolo, A.R. Viscomi, M. Benarese, V. Porrini, L. Lorenzini, L. Calzà, B.P. Imbimbo, S. Ottonello, M. Pizzi *(Brescia, Italy)*

C014 **MON 7/7/2014, 12:15 - FENS-2226**

MEMORY ENHANCEMENT BY ELECTRICAL STIMULATION OF THE VENTROMEDIAL PREFRONTAL CORTEX 1444

W. Liu, A. Vyas, L.W. Lim *(Singapore, Singapore)*

C015 **MON 7/7/2014, 11:15 - FENS-2381**

MICROGLIAL IKKBETA DEFICIENCY IMPROVE ALZHEIMER'S DISEASE-RELATED SYMPTOMS AND PATHOLOGY 1445

X. Liu, W. Hao, K. Fassbender, Y. Liu *(Homburg, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C016 **MON 7/7/2014, 12:15 - FENS-1483**

A NEW GENERATION OF NERVE GROWTH FACTOR THERAPEUTICS: STRUCTURE-ACTIVITY RELATIONSHIPS OF 'PAINLESS' HUMAN NGF MUTEINS 1446

F. Malerba, F. Paoletti, B. Bruni Ercole, G. Amato, S. Pacioni, R. Nassini, S. Capsoni, P. Geppetti, D. Lamba, A. Cattaneo *(Rome, Italy)*

C017 **MON 7/7/2014, 11:15 - FENS-0802**

ADAM10 EXOCYTOSIS/ENDOCYTOSIS IN SPINES: LOOKING FOR NEW THERAPEUTIC STRATEGIES FOR ALZHEIMER'S DISEASE 1447

S. Musardo, S. Pelucchi, D. Di Marino, A. Tramontano, B. Borroni, A. Padovani, F. Gardoni, E. Marcello, M. Di Luca *(Milano, Italy)*

C018 **MON 7/7/2014, 12:15 - FENS-1656**

OLEUROPEIN AGLYCONE COUNTERACTS AD-LIKE PATHOLOGY AND COGNITIVE IMPAIRMENTS: AN IN VIVO PRECLINICAL STUDY 1448

D. Pantano, C. Grossi, I. Luccarini, T. Ed Dami, F. Casamenti *(Florence, Italy)*

C019 **MON 7/7/2014, 11:15 - FENS-2980**

TUMOR NECROSIS FACTOR-ALPHA (TNF-A) AS A COMMON MEDIATOR IN ALZHEIMER'S DISEASE AND RHEUMATOID ARTHRITIS PATHOGENESIS IN TRANSGENIC MICE 1449

E. Paouri *(Athens, Greece)*

C020 **MON 7/7/2014, 12:15 - FENS-0790**

PHYSICAL EXERCISE RESCUES ADULT NEUROGENESIS, SYNAPTIC PLASTICITY AND MEMORY IN DOWN SYNDROME MICE 1450

M. Parrini, D. Ghezzi, G. Deidda, L. Medrihan, F. Benfenati, P. Baldelli, L. Cancedda, A. Contestabile *(Genoa, Italy)*

C021 **MON 7/7/2014, 11:15 - FENS-3688**

DIRECTED MATURATION OF ADULT-BORN HIPPOCAMPAL NEURONS RESTORES SPATIAL MEMORY IN A MOUSE MODEL OF ALZHEIMER'S DISEASE 1451

K. Richetin, C. Leclerc, N. Toni, T. Gallopin, L. Roybon, C. Rampon *(Toulouse, France)*

C022 **MON 7/7/2014, 12:15 - FENS-1295**

INHIBITION TRANSCRIPTION FACTOR, NFAT, MODULATES MICROGLIAL PHENOTYPE AND PROINFLAMMATORY RESPONSES IN A TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE 1452

L. Rojanathammanee, C. Combs *(Nakhon Ratchasima, Thailand)*

C023 **MON 7/7/2014, 11:15 - FENS-0452**

THE EFFECTS OF HUMAN MESENCHYMAL STEM CELLS TRANSPLANTED INTO THE 3XTG MOUSE MODEL OF ALZHEIMER'S DISEASE. 1453

J. Ruzicka, T. Amemori, K. Turnovcova, M. Kuliewicz-Nawrot, J.J. Rodriguez, P. Jendelova, E. Sykova *(Prague 4, Czech Republic)*

C024 **MON 7/7/2014, 12:15 - FENS-1496**

CHRONIC PERIPHERAL EXENDIN-4 ADMINISTRATION PROTECTS AGAINST TYPE 2 DIABETES-ASSOCIATED RAT BRAIN APOPTOSIS 1454

I. Sebastião, E. Candeias, M.S. Santos, C.R. Oliveira, P.I. Moreira, A.I. Duarte *(Coimbra, Portugal)*

C025 **MON 7/7/2014, 11:15 - FENS-3452**

EFFECTS OF ASS234 AND ADRENOMEDULLIN IN AMYLOID-ß PLAQUE ACCUMULATION IN AN APPSWE/PS1ΔE9 MOUSE MODEL OF ALZHEIMER´S DISEASE 1455

M. Serrano Regal, J. Serrano, A.p. Fernández, M. Unzeta, J. Marco-Contelles, R. Martínez-Murillo *(Madrid, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C026 **MON 7/7/2014, 12:15 - FENS-2265**

SURVIVAL EFFECT OF EMBRYONIC PROTEOGLYCANS IN ALZHEIMER'S DISEASE PATHOLOGY VIA REGULATION NEUROGENESIS AND APOPTOSIS IN OLFACTORY BULB 1456

K. Yenkoyan, T. Davtyan, A. Mkhitaryan, V. Chavushyan, M. Aghajanov *(Yerevan, Armenia)*

C21: REPEAT EXPANSION DISEASES - HUNTINGTON'S DISEASE

C027 **MON 7/7/2014, 11:15 - FENS-2025**

LOSS OF GLUTAMATERGIC SYNAPTIC TERMINALS AND REDUCED DOPAMINE RELEASE IN THE STRIATUM OF HYPOKINETIC MICE EXPRESSING A MUTANT FORM OF HUNTINGTIN 1457

D. Betances, S. Paul, T. Rothe, H. Stark, R. Grantyn *(Berlin, Germany)*

C028 **MON 7/7/2014, 12:15 - FENS-2960**

INVESTIGATING THE ROLE OF BCL2/ADENOVIRUS E1B 19KDA INTERACTING PROTEIN 3 IN THE MITOCHONDRIAL DYSFUNCTION IN HUNTINGTON'S DISEASE 1458

A. Ciammola, F. Sassone, A. Maraschi, V. Silani, J. Sassone *(Milan, Italy)*

C029 **MON 7/7/2014, 11:15 - FENS-0116**

TAU HYPERPHOSPHORYLATION AND DYSREGULATION OF CALCINEURIN IN HUNTINGTON MODELS 1459

M. Gratuze, A. Noel, P. Milot-Rousseau, F. Morin, P. Samadi, E. Planel *(Quebec City, Canada)*

C030 **MON 7/7/2014, 12:15 - FENS-3021**

MODELLING STRIATAL DYSFUNCTIONS IN HUNTINGTON DISEASE USING HUMAN PLURIPOTENT STEM CELLS-DERIVED NEURONAL NETWORKS 1460

S. Gribaudo, P. Tixador, C. Nicoleau, A. Bugi, J.M. Peyrin, A.L. Perrier *(Evry, France)*

C031 **MON 7/7/2014, 11:15 - FENS-0582**

CHARACTERIZATION OF A POTENTIAL NOVEL THERAPEUTICAL TOOL TO REVERSE HISTONE HYPOACETYLATION IN NEUROPATHOLOGIES 1461

D. Guiretti, L.M. Valor, A. Barco *(Sant Joan, Alicante, Spain)*

C032 **MON 7/7/2014, 12:15 - FENS-3101**

QUANTITATIVE ANALYSIS OF THE CORTICOSTRIATAL AND THALAMOSTRIATAL SYSTEMS IN THE Z-Q175 MOUSE MODEL OF HUNTINGTON'S DISEASE 1462

I. Huerta-Ocampo, J.P. Bolam *(Oxford, United Kingdom)*

C033 **MON 7/7/2014, 11:15 - FENS-1454**

MINIPIG AS A LARGE ANIMAL MODEL FOR HUNTINGTON´S DISEASE STUDY 1463

S. Juhas, J. Juhasova, P. Vochozkova, J. Klima, B. Bohuslavova, L. Recek, D. Howland, J. Motlik *(Libechov, Czech Republic)*

C034 **MON 7/7/2014, 12:15 - FENS-0233**

MDR1 CAN BE THE TARGET TO REDUCE THE AGGREGATION OF MUTANT HUNTINGTIN 1464

M. Kim, W.S. Im, J.J. Bhan, J.Y. Chung, S.T. Lee, K. Chu *(Seoul, Korea)*

C035 **MON 7/7/2014, 11:15 - FENS-0757**

INTERROGATING THE ROLE OF SPLICING FACTORS IN HUNTINGTON'S DISEASE 1465

G. Kooner, R. Mason, L. Pinion, J. Moreno, G. Mallucci, F. Giorgini *(Leicester, United Kingdom)*

C036 **MON 7/7/2014, 12:15 - FENS-0829**

IDENTIFICATION OF MICRORNAS INVOLVED IN HUNTINGTON'S DISEASE 1466

F. Ribeiro, I.M. Guimaraes, A.N.A. Goncalves, J.T. Marques *(Belo Horizonte, Brazil)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C037 **MON 7/7/2014, 11:15 - FENS-3339**

THE EFFECT OF HUNTINGTIN GENE CAG REPEATS LENGTH ON HUMAN INDUCED PLURIPOTENT STEM CELL NEURAL DIFFERENTIATION 1467

M. Straccia, P. Sanders, S. Joy, A. King, V. Castiglioni, V. Mattis, G. Bombau, C. Svendsen, L.M. Thompson, E. Cattaneo, P.J. Kemp, N.D. Allen, J.M. Canals *(Barcelona, Spain)*

C038 **MON 7/7/2014, 12:15 - FENS-0559**

HD YAC128 IPSCS SHOW EARLY MOLECULAR DEFICITS ASSOCIATED WITH HUNTINGTON DISEASE 1468

W. Szlachcic, P.M. Switonski, W.J. Krzyzosiak, M. Figiel *(Poznan, Poland)*

C039 **MON 7/7/2014, 11:15 - FENS-1406**

THE ROLE OF MITOCHONDRIAL DEFECT ON THE EXPRESSION OF PGC-α? 1469

R. Török, J.A. Kónya, D. Zádori, L. Vécsei, P. Klivényi *(Szeged, Hungary)*

C040 **MON 7/7/2014, 12:15 - FENS-3189**

ALLOGRAFT TRANSPLANTATION OF GANGLIONIC EMINENCE EMBRYONIC STEM CELLS IN A RAT MODEL OF HUNTINGTON'S DISEASE 1470

M. Tropiano, M. Boido, A. Vercelli *(Turin, Italy)*

C041 **MON 7/7/2014, 11:15 - FENS-3012**

CHOLESTEROL BIOSYNTHESIS AND HUNTINGTON'S DISEASE PATHOGENESIS 1471

M. Valenza, V. Leoni, E. Di Paolo, C. Ferrari, S. Di Donato, E. Cattaneo *(Milan, Italy)*

C042 **MON 7/7/2014, 12:15 - FENS-0822**

UNRAVELING THE CONTRIBUTORS OF TRANSCRIPTIONAL DYSREGULATION IN HUNTINGTON'S DISEASE USING TRANSCRIPTOMICS META-ANALYSIS 1472

L. Valor, R. Olivares, A. Barco *(Sant Joan d'Alacant, Spain)*

C043 **MON 7/7/2014, 11:15 - FENS-1020**

RECOVERY OF ASTROCYTIC TRANSPORTER FUNCTION NORMALIZES TONIC INHIBITION IN THE STRIATUM OF HUNTINGTON MICE 1473

A. Wojtowicz, A. Dvorzhak, I. Melnick, R. Grantyn *(Berlin, Germany)*

C044 **MON 7/7/2014, 12:15 - FENS-0330**

N-ACETYLCYSTEINE IMPROVES MITOCHONDRIAL FUNCTION AND AMELIORATES BEHAVIOURAL DEFICITS IN THE R6/1 MOUSE MODEL OF HUNTINGTON'S DISEASE 1474

D. Wright, T. Renoir, S. McGee, P. Francis, L. Gray, A.J. Hannan *(Parkville, Australia)*

C045 **MON 7/7/2014, 11:15 - FENS-2247**

AN IMMUNOHISTOCHEMICAL ANALYSIS OF HUNTINGTIN AND REST EXPRESSION IN HUMAN CONTROL AND HUNTINGTON'S DISEASE BRAIN 1475

C. Zuccato, D. Schiffer, V. Caldera, M. Mellai, P. Conforti, E. Cattaneo *(Milano, Italy)*

C22: EPILEPSY - ANIMAL MODELS

C046 **MON 7/7/2014, 12:15 - FENS-0399**

EXTRACT OF MAGNOLIA GRANDIFLORA REDUCES THE EXPRESSION OF PROINFLAMATORY MOLECULES AND DEVELOPMENT OF EPILEPSY IN A MODEL OF NEONATAL SEIZURES 1476

V. Angelica, S. Orozco, C. Guerra, F. Domingues *(Mexico, Mexico)*

C047 **MON 7/7/2014, 11:15 - FENS-1928**

A SINGLE EPISODE OF PENTYLENETETRAZOLE-INDUCED SEIZURES IS FOLLOWED BY A SLOWLY DEVELOPING COGNITIVE DECLINE IN RATS 1477

V. Aniol, A. Ivanova-Dyatlova, A. Tishkina, V. Fominykh, N. Gulyaeva *(Moscow, Russia)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C048 **MON 7/7/2014, 12:15 - FENS-1737**

OPTOGENETICS REVEAL DELAYED AFFERENT SYNAPTOGENESIS ON GRAFTED HUMAN IPS CELLS 1478

N. Avaliani, A.T. Sørensen, M. Ledri, J. Bengtzon, P. Koch, O. Brüstle, K. Deisseroth, M. Andersson *(Lund, Sweden)*

C049 **MON 7/7/2014, 11:15 - FENS-3319**

ELECTROGRAPHIC CHARACTERIZATION OF ACUTE PHASE IN THE RODENT MODEL OF TEMPORAL LOBE EPILEPSY INDUCED BY PERFORANT PATH INTERMITTENT LONG-TERM STIMULATION 1479

A. Broggini, I.M. Esteves, R.N. Romcy-Pereira, J.P. Leite *(Ribeirao Preto, Brazil)*

C050 **MON 7/7/2014, 12:15 - FENS-0653**

INCREASED SUPEROXIDE DISMUTASE 1 BY LAMOTRIGINE AMELIORATES SUPEROXIDE ANION-RELATED CELL DEATH AFTER PILOCARPINE-INDUCED STATUS EPILEPTICUS IN MICE 1480

I. Cho, Y.J. Cho, H.W. Kim, W.J. Kim, K. Heo, B.I. Lee *(Seoul, Korea)*

C051 **MON 7/7/2014, 11:15 - FENS-3272**

CEREBELLAR OUTPUT POTENTLY INCREASES THALAMIC ACTIVITY, DISRUPTS OSCILLATORY THALAMO-CORTICAL ACTIVITY AND STOPS EPILEPTIC ABSENCE SEIZURES 1481

O. EelkmanRooda, L. Kros, C.I. De Zeeuw, F.E. Hoebeek *(Rotterdam, The Netherlands)*

C052 **MON 7/7/2014, 12:15 - FENS-0586**

ALTERED EXPRESSION OF HIGH-VOLTAGE-ACTIVATED CA2+ CHANNELS IN A RAT MODEL OF ABSENCE EPILEPSY 1482

P. Ehling, T. Kanyshkova, M. Cerina, P. Meuth, M. Zobeiri, S.G. Meuth, H.C. Pape, T. Budde *(Muenster, Germany)*

C053 **MON 7/7/2014, 11:15 - FENS-0705**

GENETIC ABLATION OF GLUK2-CONTAINING KAINATE RECEPTORS PROMOTES PILOCARPINE-EVOKED TEMPORAL LOBE SEIZURES 1483

A. Gorlewicz, S. Zucca, P. Vincent, E. Normand, N. Grosjean, C. Mulle *(Bordeaux, France)*

C054 **MON 7/7/2014, 12:15 - FENS-0144**

SPATIAL DISTRIBUTION OF NEURONAL SUBPOPULATIONS IN THE HIPPOCAMPAL FORMATION OF RATS WITH DIFFERENT DEGREES OF BRAIN DYSPLASIA 1484

K. Gzielo-Jurek, M. Kielbinski, Z. Setkowicz, A. Michalska, J. Osoba, K. Janeczko *(Krakow, Poland)*

C055 **MON 7/7/2014, 11:15 - FENS-3328**

KETOGENIC DIET RAISES UNCOUPLING PROTEIN 2 EXPRESSION IN SOMATA OF HIPPOCAMPAL NEURONS IN MOUSE MODEL OF MITOCHONDRIAL DNA TOXICITY 1485

M. Hasan, J. Storm-Mathisen, A. Gjedde, L.H. Bergersen, K.H. Lauritzen *(Oslo, Norway)*

C056 **MON 7/7/2014, 12:15 - FENS-2383**

METHIONINE - ENRICHED DIET POTENTIATES ICTAL EEG PHENOMENA IN AN EXPERIMENTAL MODEL OF EPILEPSY: A POSSIBLE LINK WITH HIPPOCAMPAL NEUROGENESIS 1486

D. Hrncic, A. Rasic - Markovic, G. Jevtic, N. Petronijevic, R. Obrenovic, D. Macut, V. Susic, D. Djuric, O. Stanojlovic *(Belgrade, Serbia)*

C057 **MON 7/7/2014, 11:15 - FENS-0601**

EPIGENETIC CONTROL OF BRAIN INFLAMMATION IN EPILEPSY: NEW THERAPEUTIC OPPORTUNITIES BY TARGETING MIR146A 1487

V. Iori, A.M. Iyer, E. Aronica, A. Vezzani *(Milano, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C058 **MON 7/7/2014, 12:15 - FENS-0192**
SEIZURE-INDUCED CHANGES IN ASTRO- AND MICROGLIAL MARKERS IN A RAT MODEL OF CEREBRAL DYSPLASIA 1488
M. Kielbinski, K. Gzielo-Jurek, Z. Setkowicz, K. Janeczko *(Krakow, Poland)*

C059 **MON 7/7/2014, 11:15 - FENS-0245**
LPS-INDUCED INFLAMMATION IN YOUNG RATS MAY AMELIORATE SEIZURE SYMPTOMS IN ADULTHOOD 1489
E. Kosonowska, K. Gzielo-Jurek, M. Kielbinski, K. Janeczko, Z. Setkowicz *(Kraków, Poland)*

C060 **MON 7/7/2014, 12:15 - FENS-2760**
EPILEPTIC ABSENCE SEIZURES STOPPED BY CLOSED-LOOP ACTIVATION OF CEREBELLAR OUTPUT 1490
L. Kros, O.H.J. Eelkman Rooda, J. Spanke, P. Alva, M. Van Dongen, A. Karapatis, E.A. Tolner, C. Strydis, N. Davey, B.H.J. Winkelman, M. Negrello, W.A. Serdijn, V. Steuber, A.M.J.M. Van den Maagdenberg, C.I. De Zeeuw, F.E. Hoebeek *(Rotterdam, The Netherlands)*

C061 **MON 7/7/2014, 11:15 - FENS-1443**
EFFECTS OF BDNF SILENCING WITH AMPLICONS VECTORS IN EXPERIMENTAL EPILEPSY 1491
M. Labasque, C. Falcicchia, P. Trempat, A. Binaschi, E. Pradella, S. Zucchini, M. Barbieri, B. Paradiso, H. Berthommé, M. Simonato *(Ferrara, Italy)*

C23: ISCHEMIA - ANIMAL AND HUMAN STUDIES

C062 **MON 7/7/2014, 12:15 - FENS-2150**
NON-INVASIVE QUANTIFICATION OF THE NEUROGENIC RESPONSE TO STROKE IN THE AGING BRAIN 1492
J. Adamczak, M.A. Aswendt, A.R. Riou, M.S. Selt, D.W. Wiedermann, S.C.D. Couillard-Despres, L.A. Aigner, M.H. Hoehn *(Cologne, Germany)*

C063 **MON 7/7/2014, 11:15 - FENS-3421**
INVESTIGATING THE INFLUENCE OF GENDER ON ISCHEMIA-INDUCED DOPAMINE RELEASE 1493
L. Attwood, C. Gibson, A. Young *(Leicester, United Kingdom)*

C064 **MON 7/7/2014, 12:15 - FENS-1644**
THROMBOEMBOLIC STROKE IN MICE: MULTICENTRIC EXPERIMENTAL PHASE 0 1494
O. Cyrille, E. Touzé, B. Haelewyn, D. Vivien *(Caen, France)*

C065 **MON 7/7/2014, 11:15 - FENS-0791**
HYPOXIA-ISCHEMIA DISRUPTS MNEMONIC ONTOGENY BY IMPAIRING OSCILLATORY COUPLING WITHIN PREFRONTAL-HIPPOCAMPAL NETWORKS 1495
N. Domnick, M.D. Brockmann, V. De Feo, J. Sedlacik, I.L. Hanganu-Opatz *(Hamburg, Germany)*

C066 **MON 7/7/2014, 12:15 - FENS-2674**
TREATMENT BY 3ALPHA, 5BETA-PREGNANOLONE GLUTAMATE REDUCED NEGATIVE IMPACTS OF THE FOCAL CEREBRAL ISCHEMIA IN IMMATURE RATS 1496
L. Kleteckova, G. Tsenov, H. Kubova, A. Stuchlik, L. Vyklicky Jr., K. Vales *(Prague, Czech Republic)*

C067 **MON 7/7/2014, 11:15 - FENS-1819**
FACTORS AFFECTING BOLD-RESPONSE PARAMETERS IN HEALTHY SUBJECTS AND IN PATIENTS AFTER STROKE 1497
L. Mayorova, A. Petrushevsky, O. Martynova, O. Fedina *(Moscow, Russia)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C068 **MON 7/7/2014, 12:15 - FENS-2818**

DIETARY ESSENTIAL OIL COMPONENTS IN THE PREVENTION OF HYPOPERFUSION/REPERFUSION-INDUCED TISSUE DAMAGE IN THE RAT CEREBRAL CORTEX 1498

T. Melis, M.P. Serra, M. Boi, L. Poddighe, C. Picci, M. Del Fiacco, G. Carta, E. Murru, S. Lisai, A.R. Sirigu, M. Collu, S. Banni, M. Quartu *(Cagliari, Italy)*

C069 **MON 7/7/2014, 11:15 - FENS-2321**

THE EVOLUTION OF K+-EVOKED SPREADING DEPOLARIZATION SHORTLY AFTER CAROTID OCCLUSION IN THE RAT 1499

Á. Menyhárt, B. Szepes, F. Bari, E. Farkas *(Szeged, Hungary)*

C070 **MON 7/7/2014, 12:15 - FENS-3456**

ENDOTHELIN-1 INDUCED MIDDLE CEREBRAL ARTERY OCCLUSION: SHORT TERM FUNCTIONAL DEFICITS AND TESTING OF THE NEUROPROTECTIVE EFFECTS OF HYPOXIC POSTCONDITIONING 1500

H. Nguyen, T. Fath, N. Jones *(Kingsford, Australia)*

C071 **MON 7/7/2014, 11:15 - FENS-1103**

THE EFFECT OF PERINATAL HYPOXIA ON HUMAN NORADRENERGIC NEURONS OF THE LOCUS COERULEUS. 1501

M. Pagida, A. Konstantinidou, A. Korelidou, D. Katsika, E. Tsekoura, E. Patsouris, M. Panayotacopoulou *(Athens, Greece)*

C072 **MON 7/7/2014, 12:15 - FENS-2144**

EARLY SLEEP PATTERNS ALTERATIONS FOLLOWING A BRIEF TRANSIENT GLOBAL CEREBRAL ISCHEMIA IN RATS 1502

A. Paslaru, M.M. Mihai Moldovan, A.C. Alexandru Calin, D.Z. Denise Zahiu, S.M. Stefan Mirica, M.I. Mihai Ionescu, C.A. Camelia Acatrinei, A.S. Alexandru Stoian, A.M.Z. Ana Maria Zagrean, L.Z. Leon Zagrean *(Bucharest, Romania)*

C073 **MON 7/7/2014, 11:15 - FENS-2569**

PRENATAL HYPOXIA-ISCHEMIC ALTERS NADPH-D DISTRIBUTION IN RED NUCLEUS AND PRELIMBIC AND INFRALIMBIC CORTEX IN ADULT RATS 1503

I. Sab, M.M.D. Ferraz, C.M. Sequeira, T.M.C. Brunini, M.R. Ferraz, A.C. Mendes-Ribeiro *(Rio de Janeiro, Brazil)*

C074 **MON 7/7/2014, 12:15 - FENS-0031**

CO-ADMINISTRATION OF BERBERINE WITH PICORHIZA ENHANCES NEUROPROTECTION IN A RAT MODEL OF ISCHEMIA/REPERFUSION 1504

T. Saleh, B.J. Connell, M.C. Saleh, B.V. Khan *(Charlottetown, Canada)*

C075 **MON 7/7/2014, 11:15 - FENS-2740**

LOCAL CORTICAL EXCITABILITY CHANGES IN PATIENTS WITH UNILATERAL STROKE: A TMS-EEG STUDY 1505

S. Sarasso, F. Seregni, S. Casarotto, C. Landi, A. Bo, G. Mattavelli, M. Mariotti, M. Massimini, M. Rosanova *(Milano, Italy)*

C076 **MON 7/7/2014, 12:15 - FENS-2431**

DYNAMICS OF DEFAULT MODE NETWORK RESTORATION FROM VEGETATIVE/UNRESPONSIVE TO MINIMALLY CONSCIOUS STATE 1506

M. Stanziano, M. Papa *(Napoli, Italy)*

C077 **MON 7/7/2014, 11:15 - FENS-2267**

IMPAIRED REACTIVITY OF BURST-SUPPRESSION EEG PATTERNS FOLLOWING TRANSIENT GLOBAL CEREBRAL ISCHEMIA IN RAT 1507

A. Stoian, A. Calin, D. Zahiu, A. Paslaru, M. Stancu, C. Acatrinei, A. Ilie, A.M. Zagrean, L. Zagrean, M. Moldovan *(Constanta, Romania)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C078 **MON 7/7/2014, 12:15 - FENS-0868**

HYPOXIC POSTCONDITIONING IMPROVES FUNCTIONAL DEFICITS AFTER NEONATAL HYPOXIC-ISCHAEMIC BRAIN INJURY 1508

J. Teo, M.J. Morris, N.M. Jones *(New South Wales, Australia)*

C079 **MON 7/7/2014, 11:15 - FENS-0212**

INVESTIGATING THE EFFECT OF NMDA RECEPTOR ANTAGONISM, USING MEMANTINE HYDROCHLORIDE, ON ISCHAEMIC CELL DEATH 1509

M. Trotman, R. Fern, C. Gibson *(Leicester, United Kingdom)*

C080 **MON 7/7/2014, 12:15 - FENS-2305**

NEUROCHEMICAL CHANGES IN AMINOACIDS LEVELS DURING FOCAL CEREBRAL ISCHEMIA INDUCED BY INTRAHIPPOCAMPAL INFUSION OF ENDOTHELIN-1 IN IMMATURE RATS 1510

G. Tsenov, K. Vondraková, J. Otáhal, K. Vales, H. Kubová *(Prague, Czech Republic)*

C24: TRAUMA - SPINAL CORD INJURY AND REGENERATION

C081 **MON 7/7/2014, 11:15 - FENS-1789**

RESTORATIVE AND REGENERATIVE EFFECTS OF NEUROECTODERMAL STEM CELLS GRAFTED INTO THE INJURED SPINAL CORD: MULTIPLE MECHANISMS 1511

T. Bellak, K. Pajer, H. Redl, A. Nogradi *(Szeged, Hungary)*

C082 **MON 7/7/2014, 12:15 - FENS-2769**

REGENERATIVE POTENTIAL OF LEPTOMENINGEAL-DERIVED OLIGODENDROCYTES IN RAT MODEL OF SPINAL CORD INJURY 1512

V. Berton, F.J. Rodríguez, P. González, A. Braga, A. Pino, M. Krampera, F. Bifari, I. Decimo, G. Fumagalli *(Verona, Italy)*

C083 **MON 7/7/2014, 11:15 - FENS-2010**

THIRD TRIMESTER NG2+ AMNIOTIC FLUID CELLS RESPOND TO INFLAMMATION AND ARE EFFECTIVE FOR SCI BY MEANS OF HGF PRODUCTION 1513

D. Bottai, G. Scesa, R. Adami, A.M. Di Giulio, A. Gorio *(Milan, Italy)*

C084 **MON 7/7/2014, 12:15 - FENS-0753**

A NEW SMART HYDROGEL (HG) FOR THREE DIMENSIONAL COLTURE OF MESENCHYMAL STEM CELLS (MSCS) FOR SPINAL CORD INJURY (SCI) TREATMENT 1514

I. Caron, F. Rossi, S. Papa, R. Aloe, M. Sculco, V. Parazzi, M. Barilani, T. Montemurro, L. Lazzari, P. Veglianese *(Milano, Italy)*

C085 **MON 7/7/2014, 11:15 - FENS-0980**

SELECTIVE NANOVECTOR MEDIATED TREATMENT OF ACTIVATED PROINFLAMMATORY MICROGLIA/ MACROPHAGES IN SPINAL CORD INJURY 1515

S. Papa, F. Rossi, R. Ferrari, A. Mariani, M. De Paola, I. Caron, M. Peviani, G. Perale, D. Moscatelli, P. Veglianese *(Milano, Italy)*

C086 **MON 7/7/2014, 12:15 - FENS-2394**

MODULATION PROPERTIES OF BONE MARROW STROMAL CELLS ON MICROGLIA AFTER SPINAL CORD INJURY CONDITIONED MEDIA ACTIVATION 1516

D. Cizkova, L. Slovinska, S. Davaux, M. Nagyova, J. Blasko, M. Cizek, Fournier, M. Salzet *(Kosice, Slovakia)*

C087 **MON 7/7/2014, 11:15 - FENS-3267**

NEUROPROTECTIVE EFFECTS OF DOCOSAHEXAENOIC ACID EMULSIONS IN SPINAL CORD INJURY 1517

M. Davies, P. Pallier, B.P. Giles, E. Waqif, P.K. Yip, J.V. Priestley, A.T. Michael-Titus *(London, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C088 **MON 7/7/2014, 12:15 - FENS-0412**

AUTOPHAGY IS INCREASED EARLY IN DEGENERATING AXONS AFTER SPINAL CORD INJURY 1518

V. De Toledo Ribas, B. Schnepf, M. Challagundla, J.C. Koch, U. Michel, M. Bähr, P. Lingor *(Goettingen, Germany)*

C089 **MON 7/7/2014, 11:15 - FENS-1694**

REGIONAL DIFFERENCES IN THE PROTEOME FOLLOWING SPINAL CORD INJURY 1519

S. Devaux, D. Cizkova, F. Le Marrec-Croq, J. Franck, L. Slovinska, J. Blasko, M. Nagyova, C. Lefebvre, I. Fournier, M. Salzet *(Villeneuve d Ascq, France)*

C090 **MON 7/7/2014, 12:15 - FENS-0436**

MESENCHYMAL STEM CELLS OVEREXPRESSING IL-13 DECREASE LESION SIZE AND DEMYELINATION AFTER SPINAL CORD INJURY 1520

D. Dooley, E. Lemmens, T. Vangansewinkel, S. Lemmens, N. De Vocht, D. Le Blon, P. Ponsaerts, S. Hendrix *(Diepenbeek, Belgium)*

C091 **MON 7/7/2014, 11:15 - FENS-2242**

NEURONAL RELEASE AND SUCCESSFUL ASTROCYTE UPTAKE OF AMINOACIDERGIC NEUROTRANSMITTERS AFTER SPINAL CORD INJURY IN LAMPREYS 1521

B. Fernández-López, S. Valle-Maroto, A. Barreiro-Iglesias, M.C. Rodicio *(Santiago de Compostela, Spain)*

C092 **MON 7/7/2014, 12:15 - FENS-2207**

EFFECTS OF CELL THERAPY, EXERCISE AND ENRICHED ENVIRONMENT ON A MURINE MODEL OF SPINAL CORD INJURY 1522

M. Ghibaudi, M. Boido, A. Niapour, H. Salehi, E. De Amicis, A. Vercelli *(Torino, Italy)*

C093 **MON 7/7/2014, 11:15 - FENS-2320**

EXOGENOUS ADULT POST-MORTEM NEURAL PRECURSORS ATTENUATE SECONDARY DEGENERATION, AND PROMOTE MYELIN SPARING AND FUNCTIONAL RECOVERY FOLLOWING EXPERIMENTAL SPINAL CORD INJURY 1523

T. Giallongo, S. Carelli, C. Gerace, M.H. Danuta, L. Ottobrini, E. Latorre, M. Basso, A.M. Di Giulio, A. Gorio *(Milan, Italy)*

C094 **MON 7/7/2014, 12:15 - FENS-1190**

INVESTIGATING THE THERAPEUTIC EFFECTS OF DELAYED HUMAN EMBRYONIC STEM CELL DERIVED MESENCHYMAL STEM CELL (HESC-MSC) TRANSPLANTS AFTER SPINAL CORD INJURY 1524

S. Habib, A. Toft, C.A. Che Mohamad, E. Olivier, J. Mountford, J.S. Riddell *(Glasgow, United Kingdom)*

C095 **MON 7/7/2014, 11:15 - FENS-0761**

SECRETOME OF APOPTOTIC PERIPHERAL BLOOD MONONUCLEAR CELLS IMPROVES MOTOR FUNCTION AFTER SPINAL CORD INJURY IN RATS 1525

T. Haider, R. Höftberger, M. Mildner, B. Rüger, C. Sherif, P. Altmann, R. Blumer, C. Gabriel, G. Lubec, H.J. Ankersmit *(Vienna, Austria)*

C096 **MON 7/7/2014, 12:15 - FENS-1477**

THE NEUROPROTECTIVE EFFECTS OF CO-ULTRAPEALUT IN A MOUSE MODEL OF SPINAL CORD INJURY 1526

D. Impellizzeri, R. Crupi, I. Paterniti, G. Bruschetta, E. Esposito, S. Cuzzocrea *(Messina, Italy)*

C097 **MON 7/7/2014, 11:15 - FENS-3641**

CXCL12 AND ITS RECEPTORS IN SPINAL CORD INJURY: ACTIVATION AND RECRUITMENT OF M2 TYPE MACROPHAGES 1527

A. Jaerve, M. Todiras, J. Duchene, K. Nitz, F. Qadri, A. Rousselle, M. Bader *(Berlin, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C098 **MON 7/7/2014, 12:15 - FENS-3701**
HUMAN INDUCED NEURAL STEM CELLS FOR SPINAL CORD INJURY IN RATS 1528
J. Hernandez Martin, C. López Serrano, A. Torres-Espín, A. Alvarez Palomo, J. Requena Osete, M. Edel, X. Navarro *(Bellaterra, Spain)*

C25: NEUROTOXICITY, INFLAMMATION, AND NEUROPROTECTION

C099 **MON 7/7/2014, 11:15 - FENS-1335**
IN VITRO GLUTAMATE TREATMENTS MODIFY AMPA RNA EDITING AND ADARS ACTIVITY 1529
A. Filippini, D. Bonini, G. Niccoli, L. La Via, M. Colombi, A. Barbon *(Brescia, Italy)*

C100 **MON 7/7/2014, 12:15 - FENS-0939**
MODULATION OF PARVALBUMIN HIPPOCAMPAL SYSTEM INDUCED BY ESTROGEN ADMINISTRATION IN THE TRIMETHYLTIN MODEL OF HIPPOCAMPAL NEURODEGENERATION 1530
M. Geloso, E. Marchese, V. Di Maria, F. Biamonte, F. Michetti, V. Corvino *(Rome, Italy)*

C101 **MON 7/7/2014, 11:15 - FENS-2095**
ANXIOLYTIC EFFECTS OF HYPERICUM VESICULOSUM ON AGED MALE AND FEMALE MICE 1531
T. Gkadris, A. Vogiatzoglou, N. Kontaxis, A. Kokkosis, G. Iatrou, M. Margarity, F. Lamari *(Patras, Greece)*

C102 **MON 7/7/2014, 12:15 - FENS-3290**
IMPACT OF CLN8 DEFICIENCY IN THE AUTOPHAGY/LYSOSOMAL DEGRADATION PATHWAY 1532
P. Guarneri, C. Blanda, I. Deidda, D. Russo, C. Cascio, G. Galizzi *(Palermo, Italy)*

C103 **MON 7/7/2014, 11:15 - FENS-2979**
EFFECTS OF CAFETERIA DIET ON INFLAMMATORY AND NEURODEGENERATIVE MARKERS IN THE BRAIN 1533
R. Guedes, D. Teixeira, A.L. Cecconello, B.D. Arbo, C.V. Marques, A.L. Hoefel, W.A. Partata, M.F.M. Ribeiro *(Porto Alegre, Brazil)*

C104 **MON 7/7/2014, 12:15 - FENS-0973**
DEVELOPMENT OF A NOVEL IN VITRO BRAIN SLICE MODEL OF DYSREGULATED IRON HOMEOSTASIS IN THE CNS 1534
S. Healy, M. Naughton, J. McMahon, U. FitzGerald *(Galway, Ireland)*

C105 **MON 7/7/2014, 11:15 - FENS-1179**
BLOCKING NMDA RECEPTORS DELAYS DEATH IN RATS WITH ACUTE LIVER FAILURE BY DUAL PROTECTIVE MECHANISMS IN KIDNEY AND BRAIN 1535
V. Hernandez Rabaza, O. Cauli, A. González-Usano, A. Cabrera-Pastor, C. Gimenez-Garzó, P. López-Larrubia, A. Ruiz-Sauri, M. Duszczyk, M. Malek, J.W. Lazarewicz, A. Carratalá, A. Urios, A. Miguel, I. Torregrosa, C. Carda, V. Felipo *(Valencia, Spain)*

C106 **MON 7/7/2014, 12:15 - FENS-3754**
THE ROLE OF ARYL HYDROCARBON RECEPTOR IN THE EXCITATORY SYNAPTIC PROTEIN EXPRESSION IN CORTICAL NEURONS AND BRAIN INFLAMMATION 1536
P. Hsu, P.Y. Lee, Y.H. Lee *(Taipei city, Taiwan)*

C107 **MON 7/7/2014, 11:15 - FENS-2437**
EFFECTS OF DNA/NMDAR-REACTIVE LUPUS ANTIBODY ON SYNAPTIC PLASTICITY AND PLACE CELLS IN THE HIPPOCAMPUS 1537
P. Huerta, S.A. Frattini, E.H. Chang, J. Strohl, Q. Mei, B. Diamond *(Manhasset, USA)*

C108 **MON 7/7/2014, 12:15 - FENS-0760**
KOLAVIRON, ETHANOLIC EXTRACT OF GARCINIA KOLA SEED: A POSSIBLE ANTIDOTE TO VANADIUM NEUROTOXICITY IN RAT MODELS 1538
O. Igado, J.O. Olopade, O.O. Aina, A. Adesida, E.O. Farombi *(Ibadan, Nigeria)*

11:15 - 13:15 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
C109	**MON 7/7/2014, 11:15 - FENS-1685**	
	ERK1 MAP KINASE REGULATES ERK2 DEPENDENT SIGNALLING IN THE MATURE BRAIN	1539
	M. Indrigo, D. Orellana, A. Frizzati, R. Parra, G.M. Ratto, S. Fasano, R. Brambilla *(Milano, Italy)*	
C110	**MON 7/7/2014, 12:15 - FENS-2121**	
	REVISITING HTLV-1 NEUROPATHOLOGY: RE-EXAMINATION OF THE ROLE OF TAX-1 PROTEIN	1540
	T. Jalonen, S. Hingorani, R. Havela, M.L. Linne *(St. George's, Grenada)*	
C111	**MON 7/7/2014, 11:15 - FENS-0449**	
	THE NEUROPROTECTIVE EFFECT OF L-LACTATE ON EXCITOTOXICITY INDUCED BY GLUTAMATE IN PRIMARY CORTICAL NEURONAL CULTURES IS RELATED TO GABAERGIC ACTIVATION	1541
	P. Jourdain, I. Allaman, P. Marquet, P.J. Magistretti *(Lausanne, Switzerland)*	
C112	**MON 7/7/2014, 12:15 - FENS-0477**	
	ASPIRIN REGULATES THE INFLAMMATORY RESPONSES OF ACTIVATED MICROGLIA	1542
	D. Kata, K. Gulya *(Szeged, Hungary)*	
C113	**MON 7/7/2014, 11:15 - FENS-3229**	
	SELECTIVE PHARMACOLOGICAL INHIBITION OF CHEMOKINE RECEPTORS CXCR2 MODULATES THE PHYSIOLOGICAL, BEHAVIORAL AND IMMUNOLOGICAL CHANGES EVOKED BY PARAQUAT INTOXICATION IN RATS	1543
	L. Kist, K.M. Costa, I.S. Maciel, M.M. Campos, M.R. Bogo *(Porto Alegre, Brazil)*	
C114	**MON 7/7/2014, 12:15 - FENS-2888**	
	ACUTE ALLERGIC INFLAMMATION MODULATES MICROGLIAL ACTIVITY AND NEUROGENESIS IN THE MOUSE HIPPOCAMPAL DENTATE GYRUS	1544
	B. Klein, R. Weiss, S. Couillard-Despres, J. Thalhamer, L. Aigner *(Salzburg, Austria)*	
C115	**MON 7/7/2014, 11:15 - FENS-0857**	
	BDNF AND TRKB EXPRESSION IN THE HIPPOCAMPUS AND PREFRONTAL CORTEX OF RATS EXPOSED TO ALCOHOL NEONATALLY	1545
	A. Klintsova, K.E. Boschen, V. Palamarchouk *(Newark, USA)*	
C116	**MON 7/7/2014, 12:15 - FENS-1016**	
	A STUDY OF THE EFFECT OF A NOVEL PEPTIDE ANTAGONIST OF INTERLEUKIN-1 RECEPTOR ON NEUROINFLAMMATION	1546
	A. Kønig, B. Klementiev, E. Bock, V. Berezin *(Copenhagen, Denmark)*	
C117	**MON 7/7/2014, 11:15 - FENS-0626**	
	SYNTHETIC AND ENDOGENOUS CANNABINOIDS PROTECT THE RETINA FROM AMPA-INDUCED EXCITOTOXICITY IN VIVO	1547
	D. Kokona, A. Zimmer, K. Thermos *(Heraklion/Crete, Greece)*	
C118	**MON 7/7/2014, 12:15 - FENS-0473**	
	THE ROLE OF HYALURONIC ACID AND ITS RECEPTOR CD44 IN THE REGULATION OF ASTROCYTES SHAPE	1548
	A. Konopka, A. Skupien, L. Swiech, J. Jaworski, G.M. Wilczynski, J. Dzwonek *(Warsaw, Poland)*	
C119	**MON 7/7/2014, 11:15 - FENS-2264**	
	NITRIC OXIDE-MEDIATED REGULATION OF TRYPANOSOMA BRUCEI BRUCEI INVASION OF THE BRAIN	1549
	K. Kristensson, C. Olivera, S. Vodnala, M. Rottenberg *(Stockholm, Sweden)*	
C120	**MON 7/7/2014, 12:15 - FENS-3155**	
	CORRECTION OF THE HYPOXIA-INDUCED BRAIN DAMAGE BY THE 2-OXOGLUTARATE DEHYDROGENASE INHIBITION.	1550
	E. Kulakovskaya, A. Graf, L. Trofimova, J. Krushinskaya, V. Bunik, N. Sokolova *(Moscow, Russia)*	

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C121 **MON 7/7/2014, 11:15 - FENS-0765**

INHIBITION OF PI3K/AKT/MTOR PATHWAY ALTERS THE PRODUCTION OF INFLAMMATORY MEDIATORS IN LIPOPOLYSACCHARIDE-ACTIVATED MICROGLIA 1551

A. Kumar, A.C.P. De Oliveira, H.S. Bhatia, B.L. Fiebich *(Freiburg, Germany)*

C122 **MON 7/7/2014, 12:15 - FENS-3539**

ALTERED WIRING OF SLEEP-WAKE REGULATORY HYPOTHALAMIC NEURONS IN A MURINE MODEL OF CHRONIC NEUROINFLAMMATION 1552

C. Laperchia, R. Imperatore, L. Cristino, M. Bentivoglio *(Verona, Italy)*

C123 **MON 7/7/2014, 11:15 - FENS-1476**

ERK2/SP1/SP3/REST PATHWAY IS INVOLVED IN A-1254-INDUCED NEURONAL CELL DEATH 1553

G. Laudati, L. Formisano, N. Guida, F. Boscia, A. Esposito, A. Secondo, G. Di Renzo, L.M.T. Canzoniero *(Naples, Italy)*

C124 **MON 7/7/2014, 12:15 - FENS-0579**

XENON PROTECTS CORTICAL NEURONS FROM DEGENERATION INDUCED BY CHRONIC INHIBITION OF GLUTAMATE REUPTAKE SYSTEMS: COOPERATIVE EFFECTS WITH MEMANTINE 1554

J. Lavaur, P. Michel, J. Pype, M. Lemaire, E. Hirsch *(Paris, France)*

C125 **MON 7/7/2014, 11:15 - FENS-0502**

A SINGLE COMPOUND ABL-006 REDUCED ALLODYNIA IN A MOUSE SCIATIC NERVE TRANSECTION MODEL 1555

M. Lee, Y.L. Lin, H.C. Wang, H.N. Shih *(Taichung, Taiwan)*

C126 **MON 7/7/2014, 12:15 - FENS-1330**

XENOBIOTIC RECEPTORS RXR, PXR AND CAR MEDIATE NEUROTOXIC EFFECTS OF 4-PARA NONYLPHENOL IN MOUSE BRAIN TISSUE 1556

E. Litwa, J. Rzemieniec, A. Wnuk, M. Kajta *(Krakow, Poland)*

C127 **MON 7/7/2014, 11:15 - FENS-1323**

NEUROCHEMICAL, HISTOLOGICAL AND BEHAVIORAL CHANGES AFTER METHYLONE EXPOSURE IN RATS 1557

R. López Arnau, J. Martínez Clemente, D. Pubill, J. Camarasa, E. Escubedo *(Barcelona, Spain)*

C128 **MON 7/7/2014, 12:15 - FENS-0428**

ACTIVATION OF TOLL-LIKE RECEPTORS 2, -3 AND -4 PRIME MICROGLIA FROM DIVERSE CENTRAL NERVOUS SYSTEM REGIONS FOR ATP-DEPENDENT INTERLEUKIN-1B RELEASE 1558

C. Marinelli, L. Facci, M. Barbierato, C. Argentini, P. Giusti, S.D. Skaper *(Padova, Italy)*

C129 **MON 7/7/2014, 11:15 - FENS-2245**

METABOLIC BRAIN ACTIVITY CHANGES IN LIVER FAILURE, HYPERAMMONEMIA AND PORTAL HYPERTENSION 1559

M. Mendez Lopez, N. Arias, C. Fidalgo, M.A. Aller, J. Arias, J.L. Arias *(Oviedo, Spain)*

C130 **MON 7/7/2014, 12:15 - FENS-2206**

MESENCHYMAL STEM CELLS EFFECT ON CORTICAL AND SENSORY NEURONS EXPOSED TO TOXIC STIMULI 1560

M. Monfrini, V. Rodriguez-Menendez, E. Donzelli, M. Ravasi, G. Tredici, A. Scuteri *(Monza, Italy)*

C131 **MON 7/7/2014, 11:15 - FENS-3414**

CAFFEIC ACID PHENETHYL ESTER REDUCES THE DAMAGE TRIGGERED BY ABETA1-42 OLIGOMERS IN MOUSE BRAIN 1561

F. Morroni, G. Sita, A. Tarozzi, G. Cantelli Forti, P. Hrelia *(Bologna, Italy)*

C132 **MON 7/7/2014, 12:15 - FENS-3321**

METHAMPHETAMINE DIFFERENTIALLY MODULATES THE LEVELS OF DOPAMINE TRANSPORTER AND DOPAMINE D2 RECEPTOR IN DOPAMINERGIC NERVE TERMINALS 1562

A. Moszczynska *(Detroit, USA)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C133 **MON 7/7/2014, 11:15 - FENS-3614**

TOXIC EFFECT OF HOMOCYSTEINE ON HUMAN GLIAL CELLS 1563

R. Murin, H. Skovierová, S. Mahmood, E. Blahovcová, J. Lehotsky *(Martin, Slovakia)*

C134 **MON 7/7/2014, 12:15 - FENS-0799**

NEUROBEHAVIORAL AND CYTOTOXIC EFFECTS OF VANADIUM DURING OLIGODENDROCYTE MATURATION: A PROTECTIVE ROLE FOR ERYTHROPOIETIN 1564

O. Mustapha, B.O. Oke, N. Offen, A.l. Sirén, J.O. Olopade *(Abeokuta, Nigeria)*

C135 **MON 7/7/2014, 11:15 - FENS-0216**

PSYCHOSINE-INDUCED ASTROCYTE CELL DEFICITS ARE ATTENUATED BY S1P RECEPTOR ACTIVATION: POSSIBLE IMPLICATIONS FOR KRABBE DISEASE 1565

C. O`Sullivan, K.K. Dev *(Dublin, Ireland)*

C136 **MON 7/7/2014, 12:15 - FENS-1965**

ULCERATIVE COLITIS AS A POTENTIAL RISK FACTOR FOR PARKINSON'S DISEASE 1566

M. Oliva Martín, A. Boza-Serrano, A.M. Espinosa, R.M. De Pablos, M. Sarmiento, M. Santiago, A.J. Herrera, J.L. Venero *(Sevilla, Spain)*

C137 **MON 7/7/2014, 11:15 - FENS-0770**

NEUROTOXICIY OF VANADIUM EXPOSURE: COMPARATIVE REGIONAL PREVALENCE OF NEUROPATHOLOGIES 1567

J. Olopade, I.A. Azeez, C. Laperchia, A. Andrioli, M. Bentivoglio *(Ibadan, Nigeria)*

C26: GENE THERAPY

C138 **MON 7/7/2014, 12:15 - FENS-2840**

IL-35 AND IL-27 GENE THERAPY IN CRONIC EAE 1568

G. Casella, A. Finardi, L. Garzetti, F. Colombo, R. Furlan *(Milan, Italy)*

C139 **MON 7/7/2014, 11:15 - FENS-0174**

GENE DELIVERY TARGETED TO MYELINATING CELLS TO TREAT INHERITED NEUROPATHIES AND LEUKODYSTROPHY 1569

A. Kagiava, I. Sargiannidou, S. Bashiardes, J. Richter, N. Schiza, C. Christodoulou, A. Gritti, K.A. Kleopa *(Nicosia, Cyprus)*

C140 **MON 7/7/2014, 12:15 - FENS-2116**

AAV5 VECTORS MEDIATE EFFICIENT TRANSGENE EXPRESSION IN ASTROCYTES IN THE RAT SUBSTANTIA NIGRA 1570

J. Mudannayake, A. Mouravlev, D. Young *(Auckland, New Zealand)*

C141 **MON 7/7/2014, 11:15 - FENS-2513**

TRANSGENIC REPLACEMENT OF OLIGODENDROCYTE GAP JUNCTIONS RESCUES THE PHENOTYPE OF A HYPOMYELINATING LEUKODYSTROPHY MODEL 1571

N. Schiza, I. Sargiannidou, A. Kagiava, C. Karaiskos, K. Kleopa *(Nicosia, Cyprus)*

C27: MENTAL DISORDERS - AFFECTIVE DISORDERS

C142 **MON 7/7/2014, 12:15 - FENS-0082**

ANTIDEPRESSANT-LIKE EFFECT OF AN ENDOGENOUS NEUROPROTECTIVE COMPOUND, 1-METHYL-1,2,3,4-TETRAHYDROISOQUINOLINE DEMONSTRATED IN EXPERIMENTAL MODELS OF DEPRESSION IN RAT: NEUROCHEMICAL CORRELATES 1572

L. Antkiewicz-Michaluk, A. Wasik, E. Mozdzen, I. Romanska, J. Michaluk *(Krakow, Poland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C143 **MON 7/7/2014, 11:15 - FENS-3206**

TRYPTOPHAN / KYNURENINE / QUINOLINIC ACID / KYNURENIC ACID PATHWAY ALTERATIONS IN A MODEL OF CHRONIC STRESS IN MICE: LINKS WITH NEUROINFLAMMATION? 1573

P. Barone, A. Laugeray, J.M. Launay *(Tours, France)*

C144 **MON 7/7/2014, 12:15 - FENS-0754**

INSULIN RECEPTORS IN AN ANIMAL MODEL OF DEPRESSION 1574

B. Budziszewska, A. Kurek, J. Detka, A. Basta-Kaim, M. Leskiewicz, M. Kubera *(Krakow, Poland)*

C145 **MON 7/7/2014, 11:15 - FENS-0561**

THE IMPACT OF PRENATAL STRESS ON THE INSULIN-LIKE-GROWTH FACTOR 1 MEDIATED INTRACELLULAR PATHWAY IN ADULT BRAIN- LINK TO DEPRESSION 1575

A. Basta-Kaim, E. Szczesny, J. Slusarczyk, K. Glombik, E. Trojan, M. Leskiewicz, M. Regulska, M. Kubera, B. Budziszewska *(Krakow, Poland)*

C146 **MON 7/7/2014, 12:15 - FENS-0147**

EVIDENCE THAT PSYCHOSOCIAL STRESS-INDUCED INFLAMMATION AND ALTERED DOPAMINE STATUS CAUSE DEPRESSION-RELEVANT BEHAVIOUR IN MICE 1576

G. Bergamini, D. Azzinnari, H. Sigrist, J. Mechtersheimer, B. Ferger, T. Hildebrandt, B. Hengerer, T. Suter, E. Seifritz, C.R. Pryce *(Zürich, Switzerland)*

C147 **MON 7/7/2014, 11:15 - FENS-0965**

MRNA EXPRESSION OF APOPTOTIC GENES IN BRAIN OF RATS NON-RESPONDING TO IMIPRAMINE TREATMENT IN CHRONIC MILD STRESS MODEL OF DEPRESSION 1577

A. Bielawski, K. Rafa-Zablocka, A. Zelek-Molik, A. Roman, M. Papp, I. Nalepa *(Krakow, Poland)*

C148 **MON 7/7/2014, 12:15 - FENS-1822**

NF-KB P65-DEPENDENT UPREGULATION OF MGLU2 RECEPTORS MEDIATES PRONEUROGENIC AND ANTIDEPRESSANT ACTIVITY OF ACETYL-L-CARNITINE 1578

V. Bortolotto, B. Cuccurazzu, M.M. Valente, F. Ubezio, A. Koverech, P.L. Canonico, M. Grilli *(Novara, Italy)*

C149 **MON 7/7/2014, 11:15 - FENS-1887**

LONG TERM EFFECTS OF ADOLESCENT CHRONIC MILD STRESS ON BRAIN CATECHOLAMINE TRANSMISSION IN RAT BRAIN: A MICRODIALYSIS STUDY 1579

R. Cadeddu, M. Ibba, C. Schirru, E. Carboni *(Cagliari, Italy)*

C150 **MON 7/7/2014, 12:15 - FENS-1434**

LACK OF SEROTONIN TRANSPORTER ALTERS BDNF EXPRESSION IN THE RAT BRAIN DURING EARLY POSTNATAL DEVELOPMENT 1580

F. Calabrese, G. Guidotti, A. Middelman, G. Racagni, J.H. Homberg, M.A. Riva *(Milan, Italy)*

C151 **MON 7/7/2014, 11:15 - FENS-2973**

GUT MICROBIOTA INFLUENCES DEPRESSIVE-LIKE BEHAVIORS AND IMPACTS ON HIPPOCAMPAL NEUROGENESIS IN MICE: INVOLVEMENT OF INFLAMMATORY MECHANISMS 1581

A. Campos, N.P. Rocha, L.Q. Viera, J.R. Nicoli, M.M. Teixeira, A.L. Teixeira Jr. *(Belo Horizonte, Brazil)*

C152 **MON 7/7/2014, 12:15 - FENS-3433**

BEHAVIORAL RESPONSE OF CRTC1-DEFICIENT MICE TO ANTIDEPRESSANTS AND TO A HISTONE DEACETYLASE INHIBITOR 1582

J. Cardinaux, E.M. Meylan, C. Rossetti, O. Halfon, P.J. Magistretti *(Prilly, Switzerland)*

C153 **MON 7/7/2014, 11:15 - FENS-1407**

ANXIOLYTIC-LIKE EFFECT AFTER ACUTE AND SUBCHRONIC ADMINISTRATION OF THE SELECTIVE 5-HT4 RECEPTOR PARTIAL AGONIST RS67,333 1583

C. Mª Elena, J. Amigó, R. Vidal, F. Pilar-Cuéllar, A. Martín, E.M. Valdizán, A. Pazos, A. Díaz *(Santander, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C154 **MON 7/7/2014, 12:15 - FENS-3283**

INCREASED MIF AND IL-1BETA MRNA BLOOD LEVELS AND CHILDHOOD TRAUMA EVENTS AS ACCURATE PREDICTORS OF TREATMENT RESPONSE IN DEPRESSED PATIENTS 1584

A. Cattaneo, R. Uher, L. Bocchio-Chiavetto, M.A. Riva, C.M. Pariante *(Brescia, Italy)*

C155 **MON 7/7/2014, 11:15 - FENS-3308**

PREGENUAL ANTERIOR CINGULATE CORTEX AND ANTERIOR INSULA GLUTAMATERGIC SYSTEM IN MAJOR DEPRESSIVE DISORDER 1585

L. Colic, L.R. Demenescu, M. Li, C. Metzger, M. Walter *(Magdeburg, Germany)*

C156 **MON 7/7/2014, 12:15 - FENS-2373**

DROSOPHILA SHAKER MUTANTS AS MODEL OF BIPOLAR DISORDER: EFFECTS OF MEMANTINE ON ACTIVITY AND SLEEP PATTERNS 1586

M. Collu, M.D. Setzu, A. Liscia, S. Poddighe, M.A. Zuncheddu *(Monserrato, Italy)*

C157 **MON 7/7/2014, 11:15 - FENS-0946**

NK1 RECEPTOR ANTAGONISTS FOR TREATING MOOD DISORDERS: APPLYING DRUG DISCOVERY CONCEPTS TO IDENTIFY A NEW CLINICALLY ACTIVE COMPOUND 1587

M. Corsi, L. Piccoli, C. Griffante, R. Carletti, P. Gerrard, S. Braggio, R. Di Fabio *(Verona, Italy)*

C158 **MON 7/7/2014, 12:15 - FENS-1097**

INCREASING ADULT HIPPOCAMPAL NEUROGENESIS PROVIDES A BUFFER AGAINST THE EFFECTS OF UNPREDICTABLE CHRONIC STRESS 1588

L. Culig, A.M. Le Guisquet, M. Bourdey, J. Lefort-Besnard, B. Brizard, E. Vogel, W. Khemissi, A. Sahay, R. Hen, C. Belzung *(Tours, France)*

C159 **MON 7/7/2014, 11:15 - FENS-0203**

POSSIBLE EVIDENCE OF CEREBRAL ENDOMORPHIN-1 AND ENDOMORPHIN-2 IN ANXIETY AND DEPRESSIVE SYMPTOMS 1589

J. Do Rego, A. Cravezic, J. Fichna, P. Chan Tchi Song, K. Gach, D. Vaudry, J.L. Do Rego, A. Janecka, J. Costentin *(Rouen, France)*

C160 **MON 7/7/2014, 12:15 - FENS-0825**

BI-DIRECTIONAL CONTROL OF DEPRESSIVE BEHAVIOR THROUGH S6 KINASE SIGNALING 1590

J. Dwyer, J. Maldonado-Aviles, A. Lepack, R. DiLeone, R. Duman *(New Haven, USA)*

C161 **MON 7/7/2014, 11:15 - FENS-0588**

REDD1 IS ESSENTIAL FOR STRESS-INDUCED SYNAPTIC LOSS AND DEPRESSIVE BEHAVIOR 1591

K. T. Ota, R. Liu, B. Voleti, J.G. Maldonado-Aviles, V. Duric, M. Iwata, S. Dutheil, C. Duman, S. Boikess, D.A. Lewis, C.A. Stockmeier, R.J. DiLeone, C. Rex, G.K. Aghajanian, R.S. Duman *(New Haven, USA)*

C162 **MON 7/7/2014, 12:15 - FENS-0826**

DETERMINING THE INVOLVEMENT OF LACTATE IN MEDIATING ANTIDEPRESSANT RESPONSES 1592

M. Elsayed, J.M. Petit, V. Eligert, P.J. Magistretti *(Lausanne, Switzerland)*

C163 **MON 7/7/2014, 11:15 - FENS-0805**

EFFECT OF IMIPRAMINE ON TRANSIENT INTRACELLULAR CALCIUM IN HIPPOCAMPAL ASTROCYTES 1593

F. Ferreira, A. Cupido, B. Catalin, F. Kichhkoff, E. Del-Bel, F. Guimarães *(Rio de Janeiro, Brazil)*

C164 **MON 7/7/2014, 12:15 - FENS-3274**

DESIPRAMINE EFFECTS IN ANXIETY, DEPRESSIVE-LIKE PHENOTYPES AND BRAIN PROLIFERATION: INTRODUCTION OF FORCED NON-AQUATIC PLACEMENT BEHAVIOURAL TEST IN ZEBRAFISH (DANIO RERIO) 1594

S. Fokos, E. Giannopoulou, C.R. Dermon *(Patra, Greece)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C165 **MON 7/7/2014, 11:15 - FENS-0609**
REDUCTION OF DEPRESSIVE-LIKE BEHAVIOR BY THE ADOLESCENT PREFRONTAL CORTEX 1595
N. Freund, R.A. Neve, S.L. Andersen *(Boston, USA)*

C166 **MON 7/7/2014, 12:15 - FENS-1711**
PROTEOMIC INVESTIGATION OF THE AMYGDALA AND PREFRONTAL CORTEX IN THE CLOMIPRAMINE MODEL OF DEPRESSION 1596
B. Gellén, P. Gulyássy, K. Völgyi, B. Györffy, A. Simor, A. Czurkó, I. Hernádi, A. Dobolyi, G. Juhász, A.K. Kékesi *(Budapest, Hungary)*

D10: VESTIBULAR

D001 **MON 7/7/2014, 11:15 - FENS-0226**
ADAPTIVE PLASTICITY OF MOLLUSCAN VESTIBULAR APPARATUS TO CHANGES IN GRAVITATION 1597
N. Aseyev, A. Malyshev, M. Roschin, A. Zyuzina, A. Timoshenko, M. Lemak, T. Korshunova, V.N. Ierusalimsky, I.S. Zakharov, P.M. Balaban, Y. Popova, R. Boyle *(Moscow, Russia)*

D002 **MON 7/7/2014, 12:30 - FENS-2396**
BETAHISTINE EFFECTS ON THE AFFERENT DISCHARGE OF THE ISOLATED VESTIBULE IN RODENTS 1598
A. Chacón, A. Ortega, R. Vega, E. Soto *(Puebla, Mexico)*

D003 **MON 7/7/2014, 11:15 - FENS-2455**
OPTIC FLOW INDUCES VESTIBULAR SELF-MOTION AFTEREFFECT 1599
L. Cuturi, P. MacNeilage *(Munich, Germany)*

D004 **MON 7/7/2014, 12:30 - FENS-2138**
SPECIFIC DIFFERENCES OF SYNAPTIC TRANSMISSION IN CA1 HIPPOCAMPUS AFTER BILATERAL VESTIBULAR DEAFFERENTATION IN THE RATS 1600
J. Eron, S.H.S. Uzakov, V.A. Korshunov *(Moscow, Russia)*

D005 **MON 7/7/2014, 11:15 - FENS-2249**
EFFECTS INDUCED BY PROVOCATIVE MOTION ON SLEEP STRUCTURE, BRAIN TEMPERATURE AND CARDIOVASCULAR PARAMETERS 1601
T. Hitrec, R. Amici, M. Cerri, F. Del Vecchio, M. Luppi, E. Nalivaiko *(Bologna, Italy)*

D006 **MON 7/7/2014, 12:30 - FENS-3346**
SODIUM CHANNEL DISTRIBUTION IN VESTIBULAR AFFERENTS - AN UPDATE 1602
A. Lysakowski, S.D. Price *(Chicago, USA)*

D007 **MON 7/7/2014, 11:15 - FENS-0240**
NEURONAL PROHEPARANASE REGULATES SYNAPTIC FUNCTION OF THE CENTRAL VESTIBULAR SYSTEM 1603
C.W. Ma, L. Han, W.C. Cham, Y.S. Chan, D.K.Y. Shum *(Hong Kong, China)*

D11: MULTISENSORY

D008 **MON 7/7/2014, 12:15 - FENS-2385**
CONNECTIONS OF THE PRIMARY SOMATOSENSORY CORTEX OF THE MOUSE WITH OTHER SENSORY AND NON-SENSORY CORTICAL AND SUBCORTICAL SYSTEMS 1604
I. Massé, S. Blanchet-Godbout, G. Bronchti, D. Boire *(Trois-Rivières, Canada)*

D009 **MON 7/7/2014, 11:15 - FENS-1465**
HOW DO TASK AND FOCUS OF ATTENTION INFLUENCE THE INTEGRATION OF MULTIMODAL INFORMATION IN THE HUMAN BRAIN? 1605
A. Melnik, P. König *(Osnabrück, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D010 **MON 7/7/2014, 12:15 - FENS-3084**

COMPARATIVE ANALYSIS OF QUALITATIVE AND QUANTITATIVE FEATURES OF PRIMARY MOTOR AND VISUAL CORTEX IN THE HORSE AND THE CRAB-EATING MACAQUE 1606

M. Panin, P. Zambenedetti, A. Peruffo, M. Giurisato, C. Ballarin, S. Montelli, B. Cozzi, A. Granato *(Padova, Italy)*

D011 **MON 7/7/2014, 11:15 - FENS-0081**

IMPLICATION OF INFRASLOW BRAIN POTENTIAL OSCILLATIONS IN MULTISENSORY INFORMATION PROCESSING IN THE HUMAN BRAIN 1607

K. Pugachev, I.V. Filippov, A.A. Krebs, E.V. Zyuzin *(Yaroslavl, Russia)*

D012 **MON 7/7/2014, 12:15 - FENS-0316**

'VISUAL' PARSING AND 'VISUAL' VANTAGE-POINT DISCRIMINATION ABILITIES CAN BE QUICKLY LEARNED WITHOUT VISUAL-EXPERIENCE 1608

L. Reich, M. Guendelman, A. Amedi *(Jerusalem, Israel)*

D013 **MON 7/7/2014, 11:15 - FENS-0489**

FACTORS REGULATING THE CONTRIBUTION OF CORTICAL-SUBCORTICAL-CORTICAL LOOPS TO INTER-AREAL COMMUNICATION IN THE MACAQUE MONKEY 1609

A. Ribeiro Gomes, C. Lamy, P. Misery, H. Kennedy *(Bron, France)*

D014 **MON 7/7/2014, 12:15 - FENS-2971**

QUANTITATIVE MAPPING OF THALAMIC INPUTS TO LAYER 1 OF FRONTAL, PARIETAL AND OCCIPITAL CORTICES IN THE MARMOSET MONKEY 1610

P. Rubio-Garrido, E.S. Nascimento, R.R.M. De Lima, M.A. Córdoba-Claros, C. Porrero, J.S. Cavalcante, J.C. Cavalcante, J.F. Araujo, F. Clasca *(Madrid, Spain)*

D015 **MON 7/7/2014, 11:15 - FENS-2756**

CROSSMODAL PERCEPTUAL LEARNING IN THE TACTILE SYSTEM AFTER VISUAL TRAINING 1611

T. Saygi, H.R. Dinse, A. Seitz *(Bochum, Germany)*

D016 **MON 7/7/2014, 12:15 - FENS-3463**

AXON DIAMETERS IN THE CORTICAL WHITE MATTER. AN ELECTRON MICROSCOPIC STUDY 1612

A. Schüz, D. Liewald *(Tübingen, Germany)*

D017 **MON 7/7/2014, 11:15 - FENS-3218**

SELECTIVE ACTIVATION IN THE LATERAL OCCIPITAL CORTEX AND A MASSIVE OCCIPITAL DEACTIVATION FOR PASSIVE TOUCH 1613

Z. Tal, R. Geva, A. Amedi *(Jerusalem, Israel)*

D018 **MON 7/7/2014, 12:15 - FENS-0926**

ENHANCED AUDITORY SPATIAL LOCALIZATION IN BLIND ECHOLOCATORS 1614

T. Vercillo, J.L. Milne, M. Gori, M.A. Goodale *(Genoa, Italy)*

D12: VISION - RETINA

D019 **MON 7/7/2014, 11:15 - FENS-2944**

ROLE OF STANNIOCALCIN 2 IN THE HYPOXIC RETINA 1615

D. Ail, C. Grimm *(Zurich, Switzerland)*

D020 **MON 7/7/2014, 12:15 - FENS-0270**

CANNABINOID RECEPTORS CB1 AND CB2, AND GPR55 ARE DIFFERENTIALLY DISTRIBUTED IN THE MONKEY RETINA 1616

J. Bouskila, P. Javadi, C. Casanova, M. Ptito, J.F. Bouchard *(Montreal, Canada)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D021 **MON 7/7/2014, 11:15 - FENS-0297**
ROLE OF RETINAL CANNABINOID RECEPTORS CB1 AND CB2, AND GPR55 DEFINED BY ELECTRORETINOGRAPHY IN VERVET MONKEYS 1617
P. Maurice, J. Bouskila, P. Javadi, C. Casanova, J.F. Bouchard *(Copenhagen, Denmark)*

D022 **MON 7/7/2014, 12:15 - FENS-1303**
FUNCTIONAL CONSEQUENCES OF DIABETIC HYPERGLYCEMIA IN RAT RETINA 1618
A. Castilho, A.F. Ambrósio, E. Hartveit, M.L. Veruki *(Bergen, Norway)*

D023 **MON 7/7/2014, 11:15 - FENS-2976**
ELECTROSPUN SILK FIBERS SERVE AS A SUPPORT FOR ORIENTED GLIAL CELL GROWTH AND RETINAL GANGLION CELL AXON REGENERATION IN VITRO 1619
T. Claudepierre, T. Dinis, M. Reber, P.W. Wiedemann, F. Yen Potin, C. Egles *(Vandoeuvre les Nancy, France)*

D024 **MON 7/7/2014, 12:15 - FENS-1664**
VISUAL PHENOTYPING OF WFS1 MUTANT MICE, MODELS OF WOLFRAM SYNDROME NEURONAL AND DIABETIC SYMPTOMS 1620
C. Delettre, J. Jagodzinska, C.P. Hamel, S. Koks, M. Seveno, G. Lenaers, D. Bonnet-Wersinger *(Montpellier, France)*

D025 **MON 7/7/2014, 11:15 - FENS-1200**
ISOLATING MELANOPSIN-DERIVED SIGNALS UNDER LIGHT-ADAPTED CONDITIONS 1621
C. Eleftheriou, K.E. Davis, A.E. Allen, R.J. Lucas *(Manchester, United Kingdom)*

D026 **MON 7/7/2014, 12:15 - FENS-0837**
HYPEROSMOTIC STRESS AND ANGIOGENESIS ARE DOWNREGULATED BY THE PITUITARY ADENYLATE CYCLASE-ACTIVATING POLYPEPTIDE IN HUMAN RETINAL PIGMENTEPITHELIAL CELLS 1622
E. Fabian, G. Horvath, B. Opper, L. Szereday, D. Reglodi, K. Kovacs *(Pécs, Hungary)*

D027 **MON 7/7/2014, 11:15 - FENS-0897**
ECTOPIC TRANSGENE EXPRESSION IN THE RETINA OF FOUR TRANSGENIC MOUSE LINES 1623
R. Gábriel, J.J. Lawrence, M.M. Wilhelm *(Pécs, Hungary)*

D028 **MON 7/7/2014, 12:15 - FENS-0717**
FIRING PATTERNS OF RD1 MICE RETINAE WITH OR WITHOUT ELECTRICAL STIMULATION 1624
Y. Goo *(Cheongju, Korea)*

D029 **MON 7/7/2014, 11:15 - FENS-0085**
CLINICAL AND FUNCTIONAL CHANGES IN A RABBIT MODEL OF EXPERIMENTAL AUTOIMMUNE EYE INFLAMMATION 1625
G. Ioshimoto, A.M.P. Liber, T.Z. Igami, F.M. Damico, D.F. Ventura *(Sao Paulo, Brazil)*

D030 **MON 7/7/2014, 12:15 - FENS-0511**
SYNAPTIC PATTERN OF NICOTINIC ACETYLCHOLINE RECEPTOR ALPHA 7 AND BETA 2 SUBUNITS ON THE DIRECTION-SELECTIVE GANGLION CELLS IN THE POSTNATAL MOUSE RETINA 1626
C. Jeon, J.S. Lee, E.S. Lee, H.G. Kim, H.J. Kim *(Daegu, Korea)*

D031 **MON 7/7/2014, 11:15 - FENS-0725**
MELANOPSIN-IMMUOREACTIVE RETINAL GANGLION CELLS IN MONGOLIAN GERBIL 1627
M. Jeong, S.J. Jeong, Y.J. Huh, Y.N. Gu, O.J. Kwon, C.J. Jeon *(Daegu, Korea)*

D032 **MON 7/7/2014, 12:15 - FENS-1636**
TRIPARTITE BACE1 INHIBITOR INFLUENCES RETINAL APP PROCESSING AND CELL SURVIVAL IN AN ALZHEIMER'S DISEASE MOUSE MODEL 1628
L. Knels, J. Loeffler, F. Karich, C. Knels, M. Valtink, H.J. Knoelker, R.H. Funk, C. Schroeder *(Dresden, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D033 **MON 7/7/2014, 11:15 - FENS-0666**
LINKING RHODOPSIN DEPHOSPHORYLATION BY PP2A AND DARK ADAPTATION OF ROD PHOTORECEPTORS 1629
A. Kolesnikov, V. Kefalov *(Saint Louis, USA)*

D034 **MON 7/7/2014, 12:15 - FENS-3201**
PACAP ADMINISTRATION CAN AMELIORATE VASCULAR CHANGES IN RETINOPATHY OF PREMATURITY 1630
T. Kvárik, B. Mammel, D. Werling, B. Danyadi, D. Reglodi, P. Kiss, T. Ertl, J. Gyarmati, T. Atlasz *(Pecs, Hungary)*

D035 **MON 7/7/2014, 11:15 - FENS-3520**
IMMUNOCYTOCHEMICAL AND HISTOCHEMICAL ANALYSIS OF THE BAT RETINA 1631
O. Kwon, M.J. Jeong, C.J. Jeon *(Busan, Korea)*

D036 **MON 7/7/2014, 12:15 - FENS-1201**
RETINA EARLY POST-NATAL DIFFERENTIATION IS DELAYED IN DYSTROPHIC MDX MICE 1632
I. Persiconi, N.A. Guadagno, N. Candelise, G. Lupo, M.E. De Stefano *(Rome, Italy)*

D037 **MON 7/7/2014, 11:15 - FENS-0442**
SIGNALING AND NEUROPROTECTION OF EYE TOPICAL NGF ADMINISTRATION ON PHOTORECEPTORS OF A RAT DEVELOPING RETINITIS PIGMENTOSA 1633
M. Rocco, L. Aloe *(Rome, Italy)*

D038 **MON 7/7/2014, 12:15 - FENS-0748**
ELECTROPHYSIOLOGIC RETINAL ALTERATIONS IN PATIENTS WITH OPTIC NEUROPATHY REVEALED BY MFERG 1634
J.M. Rodríguez-Ferrer, J.A. Sáez *(Granada, Spain)*

D039 **MON 7/7/2014, 11:15 - FENS-1902**
A CHILEAN RODENT, OCTODON DEGUS IS A PROMISING MODEL FOR STUDYING RETINAL AGING 1635
K. Szabadfi, R. Gabriel, G.Y.J.R. Setalo, E. Tarragon, C. Estrada, D. Lopez, C.M. Ros, D. Reglodi, A. Tamas, M.T. Herrero *(Pecs, Hungary)*

D040 **MON 7/7/2014, 12:15 - FENS-3164**
LAMINAR AND TOPOGRAPHIC DISTRIBUTION OF CONNEXIN-36 AND CALRETININ IN THE CAT RETINA 1636
I. Telkes, J. Orbán, P. Kóbor, M. Nyitrai, B. Völgyi, P. Buzás *(Pécs, Hungary)*

D041 **MON 7/7/2014, 11:15 - FENS-2020**
RETINAL DEGENERATION IS GOVERNED BY NON-APOPTOTIC CELL DEATH MECHANISMS 1637
D. Trifunovic, B.A.G. Blanca Arango-Gonzalez, A.S. Ayse Sahaboglu, K.S. Katharina Schmidt, S.M. Stylianos Michalakis, P.F. Pietro Farinelli, S.C. Sandra Cottet, P.E. Per Ekström, M.U. Marius Ueffing, F.P.D. François Paquet-Durand *(Tuebingen, Germany)*

D13: PAIN - OPIOIDS AND OTHER ANALGESICS

D042 **MON 7/7/2014, 12:15 - FENS-2933**
ANALYSIS OF OPRM1, OPRK1 AND OPRD1 EXPRESSION IN THE STRIATUM, HYPOTHALAMUS AND PAG OF FEMALE RATS USING MORPHINE IN GESTATION 1638
E. Carricondo, M. Renata Ruggier de Mattos, B. Maria Martha Bernardi, F. Luciano Freitas Felicio *(Santo André, Brazil)*

D043 **MON 7/7/2014, 11:15 - FENS-1937**
BPR1M0007S0 IS A NOVEL POTENT ANALGESIC WITH ENHANCED MU-OPIOID RECEPTOR-MEDIATED BETA-ARRESTIN SIGNALING COMPARED WITH MORPHINE 1639
W. Chang, S.H. Ueng, S.H. Yeh *(Miaoli county, Taiwan)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D044 **MON 7/7/2014, 12:15 - FENS-1640**
TREK-1 CHANNEL DISSOCIATES MORPHINE-INDUCED ANALGESIA AND ADVERSE SIDE EFFECTS 1640
M. Christin, M. Devilliers, J. Busserolles, S. Lolignier, V. Pereira, B. Mazet, P. Delmas, J. Noel, M. Lazdunski, A. Eschalier *(Valbonne, France)*

D045 **MON 7/7/2014, 11:15 - FENS-1491**
EFFECTS OF LACOSAMIDE ON CALCITONIN GENE-RELATED PEPTIDE RELEASE FROM RAT BRAINSTEM 1641
M. Greco, A. Capuano, P. Navarra, G. Tringali *(Rome, Italy)*

D046 **MON 7/7/2014, 12:15 - FENS-0229**
FUNCTIONAL ROLE OF THE VENTRAL HIPPOCAMPUS IN MINOCYCLINE-INDUCED POTENTIATION OF MORPHINE ANALGESIA IN RATS 1642
H. Javid, A. Rezayof *(Tehran, Iran)*

D047 **MON 7/7/2014, 11:15 - FENS-0874**
ODOR-INDUCED ANALGESIC EFFECT IN MICE 1643
H. Kashiwadani, S. Tashiro, Y. Kanmura, T. Kuwaki *(Kagoshima, Japan)*

D048 **MON 7/7/2014, 12:15 - FENS-2520**
ALGESTHESIA AFTER ACUTE AND CHRONICAL INJECTION OF OBESTATIN AND ITS FRAGMENT (1-4) IN NORMAL AND OBESE MALE WISTAR RATS 1644
E. Khirazova, M.V. Maslova, A.A. Guseva, N.A. Sokolova, A.A. Kamenskij *(Moscow, Russia)*

D049 **MON 7/7/2014, 11:15 - FENS-0385**
BLOCKADE OF BASOLATERAL AMYGDALA GABA-A RECEPTORS INHIBITED MINOCYCLINE-INDUCED POTENTIATION OF MORPHINE ANTINOCICEPTION IN RATS 1645
N. Kosarmadar, A. Rezayof *(Tehran, Iran)*

D050 **MON 7/7/2014, 12:15 - FENS-0547**
ANANDAMIDE ATTENUATES THE NITROGLYCERIN-INDUCED NNOS EXPRESSION IN THE RAT CERVICAL SPINAL CORD 1646
G. Nagy-Grócz, L. Tar, Z. Bohár, A. Fejes-Szabó, L. Vécsei, A. Párdutz *(Szeged, Hungary)*

D051 **MON 7/7/2014, 11:15 - FENS-3607**
MODULATION OF HYPERPOLARIZATION-ACTIVATED CYCLIC NUCLEOTIDE-GATED (HCN) CHANNELS BY GPR35 IN PRIMARY SENSORY NEURONS 1647
D. Pellegrini-Giampietro, F. Resta, M. Sili, A. Masi, G. Mannaioni *(Firenze, Italy)*

D14: RHYTHM AND PATTERN GENERATING CIRCUITS - NEUROMODULATION

D052 **MON 7/7/2014, 12:15 - FENS-1573**
THE NEUROPEPTIDE OXYTOCIN FACILITATES CHEMICALLY INDUCED FICTIVE LOCOMOTION IN THE NEONATAL SPINAL CORD WITH THE CONTRIBUTION OF ENDOGENOUS SEROTONIN 1648
F. Dose, P. Zanon, T. Coslovich, G. Taccola *(San Giorgio Di Nogaro, Italy)*

D053 **MON 7/7/2014, 11:15 - FENS-0718**
STATE-DEPENDENT AND CELL-TYPE-SPECIFIC FIRING IN THE BASAL FOREBRAIN 1649
J. Garcia Yague, S. Sakata *(Glaasgow, United Kingdom)*

D054 **MON 7/7/2014, 12:15 - FENS-3462**
THE ROLE OF NEURONAL RAS ACTIVITY IN THE SUPRACHIASMATIC NUCLEUS FOR THE REGULATION OF PHOTIC RESETTING AND CIRCADIAN PERIOD LENGTH 1650
T. Serchov, A. Jilg, I. Radtke, J.H. Stehle, **R. Heumann** *(Freiburg, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D055 **MON 7/7/2014, 11:15 - FENS-2429**

SENSORIMOTOR GATING IN NEURODEGENERATIVE DISEASE IS INFLUENCED BY DOPAMINE RECEPTORS AND CATECHOL-O-METHYLTRANSFERASE DNA POLYMORPHISMS 1651

L. Millian, C. Sancho, J. Carro, E. Bueno, R. Gonzalez-Sarmiento, D.E. López, J.T. López-Alburquerque *(Salamanca, Spain)*

D056 **MON 7/7/2014, 12:15 - FENS-2295**

FUNCTIONAL AND ANATOMICAL ANALYSIS OF OCTOPAMINERGIC NEURONS IN THE DROSOPHILA MELANOGASTER LARVAE 1652

H. Pflüger, K. Lehmann, M. Schubert *(Berlin, Germany)*

D057 **MON 7/7/2014, 11:15 - FENS-0386**

ELECTROPHYSIOLOGICAL EFFECTS OF THE TRANSCRANIAL DIRECT CURRENT STIMULATION ON NEURAL ACTIVITIES IN THE RAT CORTEX 1653

T. Tanaka, Y. Isomura, K. Kobayashi, T. Hanakawa, S. Tanaka, M. Honda *(Tokyo, Japan)*

D058 **MON 7/7/2014, 12:15 - FENS-0677**

THE CROSSTALK BETWEEN CIRCADIAN AND HOMEOSTATIC NEUROMODULATORS SHAPES THALAMIC SYNAPTIC TRANSMISSION FOR THE SLEEP-WAKEFULNESS TRANSITIONS 1654

Y. Yang, C. Hu *(Taoyuan, Taiwan)*

D15: RHYTHM AND PATTERN GENERATING CIRCUITS - AFFERENT AND CENTRAL CONTROL

D059 **MON 7/7/2014, 11:15 - FENS-1148**

LOCOMOTOR-LIKE ACTIVITY MODULATES DORSAL HORN EXCITABILITY IN THE NEONATAL RAT SPINAL CORD 1655

N. Dingu, R. Deumens, G. Taccola *(San Vito al Tagliamento, Italy)*

D060 **MON 7/7/2014, 12:15 - FENS-3509**

EFFECTS OF PHARYNGEAL ELECTRICAL STIMULATION ON SWALLOWING PERFORMANCE 1656

M. Inoue, J. Magara, T. Tsujimura, H. Taniguchi, H. Hayashi *(Niigata, Japan)*

D061 **MON 7/7/2014, 11:15 - FENS-3325**

EFFERENT MODULATION IN THE MECHANOSENSORY LATERAL LINE OF THE LARVAL ZEBRAFISH 1657

I. Odstrcil, F. Engert *(Cambridge, USA)*

D062 **MON 7/7/2014, 12:15 - FENS-0540**

MUSCLE SPINDLE FEEDBACK STEERS LOCOMOTOR RECOVERY AFTER SPINAL CORD INJURY 1658

A. Takeoka, I. Vollenweider, G. Courtine, S. Arber *(Basel, Switzerland)*

D063 **MON 7/7/2014, 11:15 - FENS-1274**

INVOLVEMENT OF BROCA'S AREA IN TEMPORAL CONTROL OF ACTION 1659

M. Wakita *(Inuyama, Japan)*

E05: STRESS AND THE BRAIN - STRESS MODULATED PATHWAYS

E001 **MON 7/7/2014, 11:15 - FENS-1104**

STRESS-INDUCED NEUROMORPHOLOGICAL ALTERATIONS IN THE CENTRAL NUCLEUS OF THE AMYGDALA IN THE SHORT-TAILED FRUIT BAT, CAROLLIA PERSPICILLATA 1660

S. Ammersdörfer, K.H. Esser *(Hannover, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E002 **MON 7/7/2014, 12:15 - FENS-0426**

SOCIAL ISOLATION PROMOTES ONSET AND PROGRESSION OF TUMORIGENESIS IN A MOUSE MODEL OF BREAST CANCER 1661

S. Capoccia, A. Berry, V. Bellisario, C. Raggi, P. Panetta, V. Valentino, C. Barbati, E. Ortona, M. Giorgio, P.G. Pelicci, F. Cirulli *(Rome, Italy)*

E003 **MON 7/7/2014, 11:15 - FENS-0899**

THE EFFECT OF SOCIAL STRESS ON ACTIVATION OF THE RAT LIMBIC SYSTEM AND SUPRACHIASMATIC NUCLEUS 1662

K. Cervená, Z. Bendová *(Prague, Czech Republic)*

E004 **MON 7/7/2014, 12:15 - FENS-2896**

RESPONSE TO ACUTE CORTICOSTERONE TREATMENT OF HIPPOCAMPAL NEURONS IN VITRO IS REDUCED IN DYSTROPHIC MDX MMICE COMPARED TO WILD-TYPE 1663

M. De Stefano, F. De Virgiliis, L. Lombardi, I. Bozzoni, P. Fragapane *(Rome, Italy)*

E005 **MON 7/7/2014, 11:15 - FENS-0202**

CORTICOTROPIN-RELEASING HORMONE REGULATES NEUROSTEROID BIOSYNTHESIS IN THE BRAIN: POSSIBLE IMPLICATION IN THE CONTROL OF THE STRESS RESPONSE 1664

J. Do Rego, S. Haraguchi, M.J. Moon, J.C. Do Rego, I. Hasunuma, D. Vaudry, G. Pelletier, J.Y. Seong, K. Tsutsui, H. Vaudry *(Mont-Saint-Aignan, France)*

E006 **MON 7/7/2014, 12:15 - FENS-2364**

CHRONIC PSYCHOSOCIAL STRESS IN MICE INDUCES INCREASED FEAR CONDITIONING AND EXPRESSION AND ACTIVATES THE KYNURENINE-PATHWAY IN PERIPHERY AND CORTICO-LIMBIC REGIONS 1665

R. Fuertig, D. Azzinnari, H. Sigrist, E. Seifritz, B. Hengerer, A. Ceci, C.R. Pryce *(Biberach an der Riss, Germany)*

E007 **MON 7/7/2014, 11:15 - FENS-0115**

CORTICOTROPIN-RELEASING HORMONE DRIVES ANANDAMIDE HYDROLYSIS IN THE BASOLATERAL AMYGDALA TO PROMOTE ANXIETY 1666

M. Gray, A.B. Kim, T.T.Y. Lee, D. Hermanson, M. Morena, H. Vecchiarelli, K. Hassan, R. McLaughlin, C. Kuhne, J. Deussing, S. Patel, M.N. Hill *(Calgary, Canada)*

E008 **MON 7/7/2014, 12:15 - FENS-2595**

ORIGIN, DISTRIBUTION, SYNAPTIC TARGETS AND ELECTROPHYSIOLOGICAL ACTIONS OF VASOPRESSIN INNERVATION IN RAT LATERAL HABENULA: ITS ROLE IN BEHAVIOURAL DESPAIR 1667

V. Hernandez, F. Chay, E. Vazquez-Juarez, L. Zhang *(Distrito Federal, Mexico)*

E009 **MON 7/7/2014, 11:15 - FENS-1216**

NEW INSIGHTS INTO THE REGULATION OF NEUROPEPTIDE EXPRESSION BY MICRORNAS; MIR-326 TARGETS THE NEUROPEPTIDE UROCORTIN 1 1668

A. Jager, A. Aschrafi, N.F. Olde Loohuis, J.M. Verheijen, B. Gaszner, M. Palkovits, B. Geenen, A. Kos, J.C. Glennon, T. Kozicz *(Nijmegen, The Netherlands)*

E010 **MON 7/7/2014, 12:15 - FENS-3390**

COMPARISON OF EFFECTS DUE TO CORTICOSTERONE INJECTION AND HYPERGRAVITY ON MOUSE HIPPOCAMPAL TRANSCRIPTOME 1669

J. Morel, A. Pulga, Y. Porte *(Talence, France)*

E011 **MON 7/7/2014, 11:15 - FENS-1140**

IDENTIFICATION OF GENES INVOLVED IN BEHAVIORAL ALTERATIONS FOLLOWING STRESSFUL EXPERIENCES 1670

A. Papilloud, O. Riccio, C. Fournier, J. Grosse, C. Sandi *(Lausanne, Switzerland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E012 **MON 7/7/2014, 12:15 - FENS-1797**

A NEW ROLE FOR CORTICOSTERONE IN SYNAPTIC TRANSMISSION VIA GABAB RECEPTORS 1671

T. Piers, H. Seok, B.C. Kim, K. Cho *(Bristol, United Kingdom)*

E013 **MON 7/7/2014, 11:15 - FENS-1117**

EFFECT OF SUBDIAPHRAGMATIC VAGOTOMY ON RESTRAINT STRESS-INDUCED CYCLOOXYGENASE LEVEL IN BRAIN STRUCTURES REGULATING HPA AXIS 1672

P. Rachwalska, A.J. Bugajski, A. Gadek-Michalska, J. Tadeusz, B. Golis, J. Bugajski *(Kraków, Poland)*

E014 **MON 7/7/2014, 12:15 - FENS-1384**

CHANGES OF THE CRH-BP AND UCN MRNA EXPRESSION AFTER LONG-TERM ANTIDEPRESSANT DRUGS ADMINISTRATION 1673

J. Solich, M. Kolasa, A. Faron-Gorecka, M. Kusmider, K. Szafran, P. Pabian, D. Zurawek, M. Dziedzicka-Wasylewska *(Krakow, Poland)*

E015 **MON 7/7/2014, 11:15 - FENS-0934**

THE CRH-CRHR1 SYSTEM MEDIATES THE EFFECTS OF ACUTE STRESS IN PREFRONTAL CORTEX-DEPENDENT COGNITION 1674

A. Uribe, G. Balsevich, C. Dournes, B. Solfrank, S. Santarelli, M. Massana, D. Harbich, B. Mayer, A. Chen, M.V. Schmidt *(Munich, Germany)*

E016 **MON 7/7/2014, 12:15 - FENS-2430**

STRESS-INDUCED ACTIVATION OF MU-OPIOID RECEPTORS IN THE VENTRAL TEGMENTAL AREA DETERMINE DOPAMINE MESOCORTICOLIMBIC RELEASE 1675

A. Valzania, E.C. Latagliata, T. Pascucci, P. Campus, V. Carola, S. Cabib, S. Puglisi-Allegra *(Rome, Italy)*

E017 **MON 7/7/2014, 11:15 - FENS-1204**

CRF TYPE 1 RECEPTORS OF THE MEDIAL AMYGDALA MODULATE INHIBITORY AVOIDANCE RESPONSES IN THE ELEVATED T-MAZE 1676

M. Viana, J.E. Vicentini, J.O.G. Nascimento, I.C. Céspedes, J.C. Bittencourt *(Santos, Brazil)*

E06: BRAIN BLOOD FLOW, METABOLISM, AND HOMEOSTASIS

E018 **MON 7/7/2014, 12:15 - FENS-1172**

CONSEQUENCES OF CORTICAL SPREADING DEPOLARIZATION ON RAT BRAIN METABOLISM REVEALED BY MICROELECTRODE BIOSENSORS 1677

B. Balanca, T. Lieutaud, A. Meiller, S. Marinesco *(Lyon, France)*

E019 **MON 7/7/2014, 11:15 - FENS-2782**

THE IMPORTANCE OF CHAPERONE-MEDIATED AUTOPHAGY IN NEURONS: SUBSTRATES AND DOWN-STREAM EFFECTORS 1678

O. Brekk, M. Xilouri, M. Makridakis, A. Vlahou, L. Stefanis *(Athens, Greece)*

E020 **MON 7/7/2014, 12:15 - FENS-0231**

SHORT-TERM HIGH-FAT-AND-FRUCTOSE FEEDING PRODUCES HIPPOCAMPAL INSULIN RESISTANCE, DENDRITE AND SPINE REDUCTION, TAU AND MAP-2 ALTERATIONS, SYNAPTIC MITOCHONDRIAL DYSFUNCTION AND NEUROINFLAMMATION 1679

E. Calvo-Ochoa, K. Hernández-Ortega, P. Ferrera, R. Quiroz-Báez, C. Arias *(Mexico, Mexico)*

E021 **MON 7/7/2014, 11:15 - FENS-3610**

CHANGES OF THE EXTRACELLULAR MATRIX AND EXTRACELLULAR SPACE DIFFUSION PARAMETERS IN THE THALAMUS OF AGED BRAL2-DEFICIENT MICE 1680

M. Cicanic, M. Edamatsu, Y. Bekku, I. Vorisek, T. Oohashi, L. Vargova *(Prague 5 - Motol, Czech Republic)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E022 **MON 7/7/2014, 12:15 - FENS-3003**
EFFECTS OF ANOXIA ON THE ENERGY METABOLISM IN THE NERVOUS SYSTEM OF AN ANOXIA-TOLERANT SNAIL 1681
L. De Fraga, A.S. Gonçalves, B.P. Coelho, W.A. Partata, R.S.M. Da Silva, D.M. Zancan *(Porto Alegre, Brazil)*

E023 **MON 7/7/2014, 11:15 - FENS-1191**
THE RAB3GAP COMPLEX IS REQUIRED FOR BASAL AND RAPAMYCIN-INDUCED AUTOPHAGY 1682
A. Feldmann, N.S. Spang, H.H. Huesmann, A.K. Kern *(Mainz, Germany)*

E024 **MON 7/7/2014, 12:15 - FENS-1314**
STEREOLOGICAL ASSESSMENT OF CEREBELLUM AND MIDBRAIN MICROCIRCULATION IN THE WILD TYPE MICE 1683
Y. Kolinko, Z. Tonar, J. Cendelin, F. Vozeh, M. Kralickova *(Pilsen, Czech Republic)*

E025 **MON 7/7/2014, 11:15 - FENS-0006**
SPONTANEOUS ELECTRICAL ACTIVITY IN RAT HIPPOCAMPAL NEURONAL NETWORK DEPENDS ON EXTRACELLULAR GLUCOSE CONCENTRATION 1684
W. Minoshima, H. Ito, S. Kudoh *(Sanda, Japan)*

E026 **MON 7/7/2014, 12:15 - FENS-3297**
AXON STRUCTURE-FUNCTION RELATIONSHIPS FROM HOMEOSTATIC CONSTRAINTS 1685
A. Neishabouri, A.a. Faisal *(London, United Kingdom)*

E027 **MON 7/7/2014, 11:15 - FENS-3044**
MEASUREMENT OF FREE RADICALS LEVELS AFTER SUBARACHNOID HEMORRHAGE BY EPR/EPS METHOD 1686
K. Nohejlova, M. Kolar, P. Stopka, R. Rokyta, J. Mares *(Prague, Czech Republic)*

E028 **MON 7/7/2014, 12:15 - FENS-1933**
EVALUATION OF GENE EXPRESSION CHANGES FOLLOWING IN VIVO INDUCTION OF HOMEOSTATIC PLASTICITY 1687
S. Seo, P. Dodson, M.D. White, C. O'Donnell, M.F. Nolan *(Edinburgh, United Kingdom)*

E029 **MON 7/7/2014, 11:15 - FENS-3066**
HEMODYNAMIC RESPONSES DURING ANESTHETIC BURST SUPPRESSION PATTERNS 1688
A. Zagrean, D. Zahiu, C. Acatrinei, A.C. Paslaru, A. Calin, M. Stancu, A. Stoian, S. Mirica, L. Zagrean, M. Moldovan *(Bucharest, Romania)*

F09: HUMAN COGNITION AND BEHAVIOUR - LEARNING AND LONG-TERM MEMORY

F001 **MON 7/7/2014, 11:15 - FENS-1129**
IMPLICIT LEARNING: A STIMULUS-RESPONSE FRAMEWORK 1689
A. Alamia, E. Olivier, A. Zenon *(Bruxelles, Belgium)*

F002 **MON 7/7/2014, 12:15 - FENS-1892**
ACUTE TYPTOPHAN DEPLETION REDUCES KYNURENINE PRODUCTION: IMPLICATIONS FOR COGNITIVE IMPAIRMENT IN BRAIN-GUT AXIS DISORDERS 1690
A. Allen, P.J. Kennedy, A. O'Neill, E.M.M. Quigley, J.F. Cryan, T.G. Dinan, G. Clarke *(Cork, Ireland)*

F003 **MON 7/7/2014, 11:15 - FENS-2851**
TRUE AND FALSE IN THE HUMAN BRAIN: AN FMRI STUDY ON AUTOBIOGRAPHICAL EMOTIONAL MEMORY 1691
D. Ballotta, M. Zucchelli, M.A. Molinari, G. Handjaras, E. Ricciardi, G. Sartori, P. Pietrini, P.F. Nichelli, F. Benuzzi *(Vignola, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F004 **MON 7/7/2014, 12:15 - FENS-0880**
THE DEVELOPMENT OF SINGLE-TRIAL ALLOCENTRIC SPATIAL MEMORY IN 3.5- TO 7-YEAR-OLD CHILDREN 1692
P. Banta Lavenex, F. Ribordy, P. Lavenex *(Lausanne, Switzerland)*

F005 **MON 7/7/2014, 11:15 - FENS-0056**
HUMAN MEDIAL PREFRONTAL CORTEX: CYTOARCHITECTURE AND SEGMENTATION IN MRI 1693
M. Corcoles, R. Gimenez, A. Cuesta, J. Gonzalez-Fuentes, F. Mansilla, E. Artacho, R. Insausti, S. Cebada-Sanchez, P. Marcos, M. Muñoz *(Albacete, Spain)*

F006 **MON 7/7/2014, 12:15 - FENS-2587**
OPTIMIZATION OF THE NEUROFEEDBACK PROTOCOL IN LEARNING DISABLED (LD) CHILDREN WITH AN EEG MATURATIONAL LAG 1694
T. Fernández, M. Rodríguez, F. García, M. Caballero, J. Becerra, T. Harmony, G. Otero-Ojeda *(Queretaro, Mexico)*

F007 **MON 7/7/2014, 11:15 - FENS-2015**
MUSIC ENHANCES MEMORY PERFORMANCES IN YOUNG AND OLDER ADULTS BY MODULATING PREFRONTAL CORTEX ACTIVITY: AN FNIRS STUDY 1695
L. Ferreri, E. Bigand, M. Muthalib, S. Perrey, A. Bugaiska *(Dijon, France)*

F008 **MON 7/7/2014, 12:15 - FENS-3144**
THE SCHEMA EFFECT AND SLEEP-DEPENDENT MEMORY CONSOLIDATION 1696
N. Hennies, J. Cousins, M.A. Lambon Ralph, P.A. Lewis *(Manchester, United Kingdom)*

F009 **MON 7/7/2014, 11:15 - FENS-3023**
MINERALOCORTICOID RECEPTORS AS GENETIC RESILIENCE FACTOR UNDER CHRONIC STRESS? 1697
S. Kanatsou, A.P. Fitch, J.R. Seckl, H. Krugers, M. Joëls *(Amsterdam, The Netherlands)*

F010 **MON 7/7/2014, 12:15 - FENS-1388**
HOW READING BRAILLE AFFECTS 'SIGHTED' BRAIN? 1698
M. Kossut, T. Wolak, A. Kozak, W. Debowska *(Warsaw, Poland)*

F011 **MON 7/7/2014, 11:15 - FENS-0759**
THE HUMAN HIPPOCAMPUS AS A COGNITIVE MAP 1699
P. Lavenex, F. Colombo, F. Ribordy, P. Banta Lavenex *(Lausanne, Switzerland)*

F012 **MON 7/7/2014, 12:15 - FENS-2456**
COMPUTATIONAL MODEL-BASED GENE SET ENRICHMENT ANALYSIS OF HUMAN LEARNING AND MEMORY 1700
G. Luksys, M. Fastenrath, D. Coynel, L. Gschwind, A. Heck, C. Vogler, V. Freytag, K. Spalek, A. Papassotiropoulos, D. De Quervain *(Basel, Switzerland)*

F013 **MON 7/7/2014, 11:15 - FENS-2445**
TESTING THE SPECIFICITY VERSUS GENERALIZABILITY OF THE FEAR EXTINCTION DEFICIT ACROSS ANXIETY DISORDERS: PRELIMINARY DATA FROM AN FMRI STUDY 1701
M. Marin, H. Song, N. Lasko, A. Landau, L. Foy Preer, A. Campbell, E. Pace-Schott, W. Killgore, S. Orr, R. Pitman, N. Simon, M. Milad *(Boston, USA)*

F10: HUMAN COGNITION AND BEHAVIOUR - EMOTION

F014 **MON 7/7/2014, 12:15 - FENS-2910**
EMOTIONAL INTENSITY MATTERS! THE DIFFERENTIAL EFFECT OF EMBODIMENT ON THE PROCESSING OF MODERATELY VS. STRONGLY EMOTIONAL MATERIAL 1702
J. Baumeister, R.I. Rumiati, G. Papa, F. Foroni *(Trieste, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F015 **MON 7/7/2014, 11:15 - FENS-1301**
NEURAL SUBSTRATES OF REAPPRAISAL USING ODORANT STIMULATIONS: AN FMRI STUDY 1703
P. Billot, P. Andrieu, A. Comte, A. Gerardin, S. Vieillard, T. Moulin, J.L. Millot *(Besançon, France)*

F016 **MON 7/7/2014, 12:15 - FENS-2588**
EMOTION RECOGNITION WITHIN A DYNAMIC AUDIOVISUAL STREAM: THE ROLE OF SUBCORTICAL STRUCTURES 1704
G. Caetano, M. Castelo-Branco *(Coimbra, Portugal)*

F017 **MON 7/7/2014, 11:15 - FENS-1315**
ENHANCEMENT OF ENDOCANNABINOID SIGNALING EXERTS ANTIDEPRESSANT-LIKE EFFECTS IN A RODENT MODEL OF REPEATED SOCIAL STRESS-INDUCED DEPRESSION 1705
L. Carnevali, S. Rivara, M. Mor, A. Sgoifo *(Parma, Italy)*

F018 **MON 7/7/2014, 12:15 - FENS-0227**
VARIATION IN 5-HTTLPR SHORT/LONG GENOTYPE MODULATES RESTING FRONTAL EEG ASYMMETRIES IN YOUNG CHILDREN 1706
A. Christou, S. Endo, Y. Wallis, H. Bair, M. Zeegers, J. McCleery *(Birmingham, United Kingdom)*

F019 **MON 7/7/2014, 11:15 - FENS-0367**
IF YOU KEEP IGNORING ME I WILL GET ANGRY: EMOTIONAL PROSODY DETECTION IN DISORDERS OF CONSCIOUSNESS 1707
R. Del Giudice, J. Lechinger, M. Wislowska, D.P.J. Heib, K. Hoedlmoser, M. Schabus *(Salzburg, Austria)*

F020 **MON 7/7/2014, 12:15 - FENS-1889**
ELECTROPHYSIOLOGICAL CORRELATES OF MASKED AND UNMASKED EMOTIONAL EXPRESSIONS IN AN ATTENTIONAL TASK. 1708
M. Del Zotto, A. Pegna *(Geneva, Switzerland)*

F021 **MON 7/7/2014, 11:15 - FENS-2154**
EARLY AND LATE REORGANIZATION OF AMYGDALA CONNECTIONS FOLLOWING UNILATERAL AND BILATERAL DESTRUCTION OF THE VISUAL CORTEX 1709
M. Diano, B. De Gelder, R. Goebel, M. Tamietto *(Turin, Italy)*

F022 **MON 7/7/2014, 12:15 - FENS-3057**
PERSONALITY AND ITS ASSOCIATION WITH THE INTRINSIC PROPERTIES OF EEG SIGNAL DURING RESTING STATE 1710
J. Gorgol, J. Nikadon, M. Lewandowska, J. Dreszer-Drogorób *(Torun, Poland)*

F023 **MON 7/7/2014, 11:15 - FENS-0404**
EEG THETA PHASE SYNCHRONIZATION FOR A RELATIONSHIP BETWEEN VISUAL ATTENTION AND SUBJECTIVE PREFERENCE 1711
M. Kawasaki, Y. Yamaguchi *(Tsukuba, Japan)*

F024 **MON 7/7/2014, 12:15 - FENS-1290**
EXERCISE ADDICTION: THE MARKERS OF A PATHOLOGICAL STATE 1712
O. Lushnikov, S.G. Krivoschekov *(Novosibirsk, Russia)*

F025 **MON 7/7/2014, 11:15 - FENS-1269**
DEFICITS IN EMOTIONAL CONFLICT REGULATION IN CHILDREN EXPOSED TO TRAUMA 1713
H. Marusak, A. Vila, S. Shen, K. Martin, A. Etkin, M. Thomason *(Detroit, USA)*

F026 **MON 7/7/2014, 12:15 - FENS-2676**
THE EFFECT ON EMOTIONS AND BRAIN OSCILLATIONS BY THE DIRECT/INDIRECT LIGHTING 1714
J. Park, Y. Shin, S. Woo, D. Kim, W. Choi *(Seoul, Korea)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F027 **MON 7/7/2014, 11:15 - FENS-3436**

TIMING OF EMOTION REPRESENTATION IN RIGHT AND LEFT OCCIPITAL REGION: EVIDENCE FROM COMBINED TMS-EEG 1715

L. Romero Lauro, G. Mattavelli, A. Casali, C. Papagno, M. Rosanova *(Milano, Italy)*

F028 **MON 7/7/2014, 12:15 - FENS-2943**

THE NEURAL INTERPLAY OF EMOTION AND ATTENTION FOLLOWING SLEEP DEPRIVATION 1716

E. Simon, N. Oren, H. Sharon, A. Kirshner, N. Goldway, T. Hendler *(Tel Aviv, Israel)*

F029 **MON 7/7/2014, 11:15 - FENS-3337**

SOURCE LOCALIZATION OF AFFECTIVE RESPONSES 1717

M. Vavrecka *(Ceske Budejovice, Czech Republic)*

F030 **MON 7/7/2014, 12:15 - FENS-2219**

ASYMMETRY OF THE ENDOGENOUS OPIOID SYSTEM IN THE HUMAN ANTERIOR CINGULATE: A PUTATIVE MOLECULAR BASIS FOR LATERALIZATION OF EMOTIONS AND PAIN 1718

H. Watanabe, S. Fitting, M. Hussain, O. Kononenko, T. Yoshitake, J. Kehr, K. Alkass, H. Druid, T. Yakovleva, G. Bakalkin *(Uppsala, Sweden)*

F031 **MON 7/7/2014, 11:15 - FENS-0878**

FMRI INVESTIGATION OF TICKLISH LAUGHTER AND THE ANTICIPATION OF THE RELATED SENSORY STIMULATION 1719

E. Wattendorf, B. Westermann, K. Fiedler, J. Pfannmöller, M. Lotze, M.R. Celio *(Fribourg, Switzerland)*

F11: ANIMAL COGNITION AND BEHAVIOUR - COGNITIVE LEARNING AND MEMORY SYSTEMS

F032 **MON 7/7/2014, 12:15 - FENS-3082**

SYSTEMS GENETICS ANALYSIS OF SPATIAL LEARNING AND HIPPOCAMPAL NEUROANATOMICAL VARIATION IN MICE 1720

W. Crusio, B. Bonheur, M.P. Algeo, L. Lu, R.W. Williams, A. Delprato *(Bordeaux (Talence)*, France*)*

F033 **MON 7/7/2014, 11:15 - FENS-2570**

LOCAL FIELD POTENTIALS CORRELATE WITH SYMBOLIC DISTANCE EFFECT IN THE PREFRONTAL CORTEX OF NON-HUMAN PRIMATES 1721

F. Di Bello, L. Carbonari, V. Mione, E. Brunamonti, S. Ferraina *(Marino, Italy)*

F034 **MON 7/7/2014, 12:15 - FENS-2897**

PROBING THE RESPONSE OF DORSAL PREMOTOR CORTEX NEURONS DURING A TRANSITIVE INFERENCE TASK IN MACAQUE MONKEYS 1722

V. Mione, F. Di Bello, P. Pani, E. Brunamonti, A. Genovesio, S. Ferraina *(Rome, Italy)*

F035 **MON 7/7/2014, 11:15 - FENS-2729**

PERCEPTUAL STRATEGY UNDERLYING VISUO-TACTILE OBJECT CATEGORIZATION IN RATS 1723

A. Di Filippo, R. Quiroga, M.E. Diamond, D. Zoccolan *(Trieste, Italy)*

F036 **MON 7/7/2014, 12:15 - FENS-1641**

FORNICAL AND NON-FORNICAL HIPPOCAMPAL CONNECTIONS WITH THE RAT ANTERIOR THALAMUS 1724

C. Dillingham, S. O'Mara, J. Erichsen, J. Aggleton, S. Vann *(Dorset, United Kingdom)*

F037 **MON 7/7/2014, 11:15 - FENS-0933**

LIPOCALIN-2 IS INVOLVED IN EMOTIONAL BEHAVIORS AND COGNITIVE FUNCTION 1725

A. Ferreira, V. Pinto, S.D. Mesquita, A. Novais, J.C. Sousa, M. Correia-Neves, N. Sousa, J. Palha, F. Marques *(Braga, Portugal)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F038 **MON 7/7/2014, 12:15 - FENS-0096**

DISTAL EFFECTS OF MAMMILLOTHALAMIC TRACT LESIONS: AN ANALYSIS OF IMMEDIATE EARLY GENE EXPRESSION AND DENDRITIC MORPHOLOGY 1726

A. Frizzati, A.J.D. Nelson, C. Dillingham, K. Thomas, S.D. Vann *(Cardiff, United Kingdom)*

F039 **MON 7/7/2014, 11:15 - FENS-2470**

ENRICHED ENVIRONMENT RECOVERS HIGH-ALTITUDE INDUCED MEMORY IMPAIRMENT AND NEURONAL LOSS VIA VEGF 1727

E. G. Argandoña, N. Ortuzar, M. Alvarez Sánchez, M. Thiersch, L. Alberi, D. Kosenkov, C. Leuenberger, M. Gassmann, E.M. Schneider Gasser *(Leioa, Spain)*

F040 **MON 7/7/2014, 12:15 - FENS-1331**

ACTIVATION PATTERNS OF RAT DORSAL STRIATUM AND HIPPOCAMPUS DEPEND ON THE SPATIAL DEMAND OF NAVIGATION TASKS IN THE DOUBLE-H MAZE 1728

J. Gasser, B. Cosquer, A.L. Boutillier, J.C. Cassel *(Strasbourg, France)*

F041 **MON 7/7/2014, 11:15 - FENS-2009**

BRAIN POTENTIALS IN BEHAVING RATS ACHIEVING THE SAME RESULTS INDIVIDUALLY OR CO-OPERATIVELY 1729

V. Gavrilov *(Moscow, Russia)*

F042 **MON 7/7/2014, 12:15 - FENS-0487**

THE INFLUENCE OF DONEPEZIL AND RIVASTIGMINE ON SPATIAL MEMORY IMPAIRMENTS AFTER ACUTE ETHANOL ADMINISTRATION IN RATS 1730

K. Gawel, M. Jenda, D. Koltunowska, K. Labuz, J. Silberring, J.H. Kotlinska *(Lublin, Poland)*

F043 **MON 7/7/2014, 11:15 - FENS-0558**

ROLE OF THE F3/CONTACTIN CELL ADHESION MOLECULE IN SYNAPTIC PLASTICITY AND MEMORY IN AGED MICE 1731

G. Gennarini, A. Bizzoca, G. Frasca, C. Guida, D. Puzzo, A. Palmeri *(Bari, Italy)*

F044 **MON 7/7/2014, 12:15 - FENS-3081**

PLASTICITY OF STIMULUS EVOKED RESPONSE IN CLOSED-LOOP CONDITIONS IN CULTURED DISSOCIATED NETWORKS 1732

A. Gladkov, A. Pimashkin, A. Lepina, I. Mukhina, V. Kazantsev *(Nizhniy Novgorod, Russia)*

F045 **MON 7/7/2014, 11:15 - FENS-2868**

SYNAPTIC AND MOLECULAR PLASTICITY RELATED WITH FLEXIBILITY AND TRANSFER MEMORY IN THE REWARD CIRCUIT 1733

M. Gomez Climent, M.T. Jurado-Parras, G. Vega-Flores, A. Gruart, J.M. Delgado-Garcia *(Sevilla, Spain)*

F046 **MON 7/7/2014, 12:15 - FENS-1010**

MEMORY OF UNIQUE EVENTS IN THE DAILY LIFE OF RATS: AN ORIGINAL EPISODIC-LIKE MEMORY TASK 1734

A. Gros, M. Allerborn, F. Michon, L. Raguet, J. Kenney, F. Godinot, M. Thevenet, S. Garcia, B. Messaoudi, S. Laroche, A. Veyrac, N. Ravel *(Orsay, France)*

F047 **MON 7/7/2014, 11:15 - FENS-0508**

MITRAGYNINE (KRATOM)-INDUCED MEMORY IMPAIRMENT IN THE MORRIS WATER MAZE 1735

Z. Hassan, F.W. Suhaiimi, V. Murugaiyah, V. Navaratnam, S.M. Mansor, C.P. Muller *(Gelugor, Malaysia)*

F048 **MON 7/7/2014, 12:15 - FENS-1371**

TISSUE-TYPE PLASMINOGEN ACTIVATOR IS CRITICAL FOR ENTORHINAL CORTEX-DEPENDENT SPATIAL NAVIGATION 1736

M. Hebert, E. Maubert, S. Martinez De Lizarrondo, E. Save, D. Vivien, V. Agin *(Caen, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F049 **MON 7/7/2014, 11:15 - FENS-0339**
TIME ESTIMATION OF SUPRA-SECOND INTERVALS IN THE MONGOLIAN GERBIL 1737
J. Henke, V.L. Flanagin, A. Loebel, K. Thurley *(Planegg-Martinsried, Germany)*

F050 **MON 7/7/2014, 12:15 - FENS-2344**
DYNAMIC CHANGES IN NEURONAL POPULATION ACTIVITY OF THE MEDIODORSAL THALAMUS AND PRELIMBIC CORTEX IN RATS DURING INSTRUMENTAL LEARNING 1738
S. Hernandez Gonzalez, J.M. Delgado García *(Seville, Spain)*

F051 **MON 7/7/2014, 11:15 - FENS-1411**
DIFFERENCES IN SPATIAL LEARNING AMONG YOUNG-ADULT RATS BELONGING TO FOUR DIFFERENT STRAINS: INBRED WISTAR, SPRAGUE-DAWLEY, LONG EVANS AND OUTCROSSED WISTAR/SPRAGUE-DAWLEY 1739
E. Jakubowska-Dogru, C. Gökçek-Saraç, M. Wesierska *(Ankara, Turkey)*

F052 **MON 7/7/2014, 12:15 - FENS-3706**
HEAD-DIRECTION CELLS IN NUCLEUS REUNIENS IN FREELY MOVING RAT 1740
M. Jankowski, M. Tsanov, N.F. Wright, S.D. Vann, J.T. Erichsen, J.P. Aggleton, S.M. O'Mara *(Dublin, Ireland)*

F053 **MON 7/7/2014, 11:15 - FENS-0333**
WESTERN DIET CONSUMPTION AND COGNITIVE IMPAIRMENT IN RATS: ASSOCIATIONS WITH HIPPOCAMPAL PATHOPHYSIOLOGY 1741
T. Jenkins, J.C.D. Nguyen, S. Kosari *(Bundoora, Australia)*

F054 **MON 7/7/2014, 12:15 - FENS-3692**
ACTIVATION OF CANNABINOID SYSTEM IN ORBITOFRONTAL CORTEX AND ANTERIOR CINGULATE CORTEX MODULATES COST-BENEFIT DECISION MAKING 1742
A. Khani, M. Kermani, S. Hesam, A. Haghparast, E.G. Argandona, G. Rainer *(Fribourg, Switzerland)*

F055 **MON 7/7/2014, 11:15 - FENS-2458**
EXPRESSION PATTERNS OF SYNAPTIC PLASTICITY MARKERS IN THE RAT LIMBIC SYSTEM IN ALZHEIMER'S DISEASE 1743
Y. Komleva, O.L. Lopatina, A.B. Salmina, N.A. Malinovskaya, A.I. Chernykh *(Krasnoyarsk, Russia)*

F056 **MON 7/7/2014, 12:15 - FENS-0962**
SPATIAL SHORT-TERM MEMORY AND MODULATION OF NMDA RECEPTOR SUBUNIT EXPRESSION IN MEDIAL SEPTAL IMMUNOLESIONED RATS 1744
L. Kruashvili, M. Meparishvili, M. Dashniani, M. Burjanadze, T. Naneishvili, G. Beselia *(Tbilisi, Georgia)*

F057 **MON 7/7/2014, 11:15 - FENS-2163**
THE EFFECTS OF NEUREXIN1 KO ON SPATIAL SEARCH TASKS IN A TOUCHSCREEN BATTERY OF COGNITION 1745
G. Kumar, J. Talpos, T. Steckler *(Beerse, Belgium)*

F058 **MON 7/7/2014, 12:15 - FENS-2629**
HIPPOCAMPAL EEG BIOMARKERS OF SPATIAL NOVELTY PROCESSING 1746
E. Kumarnsit, D. Cheaha *(Hat-Yai, Thailand)*

F059 **MON 7/7/2014, 11:15 - FENS-2556**
EXCITATORY CIRCUITRY IN PREFRONTAL CORTEX OF NEUREXIN-1 ALPHA MICE 1747
Y. Liu, S.H. Bennett, C. Fernandes, G.T. Finnerty *(London, United Kingdom)*

F060 **MON 7/7/2014, 12:15 - FENS-2529**
CONDITIONAL INACTIVATION OF NEUROPEPTIDE Y-Y1 RECEPTORS UNRAVELS THE ROLE OF Y1 AND Y5 RECEPTORS CO-EXPRESSING NEURONS IN ANXIETY 1748
A. Longo, P. Mele, I. Bertocchi, A. Oberto, A. Bachmann, A. Bartolomucci, P. Palanza, R. Sprengel, C. Eva *(Orbassano, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F061 **MON 7/7/2014, 11:15 - FENS-2053**

RECOGNITION MEMORY IMPAIRMENT CAUSED BY SLEEP DEPRIVATION IN O. DEGUS: EFFECT OF AGE BUT DIFFERENTIAL RELATIONSHIP TO STRESS 1749

H. Mª Trinidad, C.E.E. Cristina Estrada Esteban, E.T.C. Ernesto Tarragón Cros, D.L.L. Dolores López, E.F.V. Emiliano Fernández Villalba, F.P. Fabien Pifferi, Y.L. Yves Lamberty, O.B. Olivier Blin, R.B. Regis Bordet, J.C.R. Jill C Richardson *(Murcia, Spain)*

F062 **MON 7/7/2014, 12:15 - FENS-3315**

MODELLING OF PSYCHOPHYSICAL DATA REVEALS PHYSICAL FEATURES USED BY HUMANS AND RATS IN A TACTILE WORKING MEMORY TASK 1750

K. Mansour Pour, V. Schönfelder, A. Fassihi, M. Diamond *(Trieste, Italy)*

F063 **MON 7/7/2014, 11:15 - FENS-2161**

DOPAMINERGIC MODULATION OF THE EXPLORATION LEVEL IN A NON-STATIONARY PROBABILISTIC TASK 1751

A. Marchand, V. Fresno, M. Khamassi, E. Coutureau *(Bordeaux, France)*

F12: MOTIVATION AND EMOTION

F064 **MON 7/7/2014, 12:15 - FENS-1087**

SOCIAL BEHAVIOR AND THE MEDIAN AND DORSAL RAPHE: EFFECTS OF OPTOGENETIC STIMULATION 1752

D. Balazsfi, D. Zelena, L. Farkas, I. Barna, C. Cserép, V. Takács, V. Varga, G. Nyíri, T.F. Freund, J. Haller *(Budapest, Hungary)*

F065 **MON 7/7/2014, 11:15 - FENS-0655**

ROLE OF THE C1473G POLYMORPHISM IN MTPH2 GENE IN THE CHRONIC ETHANOL TREATMENT EFFECT ON BEHAVIOR AND BRAIN SEROTONIN SYSTEM 1753

D. Bazovkina, A. Tsybko, A. Kulikov *(Novosibirsk, Russia)*

F066 **MON 7/7/2014, 12:15 - FENS-2438**

THE TPH2-KNOCKOUT RAT - PHYSIOLOGICAL AND BEHAVIORAL ANALYSIS OF A SEROTONIN DEFICIENT RAT MODEL 1754

D. Beis, Y. Graf, C. Hainer, K. Holzwarth, M. Flinders, V. Swann, A. Geurts, H. Matthew, M. Bader, M. Wöhr, N. Alenina *(Berlin, Germany)*

F067 **MON 7/7/2014, 11:15 - FENS-3489**

PHENOWORLD: A NEW PARADIGM TO SCREEN RODENT BEHAVIOR 1755

M. Castelhano-Carlos, P.S. Costa, H.D. Russig, N. Sousa *(Braga, Portugal)*

F068 **MON 7/7/2014, 12:15 - FENS-3371**

OVERCONSUMPTION OF SWEET REWARDS AT ADOLESCENCE INDUCED PROTRACTED DOWN REGULATION OF DOPAMINERGIC AND OPIOIDERGIC RECEPTORS AT ADULTHOOD IN RATS 1756

E. Coutureau, F. Naneix, J.R. Pape, F. Darlot, M. Cador *(Talence, France)*

F069 **MON 7/7/2014, 11:15 - FENS-1366**

PRENATAL STRESS MODIFIES THE DENDRITIC SPINE DENSITY IN HIPPOCAMPUS AND PREFRONTAL CORTEX OF LAMBS AT BIRTH 1757

B. Depiets, M. Coulon, S. Andanson, S. Bes, E. Chaillou, F. Levy, R. Nowak, A. Boissy *(Saint-Genes-Champanelle, France)*

F070 **MON 7/7/2014, 12:15 - FENS-3668**

BLOCKAGE OF NORADRENERGIC SYSTEM DURING POSTNATAL DEVELOPMENT AFFECTS VOLUNTARY ETHANOL CONSUMPTION AND CONDITIONED PLACE PREFERENCE IN MICE 1758

D. Eduardo, J.M. Angulo-López, M. Mas-Nieto *(Sevilla, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F071 **MON 7/7/2014, 11:15 - FENS-2069**
CHOICE CONTROL ASSESSED BY AUTOMATED DELAY DISCOUNTING TASKS IN THE SOCIAL HOME CAGE 1759
A. Fritz, M. Alvarez-Sanchez, E. Vannoni, V. Võikar, D.P. Wolfer *(Zürich, Switzerland)*

F072 **MON 7/7/2014, 12:15 - FENS-3349**
DIRECTIONALITY OF CENTRAL EXTENDED AMYGDALA INTRINSIC CONNECTIONS IN PRIMATE 1760
J. Fudge, B. Berg, L. Cummings, D. De Campo *(Rochester, USA)*

F073 **MON 7/7/2014, 11:15 - FENS-2681**
CAN WE MODEL SOCIAL STRESS IN FEMALE MICE? 1761
L. Gioiosa, A. Ventura, S. Parmigiani, P. Palanza *(Parma, Italy)*

F074 **MON 7/7/2014, 12:15 - FENS-1975**
EFFECT OF GROOMING ON THE HEART RATE VARIABILITY OF RHESUS MONKEY 1762
L. Grandi, H. Ishida *(Parma, Italy)*

F075 **MON 7/7/2014, 11:15 - FENS-0361**
THE ROLE OF THE BETA-4 NICOTINIC ACETYLCHOLINE RECEPTOR SUBUNIT IN NICOTINE ADDICTION 1763
L. Harrington, A. Herrera-Solís, R. Maldonado, P. Robledo, U. Maskos *(Paris, France)*

F076 **MON 7/7/2014, 12:15 - FENS-3676**
PROLACTIN SIGNAL TRANSDUCTION AND EMOTIONAL BEHAVIORS 1764
S. Karaki, A. Martino, J. Genty, S. Vyas, P. Mollard, A. Martin, A. Binart, F. Tronche *(Paris, France)*

F077 **MON 7/7/2014, 11:15 - FENS-3120**
MELANOCORTIN 4 RECEPTORS IN AVERSION: FLIPPING MOTIVATIONAL VALUE 1765
A. Klawonn, M. Fritz, A. Nilsson, A. Blomqvist, D. Engblom *(Linköping, Sweden)*

F078 **MON 7/7/2014, 12:15 - FENS-1370**
NEURONAL ACTIVITY CONVEYING SOCIAL AND FLUID INFORMATION IN MONKEY STRIATUM 1766
K. Kuraoka, M. Inase *(Osaka-sayama, Japan)*

F079 **MON 7/7/2014, 11:15 - FENS-3526**
INDIVIDUAL DIFFERENCES PREDISPOSING TO RUN 1767
J. Lalanza, S. Fuentes, H. Gagliano, J. Moreno, A. Armario, L. Capdevila, R.M. Escorihuela *(Barcelona, Spain)*

F080 **MON 7/7/2014, 12:15 - FENS-0639**
EFFECT OF GHRELIN ON NEURONAL ACTIVITY IN THE DORSAL RAPHE NUCLEUS IN RESPONSE TO FOOD-PREDICTING CUES IN FREELY BEHAVING RATS 1768
C. Lindemann, B.I. Hyland *(Dunedin, New Zealand)*

F081 **MON 7/7/2014, 11:15 - FENS-0922**
THE IMPACT OF ANXIETY ON RATS' SOCIAL COMPETITION FOR DIFFERENT REWARDS 1769
L. Lozano, E. Tsika, M. Van der Kooij, D. Moore, C. Sandi *(Lausanne, Switzerland)*

G05: PHYSIOLOGICAL METHODS - OPTICAL METHODS

G001 **MON 7/7/2014, 11:15 - FENS-1779**
DEVELOPMENT OF 96/384-WELL KINETIC NEURITE OUTGROWTH/STABILISATION ASSAYS IN HUMAN IPSC-DERIVED NEURONES USING LONG TERM LIVE CELL IMAGING 1770
S. Alcantara, P. Garay, L. McGillicuddy, T. O'Callaghan, T. Dale, D. Appledorn, V. Groppi, D. Trezise *(Welwyn Garden City, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
G002	**MON 7/7/2014, 12:15 - FENS-3112**	
	SUPER-OSCILLATORY IMAGING TO REVEAL NANOSCALE DYNAMICS OF AXONAL DEGENERATION	1771
	J. Bailey, E. Rogers, T.A. Newman, J.E. Chad, N. Zheludev, P. Smith *(Southampton, United Kingdom)*	
G003	**MON 7/7/2014, 11:15 - FENS-1188**	
	OPTICAL PROBING OF NEOCORTICAL CIRCUITS WITH STRUCTURED LIGHT ILLUMINATION BY PHASE MODULATION	1772
	S. Bovetti, C. Moretti, M. Dal Maschio, S. Zucca, T. Fellin *(Genoa, Italy)*	
G004	**MON 7/7/2014, 12:15 - FENS-1590**	
	SINGLE PARTICLE TRACKING AND SUPERRESOLUTION MICROSCOPY STUDIES OF NA,K-ATPASE LOCALIZATION AND TRANSPORT IN DENDRITIC SPINES	1773
	H. Brismar, H. Blom, N. Fritz, T. Liebmann, M. Kruusmägi, A. Aperia *(Solna, Sweden)*	
G005	**MON 7/7/2014, 11:15 - FENS-0912**	
	DEVELOPMENT OF A HIGH-RESOLUTION, PHOTOACTIVATED TRANSGENE EXPRESSION METHOD IN VIVO	1774
	S. Cambridge, A. Dubos, A. Specht *(Heidelberg, Germany)*	
G006	**MON 7/7/2014, 12:15 - FENS-0667**	
	OPTICAL MEASUREMENT OF FAST CALCIUM CURRENTS	1775
	M. Canepari, N. Jaafari *(Grenoble, France)*	
G007	**MON 7/7/2014, 11:15 - FENS-0752**	
	MULTIPLE-SCALES BRAIN IMAGING WITH CORRELATIVE TWO-PHOTON AND LIGHT SHEET MICROSCOPY	1776
	I. Costantini, L. Silvestri, A.L. Allegra Mascaro, L. Sacconi, F.S. Pavone *(Sesto Fiorentino, Italy)*	
G008	**MON 7/7/2014, 12:15 - FENS-3335**	
	ANALYZING NEURONAL FUNCTION USING SYNTHESIZED PHOTO-SWITCHABLE NANOPARTICLE AGENTS	1777
	V. Daria, M.A. Go, T. Zhang, A. Tricoli *(Canberra, Australia)*	
G009	**MON 7/7/2014, 11:15 - FENS-0744**	
	IMPROVED IMAGING OF CLEARED BIOLOGICAL SAMPLES WITH THE ULTRAMICROSCOPE	1778
	H. Dodt, K. Becker, C. Hahn, S. Saghafi *(Vienna, Austria)*	
G010	**MON 7/7/2014, 12:15 - FENS-2388**	
	A NOVEL FLUORESCENT PIPETTE COATING FOR TARGETED SINGLE CELL PHYSIOLOGY	1779
	G. Galiñanes, D. Huber, M. Barbic, J.L. Macklin, K. Susumu, J.B. Delehanty, A.L. Huston, J.K. Makara, I. Medintz, B.K. Andrásfalvy *(Genève, Switzerland)*	
G011	**MON 7/7/2014, 11:15 - FENS-3330**	
	FEMTOSECOND LASER DENDROTOMY FOR ANALYZING MORPHOLOGY-DEPENDENT NEURONAL FUNCTION	1780
	M. Go, A. Colibaba, C. Stricker, S. Redman, H.A. Bachor, V.R. Daria *(Canberra, Australia)*	
G012	**MON 7/7/2014, 12:15 - FENS-2643**	
	NEW SCALE TECHNOLOGY, FOR VISUALIZATION OF FIXED MAMMALIAN NERVOUS SYSTEM	1781
	H. Hama, K. Namiki, H. Kurokawa, T. Hoshida, A. Miyawaki *(Wako, Japan)*	
G013	**MON 7/7/2014, 11:15 - FENS-1854**	
	SIMULTANEOUS WHOLE-ANIMAL 3D-IMAGING OF NEURONAL ACTIVITY USING LIGHT FIELD MICROSCOPY	1782
	M. Hoffmann, R. Prevedel, Y.G. Yoon, N. Pak, G. Wetzstein, S. Kato, T. Schrödel, R. Raskar, M. Zimmer, E.S. Boyden, A. Vaziri *(Wien, Austria)*	
G014	**MON 7/7/2014, 12:15 - FENS-2596**	
	OPTICAL ACTIVATION OF CULTURED HIPPOCAMPAL NEURONS USING TWO PHOTON STIMULATION	1783
	J. Jang, J.H. Lee, W.G. Jung, N.L. Jeon *(Seoul, Korea)*	

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G015 **MON 7/7/2014, 11:15 - FENS-1684**

FLAT-FLOORED AIR-LIFTED MOBILE HOMECAGE FOR LONGITUDINAL OPTICAL AND ELECTROPHYSIOLOGICAL EXPERIMENTS IN AWAKE MICE 1784

M. Kislin, E. Mugantseva, S. Khirug, D. Molotkov, E. Pryazhnikov, J. Kolikova, C. Rivera, H. Rauvala, L. Khiroug *(Helsinki, Finland)*

G016 **MON 7/7/2014, 12:15 - FENS-1466**

VOLTAGE-SENSITIVE DYE IMAGING OF TMS-INDUCED CORTICAL DYNAMICS AND PLASTICITY EFFECTS 1785

V. Kozyrev, S. Rekauzke, U.T. Eysel, D. Jancke *(Bochum, Germany)*

G017 **MON 7/7/2014, 11:15 - FENS-0640**

VISUALIZING MAMMALIAN BRAIN AREA INTERACTIONS BY DUAL-AXIS TWO-PHOTON CALCIUM-IMAGING 1786

J. Lecoq, J. Savall, D. Vucinic, B. Grewe, J.Z. Li, L. Kitch, M.J. Schnitzer *(Stanford, USA)*

G06: COMPUTATION, MODELLING, DATA ANALYSIS AND SOFTWARE

G018 **MON 7/7/2014, 12:15 - FENS-3627**

OPTIMIZER: A FLEXIBLE, INTERACTIVE SOFTWARE TOOL FOR FITTING THE PARAMETERS OF NEURONAL MODELS 1787

P. Friedrich, A.I. Gulyás, T.F. Freund, S. Káli *(Budapest, Hungary)*

G019 **MON 7/7/2014, 11:15 - FENS-3707**

RESPONSE PROPERTIES IN A DETAILED MODEL OF PYRAMIDAL NEURON ACTION POTENTIAL INITIATION 1788

D. Hofmann, A. Neef, I. Fleidervish, M. Gutnick, F. Wolf *(Göttingen, Germany)*

G020 **MON 7/7/2014, 12:15 - FENS-0410**

CULTURED CORTICAL NEURONS USE THE INVERSE RECOGNITION MODEL FOR BLIND SOURCE SEPARATION 1789

T. Isomura, K. Kotani, Y. Jimbo *(Chiba, Japan)*

G021 **MON 7/7/2014, 11:15 - FENS-1502**

LIGAND DOCKING TO G-PROTEIN COUPLED RECEPTORS 1790

J. Jakubik, E.E. El-Fakahany, V. Dolezal *(Prague, Czech Republic)*

G022 **MON 7/7/2014, 12:15 - FENS-2884**

OPTICAL COACTIVATION IN CORTICAL CIRCUITS: REPROGRAMMING THE EXCITATION-INHIBITION BALANCING ACT TO CONTROL NEURONAL GAIN 1791

S. Jarvis, K. Nikolic, S. Schultz *(London, United Kingdom)*

G023 **MON 7/7/2014, 11:15 - FENS-3616**

CORTEX CYTOARCHITECTURE AND FUNCTIONAL AREAS IN THE MNI-REGISTERED 'ATLAS OF THE HUMAN BRAIN': IMPLICATIONS FOR DIAGNOSTICS 1792

J.K. Mai, M. Majtanik *(Duesseldorf, Germany)*

G024 **MON 7/7/2014, 12:15 - FENS-2309**

HOW SMALL CAN MAMMALIAN BRAIN BE: LOWER LIMITS ON BRAIN SIZE 1793

J. Karbowski *(Warsaw, Poland)*

G025 **MON 7/7/2014, 11:15 - FENS-2664**

ACCURATE SPIKE TIME PREDICTION FROM LOCAL FIELD POTENTIALS IN MONKEY VISUAL CORTEX: A NONLINEAR SYSTEM IDENTIFICATION APPROACH 1794

K. Kostoglou, A. Hadjipapas, E. Lowet, M.J. Roberts, P. De Weerd, G.D. Mitsis *(Nicosia, Cyprus)*

G026 **MON 7/7/2014, 12:15 - FENS-0318**

WHEEL RUNNING OF RATS USING RADIO FREQUENCY IDENTIFICATION TECHNOLOGY 1795

N. Kubota, S. Yanagita, Y. Takano, T. Matsuzawa, K. Takeda *(Chiba, Japan)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

9th FENS FORUM OF NEUROSCIENCE

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Monday, 7th July

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13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A14: NEUROGENESIS AND GLIOGENESIS - NEURONAL DIFFERENTIATION

A001 **MON 7/7/2014, 13:30 - FENS-3719**

ANALYSIS OF ADULT NEUROGENESIS IN THE DENTATE GYRUS OF THE HIPPOCAMPUS OF BMAL1-/- MICE 1796

A. Ali, C. Von Gall *(Düsseldorf, Germany)*

A002 **MON 7/7/2014, 14:30 - FENS-3097**

BCL6-ELICITED NEUROGENESIS ALTERS THE WNT/BETA-CATENIN SIGNALING IN THE DEVELOPING CEREBRAL CORTEX 1797

J. Bonnefont, L. Tiberi, J. Van den Ameele, D. Potier, S. Aerts, P. Vanderhaeghen *(Brussels, Belgium)*

A003 **MON 7/7/2014, 13:30 - FENS-3768**

NEW PLAYERS IN THE HUMAN EMBRYONIC NEURAL STEM CELL NICHE 1798

I. Bystron, C. Blakemore *(Oxford, United Kingdom)*

A004 **MON 7/7/2014, 14:30 - FENS-2538**

TRANSCRIPTIONAL REGULATION OF A NEUROGENESIS PROGRAM BY THE PRONEURAL FACTOR ASCL1 1799

D. Castro, D. Drechsel, A.A. Raposo, F. Vasconcelos, B. Berninger, N. Buckley, F. Guillemot *(Oeiras, Portugal)*

A005 **MON 7/7/2014, 13:30 - FENS-3624**

TIS21 IS REQUIRED FOR ADULT NEUROGENESIS IN THE SUBVENTRICULAR ZONE AND FOR OLFACTORY BEHAVIOR REGULATING CYCLINS, BMP4, HES1/5 AND IDS 1800

M. Ceccarelli, S. Farioli-Vecchioli, D. Saraulli, L. Micheli, S. Cannas, F. D'Alessandro, R. Scardigli, L. Leonardi, I. Cinà, M. Costanzi, A. Mattera, V. Cestari, F. Tirone *(Rome, Italy)*

A006 **MON 7/7/2014, 14:30 - FENS-0029**

LYCIUM BARBARUM EXERTS QUALITATIVE NEUROPROTECTIVE EFFECT AGAINST CORTICOSTERONE IN RATS' HIPPOCAMPUS 1801

T. Chan, B.W.M. Lau, C.D. Lee, R.C.C. Chang, K.F. So *(Hong Kong, China)*

A007 **MON 7/7/2014, 13:30 - FENS-1255**

PERSISTENT RADIAL GLIAL CELLS IN THE ADULT HUMAN AND SHEEP SVZ DIFFERENTIALLY EXPRESS FATTY ACID BINDING PROTEINS (FABPS) 1802

V. Dieriks, J.M. Dean, R.L.M. Faull, M.A. Curtis *(Auckland, New Zealand)*

A008 **MON 7/7/2014, 14:30 - FENS-0160**

ADULT HIPPOCAMPAL NEUROGENESIS AND BEHAVIOURAL PERFORMANCE - CAUSE OR CORRELATION? 1803

R. Dijk, S.E. Lazic, S. Engler, L. Slomianka, D.P. Wolfer, I. Amrein *(Zurich, Switzerland)*

A009 **MON 7/7/2014, 13:30 - FENS-3185**

ANTAGONIST TSC22D VARIANTS CONTROL PROLIFERATION/DIFFERENTIATION SWITCH IN CEREBELLAR GRANULE NEURONS AND MEDULLOBLASTOMA CELLS 1804

J. Dragotto, S. Canterini, G. Palladino, F. Mangia, M.T. Fiorenza *(Rome, Italy)*

A010 **MON 7/7/2014, 14:30 - FENS-0687**

ROBOTIC IMAGING CYCLER MICROSCOPY (MELC/TIS) REVEALS THE TOPOLOGY OF SYNAPTIC PROTEIN NETWORKS IN CORTICAL NEURONS 1805

A. Gieseler, R. Hillert, A. Krusche, W. Schubert *(Magdeburg, Germany)*

A011 **MON 7/7/2014, 13:30 - FENS-1677**

VOLUNTARY WHEEL-RUNNING SEQUENTIALLY STIMULATES PROGENITOR DIFFERENTIATION AND PROLIFERATION DURING EARLY STAGES OF NEUROGENESIS IN THE ADULT DENTATE GYRUS 1806

T. Gremmelspacher, U. Häussler, J. Gerlach, C.A. Haas *(Freiburg, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A012 **MON 7/7/2014, 14:30 - FENS-2401**

GENERATION OF A CELLULAR MODEL OF HUMAN PRIMARY MICROCEPHALY 1807

A. Hasche, D.H. Tanaka, A. Herpoel, J. Désir, M. Abramowicz, P. Vanderhaeghen *(Brussels, Belgium)*

A013 **MON 7/7/2014, 13:30 - FENS-1019**

IDENTIFYING NEW ASD-RISK GENES VIA IN-VITRO MONITORING OF NEURONAL DIFFERENTIATION 1808

D. Haslinger, M. Kopp, R. Waltes, S. Lindlar, U. Graab, S. Fulda, C.M. Freitag, A.G. Chiocchetti *(Frankfurt, Germany)*

A014 **MON 7/7/2014, 14:30 - FENS-0282**

HUMAN INDUCED PLURIPOTENT STEM CELL-DERIVED NEURONS: INFLUENCES OF EARLY RETINOID SIGNALLING AND FUNCTIONAL ANALYSIS BY AIS MOVEMENT VISUALIZATION 1809

S. Horschitz, F. Matthaeus, A. Groß, J. Rosner, J. Utikal, P. Schloss, A. Meyer-Lindenberg *(Mannheim, Germany)*

A015 **MON 7/7/2014, 13:30 - FENS-0182**

TAMENESS SELECTION IMPACTS ADULT HIPPOCAMPAL NEUROGENESIS ALONG THE SEPTO-TEMPORAL AXIS IN DOMESTICATED SILVER FOX BRAIN 1810

S. Huang, L. Slomianka, A. Kharlamova, R. Gulevich, L. Trut, I. Amrein *(Zürich, Switzerland)*

A016 **MON 7/7/2014, 14:30 - FENS-2651**

TOWARDS IN VITRO 3D MODELLING - COMBINATION OF HUMAN PLURIPOTENT STEM CELL -DERIVED NEURAL CELLS AND SYNTHETIC HYDROGELS 1811

T. Joki, L. Ylä-Outinen, S. Narkilahti *(Tampere, Finland)*

A017 **MON 7/7/2014, 13:30 - FENS-2526**

STRUCTURAL PREREQUISITES FOR FUNCTIONAL INTEGRATION OF ADULT NEWBORN DENTATE GRANULE CELLS IN THE HIPPOCAMPUS 1812

T. Jungenitz, M. Beining, T. Radic, S. Schwarzacher *(Frankfurt/Main, Germany)*

A018 **MON 7/7/2014, 14:30 - FENS-0289**

DMRT GENES REGULATES THE PRODUCTION OF EARLY-BORN NEURONS IN THE MAMMALIAN CORTEX 1813

T. Kikkawa, Y. Katsuyama, N. Osumi *(Sendai, Japan)*

A019 **MON 7/7/2014, 13:30 - FENS-1781**

ROLE OF RAC GTPASES IN THE DEVELOPMENT OF CORTICAL GABAERGIC INTERNEURONS 1814

R. Macco, R. Pennucci, V. Vaghi, F. Talpo, L. Croci, L. Morè, M. Botta, G. Biella, G. Consalez, P. D'Adamo, I. De Curtis *(Milan, Italy)*

A020 **MON 7/7/2014, 14:30 - FENS-3375**

MIR-21 IS AN NGF-MODULATED MICRORNA THAT SUPPORTS NGF SIGNALING AND REGULATES NEURONAL DEGENERATION 1815

S. Nasi, E. Montalban, N. Mattugini, M. Savino, F. Scagnoli, P. Calissano *(Rome, Italy)*

A15: NEUROGENESIS AND GLIOGENESIS - GLIAL DIFFERENTIATION

A021 **MON 7/7/2014, 13:30 - FENS-2368**

DYNAMICS OF SELF-RENEWAL AND DIFFERENTIATION OF THE OLIGODENDROCYTE PROGENITOR POOL IN THE CNS PARENCHYMA 1816

A. Buffo, S. Di Maria, P. Rosa, M.P. Abbracchio, E. Boda *(Orbassano (Turin, Italy)*

A022 **MON 7/7/2014, 14:30 - FENS-2516**

NOVEL NG2-CREERT2 KNOCK-IN MICE DEMONSTRATE HETEROGENOUS DIFFERENTIATION POTENTIAL OF NG2 GLIA DURING DEVELOPMENT 1817

W. Huang, N. Zhao, X. Bai, K. Karram, J. Trotter, S. Goebbels, A. Scheller, F. Kirchhoff *(Homburg/Saar, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A023 **MON 7/7/2014, 13:30 - FENS-2580**

PROLIFERATION OF CELLS IN CENTRAL CANAL LINING OF RAT SPINAL CORD PRODUCES CELLS WITH NON-EPENDYMAL PHENOTYPE DURING THE POSTNATAL DEVELOPMENT 1818

A. Matiasová, J. Sevc, Z. Gombalova, S. Gedrova, Z. Tomori, Z. Daxnerova *(Kosice, Slovakia)*

A024 **MON 7/7/2014, 14:30 - FENS-0693**

A PDZ BINDING MOTIF CONTROLS G PROTEIN-COUPLED RECEPTOR 17 TRAFFICKING IN DIFFERENTIATING OLIGODENDROCYTES 1819

V. Meraviglia, A.F. Ulivi, A. Fratangeli, F. Valenza, D. Lecca, L. Sironi, M.P. Abbracchio, P. Rosa *(Milano, Italy)*

A025 **MON 7/7/2014, 13:30 - FENS-2724**

DE-NOVO FATTY ACID SYNTHESIS IS CRUCIAL FOR MYELINATION ONSET IN THE PERIPHERAL NERVOUS SYSTEM 1820

L. Montani, M. Trötzmüller, R. Schwager, B. Von Niederhäusern, H. Pohl, E. Tinelli, P. Dimas, H.C. Köfeler, S. Jessberger, C.F. Semenkovich, U. Suter *(Zurich, Switzerland)*

A026 **MON 7/7/2014, 14:30 - FENS-1909**

PROSTAGLANDIN D2 SYNTHASE: A NOVEL MODULATOR IN PERIPHERAL NERVOUS SYSTEM MYELINATION 1821

A. Trimarco, M.G. Forese, G. Dina, D. Pieragostino, Y. Urade, B. Boizet-Bonhoure, F. Martinelli Boneschi, A. Quattrini, C. Taveggia *(Milan, Italy)*

A16: SYNAPTOGENESIS AND ACTIVITY-DEPENDENT DEVELOPMENT - SYNAPSE FORMATION

A027 **MON 7/7/2014, 13:30 - FENS-1462**

THE ROLE OF THE LARGE N-TERMINAL EXTRACELLULAR DOMAINS OF GABAA RECEPTOR ALPHA1 AND ALPHA2 SUBUNITS IN SYNAPSE FORMATION 1822

J. Arama, F.A. Stephenson, A.M. Thomson, J.N. Jovanovic, L.E. Brown *(London, United Kingdom)*

A028 **MON 7/7/2014, 14:30 - FENS-1674**

FUNCTION OF THE TRANSCRIPTION FACTOR NEUROD2 DURING SYNAPTIC INTEGRATION IN THE POSTNATAL OLFACTORY BULB 1823

S. Bugeon, O. Hardt, A. Bosio, H. Cremer, A. De Chevigny *(Marseille, France)*

A029 **MON 7/7/2014, 13:30 - FENS-3205**

THE SORTING RECEPTOR SORCS1 REGULATES SYNAPTIC PROTEOME COMPOSITION 1824

J. De Wit, R. Wright, L. DeNardo, I. Chamma, R. Zemla, M. O'Sullivan, K. Vennekens, J. Antonios, O. Thoumine, A. Attie, J. Yates, A. Ghosh, J. Savas *(Leuven, Belgium)*

A030 **MON 7/7/2014, 14:30 - FENS-0961**

THE SERINE PROTEASE INHIBITOR NEUROSERPIN REGULATES DENSITY AND SHAPE OF DENDRITIC SPINES AND REQUIRES INTERACTION WITH PROPROTEIN CONVERTASES FOR SECRETION 1825

G. Galliciotti, S. Malchow, R. Reumann, F. Wiesmüller, B. Szalay, M. Schweizer, M. Glatzel *(Hamburg, Germany)*

A031 **MON 7/7/2014, 13:30 - FENS-3292**

SYNAPSES BETWEEN NEURONS AND OLIGODENDROCYTE PROGENITOR CELLS IN THE EMBRYONIC ZEBRAFISH SPINAL CORD 1826

M. Graciarena, M. Porte, B. Nait Oumesmar *(Paris, France)*

A032 **MON 7/7/2014, 14:30 - FENS-3546**

LEPTIN POTENTIATES GABAERGIC SYNAPTIC TRANSMISSION IN THE DEVELOPING RAT HIPPOCAMPUS 1827

D. Guimond, D. Diabira, C. Porcher, G.A. Wayman, J.L. Gaiarsa *(Marseille, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A033 **MON 7/7/2014, 13:30 - FENS-2562**

CHRONIC BACE INHIBITION ATTENUATES THE SYNAPSE-PROMOTING EFFECT OF SEZ6 PROTEINS 1828

J. Gunnersen, K.S.L. Teng, K.M. Munro, N.L. Carrodus, P.H. Kuhn, C. Eroglu, S.F. Lichtenthaler *(Parkville, Australia)*

A034 **MON 7/7/2014, 14:30 - FENS-0664**

ARF6 CONTROLS THE DENDRITIC SPINE FORMATION DEPENDING ON NEURONAL MATURATION AND ACTIVITY IN NEURONS 1829

Y. Kim, J. Park, S.E. Lee, M. Kim, D. Hwang, S. Chang *(Seoul, Korea)*

A035 **MON 7/7/2014, 13:30 - FENS-2461**

TRANSITORY COUPLING OF NMDAR ACTIVATION AND INTRACELLULAR CALCIUM RELEASE DURING CA1 SYNAPSE DEVELOPMENT 1830

K. Lee, C. Soares, J.P. Thivierge, J.C. Beique *(Ottawa, Canada)*

A036 **MON 7/7/2014, 14:30 - FENS-2506**

EARLY SYNAPTIC RECRUITMENT OF NEWLY GENERATED YOUNG HIPPOCAMPAL GRANULE CELLS 1831

L. Li, S. Sultan, N. Toni, J. Bischofberger *(Basel, Switzerland)*

A037 **MON 7/7/2014, 13:30 - FENS-2338**

INTRA-AXONAL TRANSLATION OF B-ACTIN IS REQUIRED FOR PRESYNAPTIC DIFFERENTIATION 1832

J. Pedro, M.J. Pinto, R.O. Costa, H.R. Ryu, N.L. Jeon, S.R. Jaffrey, R.D. Almeida *(Coimbra, Portugal)*

A17: SYNAPTOGENESIS AND ACTIVITY-DEPENDENT DEVELOPMENT - ACTIVITY-DEPENDENT GROWTH AND REMODELLING OF SYNAPSES

A038 **MON 7/7/2014, 14:30 - FENS-1084**

THE DEAH-BOX HELICASE DHX36 MEDIATES DENDRITIC LOCALIZATION OF THE NEURONAL PRECURSOR-MICRORNA-134 1833

S. Bicker, S. Khudayberdiev, K. Weiss, K. Zocher, S. Baumeister, G. Schratt *(Marburg an der Lahn, Germany)*

A039 **MON 7/7/2014, 13:30 - FENS-2616**

IMPAIRMENT OF DEVELOPMENTAL SYNAPSE ELIMINATION IN THE CEREBELLUM OF PURKINJE CELL-SPECIFIC BDNF KNOCKOUT MICE 1834

M. Choo, T. Miyazaki, M. Yamasaki, A. Tanimura, N. Uesaka, M. Watanabe, K. Sakimura, M. Kano *(Tokyo, Japan)*

A040 **MON 7/7/2014, 14:30 - FENS-1151**

MATURATION OF BRAIN ELECTROPHYSIOLOGICAL CONNECTIVITY AT REST 1835

T. Harmony, J. Bosch, E. Aubert, G. Otero, R. Pascual-Marquí, J. Ricardo-Garcell, T. Fernández *(Querétaro, Mexico)*

A041 **MON 7/7/2014, 13:30 - FENS-0990**

NMDAR-REGULATED DYNAMICS OF LAYER 4 NEURONAL DENDRITES DURING THALAMOCORTICAL REORGANIZATION IN NEONATES 1836

H. Mizuno, W. Luo, E. Tarusawa, Y.M. Saito, T. Sato, Y. Yoshimura, S. Itohara, T. Iwasato *(Mishima, Japan)*

A042 **MON 7/7/2014, 14:30 - FENS-3055**

RAPID MODULATION OF DENDRITIC SPINE FORMATION BY G-PROTEIN COUPLED ESTROGEN RECEPTOR 1 (GPER1). 1837

K. Sellers, D.P. Srivastava *(London, United Kingdom)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A043 **MON 7/7/2014, 13:30 - FENS-0647**

SCREENING OF RETROGRADE SIGNALING MOLECULES FOR SYNAPSE ELIMINATION IN THE DEVELOPING CEREBELLUM 1838

N. Uesaka, M.U. Uchigashima, T.M. Mikuni, T.N. Nakazawa, H.H. Hirai, M.W. Watanabe, M.K. Kano *(Bunkyo-ku, Japan)*

B26: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - GABA AND GLYCINE

B001 **MON 7/7/2014, 13:30 - FENS-0886**

HETEROMERIC NICOTINIC ACETYLCHOLINE RECEPTORS REGULATE INHIBITION OF FAST-SPIKING CELLS IN LAYER V OF THE FR2 REGION OF THE MURINE PREFRONTAL CORTEX 1839

P. Aracri, S. Meneghini, S. Brusco, A. Amadeo, A. Becchetti *(Milano, Italy)*

B002 **MON 7/7/2014, 14:30 - FENS-1923**

ROLES FOR DELTA-GABAA RECEPTOR MEDIATED CONDUCTANCES IN HIPPOCAMPAL AND THALAMIC NEURONS 1840

D. Bright, T. Smart *(United Kingdom)*

B003 **MON 7/7/2014, 13:30 - FENS-0615**

GABA BIDIRECTIONALLY CONTROLS AP FIRING IN ADULT-BORN HIPPOCAMPAL GRANULE CELLS 1841

S. Heigele, J. Bischofberger *(Basel, Switzerland)*

B004 **MON 7/7/2014, 14:30 - FENS-0606**

GLYCINERGIC INTERNEURONS IN THE CEREBELLAR NUCLEI CIRCUITRY 1842

Z. Husson, S. Dieudonné *(Paris, France)*

B005 **MON 7/7/2014, 13:30 - FENS-1289**

SUBCELLULAR LOCALIZATION OF GABAB RECEPTOR IN RAT LOCUS COERULEUS 1843

Z. Kuo, Y. Fu, M. Min, H. Yang *(Taipei, Taiwan)*

B006 **MON 7/7/2014, 14:30 - FENS-1515**

BIMODAL CONTROL OF GABAERGIC TRANSMISSION ONTO PYRAMIDAL NEURONS BY CANNABINOID RECEPTOR TYPE 2 1844

S. Marinelli, S. Pacioni *(Rome, Italy)*

B007 **MON 7/7/2014, 13:30 - FENS-3204**

PROBING CALRETININ-POSITIVE INTERNEURONS IN AUDITORY CORTEX IN AWAKE HEAD-FIXED ANIMALS 1845

E. Meyer, P. Zmarz, G.B. Keller, A. Lüthi *(Basel, Switzerland)*

B008 **MON 7/7/2014, 14:30 - FENS-1402**

GABAB RESPONSES IN MIDBRAIN DOPAMINERGIC NEURONS ARE SHAPED BY CONCOMITANT ACTIVATION OF DENDRITIC HCN CHANNELS 1846

E. Perez-Garci, A. Hanuschkin, N. Angliker, M. Gassmann, B. Bettler *(Basel, Switzerland)*

B009 **MON 7/7/2014, 13:30 - FENS-1345**

GABAA ALPHA5 SUBUNIT-CONTAINING RECEPTORS MEDIATE DENDRITIC INHIBITION AND CONTROL SYNAPTIC INTEGRATION IN CA1 PYRAMIDAL NEURONS 1847

J. Schulz, A. Thomas, M.C. Hernandez, J. Bischofberger *(Basel, Switzerland)*

B010 **MON 7/7/2014, 14:30 - FENS-0970**

THE ROLE OF CADHERIN-13 IN INTERNEURON DEVELOPMENT AND MEMORY FORMATION IN THE MOUSE HIPPOCAMPUS 1848

S. Sich, S. Popp, A.G. Schmitt, L. Bacmeister, D. Nagel, K.P. Lesch, O. Rivero *(Würzburg, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B011 **MON 7/7/2014, 13:30 - FENS-1028**

BLOCKADE OF GABAB RECEPTOR ENDOCYTOSIS MEDIATES EXCITATORY NEURONAL ARCHITECTURE 1849

M. Terunuma, S. Moss *(Leicester, United Kingdom)*

B012 **MON 7/7/2014, 14:30 - FENS-0315**

ALTERED EXPRESSION OF GENES INVOLVED IN EXCITATION AND INHIBITION IN THE CENTRAL AMYGDALA IN A RAT MODEL OF PERIPUBERTAL STRESS-INDUCED PSYCHOPATHOLOGY 1850

S. Tzanoulinou, O. Riccio, M.W. De Boer, C. Sandi *(Lausanne, Switzerland)*

B013 **MON 7/7/2014, 13:30 - FENS-3579**

OPTOGENETIC APPROACH FOR INVESTIGATION OF GABA ACTIONS IN THE NEURONAL NETWORKS 1851

G. Valeeva, T. Tressard, R. Cossart, R. Khazipov *(Kazan, Russia)*

B014 **MON 7/7/2014, 14:30 - FENS-2641**

CHRONIC PERINATAL CITALOPRAM EXPOSURE REDUCES GABAB RECEPTOR FUNCTIONALITY IN LOCUS COERULEUS NEURONS IN MALE BUT NOT FEMALE RATS 1852

H. Yang, H.Y. Wang, R. Chen, M. Min *(Taichung, Taiwan)*

B27: LIGAND GATED ION CHANNELS - ACETYLCHOLINE RECEPTORS AND G-PROTEIN LINKED RECEPTORS

B015 **MON 7/7/2014, 13:30 - FENS-0750**

MODULATION OF THALAMOCORTICAL GLUTAMATERGIC TRANSMISSION BY PRESYNAPTIC SEROTONIN 2A RECEPTORS. 1853

C. Becamel, A. Barre, D. De Bundel, C. Berthoux, E. Valjent, J. Bockaert, P. Marin *(Montpellier, France)*

B016 **MON 7/7/2014, 14:30 - FENS-1355**

NEURONAL GIRK CHANNEL ACTIVITY IS REGULATED BY PALMITATE TURNOVER 1854

M. Chisari, L. Jia, C. Sobieski, S. Mennerick, K.J. Blumer *(Catania, Italy)*

B017 **MON 7/7/2014, 13:30 - FENS-1844**

NICOTINE-MODULATED SUBUNIT STOICHIOMETRY AFFECTS STABILITY AND TRAFFICKING OF ALPHA3BETA4 NICOTINIC RECEPTOR 1855

S. Colombo, F. Mazzo, F. Pistillo, A. Crespi, F. Clementi, G. Grazioso, N. Borgese, C. Gotti *(Milano, Italy)*

B018 **MON 7/7/2014, 14:30 - FENS-3762**

ANALOGS OF 3-PYRIDYL ETHER AS POTENTIAL NEW LIGANDS WITH HIGH AFFINITY AND EFFICACY AT SELECTIVE NACHRS 1856

M. Dávila-García, A. Ogunjirin, J. Fortunak, L. Brown, Y. Xiao *(Washington, USA)*

B019 **MON 7/7/2014, 13:30 - FENS-1021**

CHRONIC NICOTINE EXPOSURE AND/OR ABSTINENCE REGULATES NICOTINIC RECEPTOR SUBTYPE EXPRESSION IN MOUSE BRAIN 1857

F. Fasoli, M. Moretti, F. Pistillo, V. Mucchietto, M. Marks, F. Clementi, C. Gotti *(Milano, Italy)*

B020 **MON 7/7/2014, 14:30 - FENS-1213**

MONKEY ADRENAL CHROMAFFIN CELLS EXPRESS ALPHA6BETA4 NICOTINIC ACETYLCHOLINE RECEPTORS 1858

J. Hone, A. Hernandez-Vivanco, M. Scadden, B. Carmona-Hidalgo, J.M. McIntosh, A. Albillos *(Madrid, Spain)*

B021 **MON 7/7/2014, 13:30 - FENS-0183**

ALPHA 7 SUBUNIT CONTAINING NICOTINIC ACETYLCHOLINE RECEPTORS MEDIATE CONTRACTIONS OF MUSCLES RESPONSIBLE FOR SPACE POSITIONING OF THE SNAIL TENTACLE 1859

N. Krajcs, L. Hernádi, T. Kiss *(Tihany, Hungary)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B022 **MON 7/7/2014, 14:30 - FENS-0771**

ALTERED MUSCARINIC MODULATION OF LOCAL CIRCUIT INTERNEURONS IN THE C3H/HEJ BACKCROSS MOUSE MODEL OF ABSENCE EPILEPSY 1860

M. Eichmann, A. Lüttjohann, V. Narayanan, H.C. Pape, S.G. Meuth, T. Budde *(Münster, Germany)*

B023 **MON 7/7/2014, 13:30 - FENS-1215**

THE REGULATORY REGIONS OF THE CHRFAM7A GENE, THE ALFA7 NICOTINIC ACETYLCHOLINE RECEPTOR SUBUNIT DUPLICATE FORM, INVOLVED IN THE CHOLINERGIC ANTI-INFLAMMATORY PATHWAY 1861

A. Maroli, D.M. Fornasari, R.B. Benfante *(Milano, Italy)*

B024 **MON 7/7/2014, 14:30 - FENS-3585**

A NEW ADENYLYL-CYCLASE INVOLVED IN DROSOPHILA MELANOGASTER OLFACTORY ASSOCIATIVE MEMORY 1862

P. Musso, L. Ajuria, N. Gervasi, T. Preat, P. Tchenio *(Paris, France)*

B025 **MON 7/7/2014, 13:30 - FENS-1470**

CHANGES IN GLUTAMATE RECEPTORS EXPRESSION IN THE MESOLIMBIC PATHWAY DURING NICOTINE EXPOSURE AND WITHDRAWAL 1863

F. Pistillo, F. Fasoli, M. Moretti, M. Marks, F. Clementi, C. Gotti *(Milano, Italy)*

B026 **MON 7/7/2014, 14:30 - FENS-2356**

NICOTINIC ACH RECEPTORS (NACHRS) IN THE HABENULAR-INTERPEDUNCULAR COMPLEX: SUBUNIT COMPOSITION AND FUNCTION ON THE RELEASE OF ACH AND NORADRENALINE 1864

P. Scholze, F. Beiranvand, C. Zlabinger, S. Huck *(Vienna, Austria)*

B28: ION CHANNELS - SODIUM CHANNELS

B027 **MON 7/7/2014, 13:30 - FENS-2156**

FUNCTIONAL IMPLICATIONS AND IONIC BASIS OF DEPOLARIZING AFTERPOTENTIALS IN MEDIAL ENTORHINAL CORTEX LAYER-II STELLATE CELLS 1865

C. Alessi, A. Raspanti, J. Magistretti *(Pavia, Italy)*

B028 **MON 7/7/2014, 14:30 - FENS-2644**

SODIUM CHANNELS CONTRIBUTE TO POSTSYNAPTIC SIGNALLING AT THE GLUTAMATERGIC MITRAL CELL TO GRANULE CELL SYNAPSE OF THE MAMMALIAN OLFACTORY BULB 1866

V. Egger, B. Rozsa, G. Katona, W.G. Bywalez *(Regensburg, Germany)*

B029 **MON 7/7/2014, 13:30 - FENS-1175**

MECHANISM OF SLOW REPRIMING OF VOLTAGE-GATED NA CHANNELS BY LOCAL ANESTHETICS 1867

V. Gawali, P. Lukacs, L. Rubi, X. Koenig, K. Hilber, H. Todt *(Vienna, Austria)*

B030 **MON 7/7/2014, 14:30 - FENS-0864**

TUNING NEURONAL EXCITABILITY THROUGH MODULATION OF VOLTAGE GATED SODIUM CHANNELS: A DYNAMIC CLAMP STUDY 1868

D. Kaplan, E.A. Thomas, C.A. Reid, E. Skafidas, S. Petrou *(Parkville, Australia)*

B031 **MON 7/7/2014, 13:30 - FENS-0286**

THALAMOCORTICAL HYPEREXCITABILITY AND HIGH FREQUENCY OSCILLATIONS (HFOS) INDUCED BY HYPOEXCITABILITY OF GABAERGIC NEURONS IN A GEFS+ NAV1.1 KNOCK-IN MOUSE MODEL 1869

J. Lavigne, C. Liautard, U. Hedrich, D. Kirschenbaum, A. Escayg, H. Lerche, M. Mantegazza *(Valbonne, France)*

B032 **MON 7/7/2014, 14:30 - FENS-3631**

KIDINS220/ARMS IS A NOVEL MODULATOR OF VOLTAGE-GATED SODIUM CHANNEL ISOFORM 1.2 (NAV1.2) 1870

A. Mohanty, J. Scholz-Starke, E. Ferrea, F. Benfenati, F. Cesca *(Genova, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B033 **MON 7/7/2014, 13:30 - FENS-3425**

DOWN-REGULATION OF SODIUM CHANNEL AVAILABILITY DURING DEPOLARIZATIONS IS CRITICAL IN BOOSTING MOUSE CHROMAFFIN CELL OUTPUT 1871

M. Ottaviani, D.H.F. Vandael, C. Legros, N.C. Guérineau, V. Carabelli, E. Carbone *(Torino, Italy)*

B034 **MON 7/7/2014, 14:30 - FENS-1607**

WIDESPREAD REDUCTION OF GABAERGIC INHIBITION IN HIPPOCAMPAL CIRCUITS OF NAV1.1+/- KNOCK-OUT MICE, ANIMAL MODEL OF DRAVET SYNDROME 1872

P. Scalmani, G. Bechi, S. Franceschetti, M. Mantegazza *(Milano, Italy)*

B035 **MON 7/7/2014, 13:30 - FENS-2002**

MODELING DISTINCT MODES OF ACTIONS FOR SODIUM CHANNEL INHIBITORS 1873

A. Szabó, R. Karoly, N. Lenkey, A. Mike *(Budapest, Hungary)*

B036 **MON 7/7/2014, 14:30 - FENS-1831**

BIOPHYSICAL PROPERTIES OF VERATRIDINE, BIOALLETHRINE AND BETA-POMPILIDOTOXIN ON NAV1.1 SODIUM CHANNELS 1874

N. Von Schoubye, U. Kristiansen, N.O. Dalby, M. Grunnet, H.S. Jensen, T. Jespersen *(Copenhagen, Denmark)*

B29: ION CHANNELS - OTHER

B037 **MON 7/7/2014, 13:30 - FENS-0104**

BINDING AND REGULATION OF HYPERPOLARIZATION-ACTIVATED CYCLIC NUCLEOTIDE-GATED (HCN)1 CHANNELS BY NEDD4-2 1875

R. Bender, W. Wilkars, J. Wollberg, E. Mohr, R. Bähring *(Hamburg, Germany)*

B038 **MON 7/7/2014, 14:30 - FENS-0411**

DOWNREGULATION OF KV1.2 PRIME CA3 PYRAMIDAL CELLS FOR MEMORY FORMATION AT PP SYNAPSES 1876

K. Eom, J.H. Hyun, W.K. Ho, S.H. Lee, M.H. Kim *(Seoul, Korea)*

B039 **MON 7/7/2014, 13:30 - FENS-0649**

PALMITOYLATION OF TRPML3 REGULATES ITS SURFACE EXPRESSION AND MEMBRANE TRAFFICKING IN AUTOPHAGY 1877

H. Kim, D. Kim, M. Kim *(Suwon, Korea)*

B040 **MON 7/7/2014, 14:30 - FENS-1731**

THE HYPERPOLARIZATION-ACTIVATED CURRENT IN THE INTEGRATION OF SYNAPTIC INPUTS IN MIDBRAIN DOPAMINE NEURONS 1878

R. Narducci, E. Landucci, A. Dilaghi, F. Moroni, G. Mannaioni, A. Masi *(Florence, Italy)*

B041 **MON 7/7/2014, 13:30 - FENS-2390**

AMINOGLYCOSIDES INHIBIT 1A AND 1B ACID SENSING IONIC CHANNELS (ASIC) HOMOMERS EXPRESSED IN CHO CELLS 1879

A. Ortega-Ramírez, K. Pérez-Tierra, M.A. Gandini, R. Félix, R. Vega, E. Soto *(Puebla, Mexico)*

B042 **MON 7/7/2014, 14:30 - FENS-1935**

TRPV2 CHANNELS REGULATE SPONTANEOUS GABA RELEASE IN THE RAT ANTERIOR HYPOTHALAMUS 1880

O. Skiteva, M. Druzin, S. Johansson *(Umeå, Sweden)*

B043 **MON 7/7/2014, 13:30 - FENS-1966**

HOW TO PROPERLY MEASURE AN I-V RELATION? INTERPOLATION VERSUS RAMP METHODS AND THEIR CONSEQUENCES FOR ESTIMATED REVERSAL POTENTIALS 1881

T. Yelhekar, M. Druzin, U. Karlsson, E. Blomqvist, S. Johansson *(Umeå, Sweden)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

DOWNREGULATION OF KV1.2 PRIMES CA3 PYRAMIDAL CELLS FOR MEMORY FORMATION AT PP SYNAPSES 1882
K. Eom, K. Hyun, W.K. Ho, S.H. Lee *(Seoul, Korea)*

B30: SYNAPSES - POSTSYNAPTIC STRUCTURES

B044 **MON 7/7/2014, 14:30 - FENS-1978**
POST-POSPHORYLATION PROLYL-ISOMERAZATION OF PSD95 REGULATES NMDA-MEDIATED SYNAPTIC TRANSMISSION IN THE HIPPOCAMPUS 1883
R. Antonelli, R. De Filippo, E. Cherubini, P. Zacchi *(Trieste, Italy)*

B045 **MON 7/7/2014, 13:30 - FENS-2862**
PHYSIOLOGICAL ROLE OF NLGN2 IN ANXIETY PROCESSING IN MICE 1884
O. Babaev, D. Krueger-Burg, N. Brose *(Göttingen, Germany)*

B046 **MON 7/7/2014, 14:30 - FENS-3228**
STUDY OF POSTSYNAPTIC ZINC CHANGES IN HIPPOCAMPAL CA3 AREA USING THE FLUORESCENT INDICATOR NEWPORT GREEN 1885
V. Corceiro, F.M.C. Bastos, C.M. Matias, P.J. Mendes, F.D.S. Sampaio dos Aidos, J.C. Dionisio, R.M. Quinta-Ferreira, F.J.A. Cardoso, M.E. Quinta-Ferreira *(Coimbra, Portugal)*

B047 **MON 7/7/2014, 13:30 - FENS-2992**
INHIBITORY SYNAPSES: PALMITOYLATION OF GEPHYRIN AS A NOVEL REGULATOR OF STRUCTURAL PLASTICITY!? 1886
S. Ebert, B. Dejanovic, G. Schwarz *(Cologne, Germany)*

B048 **MON 7/7/2014, 14:30 - FENS-1174**
CONTROLLED DELIVERY OF AMPA RECEPTOR-CONTAINING RECYCLING ENDOSOMES TO DENDRITIC SPINES 1887
M. Esteves da Silva, M. Adrian, C.J. Wierenga, L.C. Kapitein, C.C. Hoogenraad *(Utrecht, The Netherlands)*

B049 **MON 7/7/2014, 13:30 - FENS-0936**
MOLECULAR DETERMINANTS FOR TARGETING OF GLUTAMATE RECEPTORS AT HIPPOCAMPAL MOSSY FIBER SYNAPSES 1888
S. Fièvre, M. Carta, F. Coussen, C. Mulle *(Bordeaux, France)*

B050 **MON 7/7/2014, 14:30 - FENS-2736**
SNAP-25 REGULATES SPINE MORPHOGENESIS IN VITRO AND IN VIVO THROUGH THE INTERACTION WITH P140CAP AND PSD-95 1889
G. Fossati, R. Morini, I. Corradini, F. Antonucci, P. Trepte, E. Edry, V. Sherma, A. Papale, A. Savardi, D. Pozzi, P. Defilippi, J. Meier, R. Brambilla, E. Turco, K. Rosenblum, E. Wanker, N. Ziv, E. Menna, M. Matteoli *(Milan, Italy)*

B051 **MON 7/7/2014, 13:30 - FENS-0832**
THE ROLE OF DYSTROPHIN-ASSOCIATED PROTEINS IN REGULATION OF GABAERGIC SYNAPSES 1890
S. Früh, P. Panzanelli, D. Bürgisser, S.K. Tyagarajan, J.M. Fritschy *(Zurich, Switzerland)*

B052 **MON 7/7/2014, 14:30 - FENS-1973**
PMCA AND ITS DLG-BASED SCAFFOLD INTERACTION PARTNERS AT THE GLUTAMATERGIC NEUROMUSCULAR JUNCTION OF DROSOPHILA 1891
E. Gerecke, O. Kobler, U. Thomas *(Magdeburg, Germany)*

B053 **MON 7/7/2014, 13:30 - FENS-3110**
REGULATION OF POST-SYNAPTIC FUNCTION BY THE DEMENTIA-RELATED PROTEIN CHMP2B 1892
Y. Goldberg, R. Chassefeyre, J. Martínez-Hernández, F. Bertaso, N. Bouquier, M. Laporte, S. Fraboulet, A. Isaacs, L. Fagni, R. Sadoul *(Grenoble, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B054 **MON 7/7/2014, 14:30 - FENS-0204**

SUPER RESOLUTION IMAGING OF THE POSTSYNAPTIC DENSITY 1893

L. Goodman, C. Soeller, D. Baddeley, J.M. Montgomery *(Auckland, New Zealand)*

B31: SYNAPTIC PLASTICITY - SPIKE-TIMING DEPENDENT PLASTICITY

B055 **MON 7/7/2014, 13:30 - FENS-0464**

NOVEL CANONICAL STDP PARADIGM: T-LTP CAN BE INDUCED BY SIX REPETITIONS OF SINGLE PRE- AND POSTSYNAPTIC SPIKES 1894

E. Cepeda-Prado, V. Leßmann, E. Edelmann *(Magdeburg, Germany)*

B056 **MON 7/7/2014, 14:30 - FENS-3507**

ROLE OF HETEROSYNAPTIC PLASTICITY IN PREVENTING RUNAWAY SYNAPTIC DYNAMICS AND MAINTAINING SYNAPTIC COMPETITION 1895

J. Chen, M. Chistiakova, M. Volgushev, M. Bazhenov *(Riverside, USA)*

B057 **MON 7/7/2014, 13:30 - FENS-3557**

SPIKE TIMING-DEPENDENT LTP AND LTD IN THE HIPPOCAMPUS ARE MEDIATED BY DIFFERENT NMDA RECEPTORS 1896

P. Duque Feria, Y. Andrade Talavera, O. Paulsen, A. Rodríguez Moreno *(Seville, Spain)*

B058 **MON 7/7/2014, 14:30 - FENS-0405**

POSTSYNAPTIC FIRING PATTERN DETERMINES BDNF-DEPENDENCE AND POSTSYNAPTIC EXPRESSION LOCUS OF T-LTP IN CA1 OF THE HIPPOCAMPUS 1897

E. Edelmann, E. Cepeda-Prado, V. Lessmann *(Magdeburg, Germany)*

B059 **MON 7/7/2014, 13:30 - FENS-2656**

INHIBITORY SPIKE-TIMING DEPENDENT PLASTICITY SUPPORTS PRECISE SPIKE TIMING IN A FEEDFORWARD CIRCUIT 1898

F. Kleberg, T. Fukai, M. Gilson *(Wako, Japan)*

B060 **MON 7/7/2014, 14:30 - FENS-2754**

A SIGNALING SCAFFOLD TO REGULATE THE GATING OF SPIKE-TIMING-DEPENDENT LONG-TERM SYNAPTIC POTENTIATION 1899

Y. Liu, L. Cui, O.M. Schlüter *(Göttingen, Germany)*

B061 **MON 7/7/2014, 13:30 - FENS-3461**

ACTIVITY DEPENDENT PRESYNAPTIC RECEPTORS' SENSITIVITY IS ONE OF KEYS FOR SELECTIVITY OF ASSOCIATIVE SYNAPTIC PLASTICITY. 1900

T. Palikhova *(Moscow, Russia)*

B062 **MON 7/7/2014, 14:30 - FENS-3128**

DIFFERENT APPROACHES OF ELECTRICAL STIMULATION TO INDUCE PLASTICITY ASSOCIATED CHANGES IN ACTIVITY PATTERN OF CULTURED NEURAL NETWORK 1901

A. Pimashkin, A. Gladkov, A. Lepina, I. Mukhina, V. Kazantsev *(Nizhny Novgorod, Russia)*

B063 **MON 7/7/2014, 13:30 - FENS-2642**

ACETYLCHOLINE INFLUENCE ON SPIKE-TIMING-DEPENDENT SYNAPTIC PLASTICITY IN A HIPPOCAMPAL CA1 PYRAMIDAL NEURON MICROCIRCUIT: A COMPUTATIONAL MODELING STUDY 1902

A. Saudargiene, V. Cutsuridis *(Kaunas, Lithuania)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B32: SYNAPTIC PLASTICITY - STRUCTURAL PLASTICITY

B064 **MON 7/7/2014, 14:30 - FENS-0072**
VEGFD NEUROPROTECTIVE ACTIVITY AGAINST STROKE-INDUCED DENDRITE PATHOLOGY 1903
D. Mauceri, B. Buchthal, T.J. Hemstedt, H. Bading *(Heidelberg, Germany)*

B065 **MON 7/7/2014, 13:30 - FENS-0605**
PROFILIN ISOFORMS IN THE MOUSE HIPPOCAMPUS AND THEIR ROLE FOR SPINE PLASTICITY 1904
K. Michaelsen-Preusse, S. Zessin, A. Remus, M. Rothkegel, M. Korte *(Braunschweig, Germany)*

B066 **MON 7/7/2014, 14:30 - FENS-2517**
SPINE MORPHOGENESIS AND PLASTICITY: THE ROLE OF THE CAPPING PROTEIN EPS8 1905
R. Morini, S. Zambetti, L. Folladori, A. Canzi, F. Antonucci, D. Braida, M. Sala, M. Matteoli, E. Menna *(Milano, Italy)*

B067 **MON 7/7/2014, 13:30 - FENS-2669**
ARC FUNCTIONAL NEIGHBOURHOOD IN THE NEURONAL CELL NUCLEUS 1906
K. Parobczak, I. Rutkowska-Wlodarczyk, A.A. Szczepankiewicz, T. Kanhema-Jakobsen, A. Szum, M. Schubert, R. Nair, C.R. Bramham, G.M. Wilczynski *(Warsaw, Poland)*

B068 **MON 7/7/2014, 14:30 - FENS-1319**
CORRELATION BETWEEN ENDOPLASMIC RETICULUM DYNAMICS AND SPINE STRUCTURAL PLASTICITY 1907
A. Perez-Alvarez, T.G. Oertner *(Hamburg, Germany)*

B069 **MON 7/7/2014, 13:30 - FENS-0602**
INHIBITION OF MMP-9 CONTROLS DENDRITIC SPINES MATURATION 1908
M. Pyskaty, L. Kaczmarek, J. Wlodarczyk *(Warszawa, Poland)*

B070 **MON 7/7/2014, 14:30 - FENS-2315**
ULTRASTRUCTURAL CHANGES IN HIPPOCAMPAL SYNAPTIC ARCHITECTURE CAUSED BY REDUCED FOOD-INTAKE 1909
B. Rácz, B.R. Babits, B. Szoke, P. Sótonyi *(Budapest, Hungary)*

B071 **MON 7/7/2014, 13:30 - FENS-2807**
SMALL CORTICAL STROKE-INDUCED FUNCTIONAL AND STRUCTURAL PLASTICITY IN THE MOUSE BARREL CORTEX 1910
J. Randall, F. Passaquay, L. Capello, S. Pagès, A. Holtmaat *(Geneva, Switzerland)*

B072 **MON 7/7/2014, 14:30 - FENS-1471**
PREDICTING THE DYNAMICS OF CONNECTIVITY IN THE NEOCORTEX 1911
S. Rumpel, U. Yanover, Y. Loewenstein *(Vienna, Austria)*

B073 **MON 7/7/2014, 13:30 - FENS-3510**
PERSISTENT INTERACTION BETWEEN CAMKII AND TIAM1 CONVERTS TEMPORAL CA2+ CODE INTO PERSISTENT CODE DURING STRUCTURAL PLASTICITY OF DENDRITIC SPINES 1912
T. Saneyoshi, T.S. Saneyoshi, Y.H. Hayashi *(Wako, Japan)*

B074 **MON 7/7/2014, 14:30 - FENS-0373**
THE ACTIN-BINDING PROTEIN CORTACTIN IN PROCESSES OF NEURONAL PLASTICITY AND MEMORY FORMATION 1913
F. Scharkowski, K. Michaelsen-Preusse, C. Rostosky, M. O'Brien, U. Herrmann, K. Rottner, M. Korte *(Braunschweig, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B075 **MON 7/7/2014, 13:30 - FENS-1420**

STRUCTURAL PLASTICITY OF OLM INTERNEURON PRE- AND POSTSYNAPSES OF WILDTYPE AND APPPS1-TRANSGENIC MICE IMAGED IN VIVO OVER SEVEN MONTHS 1914

L. Schmid, S. Kleiber, B. Schmidt, S. Remy, M. Fuhrmann *(Bonn, Germany)*

B076 **MON 7/7/2014, 14:30 - FENS-1057**

THE SEROTONIN RECEPTOR 7 MODULATES NEURONAL AND DENDRITIC SPINES MORPHOLOGY 1915

L. Speranza, D. Viggiano, T. Giuliano, L. Lombardi, M.E. De Stefano, G.C. Bellenchi, M. Crispino, U. Di Porzio, C. Perrone-Capano *(Naples, Italy)*

B077 **MON 7/7/2014, 13:30 - FENS-1816**

LATERAL DIFFUSION IN SPINE NECKS: HOW EASY IS TO ENTER OR TO LEAVE THE SPINE? 1916

L. Wang, M. Renner, A. Triller *(Paris, France)*

B078 **MON 7/7/2014, 14:30 - FENS-0260**

SYNAPTIC PLASTICITY REGULATES NETWORK WIRING 1917

J. Wiegert *(Hamburg, Germany)*

B079 **MON 7/7/2014, 13:30 - FENS-3394**

ALUMINUM AGGREVATES THE REDUCTION OF NEUROGENESIS IN THE DENTATE GYRUS OF MICE FED HIGH-FAT DIET 1918

Y. Yoon, S.M. Nam, J.H. Kim, I.S. Lee, D.Y. Yoo, H.Y. Jung, S.S. Yi *(Seoul, Korea)*

B080 **MON 7/7/2014, 14:30 - FENS-1392**

ROLE OF NOGO-A SIGNALLING IN REGULATING STRUCTURAL PLASTICITY AND ACTIN DYNAMICS AT INDIVIDUAL DENDRITIC SPINES IN CA3 HIPPOCAMPAL NEURONS 1919

M. Zagrebelsky, Y. Kellner, M.E. Schwab, M. Korte *(Braunschweig, Germany)*

B33: INTRINSIC MEMBRANE PROPERTIES

B081 **MON 7/7/2014, 13:30 - FENS-2343**

FUNCTIONAL CHARACTERIZATION OF MEDIUM-SIZED SPINY NEURONS DERIVED FROM HUMAN EMBRYONIC STEM CELLS AND HUMAN FETAL CELLS 1920

E. Cesana, F. Talpo, L. Bina, F. Cobelli, B. Motta, V. Castiglioni, M. Onorati, A. Delli Carri, E. Cattaneo, M. Toselli, G. Biella *(Pavia, Italy)*

B082 **MON 7/7/2014, 14:30 - FENS-3605**

SURPRISING ACTIVITY-DEPENDENT PLASTICITY AT THE AXON INITIAL SEGMENT OF OLFACTORY BULB DOPAMINERGIC INTERNEURONS 1921

A. Chand, E. Galliano, R. Chesters, T. Ryan, M. Grubb *(London, United Kingdom)*

B083 **MON 7/7/2014, 13:30 - FENS-1564**

PACEMAKER NEURONS IN THE MOUSE EMBRYONIC RESPIRATORY NETWORK 1922

M. Chevalier *(Bordeaux, France)*

B084 **MON 7/7/2014, 14:30 - FENS-0501**

MGLUR-I DEPENDENT SWITCHING OF FIRING MODE OF MESENCEPHALIC TRIGEMINAL SENSORY NEURONS 1923

G. Chung, M. Saito, T. Kawano, S. Lee, M. Takada, Y.C. Bae, S.B. Oh, Y. Kang *(Seoul, Korea)*

B085 **MON 7/7/2014, 13:30 - FENS-3038**

THE DYNAMICAL RESPONSE PROPERTIES OF PURKINJE CELLS TO TIME VARYING INPUTS 1924

J. Couto De Oliveira, E. De Schutter, M. Giugliano *(Wilrijk, Belgium)*

13:30 - 15:30 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
B086	**MON 7/7/2014, 14:30 - FENS-2748**	
	MOLECULAR SPECIFICATION OF CORTICAL FAST SPIKING BASKET CELLS	1925
	N. Dehorter, L. Lim, G. Ciceri, I. Del Pino, O. Marin *(Sant Joan d'Alacant, Spain)*	
B087	**MON 7/7/2014, 13:30 - FENS-3586**	
	ELECTROPHYSIOLOGICAL AND MORPHOLOGICAL POSTNATAL DEVELOPMENT OF RAT SUBSTANTIA NIGRA PARS COMPACTA DOPAMINERGIC NEURONS	1926
	M. Dufour, A. Woodhouse, J. Amendola, J.M. Goaillard *(Marseille, France)*	
B088	**MON 7/7/2014, 14:30 - FENS-0893**	
	ACTION POTENTIAL THRESHOLD OF MOTONEURONS DURING FUNCTIONAL SPINAL NEURAL NETWORK ACTIVITY	1927
	R. Grigonis, R. Guzulaitis, A. Alaburda *(Vilnius, Lithuania)*	
B089	**MON 7/7/2014, 13:30 - FENS-0820**	
	PHYSIOLOGY AND ION CHANNEL EXPRESSION OF AXONS OF AMYGDALA PROJECTION NEURONS	1928
	J. Gruendemann, V. Senn, A. Lüthi *(Basel, Switzerland)*	
B090	**MON 7/7/2014, 14:30 - FENS-2683**	
	DIVERGENT INTEGRATION OF SYNCHRONOUS INPUTS BETWEEN DISTAL AND PROXIMAL DENDRITES OF DENTATE GRANULE CELLS.	1929
	T. Kelly, P. Bethge, V.N. Nägerl, H. Beck *(Bonn, Germany)*	
B091	**MON 7/7/2014, 13:30 - FENS-2041**	
	MODULATION OF TONIC FIRING AND INTRACELLULAR CALCIUM DYNAMICS BY KV3 CHANNELS IN THE RAT RETINAL GANGLION CELLS	1930
	K. Kuznetsov, V. Maslov, S. Fedulova, N. Veselovskiy *(Kyiv, Ukraine)*	
B092	**MON 7/7/2014, 14:30 - FENS-1090**	
	CORRELATIONS BETWEEN NEURONAL SPIKE TRAINS EXAMINED UNDER RECREATED FLUCTUATING SYNAPTIC CONDUCTANCE INPUTS	1931
	D. Linaro, M. Giugliano *(Wilrijk, Belgium)*	
B093	**MON 7/7/2014, 13:30 - FENS-2419**	
	EFFECTS OF ALTERED GANGLIOSIDE ENVIRONMENT ON THE EXPRESSION AND LOCALIZATION OF SELECTED MEBRANE PROTEINS IN MAMMALIAN NERVOUS TISSUE	1932
	K. Mlinac, B. Viljetic, N. Jovanov Milosevic, R.L. Schnaar, K.H. Smalla, M. Heffer, S. Kalanj Bognar *(Zagreb, Croatia)*	
B094	**MON 7/7/2014, 14:30 - FENS-0908**	
	INTERNEURON DIVERSITY IN MOUSE PRESUBICULUM	1933
	M. Nassar, J. Simonnet, I. Cohen, R. Miles, D. Fricker *(Paris, France)*	
B095	**MON 7/7/2014, 13:30 - FENS-0843**	
	VARIATIONS IN EARLY LIFE MATERNAL CARE PROGRAM MOLECULAR DETERMINANTS OF HIPPOCAMPAL PLASTICITY AND INTRINSIC EXCITABILITY	1934
	H. Nguyen, T.P. Wong, M.J. Meaney *(Montreal, Canada)*	
B096	**MON 7/7/2014, 14:30 - FENS-0668**	
	BALANCE BETWEEN THE PROXIMAL DENDRITIC COMPARTMENT AND THE SOMA DETERMINES SPONTANEOUS FIRING RATE IN MIDBRAIN DOPAMINE NEURONS	1935
	M. Park, J. Jang *(Suwon, Korea)*	

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B097 **MON 7/7/2014, 13:30 - FENS-0113**

DO THE INTRINSIC PROPERTIES OF MEDIAL ENTORHINAL CORTEX STELLATE CELLS HAVE A MODULAR ORGANIZATION? 1936

H. Pastoll, D.L.F. Garden, M.F. Nolan *(Edinburgh, United Kingdom)*

B098 **MON 7/7/2014, 14:30 - FENS-1556**

A NOVEL SHORT-TERM CALCIUM-DEPENDENT PLASTICITY OF INTRINSIC EXCITABILITY IN THE HIPPOCAMPAL CA1 PYRAMIDAL CELLS 1937

A. Sánchez-Aguilera López, J.L. Sánchez Alonso-Mardones, M.A. Vicente Torres, L. Menéndez de la Prida, A. Colino Matilla *(Madrid, Spain)*

B099 **MON 7/7/2014, 13:30 - FENS-2575**

CHANNEL MECHANISMS OF A HIERARCHY OF TIMESCALES ACROSS THE CEREBRAL CORTEX 1938

B. Staar, A. Bernacchia *(Bremen, Germany)*

C28: ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - APP AND ABETA

C001 **MON 7/7/2014, 13:30 - FENS-1432**

COMPARATIVE STUDY OF BEHAVIORAL AND STRIATUM PARAMETERS IN DOUBLE TRANSGENIC APPSWE/PS1DE9 VERSUS WILD-TYPE MICE 1939

S. Abad Florensa, C. Ramon, J. Camarasa, D. Pubill, A. Camins, E. Escubedo *(Barcelona, Spain)*

C002 **MON 7/7/2014, 14:30 - FENS-3090**

CONDITIONAL ABLATION OF NEURONAL IGF-1R DURING ADULTHOOD IMPROVES AMYLOID PATHOLOGY AND COGNITIVE DEFICITS IN AGED ALZHEIMER MICE 1940

S. Aid, G. Gontier, C. George, M. Holzenberger *(Paris, France)*

C003 **MON 7/7/2014, 13:30 - FENS-2464**

TUDCA ATTENUATES NEUROINFLAMMATION AND AMYLOID PRECURSOR PROTEIN PROCESSING IN APP/PS1 MICE AFTER THE ONSET OF AMYLOID PATHOLOGY 1941

J. Amaral, P.A. Dionisio, M.F. Ribeiro, A.C. Lo, R. D'Hooge, C.M.P. Rodrigues *(Lisbon, Portugal)*

C004 **MON 7/7/2014, 14:30 - FENS-1171**

STRUCTURAL AND FUNCTIONAL PERTURBATIONS OF APOLIPOPROTEIN E4 MUTANT (LEU28PRO) ASSOCIATED WITH INCREASED RISK OF LATE-ONSET ALZHEIMER'S DISEASE 1942

L. Argyri, I. Dafnis, T.A. Theodossiou, D. Gantz, E. Stratikos, A. Chroni *(Agia Paraskevi, Greece)*

C005 **MON 7/7/2014, 13:30 - FENS-2474**

INVOLVEMENT OF MMP-12 IN NEUROVASCULAR DAMAGES, INFLAMMATION AND AMYLOID METABOLISM IN ALZHEIMER'S DISEASE 1943

A. Bonnet, K. Baranger, F. Jabès, E. Lacassagne, Y. Molino, N. Py, A. Bernard, M. Belghazi, Y. Marchalant, S. Lichtenthaler, S. Bregant, S. Tchankouongeutcheu, V. Dive, S. Rivera, M. Khrestchatisky *(Marseille, France)*

C006 **MON 7/7/2014, 14:30 - FENS-1506**

RNA BINDING PROTEINS FMRP AND HNRNPC: NEW TARGETS FOR REGULATING AMYLOID PRECURSOR PROTEIN LEVELS IN ALZHEIMER DISEASE 1944

A. Borreca, M. Ceci, M. Ammassari-Teule *(Rome, Italy)*

C007 **MON 7/7/2014, 13:30 - FENS-2939**

OLIGOMERS OF AMYLOID BETA 1-42 NEGATIVELY REGULATE HIPPOCAMPAL DELTA-CATENIN VIA GSK-3BETA 1945

C. Brown, T. Piers, D. Whitcomb, S.M. Choi, E. Molnar, B.C. Kim, K. Cho *(Bristol, United Kingdom)*

13:30 - 15:30 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
C008	**MON 7/7/2014, 14:30 - FENS-1069** **CHOLESTEROL-DEPENDENT BETA-AMYLOID CHANNEL FORMATION IN NEURAL CELLS AND ITS INHIBITION BY BEXAROTENE** **C. Di Scala**, N. Yahi, N. Garmy, J.D. Troadec, H. Chahinian, J. Fantini *(Marseille, France)*	1946
C009	**MON 7/7/2014, 13:30 - FENS-2084** **THE ROOT OF ALZHEIMER'S DISEASE: AMYLOID-BETA OLIGOMERS IN THE HUMAN BRAIN** **T. Esparza**, D. Brody *(Saint Louis, USA)*	1947
C010	**MON 7/7/2014, 14:30 - FENS-1448** **SUMOYLATION/DESUMOYLATION UNBALANCED IN THE PROGRESSION OF ALZHEIMER'S DISEASE** **M. Feligioni**, C. Ferraina, R. Nisticò *(Rome, Italy)*	1948
C011	**MON 7/7/2014, 13:30 - FENS-1991** **KINETICS AND MORPHOLOGY OF MIXED BETA-OLIGOMERS FROM THE SEEDING OF ABETA PY3-42** **D. Galante**, A. Corsaro, T. Florio, M. Vassalli, A. Perico, C. D'Arrigo *(Genova, Italy)*	1949
C012	**MON 7/7/2014, 14:30 - FENS-0439** **THE ROLE OF THE ENDOCANNABINOID SYSTEM IN BRAIN AGEING AND NEUROINFLAMMATION** **R. Goehrs**, A.C. Schmöle, O. Albayram, A. Bilkei-Gorzo, J. Alferink, A. Zimmer *(Bonn, Germany)*	1950
C013	**MON 7/7/2014, 13:30 - FENS-2057** **ABETA(1-42) OLIGOMERS CAN PROMOTE ADULT HIPPOCAMPAL NEUROGENESIS VIA RAGE/NF-KAPPAB AXIS ACTIVATION** **M. Grilli**, V. Meneghini, M.T. Francese, A. Dellarole, S. Terzieva, V. Bortolotto *(Novara, Italy)*	1951
C014	**MON 7/7/2014, 14:30 - FENS-1606** **AMYLOID-BETA-INDUCED NMDA-RECEPTOR SIGNALLING TO THE NUCLEUS** **K. Grochowska**, J. Bär, M.R. Kreutz *(Magdeburg, Germany)*	1952
C015	**MON 7/7/2014, 13:30 - FENS-2514** **AMYLOID PRECURSOR PROTEIN PROTECTS HIPPOCAMPAL NETWORK FUNCTION AGAINST ACUTE HYPOXIA IN VITRO** **D. Hefter**, S. Weyer, U. Müller, A. Draguhn *(Dossenheim, Germany)*	1953
C016	**MON 7/7/2014, 14:30 - FENS-2402** **INTRAHIPPOCAMPAL ADMINISTRATION OF ABETA(25-35) AND ABETA(1-40) TO RATS IMPAIRS FEAR CONDITIONING AND MODIFIES NGF AND P75 LEVELS IN THE BRAIN** **M. Stepanichev**, A. Ivanov, Y. Moiseeva, N. Lazareva, N. Gulyaeva *(Moscow, Russia)*	1954
C017	**MON 7/7/2014, 13:30 - FENS-2981** **ADULT HIPPOCAMPAL NEUROGENESIS IN RELATION TO AMYLOID BETA DEPOSITS IN ADVANCED AGED APP/V717I TRANSGENIC MICE** **L. Hoeijmakers**, G.F. Meerhoff, F. Van Leuven, P.J. Lucassen, A. Korosi *(Amsterdam, The Netherlands)*	1955
C018	**MON 7/7/2014, 14:30 - FENS-0424** **DIFFERENCE IN NGF AND BDNF OVEREXPRESSION EFFECT ON HIPPOCAMPAL LTP UNDER BETA-AMYLOID INDUCED IMPAIRMENT** **A. Ivanov**, G. Tukhbatova, V. Markevich *(Moscow, Russia)*	1956
C019	**MON 7/7/2014, 13:30 - FENS-0419** **PHYTOCERAMIDE IMPROVES COGNITION IN ALZHEIMER RELATED DEFICITS VIA ANTI-OXIDATIVE AND ANTI-INFLAMMATORY MECHANISMS** **J. Jang**, Y. Seong *(Cheongju, Korea)*	1957

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C020 **MON 7/7/2014, 14:30 - FENS-1703**

INTRACEREBRAL TREATMENT OF HEALTHY RATS WITH AMYLOID-BETA INHIBITS HIPPOCAMPAL LTP AND ALTERS NEURONAL OSCILLATIONS IN VIVO 1958

A. Kalweit, H. Yang, J. Klausnitzer, L. Fülöp, Z. Bozsó, B. Penke, D. Manahan-Vaughan *(Bochum, Germany)*

C021 **MON 7/7/2014, 13:30 - FENS-2763**

CHANGED MEMBRANE INTEGRATION AND CATALYTIC SITE CONFORMATION ARE TWO MECHANISMS BEHIND THE INCREASED ABETA42/ABETA40 RATIO BY PRESENILIN1 FAMILIAL ALZHEIMER-LINKED MUTATIONS 1959

H. Karlström, J. Wanngren, P. Lara, K. Ojemalm, S. Maioli, N. Moradi, L. Chen, L.O. Tjernberg, J. Lundkvist, I.M. Nilsson *(Stockholm, Sweden)*

C022 **MON 7/7/2014, 14:30 - FENS-2701**

CHARACTERIZATION AND MODELING OF PRE-PLAQUE AMYLOID AGGREGATION USING FTIR 1960

O. Klementieva, M. Faideau, K. Willén, A. Engdahl, P. Uvdal, E. Sparr, S. Linse, G.K. Gouras *(Lund, Sweden)*

C023 **MON 7/7/2014, 13:30 - FENS-1796**

REELIN-IMMUNOREACTIVE NEURONS SELECTIVELY ACCUMULATE INTRACELLULAR AMYLOID-BETA DURING PRE-PLAQUE STAGE IN THE MCGILL-R-THY1-APP RAT MODEL OF ALZHEIMER'S DISEASE 1961

A. KobroFlatmoen, A.C. Cuello, M.P. Witter *(Trondheim, Norway)*

C29: ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - IMAGING AND BIOMARKERS

C024 **MON 7/7/2014, 14:30 - FENS-3086**

LONGITUDINAL CHARACTERIZATION OF CVN MOUSE FOR ALZHEIMER'S DISEASE USING BEHAVIORAL, IMAGING AND BIOMARKER END-POINTS 1962

T. Ahtoniemi, N. Vartiainen, T. Heikkinen, J. Oksman, J. Puoliväli, M. Cerrada-Gimenez, K. Lehtimäki, A. Nurmi *(Kuopio, Finland)*

C025 **MON 7/7/2014, 13:30 - FENS-2507**

ALTERATION OF CEREBELLAR FUNCTIONAL CONNECTIVITY IN MILD COGNITIVE IMPAIRMENT AND ALZHEIMER DISEASE PATHOLOGIES 1963

G. Castellazzi, F. Palesi, S. Casali, P. Vitali, E. Sinforiani, C.A.M. Wheeler-Kingshott, E. D'Angelo *(Pavia, Italy)*

C026 **MON 7/7/2014, 14:30 - FENS-2477**

DYRK1A, A NOVEL BIOMARKER FOR ALZHEIMER'S DISEASE IDENTIFIED IN PLASMA (AD) AND LCLS FROM AD AND DS 1964

J. Delabar, N. Janel, M. Bottlaender, F. Corlier, H. Corne, L. Cruz de Souza, F. Lamari, A. Aka, H. Blehaut, V. Hindie, J.C. Rain, M.L. Arbones, J.L. Paul, P. Coskun, I. Lott, J. Busciglio, M.C. Potier, M. Sarazin *(Paris, France)*

C027 **MON 7/7/2014, 13:30 - FENS-2686**

INCREASED LEVELS OF CEREBROSPINAL FLUID JNK3 IN ALZHEIMER'S DISEASE: LINKS TO COGNITIVE DECLINE 1965

S. Gourmaud, F. Mouton-Liger, C. Paquet, J. Dumurgier, C. Pace, C. Bouras, F. Gray, J.L. Laplanche, E. Meurs, J. Hugon *(Paris, France)*

C028 **MON 7/7/2014, 14:30 - FENS-3547**

WHAT DO STRUCTURAL COVARIANCE NETWORKS TELL US ABOUT ALZHEIMER'S DISEASE? 1966

M. Knyazeva, C. Carmeli, E. Fornari, R. Meuli *(Lausanne, Switzerland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C029 **MON 7/7/2014, 13:30 - FENS-2600**

CB2 RECEPTORS AS BIOMARKERS OF NEUROINFLAMMATION IN EARLY ALZHEIMER'S DISEASE 1967

T. Melnikova, D. Lee, E. Cho, N. Sayyida, M. Pomper, A. Horti, A. Savonenko *(Baltimore, USA)*

C030 **MON 7/7/2014, 14:30 - FENS-1949**

MORPHOMETRIC ANALYSIS OF CORTICAL THICKNESS FROM MRI BRAIN IMAGES IN THE AGING MARMOSET MONKEY 1968

M. Mescam, L. Dolius, L. Risser, K. Strelnikov, N. Chauveau, N. Vayssière, F. Aubry, P. Celsis, C. Fonta *(Toulouse, France)*

C031 **MON 7/7/2014, 13:30 - FENS-1091**

UBIQUITIN DETERMINATION IN CEREBROSPINAL FLUID BY MULTIPLE REACTION MONITORING MASS SPECTROMETRY SHOWS DIFFERENCES BETWEEN ALZHEIMER´S DISEASE AND FRONTOTEMPORAL DEMENTIA PATIENTS 1969

P. Ockl, P. Steinacker, C. Von Arnim, S. Straub, E. Feneberg, A.C. Ludolph, M. Otto *(Ulm, Germany)*

C032 **MON 7/7/2014, 14:30 - FENS-1808**

MRI LONGITUDINAL STUDY OF STRUCTURAL CHANGES IN DIFFERENT TRANSGENIC MODELS OF ALZHEIMER'S DISEASE 1970

A. Paladini, E. Micotti, A. Frasca, D. Tolomeo, C. Balducci, S. Dix, C. Czech, J. Richardson, G. Frisoni, G. Forloni *(Milan, Italy)*

C033 **MON 7/7/2014, 13:30 - FENS-3565**

TIME-COURSE OF CORTICAL ACTIVITY ALTERATIONS AND A-BETA DEPOSITION IN TRANSGENIC MOUSE MODELS OF ALZHEIMER'S DISEASE 1971

A. Rodriguez, V. Colavito, J. Mulissa Gemechu, A. Wirtu, J. Richardson, S. Dix, C. Del Percio, C. Babiloni, M. Bentivoglio, G. Bertini *(Verona, Italy)*

C034 **MON 7/7/2014, 14:30 - FENS-0152**

ANALYSIS OF POLYSOMNOGRAPHY VARIABLES ON THE PREDICTION OF CONVERSION FROM MILD COGNITIVE IMPAIRMENT TO ALZHEIMER'S DISEASE 1972

H. Shinno, I. Ishikawa, N. Ando, Y. Nakamura *(Kagawa, Japan)*

C035 **MON 7/7/2014, 13:30 - FENS-1790**

A LONGITUDINAL MRS STUDY IN DIFFERENT TRANSGENIC MODELS OF ALZHEIMER'S DISEASE: STUDYING METABOLIC ALTERATION 1973

D. Tolomeo, E. Micotti, A. Frasca, A. Paladini, C. Balducci, S. Dix, C. Czech, J. Richardson, G. Frisoni, G. Forloni *(Milan, Italy)*

C30: PARKINSON'S DISEASE - ANIMAL MODELS

C036 **MON 7/7/2014, 14:30 - FENS-2268**

COMBINED 1-DNJ AND IBUPROFEN TREATMENT SIGNIFICANTLY DECREASED MICROGLIAL ACTIVATION AND PHAGOCYTOSIS IN MPTP-TREATED MICE 1974

T. Costa, B.C. Berta Claramonte, C.M.R. Carmen María Ros, A.G. Aurora Gomez, N.J.M. NJ Menezes, S.C. S Costa, E.F.V. Emiliano Fernández Villalba, M.T.H.E. Mª Trinidad herrero Ezquerro *(Castellón, Spain)*

C037 **MON 7/7/2014, 13:30 - FENS-0545**

SEROTONERGIC DENERVATION OF THE HIPPOCAMPUS IN THE PDGF-A53T ALPHA-SYNUCLEIN TRANSGENIC MOUSE MODEL FOR PARKINSON'S DISEASE 1975

J. Deusser, S. Ploetz, E. Masliah, J. Winkler, Z. Kohl *(Erlangen, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C038 **MON 7/7/2014, 14:30 - FENS-2804**

INTRANIGRAL VS. INTRASTRIATAL TRANSPLANTATION OF EMBRYONIC VENTRAL MESENCEPHALIC CELLS IN AN ANIMAL MODEL OF PARKINSON'S DISEASE 1976

M. Droguerre, C. Vitrac, M. Benoit-Marand, M. Jaber, A. Gaillard *(Poitiers, France)*

C039 **MON 7/7/2014, 13:30 - FENS-2103**

MOLECULAR GUIDANCE OF DOPAMINERGIC CELLS TRANSPLANTED IN A MOUSE MODEL OF PARKINSON'S DISEASE 1977

J. Kalaani, J. Roche, E. Hamade, B. Badran, M. Jaber, A. Gaillard, L. Prestoz *(Poitiers, France)*

C040 **MON 7/7/2014, 14:30 - FENS-0941**

CATECHOLAMINE INNERVATION OF THE HIPPOCAMPUS AND THE RELEVANCE TO ADULT NEUROGENESIS AND DEMENTIA IN PARKINSON'S DISEASE 1978

C. Ermine, J. Wright, C. Parish, L. Thompson *(Parkville, Australia)*

C041 **MON 7/7/2014, 13:30 - FENS-0299**

THE ROLE OF GLUN2A SUBUNIT ON THE LEVODOPA-INDUCED DYSKINESIAS AND ITS POTENTIAL THERAPEUTIC ROLE 1979

L.F. Hernandez, F. Gardoni, E. Iglesias, E.C. Hirsch, M. DiLuca, J.A. Obeso *(Pamplona, Spain)*

C042 **MON 7/7/2014, 14:30 - FENS-3670**

EFFECT OF SEROTONIN TRANSPORTER BLOCKADE ON L-DOPA-INDUCED DYSKINESIA IN A RAT MODEL OF PARKINSON´S DISEASE 1980

C. Fidalgo, E. Tronci, R. Stancampiano, M. Carta *(Cagliari, Italy)*

C043 **MON 7/7/2014, 13:30 - FENS-1707**

BENEFICIAL EFFECTS OF NEUROPEPTIDE S IN 6-OHDA-INDUCED MOTOR DEFICITS IN MICE 1981

E. Gavioli, J.J. Didonet, J.C. Cavalcante, M.S.M.O. Costa, V.P. Soares-Rachetti, R. Guerrini, G. Calo´ *(Natal, Brazil)*

C044 **MON 7/7/2014, 14:30 - FENS-1535**

ACUTE THETA-BURST STIMULATION RESCUES CORTICOSTRIATAL LONG-TERM DEPRESSION AND MOTOR BEHAVIOR IN PARKINSONIAN RATS 1982

V. Ghiglieri, F. Cacace, V. Pendolino, B. Picconi, P. Calabresi *(Rome, Italy)*

C045 **MON 7/7/2014, 13:30 - FENS-3459**

MODULATING EFFECTS OF INDOMETHACIN ON NEUROGENESIS IN THE 1-METHYL-4-PHENYL-1,2,3,6-TETRAHYDROPYRIDIN MOUSE MODEL 1983

E. Hain, M. Sparenberg, C. Klein, L. Akyuez, J. Millward, A. Meisel, C. Infante Duarte, B. Steiner *(Berlin, Germany)*

C046 **MON 7/7/2014, 14:30 - FENS-3188**

NEUROPROTECTIVE EFFECT OF EARLY POSTNATAL ENVIRONMENTAL ENRICHMENT IN A RAT MODEL OF PARKINSON'S DISEASE 1984

G. Horvath, A. Jungling, Z.N. Karadi, C.D. Farkas, G. Novogradecz, A. Kovacs, P. Kiss, B. Gaszner, D. Reglodi, A. Tamas *(Pecs, Hungary)*

C047 **MON 7/7/2014, 13:30 - FENS-0538**

SENSORY INTEGRATION IN THE DOPAMINE-DEPLETED STRIATUM 1985

M. Ketzef, A. Bonito-Oliva, G. Fisone, G. Silberberg *(Stockholm, Sweden)*

C048 **MON 7/7/2014, 14:30 - FENS-1672**

PARKINSON'S DISEASE LIKE NEURONAL DEGENERATION IN MOUSE METHAMPHETAMINE MODEL: A DIFFUSION TENSOR IMAGING STUDY 1986

A. Khairnar, J. Kucerova, P. Latta, E. Drazanova, Z. Starcuk, A. Arab, I. Rektorova *(Brno, Czech Republic)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C049 **MON 7/7/2014, 13:30 - FENS-1153**

ACTIVATION-INDUCED MANGANESE-ENHANCED MRI CAN EVALUATE THE PATHOLOGICAL STATE OF THE PARKINSONISM 1987

S. Kikuta, Y. Nakamura, Y. Yamamura, Y. Yanagawa, N. Homma, J. Kasahara, M. Osanai *(Sendai, Japan)*

C050 **MON 7/7/2014, 14:30 - FENS-0665**

AN INCREASE IN THE ENDOGENOUS GDNF EXPRESSION FUNCTIONALLY ENHANCES AND PROTECTS THE NIGROSTRIATAL DOPAMINERGIC SYSTEM 1988

J. Kopra, J.O. Andressoo, C. Vilenius, J. Mijatovic, P. Mashall, N. Nevalainen, V. Võikar, I. Strömberg, T.P. Piepponen, M. Saarma *(Helsingki x, Finland)*

C051 **MON 7/7/2014, 13:30 - FENS-1486**

MODULATION OF MICROGLIA CYTOKINES BY PPAR-GAMMA AGONIST IN THE MPTPP MODEL OF PARKINSON DISEASE 1989

D. Lecca, A. Pisanu, G. Mulas, A.R. Carta *(Cagliari, Italy)*

C052 **MON 7/7/2014, 14:30 - FENS-1082**

EFFECTS OF DOPAMINE RECEPTOR AGONISTS ON EXPRESSION OF PROTEINS INVOLVED IN NITRERGIC SIGNALING IN BRAIN DOPAMINERGIC STRUCTURES OF 6-OHDA-LESIONED RATS 1990

T. Lenda, A. Czarnecka, K. Kaminska, J. Konieczny, E. Lorenc-Koci *(Kraków, Poland)*

C053 **MON 7/7/2014, 13:30 - FENS-1065**

NO DONOR AND L-DOPA AFFECT EXPRESSION OF PROTEINS INVOLVED IN THE NITRERGIC SIGNALING IN BRAIN DOPAMINERGIC STRUCTURES OF 6-OHDA-LESIONED RATS 1991

E. Lorenc-Koci, A. Czarnecka, T. Lenda, K. Kaminska, J. Konieczny *(Krakow, Poland)*

C054 **MON 7/7/2014, 14:30 - FENS-1327**

LEVODOPA CHRONIC TREATMENT PROMOTES REINFORCING PROPERTIES OF PRAMIPEXOLE IN ALPHA-SYNUCLEIN RAT MODEL OF PARKINSON'S DISEASE 1992

S. Loiodice, A. Hafidi, F. Durif *(Clermont Ferrand, France)*

C055 **MON 7/7/2014, 13:30 - FENS-3543**

THE RESTORATIVE EFFECT OF INTRAMUSCULAR INJECTION OF TETANUS TOXIN C-FRAGMENT IN HEMIPARKINSONIAN RATS 1993

L. Mendieta, A. Sánchez-González, A. Candalija, J. Aguilera, R. Moratalla, I.D. Limón *(Madrid, Spain)*

C056 **MON 7/7/2014, 14:30 - FENS-0613**

NITRITE ADMINISTRATION AMELIORATES MITOCHONDRIAL BIOENERGETICS AND IS NEUROPROTECTIVE IN CELLULAR AND VERTEBRATE MODELS OF PARKINSON'S DISEASE 1994

C. Milanese, S. Sepe, M.T. Gladwin, S. Shiva, P.G. Mastroberardino *(Rotterdam, The Netherlands)*

C057 **MON 7/7/2014, 13:30 - FENS-3318**

RESEMBLANCE OF CLINICAL METABOLIC CHANGES USING PET IMAGING IN A PROGRESSIVE MPTP PRIMATE MODEL OF PARKINSON´S DISEASE 1995

F. Molinet Dronda, E. Iglesias, J. Blesa, C. Juri, M. Collantes, E. Prieto, I. Peñuelas, J.A. Obeso *(Pamplona, Spain)*

C058 **MON 7/7/2014, 14:30 - FENS-3671**

COLONIC INFLAMMATION, NEUROINFLAMMATION AND BEHAVIOURAL ABNORMALITIES IN MICE INDUCED BY CHRONIC ROTENONE ADMINISTRATION 1996

L. Morais, D. Hara, M. Bicca, A. Poli, R. Takahashi *(Cork, Brazil)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C059 **MON 7/7/2014, 13:30 - FENS-1837**

THE NEUROSTEROIDS BNN-50 AND THE BNN-50/N-ACETYLCYSTEINE COMBINATION EXERT ANTIAPOPTOTIC ACTIVITY, PROTECTING THE NIGROSTRIATAL DOPAMINERGIC NEURONS OF THE "WEAVER" MOUSE 1997

T. Mourtiz, V. Panagiotakopoulou, K. Botsakis, N. Panagopoulos, F. Angelatou, I. Charalampopoulos, A. Gravanis, N. Matsokis *(Patras (Rio)*, Greece*)*

C060 **MON 7/7/2014, 14:30 - FENS-1646**

A CONSERVED ROLE FOR P48 HOMOLOGS IN PROTECTION OF DOPAMINERGIC NEURONS FROM OXIDATIVE STRESS 1998

E. Nagoshi, P. Bou Dib, B. Gnägi, F. Daly, V. Sabado, P. Meister *(Geneva, Switzerland)*

C061 **MON 7/7/2014, 13:30 - FENS-1537**

ALPHA-SYNUCLEIN A53T MICE PRESENT WITH PROGRESSIVE MOTOR DECLINE 1999

J. Neddens, D. Amschl, D. Havas, H. Römer, E. Masliah, B. Hutter-Paier *(Grambach, Austria)*

C31: EPILEPSY - HUMAN STUDIES

C062 **MON 7/7/2014, 14:30 - FENS-1660**

LAGGED SYNCHRONIZATION OF SOURCE EEG SHOWS FUNCTIONAL DISCONNECTION IN PATIENTS WITH PSYCHOGENIC NON-EPILEPTIC SEIZURES 2000

E. Barzegaran, C. Carmeli, A.O. Rossetti, M.G. Knyazeva *(Lausanne, Switzerland)*

C063 **MON 7/7/2014, 13:30 - FENS-1843**

DEVELOPMENT OF RELIABLE IPSC-BASED METHODS FOR IN VITRO MODELLING OF DRAVET SYNDROME AND OTHER NAV1.1-RELATED DISEASES WITH HUMAN NEURONS 2001

G. Bechi, E. Fusar Poli, C. Verpelli, L. Carlessi, C. Sala, D. Delia, M. Mantegazza *(Milano, Italy)*

C064 **MON 7/7/2014, 14:30 - FENS-2241**

GENERALIZED SPIKE-AND-WAVE DISCHARGES OFFSET IS RELATED TO PRECUNEAL/POSTERIOR CINGULATE ACTIVITY 2002

F. Benuzzi, D. Ballotta, M. Zucchelli, E. Ferrari, A. Ruggieri, L. Mirandola, A.E. Vaudano, P.F. Nichelli, S. Meletti *(Baggiovara, Modena, Italy)*

C065 **MON 7/7/2014, 13:30 - FENS-0604**

VOLTAGE-GATED CALCIUM CHANNELS AND EPILEPSY: MECHANISM AND GENETIC LINKAGE STUDY IN EPILEPTIC PATIENTS 2003

M. Daghsni, R. M'rad *(Hammam-Lif, Tunisia)*

C066 **MON 7/7/2014, 14:30 - FENS-3411**

CHANCE PROJECT: IDENTIFICATION AND CHARACTERIZATION OF NOVEL HCN ION CHANNEL MUTATIONS IN IDIOPATHIC EPILEPSY 2004

J. DiFrancesco, A. Barbuti, R. Milanesi, L. Canafoglia, S. Franceschetti, C. Ferrarese, D. DiFrancesco *(Monza, Italy)*

C067 **MON 7/7/2014, 13:30 - FENS-1764**

CHARACTERISATION OF TEMPORAL LOBE EPILEPSY BIOMARKERS IN HUMAN SCLEROTIC HIPPOCAMPI 2005

A. Princivalle *(Sheffield, United Kingdom)*

C068 **MON 7/7/2014, 14:30 - FENS-2819**

RAISED LEVELS OF NITRIC OXIDE METABOLITES IN CEREBROSPINAL FLUID OF PATIENTS AFTER REPETITIVE GENERALISED TONIC-CLONIC SEIZURES 2006

K. Rejdak, M. Godek, P. Grieb *(Lublin, Poland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C069 **MON 7/7/2014, 13:30 - FENS-2285**

INTRACRANIAL ELECTRICAL STIMULATION OF ANTERIOR MESIAL FRONTAL CORTEX EVOKES K-COMPLEX-LIKE PHENOMENA IN HUMANS WITH FOCAL EPILEPSY 2007

Z. Voysey, G. Alarcon, R. Selway, A. Valentin *(London, United Kingdom)*

C32: DEMYELINATING DISORDERS

C070 **MON 7/7/2014, 14:30 - FENS-2715**

MOLECULAR AND CELLULAR MECHANISMS IN ASTROCYTE-T CELL CROSS-TALK 2008

F. Filipello, D. Pozzi, M. Proietti, M. Matteoli, C. Verderio, F. Grassi *(Milano, Italy)*

C071 **MON 7/7/2014, 13:30 - FENS-2085**

EXPERIMENTAL MULTIPLE SCLEROSIS CAUSES MOOD ALTERATIONS BY INTERACTING WITH THE DOPAMINERGIC SYSTEM 2009

A. Gentile, D. Fresegna, A. Musella, S. Bullitta, H. Sepman, F. De Vito, F.R. Rizzo, M. Federici, G. Mandolesi, D. Centonze *(Marino, Italy)*

C072 **MON 7/7/2014, 14:30 - FENS-1893**

OLIGODENDROCYTE PRECURSOR CELLS ARE INVOLVED IN NEUROVASCULAR UNIT REMODELLING DURING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS BY NG2 PROTEOGLYCAN 2010

F. Girolamo, G. Ferrara, S. Morando, M. Rizzi, C. Coppola, A. Uccelli, L. Roncali, D. Virgintino *(Bari, Italy)*

C073 **MON 7/7/2014, 13:30 - FENS-0200**

TAM SIGNALLING ACTIVATES PATHWAYS FOR PROMOTION OF OPTIC NERVE GLIAL CELL DEVELOPMENT 2011

S. Goudarzi, A.M. Butt, S. Hafizi *(Portsmouth, United Kingdom)*

C074 **MON 7/7/2014, 14:30 - FENS-3177**

TRANSCRIPTIONAL REGULATION OF BRAIN DERIVED NEUROTROPHIC FACTOR BY METHYL CPG BINDING PROTEIN 2: IMPLICATIONS IN MYELIN REPAIR IN MULTIPLE SCLEROSIS 2012

T. Khorshid Ahmad, C.M.R. Acosta, C. Cortes, K. Altaweel, K. Ethans, M. Rastegar, M.P. Namaka *(Winnipeg, Canada)*

C075 **MON 7/7/2014, 13:30 - FENS-3680**

LXRS AND OXYSTEROLS IN CNS/PNS RE/MYELINATION PROCESSES MODULATION 2013

J. Grenier, D. Meffre, G. Shackleford, J. Makoukji, C. Massaad *(Paris, France)*

C076 **MON 7/7/2014, 14:30 - FENS-0220**

POTASSIUM CHANNELS OF THE TASK FAMILY ARE IMPORTANT REGULATORS OF OLIGODENDROGLIAL CELL FUNCTIONS 2014

S. Korr, P. Ehling, S. Albrecht, C. Kemming, F. Stortz, S.G. Meuth, T. Kuhlmann *(Muenster, Germany)*

C077 **MON 7/7/2014, 13:30 - FENS-2541**

BENEFICIAL EFFECT OF STAPHYLOCOCCUS AUREUS IN A MODEL OF MULTIPLE SCLEROSIS IS MEDIATED THROUGH THE SECRETION OF EXTRACELLULAR ADHERENCE PROTEIN 2015

P. Kumar, B. Kretzschmar, S. Herold, R. Nau, M. Kreutzfeldt, S. Schütze, M. Baehr, K. Hein *(Göttingen, Germany)*

C078 **MON 7/7/2014, 14:30 - FENS-0032**

EXCITOTOXIC NEURONAL CELL DEATH DURING AN OLIGODENDROCYTE-DIRECTED CD8+ T CELL ATTACK IN THE CNS GRAY MATTER 2016

N. Melzer, G. Hicking, S. Bittner, N. Bobak, K. Goebel, A.M. Herrmann, H. Wiendl, S.G. Meuth *(Muenster, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C079 **MON 7/7/2014, 13:30 - FENS-3426**

NEUROACTIVE STEROIDS AND MYELIN LIPID PROFILE: A NEW PATHWAY TO EXERT PROTECTIVE EFFECTS ON DIABETES PERIPHERAL NEUROPATHY 2017

N. Mitro, G. Cermenati, F. Abbiati, M. Audano, S. Giatti, M. Crestani, E. De Fabiani, I. Azcoitia, L.M. Garcia-Segura, R.C. Melcangi, D. Caruso *(Milano, Italy)*

C080 **MON 7/7/2014, 14:30 - FENS-3217**

INVOLVEMENT OF CALCITONIN GENE-RELATED PEPTIDE AND RECEPTOR COMPONENT PROTEIN IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS 2018

S. Morara, A. Finardi, F. Ruffini, I.M. Dickerson, M. Righi, D. Zacchetti, F. Grohovaz, L. Provini, R. Furlan, C. Sardi *(Milano, Italy)*

C081 **MON 7/7/2014, 13:30 - FENS-2856**

HIPPOCAMPAL LTP AND SPATIAL LEARNING, BUT NOT LTD AND RECOGNITION MEMORY, IS ALTERED IN AN ANIMAL MODEL OF MULTIPLE SCLEROSIS 2019

T. Novkovic, R.G. Gold, D.M.V. Manahan-Vaughan *(Bochum, Germany)*

C082 **MON 7/7/2014, 14:30 - FENS-0158**

S1PR-TLR4 SIGNALLING IN ASTROCYTES AND THEIR ROLE IN PRO-INFLAMMATORY CHEMOKINE RELEASE 2020

S. O`Sullivan, L.M. Healy, T. Connor, K.K. Dev *(Dublin 2, Ireland)*

C083 **MON 7/7/2014, 13:30 - FENS-2048**

PRESYNAPTIC DEFECTS AND CCL5-GLUTAMATE INTERACTION IN EAE MICE 2021

A. Pittaluga, S. Di Prisco, E. Merega, D. Graglia, S. Casazza, A. Uccelli *(Genova, Italy)*

C084 **MON 7/7/2014, 14:30 - FENS-1753**

PROGRESSION OF MOTOR AXON FUNCTION IMPAIRMENT IN MICE HETEROZYGOUSLY DEFICIENT FOR THE MYELIN PROTEIN P0 GENE 2022

M. Rosberg, S. Alvarez, M. Moldovan, C. Krarup *(Copenhagen, Denmark)*

C085 **MON 7/7/2014, 13:30 - FENS-0157**

EBI2 REGULATES INTRACELLULAR SIGNALLING AND MIGRATION IN HUMAN ASTROCYTES 2023

A. Rutkowska, I. Preuss, A.W. Sailer, K.K. Dev *(Dublin, Ireland)*

C086 **MON 7/7/2014, 14:30 - FENS-2275**

UP-REGULATION OF THE WNT SIGNALLING PATHWAY IN THE HIPPOCAMPUS OF MICE WITH EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS 2024

R. Schneider, B. Koop, F. Schroeter, J. Ingwersen, H.P. Hartung, O. Aktas, T. Prozorovski *(Duesseldorf, Germany)*

C087 **MON 7/7/2014, 13:30 - FENS-1419**

A P2X7 ANTAGONIST IMPROVES MUSCLE STRENGTH AND MOTOR DISTAL AMPLITUDE IN CMT1A RATS: PRELIMINARY RESULTS FROM AN IN VIVO TRIAL 2025

G. Sociali, T. Prukop, I. Cervellini, L. Nobbio, S. Bruzzone, A. Schenone, M.W. Sereda *(Genoa, Italy)*

C088 **MON 7/7/2014, 14:30 - FENS-0353**

EFFECTS OF NEUROPROTECTOR AND ANTIOXIDANT OF EXTREMELY LOW-FREQUENCY ELECTROMAGNETIC FIELDS IN A MULTIPLE SCLEROSIS DISEASE-LIKE RAT MODEL 2026

I. Túnez-Fiñana, E. Agüera, F. Sánchez-López, E. Luque, A.I. Giraldo, R. Drucker-Colín, F.J. Medina *(Córdoba, Spain)*

C089 **MON 7/7/2014, 13:30 - FENS-1309**

IN ACUTE EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS, INVADING MACROPHAGES ARE IMMUNE ACTIVATED WHEREAS MICROGLIA REMAIN IMMUNE SUPPRESSED 2027

J. Vinet, I.D. Vainchtein, N. Brouwer, S. Brendecke, G. Biagini, K. Biber, H.W.G.M. Boddeke, B.J.L. Eggen *(Modena, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C090 **MON 7/7/2014, 14:30 - FENS-0030**
INTERACTION OF INTERFERONBETA-1B AND CXCR4 ON T CELLS IN MULTIPLE SCLEROSIS 2028
T. Wostradowski, S. Lindquist, V. Gudi, J.A. Lindquist, M. Stangel *(Hannover, Germany)*

C091 **MON 7/7/2014, 13:30 - FENS-0234**
CNS MYELIN AND AXON MORPHOLOGY IN DEMYELINATION AND DYSMYELINATION IN MOUSE MODELS 2029
S. Yoshida, Y. Bando *(Asahikawa, Hokkaido, Japan)*

C33: NEUROTOXICITY, INFLAMMATION, AND NEUROPROTECTION

C092 **MON 7/7/2014, 14:30 - FENS-0513**
EPITHELIAL CELL TRANSFORMING SEQUENCE 2 ONCOGENE (ECT2) REGULATES MICROGLIAL ACTIVATION 2030
Y. Ooi, S. Dheen, S. Tay *(Singapore, Singapore)*

C093 **MON 7/7/2014, 13:30 - FENS-3686**
IN VIVO STUDY COMPARING THE NEUROINFLAMMATORY RESPONSE AFTER INTRACEREBRAL PGLA OR SILK FIBROIN MICRO AND NANOPARTICLES 2031
V. Ortiz Cullera, A. Lozano Pérez, C.M. Ros Gómez, A. Gómez, J.L. Cenis, M.T. Herrero *(Murcia, Spain)*

C094 **MON 7/7/2014, 14:30 - FENS-0746**
DOXYCYCLINE REDUCES THE INFLAMMATORY RESPONSE OF LPS-TREATED MICROGLIAL CELLS 2032
M.O. Ouidja, F. Santa Cecilia, B. Socias, E. DelBel, P.P. Michel, R. Raisman-Vozari *(Paris, France)*

C095 **MON 7/7/2014, 13:30 - FENS-1932**
NEUROTOXIC EFFECTS OF OCHRATOXIN-A ONTO THE SUBVENTRICULAR ZONE OF ADULT MOUSE BRAIN 2033
S. Paradells Navarro, C. LLinares, I. Zipancic, R. Tonino, M. Jiménez, J.M. Soria, A. García Esparza *(Valencia, Spain)*

C096 **MON 7/7/2014, 14:30 - FENS-2328**
MOLECULAR MECHANISMS INVOLVED IN MICROGLIAL-MEDIATED CEREBELLAR GRANULE CELLS INDUCED BY 90-231 PRION FRAGMENT 2034
F. Pellistri, E. Gatta, S. Thellung, T. Florio, M. Robello *(Genoa, Italy)*

C097 **MON 7/7/2014, 13:30 - FENS-2317**
CHARACTERISTICS OF THE UPTAKE OF IRON OXIDE NANOPARTICLES BY CULTURED CEREBELLAR GRANULE NEURONS 2035
C. Petters *(Bremen, Germany)*

C098 **MON 7/7/2014, 14:30 - FENS-2836**
CHF5074, IN CLINICAL DEVELOPMENT FOR THE TREATMENT OF ALZHEIMER'S DISEASE, INDUCES PHAGOCYTIC/ANTI-INFLAMMATORY 'ALTERNATIVE ACTIVATION' OF MICROGLIA IN PLAQUE-FREE TG2576 MICE 2036
V. Porrini, C. Branca, A. Lanzillotta, M. Benarese, B.P. Imbimbo, M. Pizzi *(Brescia, Italy)*

C099 **MON 7/7/2014, 13:30 - FENS-3255**
TARGETED PLGA NANOCARRIERS FOR BRAIN DRUG DELIVERY 2037
C. Portioli, M. Bovi, H.L. Monaco, M. Donini, S. Dusi, M. Bentivoglio *(Verona, Italy)*

C100 **MON 7/7/2014, 14:30 - FENS-2985**
NEUROINFLAMMATION ENHANCES AUTOPHAGY IN THE BRAIN 2038
Y. Qin, Y. Liu, C. Liu, K. Fassbender *(Homburg, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C101 **MON 7/7/2014, 13:30 - FENS-3109**
CHARACTERIZATION OF A SWELLING-INDUCED CURRENT IN MURINE MICROGLIA 2039
D. Ragozzino, E. Murana, F. Pagani, M. Sundukova, L. Batti, S. Di Angelantonio, C. Limatola, P. Heppenstall *(Rome, Italy)*

C102 **MON 7/7/2014, 14:30 - FENS-2739**
MULTIPLE-IMMUNE CHALLENGES IN ADULTHOOD PROTECT FROM AD-RELATED PATHOLOGICAL CHANGES 2040
L. Rambousek, D. Krstic, S. Muenzing, I. Knuesel *(Zurich, Switzerland)*

C103 **MON 7/7/2014, 13:30 - FENS-3644**
CLINICORADIOLOGICAL PROFILE OF OPPORTUNISTIC INFECTIONS OF THE CENTRAL NERVOUS SYSTEM AMONG HIV POSITIVE PATIENTS 2041
K. Reddy, B.P. Achappa, S.K. Pandey *(Mangalore, India)*

C104 **MON 7/7/2014, 14:30 - FENS-3356**
INVESTIGATION OF PACAP FRAGMENTS AND RELATED PEPTIDES IN CHRONIC RETINAL HYPOPERFUSION 2042
D. Reglödi, D. Werling, P. Kiss, G. Toth, K. Szabadfi, A. Tamas, Z.S. Biro, T. Atlasz *(Pécs, Hungary)*

C105 **MON 7/7/2014, 13:30 - FENS-0634**
RESVERATROL PREVENTS 6-HYDROXYDOPAMINE-INDUCED APOPTOSIS BY INTERFERING WITH NUR77 NUCLEAR TO CYTOPLASMIC TRANSLOCATION IN PC12 CELLS 2043
J. Renaud, M.B. Plourde, C. Tremblay, M.G. Martinoli *(Trois-Rivières, Canada)*

C106 **MON 7/7/2014, 14:30 - FENS-1883**
PARP-1 ACTIVATION CAUSES CA1 PYRAMIDAL CELL DEATH IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES 2044
F. Resta, E. Gerace, A. Masi, R. Felici, E. Landucci, T. Mello, D.E. Pellegrini-Giampietro, G. Mannaioni, F. Moroni *(Florence, Italy)*

C107 **MON 7/7/2014, 13:30 - FENS-3050**
NEURONAL P2Y1 RECEPTORS ARE REQUIRED FOR NMDAR-INDUCED, CALPAIN-MEDIATED SYNAPTIC LOSS AND NEURONAL DEATH 2045
R. Rodrigues, A.P. Simoes, C.G. Silva, D. Pochmann, J.M. Marques, J.P. Oses, R.O. Beleza, R.A. Cunha *(Coimbra, Portugal)*

C108 **MON 7/7/2014, 14:30 - FENS-2881**
MICROGLIA PROINFLAMMATORY RESPONSE INDUCES A GLUCOSE METABOLISM REPROGRAMMING WITH LACTATE DELIVERY 2046
M.J. Rodriguez-Allue, J. Gimeno-Bayon, A. Lopez-Lopez, N. Mahy *(Barcelona, Spain)*

C109 **MON 7/7/2014, 13:30 - FENS-0972**
ANTI-INFLAMMATORY PROPERTIES OF A TESTOSTERONE METABOLITE IN AN EXPERIMENTAL MODEL OF MULTIPLE SCLEROSIS 2047
S. Romano, S. Giatti, R. Rigolio, B. Viviani, G. Cavaletti, L.M. Garcia-Segura, R.C. Melcangi *(Milano, Italy)*

C110 **MON 7/7/2014, 14:30 - FENS-2537**
PARP: A COMMON THERAPEUTIC TARGET IN CANCER AND RETINAL DEGENERATION? 2048
A. Sahaboglu Tekgöz, M. Kulkarni, F. Paquet-Durand *(Tuebingen, Germany)*

C111 **MON 7/7/2014, 13:30 - FENS-3422**
NANOPARTICLES FUNCTIONAL NEUROTOXICITY VS CYTOTOXICITY 2049
B. Salvetti, L. Ronconi, M. Pellitteri, S. Becchi, F. Schio, L. Perbellini, M. Cerpelloni, F. Merigo, D. Benati, F. Osculati, G. Bertini, P. Fabene *(Verona, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C112 **MON 7/7/2014, 14:30 - FENS-3383**
MICROGLIA TRIGGER ASTROCYTES-MEDIATED NEUROPROTECTION VIA PURINERGIC GLIOTRANSMISSION 2050
Y. Shinozaki, M. Nomura, K. Iwatsuki, Y. Moriyama, C. Gachet, S. Koizumi *(Yamanashi, Japan)*

C113 **MON 7/7/2014, 13:30 - FENS-0491**
SUB-LETHAL EXPOSURE TO CHLORPYRIFOS AND CHLORPYRIFOS OXON INDUCES NEURITE RETRACTION AND NEUROFILAMENT DISRUPTION IN DIFFERENTIATING MOUSE N2A NEUROBLASTOMA CELLS 2051
R. Sindi, W. Harris, G. Arnott, C. Lloyd Mills, A. Hargreaves *(Nottingham, United Kingdom)*

C114 **MON 7/7/2014, 14:30 - FENS-1027**
PREDEGENERATED SCHWANN CELLS PROLONGE SURVIVAL OF RETINAL GANGLION CELLS IN RAT MODEL OF GLAUCOMA 2052
A. Smedowski, M. Pietrucha-Dutczak, K. Kaarniranta, J. Lewin-Kowalik *(Katowice, Poland)*

C115 **MON 7/7/2014, 13:30 - FENS-2990**
ASSESING A1 RECEPTOR EXPRESSION CHANGES IN THE RETINA THROUGHOUT CONTINUOUS ILLUMINATION 2053
M. Soliño, E.M. López, M. Vaccoto, E. Girardi, J.J. López-Costa *(Buenos Aires, Argentina)*

C116 **MON 7/7/2014, 14:30 - FENS-3596**
METHYLPHENIDATE USE IN TRAUMATIC BRAIN INJURY PATIENTS AND ECG MONITORING 2054
N. Stoicea, S. Bergese, T. Wilson, K. Moran, W. Ackermann, A. Gusti, E. Quevedo, S. Soghomonyan, J. Rosenthal *(Columbus, USA)*

C117 **MON 7/7/2014, 13:30 - FENS-1657**
SYSTEMIC INFLAMMATION IS ASSOCIATED WITH A REDUCTION IN SYNAPTOPODIN EXPRESSION IN MOUSE HIPPOCAMPUS 2055
A. Strehl, M. Lenz, Z. Itsekson, D. Becker, J. Chapman, T. Deller, N. Maggio, A. Vlachos *(Frankfurt, Germany)*

C118 **MON 7/7/2014, 14:30 - FENS-3242**
PIVOTAL ROLE OF ACETYL-COA IN DIFFERENTIAL SUSCEPTIBILITY OF CHOLINERGIC NEURONAL AND MICROGLIAL CELLS TO COMMON NEUROTOXIC SIGNALS 2056
A. Szutowicz, H. Bielarczyk, A. Ronowska, S. Gul-Hinc, J. Klimaszewska-Lata, A. Dys *(Gdansk, Poland)*

C119 **MON 7/7/2014, 13:30 - FENS-1165**
NEURAL PROGENITOR CELLS IMPLANTED IN THE LESIONED BRAIN FORM GAP JUNCTIONS WITH HOST GLIAL CELLS 2057
R. Talaverón, A.M. Pastor, R.R. De la Cruz, E.R. Matarredona *(Seville, Spain)*

C120 **MON 7/7/2014, 14:30 - FENS-3293**
SLEEP AND INFLUENZA A VIRAL INFECTIONS IN MURINE MODELS 2058
C. Tesoriero, A. Codita, V. Colavito, M.D. Zhang, G. Grassi-Zucconi, H. Karlsson, T. Hökfelt, M. Bentivoglio, K. Kristensson *(Verona, Italy)*

C121 **MON 7/7/2014, 13:30 - FENS-2098**
USAGE OF PROGESTERONE IN RETINITIS PIGMENTOSA 2059
L. Trachsel Moncho, S. Benlloch Navarro, D.T. Lamelas, I. Almansa, M. Miranda *(Moncada, Spain)*

C122 **MON 7/7/2014, 14:30 - FENS-0440**
THE IMPACT OF ANTIDEPRESSANT DRUGS ON THE ACTIVITY OF PRIMARY CORTICAL ASTROCYTES 2060
E. Trojan, J. Slusarczyk, K. Glombik, E. Szczesny, A. Kurek, M. Leskiewicz, B. Budziszewska, A. Basta-Kaim *(Krakow, Poland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C34: MENTAL DISORDERS - ADDICTION AND DRUGS OF ABUSE

C123 **MON 7/7/2014, 13:30 - FENS-2712**

DOPAMINE RESPONSIVENESS IN THE NUCLEUS ACCUMBENS SHELL AND CORE DURING ETHANOL AND SUCROSE SELF-ADMINISTRATION 2061

F. Cucca, V. Bassareo, R. Frau, G. Di Chiara *(Cagliari, Italy)*

C124 **MON 7/7/2014, 14:30 - FENS-0326**

ADOLESCENT TOLUENE INHALATION DYNAMICALLY ALTERS DNA METHYLATION IN RAT PREFRONTAL CORTEX 2062

A. Dick, Q. Zhao, D. Baker-Andresen, X. Li, V. Marshall, J. Edson, T. Bredy, A.J. Lawrence, J.R. Duncan *(Melbourne, Australia)*

C125 **MON 7/7/2014, 13:30 - FENS-1163**

DYNAMICS OF CORTICO-STRIATAL STRUCTURAL PLASTICITY IN RESPONSE TO COCAINE 2063

M. DosSantos, M. Salery, P. Vanhoutte, J. Caboche, N. Heck *(Paris, France)*

C126 **MON 7/7/2014, 14:30 - FENS-0354**

INVOLVEMENT OF THE GLUR1 RECEPTOR SUBUNIT IN ALCOHOL RELAPSE 2064

M. Eisenhardt, S. Leixner, A. Bilbao, R. Spanagel *(Mannheim, Germany)*

C127 **MON 7/7/2014, 13:30 - FENS-1560**

VALIDATING TWO NOVEL CELL-PENETRATING PEPTIDES FOR THE TREATMENT OF DOPAMINE-DEPENDENT DISORDERS OF THE BASAL GANGLIA 2065

S. Fasano, I. Morella, F. Marchisella, L. Marrone, A. Papale, R. Brambilla *(Milano, Italy)*

C128 **MON 7/7/2014, 14:30 - FENS-3344**

THC DECREASES THE EXPRESSION OF LOCOMOTOR SENSITIZATION INDUCED BY ETHANOL 2066

R. Filev, D.S. Engelke, J.G. Santos-Junior, D.X. Silveira, L.E. Mello *(São Paulo, Brazil)*

C129 **MON 7/7/2014, 13:30 - FENS-1744**

ENDURING BEHAVIORAL EFFECTS AND PLASTIC MOLECULAR CHANGES FOLLOWING EARLY EXPOSURE TO COCAINE IN RATS 2067

F. Fumagalli, A. Di Clemente, F. Moro, G. Giannotti, L. Caffino, C. Cassina, M. Toia, A. Orrù, L. Cervo *(Milan, Italy)*

C130 **MON 7/7/2014, 14:30 - FENS-1818**

MOLECULAR MECHANISMS OF ETHANOL DEPENDENCE AND WITHDRAWAL IN IMMATURE AND MATURE RAT ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES 2068

E. Gerace, E. Landucci, A. Totti, T. Scartabelli, D. Bani, F. Moroni, G. Mannaioni, D. Pellegrini-Giampietro *(Florence, Italy)*

C131 **MON 7/7/2014, 13:30 - FENS-1885**

CORTICAL BDNF-MEDIATED SIGNALING IS ALTERED FOLLOWING LONG-TERM ABSTINENCE FROM REPEATED EXPOSURE TO COCAINE DURING ADOLESCENCE 2069

G. Giannotti, L. Caffino, C. Malpighi, G. Racagni, F. Fumagalli *(Milan, Italy)*

C132 **MON 7/7/2014, 14:30 - FENS-2870**

TCBD: A NOVEL THERAPEUTIC APPROACH TO DRUG AND ALCOHOL RELAPSE 2070

G. Gonzalez-Cuevas, R. Martin-Fardon, D. Hammel, S. Banks, R. Sinha, A. Stinchcomb, F. Weiss *(La Jolla, USA)*

C133 **MON 7/7/2014, 13:30 - FENS-0900**

THE ROLE OF GHRELIN IN THE OPIOID REWARD PROCESSING 2071

T. Havlickova, P. Jerabek, P. Kacer, M. Krsiak, M. Sustkova - Fiserova *(Prague, Czech Republic)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C134 **MON 7/7/2014, 14:30 - FENS-0892**

GHRELIN AND ENDOCANNABINOID PARTICIPATION IN MORPHINE-INDUCED EFFECTS IN THE RAT NUCLEUS ACCUMBENS 2072

P. Jerabek, T. Havlickova, P. Kacer, M. Krsiak, M. Sustkova-Fiserova *(Prague, Czech Republic)*

C135 **MON 7/7/2014, 13:30 - FENS-2099**

THE APPETITE-REGULATING PEPTIDES, ANXIETY AND DEPRESSION DURING EARLY ABSTINENCE IN ALCOHOLIC PATIENTS 2073

N. Pushkina, P. Jerabek, M. Sustkova-Fiserova, P. Potmesil, P. Popov *(Prague, Czech Republic)*

C136 **MON 7/7/2014, 14:30 - FENS-3382**

DIFFERENTIAL GENE EXPRESSION ALTERATIONS IN THE BASOLATERAL COMPLEX OF THE AMYGDALA AFTER INCUBATION OF COCAINE OR HEROIN SEEKING IN RATS 2074

A. Higuera-Matas, D. Roura-Martinez, M. Ucha, R. Santos-Toscano, E. Ambrosio *(Madrid, Spain)*

C137 **MON 7/7/2014, 13:30 - FENS-2457**

EFFECT OF METHAMPHETAMINE ON COGNITION FUNCTION OF ADULT MALE RATS EXPOSED TO THE SAME DRUG IN DIFFERENT PRENATAL PERIOD 2075

I. Hrebícková, E. Macuchova, M. Malinova, K. Nohejlova, R. Slamberova *(Praque, Czech Republic)*

C138 **MON 7/7/2014, 14:30 - FENS-1821**

ARE THERE SEX DIFFERENCES IN DRUG-SEEKING BEHAVIOR OF ADULT RATS PRENATALLY EXPOSED TO METHAMPHETAMINE? 2076

E. Macuchova, I. Hrebickova, M. Malinova, R. Slamberova *(Prague, Czech Republic)*

C139 **MON 7/7/2014, 13:30 - FENS-1417**

HOW DOES METHAMPHETAMINE INFLUENCE MATERNAL BEHAVIOR AND DEVELOPMENT OF THE PUPS DURING THE NEONATAL PERIOD? 2077

M. Malinová, I. Hrebícková, E. Macúchová, M. Pometlová, R. ?lamberová *(Praha, Czech Republic)*

C140 **MON 7/7/2014, 14:30 - FENS-0969**

EFFECT OF AMPHETAMINE ON ADULT MALE AND FEMALE RATS PRENATALLY EXPOSED TO METHAMPHETAMINE 2078

R. Slamberova, E. Macuchova, K. Nohejlova, A. Stofkova, J. Jurcovicova *(Prague, Czech Republic)*

C141 **MON 7/7/2014, 13:30 - FENS-1035**

PRONOCICEPTIVE OR ANTINOCICEPTIVE EFFECT OF DELTA-9-TETRAHYDROCANNABINOL (THC) IN PRENATALLY METHAMPHETAMINE-EXPOSED RATS? 2079

A. Yamamotova, R. Rokyta, R. Slamberova *(Prague, Czech Republic)*

C142 **MON 7/7/2014, 14:30 - FENS-2313**

PENTEDRONE INDUCES REWARDING EFFECTS AND MODULATES DOPAMINERGIC SYSTEM 2080

C. Jang, J.S. Kim, J.Y. Hwang, S.I. Hong, Y.H. Jung, S.X. Ma, J.Y. Seo, J. Lee, S.Y. Lee *(Suwon, Korea)*

C143 **MON 7/7/2014, 13:30 - FENS-0485**

THE INFLUENCE OF AMN082, A METABOTROPIC GLUTAMATE RECEPTOR 7 ALLOSTERIC AGONIST, ON THE ANXIETY-LIKE EFFECT OF ETHANOL WITHDRAWAL IN RATS 2081

M. Jenda, K. Gawel, J.H. Kotlinska *(Lublin, Poland)*

C144 **MON 7/7/2014, 14:30 - FENS-0865**

RELAXIN-3/RXFP3 SIGNALLING IN THE BNST MEDIATES STRESS-INDUCED REINSTATEMENT OF ALCOHOL SEEKING IN RATS 2082

H. Kastman, E.V. Krstew, P.J. Ryan, A.L. Gundlach, A.J. Lawrence *(Parkville, Australia)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C145 **MON 7/7/2014, 13:30 - FENS-0812**

CHRONIC VOLUNTARY WHEEL-RUNNING EXERCISE MODULATES THE REWARDING EFFICACY AND THE LOCOMOTOR RESPONSES OF DELTA 9-TETRAHYDROCANNABINOL 2083

V. Katsidoni, G. Panagis *(Rethymno, Greece)*

C146 **MON 7/7/2014, 14:30 - FENS-2728**

INVOLVEMENT OF REACTIVE OXYGEN SPECIES IN COCAINE TAKING-BEHAVIORS IN RATS 2084

H. Kim, E.Y. Jang, Y.H. Ryu, S.C. Chang, M.J. Yeo, R.J. Folsom, K.J. Kim, S.C. Steffensen *(Daegu, Korea)*

C147 **MON 7/7/2014, 13:30 - FENS-2750**

CO-MICROINJECTION OF GHRELIN AND D1 DOPAMINE RECEPTOR AGONIST IN THE NUCLEUS ACCUMBENS CORE ENHANCES LOCOMOTOR ACTIVITY IN AMPHETAMINE PRE-EXPOSED RAT 2085

J. Kim, J.K. Jang, W.Y. Kim, J.W. Lee *(Seoul, Korea)*

C35: MENTAL DISORDERS - OTHER

C148 **MON 7/7/2014, 14:30 - FENS-2500**

ANIMAL MODEL FOR COFFIN-LOWRY SYNDROME: FUNCTION OF RSK2 IN ADULT NEUROGENESIS AND BEHAVIOUR 2086

V. Cabello, M. Groma, A.G. Schmitt, M. Fischer *(Würzburg, Germany)*

C149 **MON 7/7/2014, 13:30 - FENS-1510**

TARGETING MTOR SIGNALING PATHWAY AS A NEW APPROACH IN THE TREATMENT OF MAJOR DEPRESSIVE DISORDER (MDD) 2087

R. Crupi, I. Paterniti, A. Ahmad, D. Impellizzeri, E. Esposito, S. Cuzzocrea *(Messina, Italy)*

C150 **MON 7/7/2014, 14:30 - FENS-3332**

DYSCALCULIA REMEDIATION BY ACTION VIDEO GAMES 2088

S. Gori, M. Tait, S. Franceschini, E. Casagrande, C. Robino, C. De'Sperati, A. Facoetti *(Padova, Italy)*

C151 **MON 7/7/2014, 13:30 - FENS-0402**

NEGATIVE ALLOSTERIC MODULATION OF MGLUR5 BI-DIRECTIONALLY MODULATES TRAIT- AND MK-801-INDUCED IMPULSIVITY IN RATS 2089

S. Isherwood, T.W. Robbins, A. Pekcec, J.W. Dalley *(Biberach and der Riss, Germany)*

C152 **MON 7/7/2014, 14:30 - FENS-1690**

MODELLING LESCH-NYHAN DISEASE USING INDUCED PLURIPOTENT STEM CELLS 2090

J. Emeline, C. Boissart, M. Peschanski, A. Benchoua *(Evry, France)*

C153 **MON 7/7/2014, 13:30 - FENS-2539**

EXPRESSION OF ERBB4 AND NEUREGULIN-1 IN THE HIPPOCAMPUS OF ADULT HYPERTHYROID AND HYPOTHYROID RATS 2091

S. Kavraal, N. Liman, C. Suer, B. Kandemir, S. Bitiktas *(Kayseri, Turkey)*

C154 **MON 7/7/2014, 14:30 - FENS-2042**

PSYCHOACTIVE PROPERTIES OF BNN-27: A NOVEL NEUROSTEROID DERIVATIVE 2092

N. Kokras, C. Dioli, I. Charalampopoulos, T. Mavridis, A. Antoniou, Z. Papadopoulou-Daifoti, A. Gravanis, C. Dalla *(Athens, Greece)*

C155 **MON 7/7/2014, 13:30 - FENS-2659**

DYSREGULATION OF GLUTAMATE CARBOXYPEPTIDASE II EXPRESSION IS ASSOCIATED WITH DEPRESSIVE BEHAVIOR IN MICE 2093

Y. Leem, S. Yoon, S. Ahn Jo *(Cheonan-si, Korea)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C156 **MON 7/7/2014, 14:30 - FENS-2105**

INTRACEREBROVENTRICULAR STREPTOZOTOCIN TRIGGERS COGNITIVE, METABOLIC AND SYNAPTIC DYSFUNCTION 2094

C. Lemos, J. Gutierres, H.B. Silva, P.M. Agostinho, C.R. Oliveira, R.A. Carvalho, R.A. Cunha *(Coimbra, Portugal)*

C157 **MON 7/7/2014, 13:30 - FENS-2523**

EFFECTS OF RAPAMYCIN ON BEHAVIOUR, COGNITIVE DEFICITS AND NEUROGENESIS IN A CHRONIC STRESS MODEL IN MICE 2095

A. Leo, R. Aiello, R. Citraro, V. Rispoli, R. Crupi, S. Cuzzocrea, G. De Sarro, E. Russo *(Catanzaro, Italy)*

C158 **MON 7/7/2014, 14:30 - FENS-2725**

MODULATION OF ANKYRIN-3 IN STRESS-RELATED MODELS OF MOOD DISORDERS 2096

A. Luoni, A. Cattaneo, R. Massart, F. Cirulli, C.M. Pariante, M. Szyf, M.A. Riva *(Milan, Italy)*

C159 **MON 7/7/2014, 13:30 - FENS-3008**

SERIAL ELECTRICAL STIMULATION OF HYPOTHALAMIC OREXIN-CONTAINIG NEURONAL REGIONS SHORTEN ANESTHESIA TIME AND FASTEN NORMAL SLEEP CYCLES RECOVERY FROM ANESTHESIA-INDUCED SLEEP 2097

N. Maglakelidze, O. Mchedlidze, E. Chkhartishvili, E. Chijavadze, M. Babilodze, S.H. Dzadzamia, V. Tsomaia, N. Nachkebia *(Tbilisi, Georgia)*

C160 **MON 7/7/2014, 14:30 - FENS-2266**

CHRONIC STRESS INDUCES LONG-TERM DEPRESSION-LIKE BEHAVIOR AND CHANGES MRNA LEVELS OF NEUROTROPHIC FACTOR IN THE MOUSE HIPPOCAMPUS 2098

Y. Matsuo, T. Ogawa, Y. Sakamoto, N. Hashikawa-Hobara, N. Hashikawa *(Okayama, Japan)*

C161 **MON 7/7/2014, 13:30 - FENS-0531**

THE EFFECT OF SELECTIVE SEROTONIN REUPTAKE INHIBITORS ON SERT FUNCTION IN STEM-CELL DERIVED SEROTONERGIC NEURONS 2099

F. Matthaeus, T. Lau, M. Caron, C. Sánchez, N. Haddjeri, P. Schloss *(Mannheim, Germany)*

C162 **MON 7/7/2014, 14:30 - FENS-2899**

EARLY POSTNATAL MALFUNCTIONING OF MUSCARINIC CHOLINERGIC SYSTEM LEADS TO BEHAVIORAL AND SLEEP DISTURBANCES AND M2/M4 CHOLINORECEPTORS UPREGULATION IN ADULT AGE 2100

N. Nachkebia, E. Chijavadze, E. Chkhartishvili, O. Mchedlidze, S.H. Dzadzamia, N. Maglakelidze, M. Babilodze *(Tbilisi, Georgia)*

C163 **MON 7/7/2014, 13:30 - FENS-0121**

INVOLVEMENT OF SYNAPTIC GENES IN THE REGULATION OF DOMINANT AND SUBMISSIVE BEHAVIOR 2101

E. Nesher, E. Nesher, M. Gross, T. Tikhonov, G. Yadid, A. Pinhasov *(Ramat Gan, Israel)*

C164 **MON 7/7/2014, 14:30 - FENS-2260**

ROLE OF CALCITONIN GENE-RELATED PEPTIDE ON DEPRESSION-LIKE BEHAVIOR IN MICE 2102

T. Ogawa, Y. Sakamoto, M. Ogawa, N. Hashikawa-Hobara, N. Hashikawa *(Okayama, Japan)*

C165 **MON 7/7/2014, 13:30 - FENS-0337**

CHRONIC MURINE TOXOPLASMOSIS IS DEFINED BY SUBTLE CHANGES IN NEURONAL CONNECTIVITY 2103

A. Parlog, L.A. Harsan, M. Zagrebelsky, M. Weller, M. Korte, I.R. Dunay *(Magdeburg, Germany)*

C166 **MON 7/7/2014, 14:30 - FENS-2068**

RETINOID X RECEPTOR GAMMA (RXRG) CONTROLS STRESS ADAPTATION PROCESSES IN SOCIAL DEFEAT MODEL 2104

A. Podlesny, A. Krzyzosiak, W. Krezel *(Wroclaw, Poland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C167 **MON 7/7/2014, 13:30 - FENS-2366**

NUR77 REGULATION BY DOPAMINE SYSTEM IN THE STRIATUM IN A RAT MODEL OF OBSESSIVE COMPULSIVE DISORDER 2105

N. Sanchez, M. Herrera, A. Escobar, M. Gonzalez, M.E. Andres *(Santiago, Chile)*

C168 **MON 7/7/2014, 14:30 - FENS-2640**

CONNECTION BETWEEN SELF-REGULATION AND ALPHA RHYTHM INDICES OF EEG IN AD/HD CHILDREN 2106

E. Sapina *(Novosibirsk, Russia)*

C169 **MON 7/7/2014, 13:30 - FENS-0503**

EARLY LIFE STRESS AFFECTS THE HOMEOSTASIS OF GLUTAMATERGIC NEURONAL CIRCUIT 2107

Y. Takatsuru, S. Toya, I. Amano, N. Shimokawa, N. Koibuchi *(Maebashi, Gunma, Japan)*

C170 **MON 7/7/2014, 14:30 - FENS-1054**

ACUTE STRESS RAPIDLY INCREASES THE READILY RELEASABLE POOL OF GLUTAMATE VESICLES IN PREFRONTAL AND FRONTAL CORTEX THROUGH CORTICOSTERONE NON-GENOMIC ACTION 2108

G. Treccani, M. Musazzi, C. Perego, M. Milanese, N. Nava, T. Bonifacino, J. Lamanna, A. Malgaroli, G. Racagni, J.R. Nyengaard, G. Wegener, M. Popoli *(Risskov, Denmark)*

C171 **MON 7/7/2014, 13:30 - FENS-1199**

EFFECTS OF EARLY-LIFE STRESS ON THE AVAILABILITY AND SENSITIVITY OF ESSENTIAL MICRONUTRIENTS AND FAT METABOLISM THROUGHOUT LIFE 2109

K. Yam, E.F.G. Naninck, S.E. La Fleur, P.J. Lucassen, A. Korosi *(Amsterdam, The Netherlands)*

D16: AUDITORY

D001 **MON 7/7/2014, 13:30 - FENS-3167**

FINE SPATIAL REPRESENTATION OF COMPLEX SOUNDS IN THE AUDITORY CORTEX: A TWO-PHOTON IMAGING STUDY 2110

M. Panniello, J.C. Dahmen, K.M.M. Walker, A.J. King *(Oxford, United Kingdom)*

D002 **MON 7/7/2014, 14:30 - FENS-0363**

ASSESSING HEARING IN A HIGH-THROUGHPUT MOUSE PHENOTYPING SCREEN USING AUDITORY BRAINSTEM RESPONSE TESTING 2111

S. Pearson, S. Pearson, N. Ingham, A. Gerdin, C. Lelliott, D. Adams, R. Ramirez-Solis, J. White *(Cambridge, United Kingdom)*

D003 **MON 7/7/2014, 13:30 - FENS-1618**

DORSAL COCHLEAR NUCLEI MICROGLIOSIS AND CIRCUIT IMBALANCE IN RAT TINNITUS MODELS 2112

P. Perin, A. Venturino, A. Oda, M. Losurdo, M. Pedrazzoli, R. Pizzala *(Pavia, Italy)*

D004 **MON 7/7/2014, 14:30 - FENS-2668**

MUSICAL GERBILS 2113

V. Rajendran, J. Garcia-Lazaro, N. Lesica, J. Schnupp *(Oxford, United Kingdom)*

D005 **MON 7/7/2014, 13:30 - FENS-1203**

GENES LINKING HEARING LOSS AND ALZHEIMER'S DISEASE ARE IDENTIFIED USING OPEN SOURCE DATABASES 2114

D. Ramirez Gordillo, E.E. Serrano *(Las Cruces, USA)*

D006 **MON 7/7/2014, 14:30 - FENS-0272**

COUNTER-REGULATION OF NEURONAL PATF2 AND FOS EXPRESSION: MOLECULAR RESPONSES AFTER ELECTRICAL INTRACOCHLEAR STIMULATION OF HEARING AND DEAF ADULT RATS 2115

A. Rauch, N. Rosskothen-Kuhl, R.B. Illing *(Freiburg, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
D007	**MON 7/7/2014, 13:30 - FENS-1596**	
	NEURONAL GENERATORS UNDERLYING SENSORY MEMORY-TRACE FORMATION: AN MEG STUDY	2116
	M. Recasens, S. Leung, R. Nowak, C. Escera *(Barcelona, Spain)*	
D008	**MON 7/7/2014, 14:30 - FENS-0197**	
	NEURON-ASTROCYTE INTERACTION CHANGES WITH SENSORY EXPERIENCE: REGIONAL CO-REGULATION OF FOS AND GFAP IN THE ADULT RAT AUDITORY MIDBRAIN	2117
	N. Rosskothen-Kuhl, H. Hildebrandt, R.B. Illing *(Freiburg, Germany)*	
D009	**MON 7/7/2014, 13:30 - FENS-2830**	
	BRAIN LISTENING: RE-SYNTHESIS OF NATURAL SOUNDS FROM FMRI AUDITORY CORTICAL RESPONSE PATTERNS	2118
	R. Santoro, M. Moerel, F. De Martino, G. Valente, K. Ugurbil, E. Yacoub, E. Formisano *(Maastricht, The Netherlands)*	
D010	**MON 7/7/2014, 14:30 - FENS-3039**	
	RESPONSES TO VOWEL FORMANT COMBINATIONS IN THE AUDITORY CORTEX OF THE RAT	2119
	J. Schnupp, C. Honey *(Oxford, United Kingdom)*	
D011	**MON 7/7/2014, 13:30 - FENS-0699**	
	COHERENCE BETWEEN AUDITORY CORTEX AND VENTRAL STRIATUM DURING AN AUDITORY GO/NOGO TASK	2120
	A. Schulz, M.L. Woldeit, F.W. Ohl *(Magdeburg, Germany)*	
D012	**MON 7/7/2014, 14:30 - FENS-1037**	
	THE INFLUENCE OF SLEEP ON SONG-RELATED NEURONAL ACTIVITY IN RA - WHAT ROLE DOES MELATONIN PLAY?	2121
	S. Seltmann, E. Trost, A. Ter Maat, M. Gahr *(Seewiesen, Germany)*	
D013	**MON 7/7/2014, 13:30 - FENS-0079**	
	HETEROGENEOUS GAP JUNCTIONAL COUPLING OF ASTROCYTES IN THE AUDITORY BRAINSTEM	2122
	J. Stephan, C. Bold, C.P. Moritz, E. Friauf *(Kaiserslautern, Germany)*	
D014	**MON 7/7/2014, 14:30 - FENS-0117**	
	MULTI-ELECTRODE ARRAY RECORDING OF PROPAGATION OF LOCAL FIELD POTENTIALS EVOKED BY ELECTRICAL MICRO-STIMULATION IN THE MOUSE AUDITORY CORTEX	2123
	T. Tateno, A. Sano, H.W. Kitamura *(Sapporo, Japan)*	
D015	**MON 7/7/2014, 13:30 - FENS-1490**	
	OPTOGENETIC MANIPULATION OF NEURONAL ACTIVITY PATTERNS IN THE MOUSE AUDITORY CORTEX IN THE CONTEXT OF A GO/NO GO TASK	2124
	J. Tinter-thiede, B. Fontinha, B. Bathellier, C. Hüttmayr, S. Rumpel *(Vienna, Austria)*	
D016	**MON 7/7/2014, 14:30 - FENS-3064**	
	FUNCTIONAL CHARACTERIZATION OF THALAMIC INPUT TO THE MOUSE AUDITORY CORTEX	2125
	S. Vasquez-Lopez, Y. Weissenberger, P. Keating, A.J. King, J.C. Dahmen *(Oxford, United Kingdom)*	
D017	**MON 7/7/2014, 13:30 - FENS-3468**	
	THE ENTRAINMENT OF HEART RATE TO ACOUSTIC TEMPO	2126
	K. Watanabe, Y. Ooishi, M. Kashino *(Yokohama, Japan)*	
D018	**MON 7/7/2014, 14:30 - FENS-1004**	
	THE NOVEL PRESYNAPTIC PROTEIN MOVER CONTRIBUTES TO MOLECULAR HETEROGENEITY IN THE RODENT VENTRAL COCHLEAR NUCLEUS	2127
	F. Wetzel, A.K. Akula, T. Dresbach *(Goettingen, Germany)*	

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D019 **MON 7/7/2014, 13:30 - FENS-1574**

NEUROPHYSIOLOGY OF TEMPORAL INTEGRATION IN THE GRASSHOPPER AUDITORY SYSTEM 2128

S. Wirtssohn, B. Ronacher *(Berlin, Germany)*

D17: VISION - SUBCORTICAL PATHWAYS AND STRIATE CORTEX

D020 **MON 7/7/2014, 14:30 - FENS-3060**

LEARNING PROGRESSIVELY ENHANCES STIMULUS DISCRIMINABILITY IN MOUSE PRIMARY VISUAL CORTEX 2129

A. Khan, J. Poort, M. Pachitariu, A. Nemri, I. Orsolic, J. Krupic, M. Bauza, G. Keller, M. Sahani, T. Mrsic-Flogel, S. Hofer *(Basel, Switzerland)*

D021 **MON 7/7/2014, 13:30 - FENS-1948**

TEMPORAL AND CHROMATIC PROPERTIES OF BLUE-ON CELLS IN THE LATERAL GENICULATE NUCLEUS OF THE CAT 2130

P. Kóbor, Z. Petykó, P. Buzás *(Pécs, Hungary)*

D022 **MON 7/7/2014, 14:30 - FENS-0420**

RESPONSE PROPERTIES AND RATE CODE OF STIMULUS ORIENTATION BY V1 NEURONS IN CATS 2131

S. Kozhukhov, N. Lasareva *(Moscow, Russia)*

D023 **MON 7/7/2014, 13:30 - FENS-3048**

STIMULUS RECONSTRUCTION FROM RESPONSES EVOKED IN PRIMARY VISUAL CORTEX 2132

A. Lazar, L. Chauvière, W. Singer, D. Nikolic *(Frankfurt, Germany)*

D024 **MON 7/7/2014, 14:30 - FENS-2817**

CELLS FROM THE MEDIAL, BUT NOT THE CAUDAL GANGLIONIC EMINENCE INDUCE OCULAR DOMINANCE PLASTICITY IN ADULT MICE 2133

K. Lehmann, J. Bolz, M. Isstas, M. Teichert *(Jena, Germany)*

D025 **MON 7/7/2014, 13:30 - FENS-2834**

TWO FREQUENCY BANDS CONTAIN THE MOST STIMULUS-RELATED INFORMATION IN VISUAL CORTEX 2134

C. Lewis, C.A. Bosman, N. Brunet, T. Womelsdorf, P. Fries *(Frankfurt, Germany)*

D026 **MON 7/7/2014, 14:30 - FENS-2860**

QUANTIFICATION OF THE LAMINAR AND FREQUENCY STRUCTURE OF INFORMATION IN PRIMARY VISUAL CORTEX 2135

S. Lowe, Y. Murayama, D. Zaldivar, N. Logothetis, S. Panzeri *(Edinburgh, United Kingdom)*

D027 **MON 7/7/2014, 13:30 - FENS-2006**

TRANSIENT MONOCULAR DEPRIVATION AFFECTS BINOCULAR RIVALRY AND GABA CONCENTRATIONS IN ADULT HUMAN VISUAL CORTEX. 2136

C. Lunghi, U. Emir, M.C. Morrone, D.C. Burr, H. Bridge *(Florence, Italy)*

D028 **MON 7/7/2014, 14:30 - FENS-1262**

CONTRAST SENSITIVITY IS IMPAIRED AT LOW SPATIAL FREQUENCIES IN EARLY-ONSET CANNABIS USERS IN LOW LIGHT CONDITIONS 2137

E. Mikulskaya, F.H. Martin *(Newcastle, Australia)*

D029 **MON 7/7/2014, 13:30 - FENS-0045**

ORIENTATION COLUMNS: DO THEY EXIST? 2138

S. Molotchnikoff, L. Bachatene, V. Bharmauria, S. Cattan *(Montreal, Canada)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D030 **MON 7/7/2014, 14:30 - FENS-2565**

NEURONAL ACTIVITY PATTERNS IN THE RAT VISUAL SYSTEM: THE ROLE OF DORSAL LATERAL GENICULATE NUCLEUS IN RETINO-CORTICAL TRANSMISSION 2139

G. Montesano, M. Belfiore, M. Ripamonti, A. Arena, J. Lamanna, V. Zimarino, A. Ambrosi, A. Malgaroli *(Milan, Italy)*

D031 **MON 7/7/2014, 13:30 - FENS-3504**

TRANSFORMATION FROM ABSOLUTE TO RELATIVE SPATIAL FREQUENCY TUNING IN THE CAT PRIMARY VISUAL CORTEX 2140

T. Naito, H. Sato *(Toyonaka, Japan)*

D032 **MON 7/7/2014, 14:30 - FENS-0948**

A CORTICALLY DRIVEN ATTENTIONAL SPOTLIGHT ENHANCES BURSTING IN THALAMIC CELLS IN THE AWAKE MONKEY AND CONTRIBUTES TO NOVELTY DETECTION 2141

C. Rivadulla, T. Ortuno, K.L. Grieve, J. Cudeiro *(Coruña, Spain)*

D033 **MON 7/7/2014, 13:30 - FENS-2841**

DECODING VISUAL CORTEX AND HIPPOCAMPUS DURING VIRTUAL NAVIGATION 2142

A. Saleem, K.D. Harris, M. Carandini *(London, United Kingdom)*

D034 **MON 7/7/2014, 14:30 - FENS-3420**

ALTERNATING CURRENT STIMULATION-INDUCED EEG CHANGES: DIFFERENTIAL EFFECTS ON THE HEALTHY AND THE SEVERELY DAMAGED VISUAL SYSTEM 2143

E. Sergeeva, P. Henrich-Noack, M. Bola, S. Wagner, B.A. Sabel *(Magdeburg, Germany)*

D035 **MON 7/7/2014, 13:30 - FENS-0059**

PROLONGED STIMULATION OF THE NUCLEUS LATERALIS POSTERIOR LEADS TO LTP AND SUBSEQUENT DEPOTENTIATION OF VISUAL CORTEX EVOKED POTENTIALS IN RATS 2144

S. Shumikhina, S.A. Kozhukhov, A.A. Prokuratova, M.M. Svinov *(Moscow, Russia)*

D036 **MON 7/7/2014, 14:30 - FENS-2599**

CORTICAL AND SUB-CORTICAL CONTRIBUTIONS TO VISUAL DISCRIMINATION IN RODENTS 2145

B. Sriram, A. Cruz-Martin, E. Giering, L. Li, L. DeNardo, E.J. Kim, J. Atangan, P. Reinagel, A. Ghosh *(San Diego, USA)*

D037 **MON 7/7/2014, 13:30 - FENS-1092**

BRIEF DARK EXPOSURE RESTORED OCULAR DOMINANCE PLASTICITY IN AGEING MICE AND AFTER A CORTICAL STROKE 2146

S. Stodieck, B. Goetze, K.F. Schmidt, F. Greifzu, S. Löwel *(Goettingen, Germany)*

D038 **MON 7/7/2014, 14:30 - FENS-1192**

IRRADIANCE CODING IN THE MOUSE DLGN AND RETINA 2147

R. Storchi, P. Orlowska, C.G. Eleftheriou, R. Bedford, A.E. Allen, T.M. Brown, R.S. Petersen, M.A. Montemurro, R.J. Lucas *(Manchester, United Kingdom)*

D039 **MON 7/7/2014, 13:30 - FENS-3289**

STROKE INDUCED CHANGES IN NEURONAL ACTIVITY IN CAT VISUAL CORTEX 2148

P. Urban, A. Foik, A. Popek, J. Jablonka, P. Milanowski, E. Kublik, R. Kus, M. Kaminski, J. Zygierewicz, W.J. Waleszczyk *(Warsaw, Poland)*

D040 **MON 7/7/2014, 14:30 - FENS-1557**

THE INFLUENCE OF CORTICAL FEEDBACK ON SIZE TUNING IN MOUSE LATERAL GENICULATE NUCLEUS 2149

A. Vaiceliunaite, S. Erisken, S. Katzner, L. Busse *(Vilnius, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D041 **MON 7/7/2014, 13:30 - FENS-3141**

EFFECT OF VISUAL TRAINING ON MAGNITUDE OF VISUAL EVOKED POTENTIAL IN SUBCORTICAL AND CORTICAL STRUCTURES OF RAT VISUAL SYSTEM 2150

K. Zeber, A. Foik, E. Kublik, W. Waleszczyk *(Warsaw, Poland)*

D18: POSTURE AND VOLUNTARY MOVEMENTS

D042 **MON 7/7/2014, 14:30 - FENS-2561**

A JOYSTICK TO STUDY HOW CHILDREN CONTROL THE INTERACTION FORCE DURING THE MANIPULATION OF KINEMATICALLY CONSTRAINED OBJECTS 2151

G. Baud-Bovy, N. Gurari *(Genoa, Italy)*

D043 **MON 7/7/2014, 13:30 - FENS-1772**

TRANSCRANIAL DIRECT CURRENT STIMULATION OF THE SUPPLEMENTARY MOTOR AREA ENHANCES INTRA-LIMB ANTICIPATORY POSTURAL ADJUSTMENTS 2152

F. Bolzoni, C. Bruttini, R. Esposti, C. Castellani, C. Cavallari *(Milan, Italy)*

D044 **MON 7/7/2014, 14:30 - FENS-1194**

ISCHEMIC BLOCK OF THE FOREARM ABOLISHES FINGER MOVEMENTS BUT NOT THEIR ASSOCIATED ANTICIPATORY POSTURAL ADJUSTMENTS 2153

C. Bruttini, R. Esposti, F. Bolzoni, P. Cavallari *(Milano, Italy)*

D046 **MON 7/7/2014, 14:30 - FENS-1168**

TIMING OF ANTICIPATORY POSTURAL ADJUSTMENTS (APAS) IS ALTERED IN CEREBELLAR ATAXIA 2155

R. Esposti, F. Bolzoni, C. Bruttini, A. Vanotti, C. Mariotti, P. Cavallari *(Milan, Italy)*

D047 **MON 7/7/2014, 13:30 - FENS-1730**

DOES GRAVITY INFLUENCE THE TIMING OF MOTION? A PROJECT STUDY ON ISOCHRONOUS REPETITIVE MOVEMENTS IN HUMAN HEALTHY SUBJECTS 2156

R. Bravi, E. Quarta, C. Del Tongo, D. Minciacchi *(Florence, Italy)*

D048 **MON 7/7/2014, 14:30 - FENS-0619**

POSTURAL CORRELATES OF THE EMPATHIC PAIN RESPONSE: INFLUENCE OF PERSPECTIVE 2157

G. Bucchioni, T. Lelard, B. Montalan, M. La Marle, S. Ahmaidi, O. Godefroy, P. Krystkowiak, H. Mouras *(Amiens, France)*

D049 **MON 7/7/2014, 13:30 - FENS-3744**

ALTERED GAIT AND BALANCE IN PATIENTS WITH FIBROMYALGIA ARE ASSOCIATED WITH PAIN SYMPTOMS 2158

I. Costa, C.N. De Santana, A. Gamundí, J.G.V. Miranda, P.J. Montoya *(Palma de Mallorca, Spain)*

D050 **MON 7/7/2014, 14:30 - FENS-2650**

BRAINSTEM NUCLEUS MDV MEDIATES SKILLED FORELIMB MOTOR TASKS 2159

M. Esposito, P. Capelli, S. Arber *(Basel, Switzerland)*

D051 **MON 7/7/2014, 13:30 - FENS-0888**

MODULATION OF TACTILE SENSORY RESPONSES DURING A SENSORY-TRIGGERED DECISION TASK IN MOUSE FOREPAW PRIMARY MOTOR CORTEX 2160

L. Estebanez, J.F.A. Poulet *(Berlin, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D052 **MON 7/7/2014, 14:30 - FENS-2713**
MOTOR OUTPUT FROM THE SUPPLEMENTARY MOTOR AREA IN HUMANS 2161
V. Ferpozzi, L. Fornia, M. Riva, A. Fanti, M. Rossi, A. Castellano, V. Blasi, A. Falini, L. Bello, G. Cerri *(Rozzano, Italy)*

D053 **MON 7/7/2014, 13:30 - FENS-2687**
MOTOR OUTPUT FROM HUMAN VENTRAL PREMOTOR CORTEX 2162
L. Fornia, V. Ferpozzi, M. Riva, T. Alfiero, E. Fava, M. Montagna, P. Borroni, L. Bello, G. Cerri *(Rozzano, Italy)*

D055 **MON 7/7/2014, 13:30 - FENS-1654**
THE EFFECT OF HANDEDNESS CONSISTENCY ON BIMANUAL COORDINATION: A BEHAVIOURAL AND ELECTROPHYSIOLOGICAL INVESTIGATION 2163
D. Kourtis, L. De Saedeleer, G. Vingerhoets *(Ghent, Belgium)*

D056 **MON 7/7/2014, 14:30 - FENS-3716**
LIMB EXERCISES AND RELATED POSTURAL ADJUSTMENTS CAN BE USED IN PERIODIZED THERAPEUTIC EXERCISES 2164
F.G. Martinez, K.P.S. Rosa, R.F. Loureiro-Chaves, S.C. Senna, M.Z. Casal, C.C. Ely, L.A. Peyré-Tartaruga *(Porto Alegre, Brazil)*

D057 **MON 7/7/2014, 13:30 - FENS-1478**
NEURONAL ACTIVITY DURING CONTRALATERAL AND IPSILATERAL HAND MOVEMENTS IN THE MEDIAL FRONTAL LOBE OF MACAQUES 2165
Y. Nakayama, O. Yokoyama, E. Hoshi *(Tokyo, Japan)*

D058 **MON 7/7/2014, 14:30 - FENS-1499**
LOCAL FIELD POTENTIALS DURING CONTRALATERAL AND IPSILATERAL HAND MOVEMENTS IN THE MEDIAL FRONTAL LOBE OF MACAQUES 2166
O. Yokoyama, Y. Nakayama, E. Hoshi *(Tokyo, Japan)*

D059 **MON 7/7/2014, 13:30 - FENS-2995**
OPTOGENETIC ANALYSIS OF CORTICAL CONTROL OF MULTI-JOINT FORELIMB MOVEMENTS IN THE MOUSE 2167
W. Omlor, A.S. Wahl, H. Lütcke, C. Von Achenbach, M. Van't Hoff, M.E. Schwab, F. Helmchen *(Zurich, Switzerland)*

D060 **MON 7/7/2014, 14:30 - FENS-2747**
OPPOSITE PATTERNS OF NEURAL ACTIVITY IN DISTINCT FUNCTIONAL SUBPOPULATIONS OF DORSAL PREMOTOR CORTICAL NEURONS PREDICT UPPER LIMB MOVEMENT GENERATION 2168
P. Pani, E. Brunamonti, V. Mione, F. DiBello, F. Fabbrini, R. Montanari, F. Giarrocco, S. Ferraina *(Rome, Italy)*

D061 **MON 7/7/2014, 13:30 - FENS-1838**
VARIABILITY OF MANUAL DEXTERITY PERFORMANCE IN NON-HUMAN PRIMATES DURING LEARNING PHASE, STABILIZATION PHASE, AND AFTER A PRIMARY MOTOR CORTICAL LESION 2169
E. Rouiller, M. Fregosi, P. Chatagny, J. Savidan, A.D. Gindrat, S. Badoud, S. Borgognon, J. Cottet, E. Schmidlin, M. Kaeser *(Fribourg, Switzerland)*

D062 **MON 7/7/2014, 14:30 - FENS-3387**
MOTOR CONTROL ADAPTATION STUDIED BY CROSS-POINTING TEST AT DIFFERENT WRIST LOADS - A PRELIMINARY REPORT 2170
L. Simon, M. Alberti, M. Endrényi, S. Garab, K. Szegi *(Budapest, Hungary)*

D063 **MON 7/7/2014, 13:30 - FENS-0128**
DISSOCIATION OF PARIETAL CORTEX CONTRIBUTIONS TO OBSTACLE MEMORY IN LOCOMOTING CATS 2171
C. Wong, H.A. Campbell, K.G. Pearson, S.G. Lomber *(London, Canada)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D064 **MON 7/7/2014, 14:30 - FENS-0927**

THE SUPERIOR FRONTAL ACTIVITY ASSOCIATED WITH QUADRUPEDALISM IN ADULT HUMANS DETECTED BY NEAR-INFRARED SPECTROSCOPY 2172

A. Yozu, S. Obayashi, T. Ogino, Y. Hara *(Tokyo, Japan)*

E07: NEUROENDOCRINE - HPG AXIS REGULATION

E001 **MON 7/7/2014, 13:30 - FENS-2284**

TRANSCRIPTOME-BASED ANALYSIS TO IDENTIFY NOVEL GENES UNDERLYING GNRH NEURON DEVELOPMENT AND DISEASE 2173

V. Andre, F. Memi, T. Etzion, J. Parnavelas, Y. Gothilf, R. Maggi, A. Cariboni *(Milano, Italy)*

E002 **MON 7/7/2014, 14:30 - FENS-2832**

NEUROPILIN-1 EXPRESSION IN GNRH NEURONS IS REQUIRED FOR THE NORMAL ONSET OF PUBERTY AND GNRH CELLS DISTRIBUTION 2174

C. Vanacker, F. Casoni, N.K. Hanchate, P. Giacobini *(Lille, France)*

E08: NEUROENDOCRINE - SEXUAL DIFFERENCES

E003 **MON 7/7/2014, 13:30 - FENS-0347**

GENDER DEPENDENT ROLE OF GLUCOCORTICOID RECEPTOR IN REGULATION OF CIRCADIAN CORTICOSTERONE LEVELS: THE STUDY IN GRDBHCRE MICE 2175

P. Chmielarz, G. Kreiner, J. Kusmierczyk, I. Nalepa *(Krakow, Poland)*

E004 **MON 7/7/2014, 14:30 - FENS-0445**

DEFEMINIZATION OF A NEUROENDOCRINE PULSE GENERATOR: EVIDENCE FROM ORGANOTYPIC HYPOTHALAMIC CULTURES 2176

P. Ciofi, J.M. Israel, J.M. Cabelguen, G. Le Masson, S.H. Oliet *(Bordeaux, France)*

E005 **MON 7/7/2014, 13:30 - FENS-1178**

SEXUALLY DIMORPHIC EFFECT OF ESTROGENIC COMPOUNDS ON ASTROCYTE MIGRATION 2177

S. De Vidania Ballesteros, L.M. García-Segura, M.L. De Ceballos *(Madrid, Spain)*

E006 **MON 7/7/2014, 14:30 - FENS-2905**

TYPE 2 DIABETIC FEMALE RAT BRAINS ARE LESS VULNERABLE TO OXIDATIVE STRESS AND AD-RELATED HALLMARKS: A ROLE FOR INSULIN/IGF-1/ESTROGEN SIGNALING? 2178

A. Duarte, E. Candeias, I. Sebastião, C. Carvalho, S. Correia, A.I. Plácido, R.X. Santos, M.A. Fernandes, R. Seiça, M.S. Santos, C.R. Oliveira, P.I. Moreira *(Coimbra, Portugal)*

E007 **MON 7/7/2014, 13:30 - FENS-2799**

TESTOSTERONE AND ESTRADIOL DIFFERENTIALLY AFFECT CELL PROLIFERATION IN THE SUBVENTRICULAR ZONE OF ADULT MALE AND FEMALE RATS: A BRDU STUDY 2179

A. Farinetti, G. Panzica *(Orbassano, Italy)*

E008 **MON 7/7/2014, 14:30 - FENS-2611**

EFFECTS OF LETROZOLE AND LEUPRORELIN IN ADULT MALE MICE ON BEHAVIORS 2180

Y. Momota, M. Amano, K. Sakuraba, A. Satoh, Y. Terada *(Akita, Japan)*

E009 **MON 7/7/2014, 13:30 - FENS-0455**

METABOLIC LATERALIZATION IN THE HYPOTHALAMUS: POSSIBLE MECHANISM FOR CRAMMING MULTIPLE FUNCTIONS INTO A SMALL PLACE 2181

I. Toth, D.S. Kiss, G. Jocsak, T. Bartha, V.L. Frenyo, A. Zsarnovszky *(Budapest, Hungary)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E09: STRESS AND THE BRAIN - CELLULAR ACTIONS OF STRESS

E010 **MON 7/7/2014, 14:30 - FENS-2602**

STUDY OF HSP70 PROMOTER FEATURES THAT PLAY A ROLE IN LOWER GENE RESPONSIVENESS DURING HEAT SHOCK IN NEURONS 2182

J. Cordova, A. Gómez, R. Munita, G. Parada, G. Cancino, A. Alvarez, M.E. Andrés *(Santiago, Chile)*

E011 **MON 7/7/2014, 13:30 - FENS-0967**

DIFFERENTIAL EXPRESSION PATTERN OF HSP70 UPON HEAT STRESS RESILIENCE AND VULNERABILITY IN THE HYPOTHALAMUS AND BLOOD CELLS 2183

T. Kisliouk, T. Cramer, N. Meiri *(Rishon Le-Zion, Israel)*

E012 **MON 7/7/2014, 14:30 - FENS-2893**

IMPACT OF PSYCHO-EMOTIONAL STRESS ON ACTIVITY OF BRAIN ANTIOXIDANT SYSTEM AND ENERGY METABOLISM IN NATURALLY AGGRESSIVE (KILLER) ANIMALS 2184

N. Koshoridze, K. Menabde, Z. Kuchukashvili, N. Dachanidze, G. Burjanadze, M. Chachua *(Georgia, Tbilisi)*

E013 **MON 7/7/2014, 13:30 - FENS-0193**

DEPRESSIVE-LIKE BEHAVIOR AND C-FOS EXPRESSION IN THE BRAIN STRUCTURES INDUCED BY OVEDRCROWDING IN RATS 2185

E. Loseva, N. Loginova, K. Sarkisova *(Moscow, Russia)*

E014 **MON 7/7/2014, 14:30 - FENS-0595**

CHRONIC STRESS INCREASES INHIBITION OF PREFRONTAL OUTPUT NEURONS 2186

J. McKlveen, R. Morano, S. Cassella, S. Zoubovsky, M. Baccei, J. Herman *(Cincinnati, USA)*

E015 **MON 7/7/2014, 13:30 - FENS-2608**

SPECTRAL-CONFOCAL AND 3D-RENDERING ANALYSIS TO DEFINE THE GLIAL CELLS DISTRIBUTION AND SVCT2 TRANSPORTERS EXPRESSION IN THE HYPOTHALAMUS 2187

F. Nualart, F. Martínez, K. Salazar, C. Cortés-Campos *(Concepción, Chile)*

E016 **MON 7/7/2014, 14:30 - FENS-2833**

REGULATION OF NEUROGENIC ACTIVITY OF NEURAL STEM/PROGENITOR CELLS IN ADULT HIPPOCAMPUS BY CORTICOTROPIN-RELEASING HORMONE 2188

P. Politis, Y. Koutmani, I.A. Gampierakis, A. Polissidis, K.P. Karalis *(Athens, Greece)*

E017 **MON 7/7/2014, 13:30 - FENS-2202**

A COMBINATION OF PROTEOMIC AND LIPIDOMIC APPROACHES TO INVESTIGATE MITOCHONDRIAL AGEING 2189

A. Pollard, F. Shephard, S. Liddell, C. Ortori, D.A. Barrett, L. Chakrabarti *(Derby, United Kingdom)*

E018 **MON 7/7/2014, 14:30 - FENS-0281**

STEROID RECEPTOR COACTIVATOR-1 ISOFORM SWITCHING IN THE CENTRAL AMYGDALA RESULTS IN IMPAIRED STRESS RESPONSES AND CHANGES IN SENSITIVITY TO GLUCOCORTICOIDS 2190

I. Zalachoras, S.L. Verhoeve, L.J. Toonen, I.M. Mol, W. Meelis, O.C. Meijer *(Leiden, The Netherlands)*

E10: BIOLOGICAL RHYTHMS AND SLEEP - SLEEP: SYSTEMS AND BEHAVIOUR

E019 **MON 7/7/2014, 13:30 - FENS-0140**

PERIPUBERTAL DIET-INDUCED OBESITY IN MICE AFFECTS SLEEP QUALITY DURING AGING 2191

M. Gazea, A.V. Patchev, E. Leidmaa, C. Flachskamm, O.F.X. Almeida, M. Kimura *(Munich, Germany)*

E020 **MON 7/7/2014, 14:30 - FENS-3736**

MODERATE CHRONIC SLEEP RESTRICTION INCREASES PAIN SENSITIVITY IN MICE 2192

G. Miracca, C. Alexandre, A. Latremoliere, M. Yamamoto, T.E. Scammell, C.J. Woolf *(Boston, USA)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E021 **MON 7/7/2014, 13:30 - FENS-1014**

DIVERSITY OF REM STRUCTURE AND REM RELATED TRANSITION STRUCTURE FOLLOWING THALAMO-CORTICAL CHOLINERGIC DENERVATION IN RAT 2193

J. Petrovic, K. Lazic, A. Kalauzi, J. Saponjic *(Belgrade, Serbia)*

E022 **MON 7/7/2014, 14:30 - FENS-3034**

INCREASED DELTA-BAND PHASE SYNCHRONIZATION IN EARLY NREM SLEEP 2194

M. Piastra, G. Arnulfo, S. Sarasso, M.M. Fato, L. Nobili, J.M. Palva *(Genoa, Italy)*

E023 **MON 7/7/2014, 13:30 - FENS-3202**

SELECTIVE GENETIC SILENCING OF THE LOCUS COERULEUS REVEALS ITS ROLE IN SLEEP AND AROUSAL NETWORKS 2195

E. Steinberg, V. Ferretti, R. Yustos, A. Vyssotski, K. Wafford, W. Wisden, N.P. Franks *(London, United Kingdom)*

E024 **MON 7/7/2014, 14:30 - FENS-3457**

INVOLVEMENT OF MIDLINE THALAMIC NEURONS IN THE REGULATION OF SLEEP/WAKE CYCLES 2196

Z. Zhang, C. Gelegen, A.L. Vyssotski, S.G. Brickley, N.P. Franks, W. Wisden *(London, United Kingdom)*

E025 **MON 7/7/2014, 13:30 - FENS-2013**

THETA WAVE BURSTS DURING RAPID-EYE-MOVEMENT SLEEP IN HISTAMINE-DEFICIENT MICE 2197

G. Zoccoli, S. Bastianini, C. Berteotti, V. Lo Martire, A. Silvani *(Bologna, Italy)*

F13: HUMAN COGNITION AND BEHAVIOUR - COGNITIVE DEVELOPMENT AND AGING

F001 **MON 7/7/2014, 13:30 - FENS-3533**

CORTICAL SOURCES OF RESTING STATE EYES CLOSED EEG RHYTHMS ARE CORRELATED TO FRACTIONAL ANISOTROPY (FA) OF SPLENIUM IN MCI SUBJECTS 2198

C. Babiloni, C. Del Percio, S. Cordone, N. Marzano, G. Noce, C. Bagnoli, P.M. Rossini, A. Soricelli, F. Nobili, D. Bartres Faz, O. Blin, P. Payoux, B. Mueller, R. Bordet, M. Tsolaki, L. Parnetti, T. Hensch, J. Richardson, U. Hegerl, G. Frisoni *(Rome, Italy)*

F002 **MON 7/7/2014, 14:30 - FENS-3699**

EVALUATION OF RELATIONAL REASONING BY A TRANSITIVE INFERENCE TASK IN ATTENTION DEFICIT HYPERACTIVITY DISORDER 2199

E. Brunamonti, F. Costanzo, A. Mammì, C. Rufini, D. Veneziani, P. Pani, S. Vicari, S. Ferraina, D. Menghini *(Rome, Italy)*

F003 **MON 7/7/2014, 13:30 - FENS-2454**

AGEING DIFFERENTIALLY AFFECTS NEURONAL PATTERNS OF CONFLICT RESOLUTION IN DIFFERENT CONFLICT TYPES 2200

M. Korsch, S. Frühholz, M. Herrmann *(Bremen, Germany)*

F004 **MON 7/7/2014, 14:30 - FENS-0539**

AGE AND GENDER DIFFERENCES IN SPATIAL REFERENCE MEMORY IN 45 TO 74 YEAR-OLD HUMANS IN VIRTUAL REALITY-BASED TASK 2201

I. León Estrada, J.M. Cimadevilla, R. Sánchez-Horcajo, J. Llamas-Alonso *(Almeria, Spain)*

F005 **MON 7/7/2014, 13:30 - FENS-1426**

INTERPLAY BETWEEN CORTICAL AND SPINAL EXCITABILITY IN HUMANS DURING MOVEMENT OBSERVATION WITHOUT MOTOR EXECUTION 2202

A. Pablo, V. Robles-García, Y. Corral-Bergantiños, N. Espinosa, L. Mordillo-Mateos, K.L. Grieve, J. Cudeiro *(Coruña, Spain)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F006 **MON 7/7/2014, 14:30 - FENS-1555**

EFFECTS OF A VIRTUAL REALITY THERAPY BASED ON IMITATION IN PARKINSON'S DISEASE: REDUCTION OF HYPOMETRIA COUPLED TO PLASTICITY-LIKE CHANGES 2203

V. Robles-García, P. Arias, Y. Corral-Bergantiños, N. Espinosa, C. García-Sancho, G. Sanmartin, J. Flores, J. Cudeiro *(Coruña, Spain)*

F007 **MON 7/7/2014, 13:30 - FENS-2072**

NEURAL CORRELATES OF MULTIPLE OBJECT PROCESSING IN HEALTHY AGING 2204

S. Pagano, E. Fait, A. Monti, D. Brignani, V. Mazza *(Rovereto, Italy)*

F008 **MON 7/7/2014, 14:30 - FENS-1162**

EFFECTS OF YELLOW VISION ON COLOR PERCEPTION: COLOR DIFFERENCE DETECTION 2205

S. Park, J. Han, B. Kim, I. Choi *(Busan, Korea)*

F009 **MON 7/7/2014, 13:30 - FENS-0546**

PERCEPTUAL LEARNING IN THE ELDERLY 2206

K. Parkosadze, M. Khomeriki, A. Kezeli, M.H. Herzog *(Tbilisi, Georgia)*

F010 **MON 7/7/2014, 14:30 - FENS-0650**

THE CHANGE OF P300 INDEX ; LOW FREQUENCY ELECTRICAL STIMULATION ON ACUPUNCTURE POINT IN MIDDLE AGED MEN AND WOMEN 2207

Y. Ryu, K. Choi, S. Cho, O. Kwon, S. Yeon, S. Kang, S. Choi *(Daedeon, Korea)*

F011 **MON 7/7/2014, 13:30 - FENS-2822**

INTERACTION BETWEEN ENVIRONMENTAL LEAD AND CADMIUM EXPOSURE IS ASSOCIATED WITH POOR MEMORY PERFORMANCE AND OXIDANT DEFENSES IN OLDER ADULTS 2208

J. Souza-Talarico, T. Marcourakis, F. Barbosa Jr, S. Pompéia, P. Caramelli, P. Plusquellec *(São Paulo, Brazil)*

F012 **MON 7/7/2014, 14:30 - FENS-3723**

THE ROLE OF EXECUTIVE FUNCTIONS IN ADOLESCENT LEARNING 2209

A. Spijkerboer *(Groningen, The Netherlands)*

F013 **MON 7/7/2014, 13:30 - FENS-2178**

AGE-RELATED ALTERATIONS IN AUDITORY CHANGE DETECTION TO FREQUENCY DEVIATION 2210

J. Strömmer, V. Kirjavainen, I.M. Tarkka, P. Astikainen *(Jyväskylä, Finland)*

F14: ANIMAL COGNITION AND BEHAVIOUR - MEMORY MODULATION, CONSOLIDATION, AND RECONSOLIDATION

F014 **MON 7/7/2014, 14:30 - FENS-3488**

ENRICHED HOUSING PROMOTES RECOVERY OF SPATIAL MEMORY PERSISTENCE AFTER LESION OF THE VENTRAL MIDLINE THALAMUS (REUNIENS AND RHOMBOID NUCLEI) 2211

M. Ali, T. Cholvin, B. Cosquer, J. Dalrymple-Alford, A. Pereira de Vasconcelos, J.C. Cassel *(Strasbourg, France)*

F015 **MON 7/7/2014, 13:30 - FENS-1298**

RECOVERY OF DISRUPTED CONDITIONED FEAR IN MICE: REMINDER-INDUCED SELECTIVE C-FOS RESPONSE THE DENTATE GYRUS AND THE CA1 REGION OF HIPPOCAMPUS 2212

E. Amelchenko, S. Zworykina, K. Anokhin *(Moscow, Russia)*

F016 **MON 7/7/2014, 14:30 - FENS-3388**

REACTIVATING FEAR MEMORY UNDER PROPRANOLOL RESETS PRE-TRAUMA LEVELS OF DENDRITIC SPINES IN BASOLATERAL AMYGDALA BUT NOT DORSAL HIPPOCAMPUS NEURONS 2213

M. Ammassari-Teule, G. Vetere, M. Aceti, A. Borreca, V. Piserchia *(Rome, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F017 **MON 7/7/2014, 13:30 - FENS-2055**
MUCH ADO ABOUT BIG LEARNING 2214
G. Ascoli, M. Mainetti *(Fairfax, USA)*

F018 **MON 7/7/2014, 14:30 - FENS-1226**
THE ROLE OF ENDOCANNABINOID SIGNALING IN INTEGRATING STRESS HORMONES EFFECTS ON MEMORY 2215
P. Atsak, D. Hauer, P. Campolongo, G. Schelling, R.V. Fornari, B. Roozendaal *(Nijmegen, The Netherlands)*

F019 **MON 7/7/2014, 13:30 - FENS-1244**
EMOTIONAL MEMORIES ARE BETTER REMEMBERED OVER TIME 2216
E. Atucha, V. Vukojevic, R.V. Fornari, P. Atsak, M. Coolen, D.J.F. De Quervain, B. Roozendaal *(Nijmegen, The Netherlands)*

F020 **MON 7/7/2014, 14:30 - FENS-1377**
NITRIC OXIDE IS NECESSARY FOR SUPPRESSION/ERASURE OF MEMORY DURING RECONSOLIDATION OF CONTEXT MEMORY IN TERRESTRIAL SNAILS 2217
P. Balaban, M. Roshchin, A. Timoshenko, K.H. Gainutdinov, T. Bogodvid *(Moscow, Russia)*

F021 **MON 7/7/2014, 13:30 - FENS-3275**
ROLE OF THE HISTAMINERGIC SYSTEM IN SHORT-TERM AND LONG-TERM MEMORY OF INHIBITORY AVOIDANCE 2218
F. Benetti, C. Furini, J. Myskiw, M. Passani, I. Izquierdo, P. Blandina *(Porto Alegre, Brazil)*

F022 **MON 7/7/2014, 14:30 - FENS-3037**
MEMORY RECONSOLIDATION AND ITS MAINTENANCE DEPEND ON L-VDCC AND CAMKII FUNCTIONS REGULATING PROTEIN TURNOVER IN THE HIPPOCAMPUS 2219
W. Da Silva, J.S. Bonini, G. Cardoso, F. Benetti, I. Izquierdo *(Guarapuava, Brazil)*

F023 **MON 7/7/2014, 13:30 - FENS-2518**
EFFECTS OF SLEEP ON IMPLICIT MEMORY FORMATION IN MICE 2220
C. Canto, A. Pors, L. Witter, B.H.J. Winkelmann, B. Bruinsma, W. Ochoa, C.I. De Zeeuw *(Amsterdam, The Netherlands)*

F024 **MON 7/7/2014, 14:30 - FENS-1886**
SPATIAL LEARNING MODULATES RRNA TRANSCRIPTION IN DIFFERENT BRAIN REGIONS 2221
F. Capitano, A. Angerilli, C. Gargiuli, G. Camilloni, A. Mele *(Rome, Italy)*

F025 **MON 7/7/2014, 13:30 - FENS-3091**
THE ROLE OF THE TRANSCRIPTION FACTOR REST/NRSF DURING MEMORY CONSOLIDATION 2222
D. Corbett, K. Murphy *(Dublin, Ireland)*

F026 **MON 7/7/2014, 14:30 - FENS-1663**
EXPLICIT MEMORY CREATION DURING SLEEP: A CAUSAL ROLE OF PLACE CELL ON NAVIGATION 2223
G. De Lavilleon, M. Lacroix, L. Rondi-Reig, K. Benchenane *(Paris, France)*

F027 **MON 7/7/2014, 13:30 - FENS-1981**
ROLE OF ASTROCYTIC CONNEXINS IN THE REGULATION OF SLEEP OSCILLATORY PATTERNS 2224
M. Lacroix, L. Roux, C. Giaume, K. Benchenane *(Paris, France)*

F028 **MON 7/7/2014, 14:30 - FENS-2638**
THE PHOSPHORYLATION OF THE AMPA RECEPTOR GLUR1 SUBUNIT REGULATES MEMORY LOAD CAPACITY AND LIMIT 2225
E. De Leonibus, L. Olivito, P. Saccone, V. Perri, J.L. Bachman, P. Fragapane, A. Mele, R.L. Huganir *(Naples, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F029 **MON 7/7/2014, 13:30 - FENS-1260**
MACAQUE CORTICAL RHYTHMS: A HEMISPHERE WIDE ANALYSIS OF THE SPATIO-SPECTRAL PATTERNING UNDERLYING VISUAL WORKING MEMORY 2226
N. Dotson, C.M. Gray *(Bozeman, USA)*

F030 **MON 7/7/2014, 14:30 - FENS-1209**
MEMORY STORAGE AND RETRIEVAL REQUIRE CPEB3-MEDIATED PROTEIN SYNTHESIS IN THE HIPPOCAMPUS 2227
L. Fioriti, C. Myers, Y.Y. Huang, X. Li, P. Trifilieff, S. Kosmidis, E. Pavlopoulos, B. Drisaldi, E.R. Kandel *(New York, USA)*

F031 **MON 7/7/2014, 13:30 - FENS-0803**
EPENDYMIN: PROTEIN BINDING STUDIES ON A CELL ADHESION MOLECULE INVOLVED IN CNS PLASTICITY 2228
R. Goethe, R. Schmidt *(Giessen, Germany)*

F032 **MON 7/7/2014, 14:30 - FENS-0810**
EPENDYMIN: EXPRESSION STUDIES ON A CELL ADHESION MOLECULE INVOLVED IN CNS PLASTICITY 2229
D. Penninella, R. Schmidt *(Giessen, Germany)*

F033 **MON 7/7/2014, 13:30 - FENS-2016**
THE ROLE OF BDNF-TRKB SIGNALING IN CORTICAL PARVALBUMIN INTERNEURONS DURING COGNITIVE AND EMOTIONAL PROCESSES 2230
N. Guyon, C. Lopes-Aguiar, Y. Xuan, K. Meletis, M. Carlén *(Stockholm, Sweden)*

F034 **MON 7/7/2014, 14:30 - FENS-0587**
HIPPOCAMPAL SINGLE-NEURON AND THETA ACTIVITY DURING ACQUISITION AND RETRIEVAL OF CONSOLIDATED TRACE EYEBLINK CONDITIONING 2231
S. Hattori, L. Chen, C. Weiss, J. Disterhoft *(Chicago, USA)*

F15: ANIMAL COGNITION AND BEHAVIOUR - LEARNING AND MEMORY: PHYSIOLOGY AND IMAGING

F035 **MON 7/7/2014, 13:30 - FENS-0924**
SWITCHING BETWEEN PERSISTENT FIRING AND EPILEPTIFORM ACTIVITY IN INDIVIDUAL RAT CA1 PYRAMIDAL NEURONS DURING CHOLINERGIC STIMULATION 2232
B. Knauer, M. Yoshida *(Bochum, Germany)*

F036 **MON 7/7/2014, 14:30 - FENS-1812**
NEURAL SUBSTRATES OF CONDITIONED SUPPRESSION OF FOOD SEEKING BY OPIATE WITHDRAWAL MEMORY: CONTEXT VERSUS CS DIFFERENTIATION USING CATFISH 2233
C. Le Moine, E. Noe, M.L. Fournier, N. Bonneau, S. Caillé-Garnier, M. Cador *(Bordeaux, France)*

F037 **MON 7/7/2014, 13:30 - FENS-0816**
SLEEP REACTIVATION OF HIPPOCAMPAL CELL ASSEMBLIES IN MICE 2234
C. McNamara, N. Campo-Urriza, D. Dupret *(Oxford, United Kingdom)*

F038 **MON 7/7/2014, 14:30 - FENS-3574**
INACTIVATION OF THE PRELIMBIC CORTEX IN THE RAT: EFFECTS ON SPATIAL MEMORY EXTINCTION AND BRAIN OXIDATIVE METABOLISM 2235
M. Méndez-Couz, N. Conejo, C. Fidalgo, G. Vallejo, H. González-Pardo, J.L. Arias *(Oviedo, Spain)*

F039 **MON 7/7/2014, 13:30 - FENS-2573**
MODULAR STRUCTURE OF LAYER 2 IN THE MEDIAL ENTORHINAL CORTEX 2236
R. Naumann, S. Ray, M. Brecht *(Frankfurt, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F040 **MON 7/7/2014, 14:30 - FENS-0331**

EFFECT OF WESTERN DIET CONSUMPTION ON LEARNING AND THE REWARD-FRONTALSTRIATAL SYSTEM IN RATS 2237

J. Nguyen, A.S. Killcross, T.A. Jenkins *(Melbourne, Australia)*

F041 **MON 7/7/2014, 13:30 - FENS-0239**

LEARNING TO ATTEND IN VISUAL AND FRONTAL CORTEX 2238

P. Roelfsema, L. Stanisor, A. Pooresmaeili, L. Labantakis, G. Deco, C. Van der Togt *(Amsterdam, The Netherlands)*

F042 **MON 7/7/2014, 14:30 - FENS-3171**

COMT GENETIC REDUCTION PRODUCES SEXUALLY-DIVERGENT EFFECTS ON CORTICAL ANATOMY AND WORKING MEMORY IN MICE AND HUMANS 2239

S. Sannino, A. Gozzi, A. Cerasa, F. Piras, D. Scheggia, F. Managò, M. Damiano, D. Weinberger, G. Spalletta, F. Papaleo *(Genova, Italy)*

F043 **MON 7/7/2014, 13:30 - FENS-2772**

OPTO-FMRI INTERROGATION OF LONG-RANGE HIPPOCAMPAL CONNECTIVITY AND LTP FORMATION IN NF1 AND NON-NF1 MICE 2240

B. Shofty, E. Harari, N. Cohen, I. Kahn *(Tel-Aviv, Israel)*

F044 **MON 7/7/2014, 14:30 - FENS-3629**

LINKING CELLS TO BEHAVIOR: PURKINJE CELL ELECTROPHYSIOLOGY DURING EYEBLINK CONDITIONING IN (TRANSGENIC) MICE 2241

M. Ten Brinke, H.J. Boele *(Rotterdam, The Netherlands)*

F045 **MON 7/7/2014, 13:30 - FENS-2023**

SPATIAL CODING IN THE GERBIL HIPPOCAMPUS 2242

K. Thurley, E. Mankin, L. Debs, M. Galinato, O. Haas, B. Grothe, C. Leibold, S. Leutgeb *(Planegg-Martinsried, Germany)*

F046 **MON 7/7/2014, 14:30 - FENS-2717**

CONSTITUTIVE AND CONDITIONAL PKMZETA KO MICE SHOW DISTINCT SPATIAL MEMORY DEFICITS 2243

P. Tsokas, C. Hsieh, Y. Yao, E.J.C. Wallace, P. Serrano, A.I. Hernandez, H. Shouval, J.E. Cottrell, A.A. Fenton, T.C. Sacktor *(Brooklyn, USA)*

F047 **MON 7/7/2014, 13:30 - FENS-0724**

FIRING DYNAMICS OF DORSAL CA1 INTERNEURONS DURING THE ENCODING OF NEW EXPERIENCES 2244

O. Valenti, T. Klausberger *(Wien, Austria)*

F048 **MON 7/7/2014, 14:30 - FENS-3658**

SIMULTANEOUS RECORDING OF LEFT AND RIGHT HIPPOCAMPUS DURING SLOW-WAVE SLEEP 2245

C. Villalobos, P.E. Maldonado, J.L. Valdes *(Santiago, Chile)*

F049 **MON 7/7/2014, 13:30 - FENS-0279**

GIRDIN PHOSPHORYLATION IS CRUCIAL FOR SYNAPTIC PLASTICITY AND MEMORY: A POTENTIAL ROLE IN THE INTERACTION OF TRKB/AKT SIGNALING WITH NMDA RECEPTOR 2246

K. Yamada, T. Nakai, T. Nagai, M. Tanaka, N. Asai, A. Enomoto, M. Asai, M. Sokabe, M. Takahashi *(Nagoya, Japan)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F16: ANIMAL COGNITION AND BEHAVIOUR - LEARNING AND MEMORY: PHARMACOLOGY

F050 **MON 7/7/2014, 14:30 - FENS-3036**

TARGETING HIPPOCAMPAL ALPHA7 NICOTINIC RECEPTORS WITH POTENT AGONIST PHA-543613 ENHANCES COGNITIVE FUNCTION THROUGH NETWORK STABILIZATION I: IN VIVO ELECTROPHYSIOLOGICAL ASPECTS 2247

Z. Bali, D. Budai, J. Inkeller, R. Csurgyók, N. Bruszt, H. Horváth, I. Hernádi *(Pécs, Hungary)*

F051 **MON 7/7/2014, 13:30 - FENS-3401**

TARGETING HIPPOCAMPAL ALPHA7 NICOTINIC RECEPTORS WITH POTENT AGONIST PHA-543613 ENHANCES COGNITIVE FUNCTION THROUGH NETWORK STABILIZATION II: BEHAVIORAL PHARMACOLOGICAL ASPECTS 2248

J. Inkeller, Z.K. Bali, R. Csurgyók, N. Bruszt, H. Horváth, I. Hernádi *(Pécs, Hungary)*

F052 **MON 7/7/2014, 14:30 - FENS-0099**

INFLUENCE OF BUPROPION AND MECAMYLAMINE ON COGNITIVE EFFECTS OF NICOTINE AND SCOPOLAMINE IN THE NOVEL OBJECT RECOGNITION TASK IN MICE 2249

G. Biala, M. Kruk-Slomka, A. Michalak, B. Budzynska *(Lublin, Poland)*

F053 **MON 7/7/2014, 13:30 - FENS-0916**

DELTA-9THC RESTORES AGE-RELATED CHANGES IN THE BRAIN 2250

A. Bilkei-Gorzó, O. Albayram, A. Piyanova, M. Dvir-Ginzberg, A. Draffehn, J. Schultze, I. Rácz, S. Imbeault, A. Zimmer *(Bonn, Germany)*

F054 **MON 7/7/2014, 14:30 - FENS-1283**

FURTHER EVIDENCE THAT CERTAIN ANTI-GLUN1 ANTIBODIES SUPPORT NEURONAL FUNCTIONING 2251

T. Chen, M.L. Kalev-Zylinska, M.J. During, D. Young *(Auckland, New Zealand)*

F055 **MON 7/7/2014, 13:30 - FENS-2312**

COPPER EFFECT ON MORPHINE-INDUCED CONDITIONED PLACE PREFERENCE AND ON BRAIN SEROTONIN LEVELS 2252

D. Ciubotariu, L. Tartau, C. Filip, M. Nechifor *(Iasi, Romania)*

F056 **MON 7/7/2014, 14:30 - FENS-0734**

NMDA RECEPTOR ANTAGONISM IMPROVES VISUO-SPATIAL RECOGNITION MEMORY IN A TWO TRIAL DISCRIMINATION TASK 2253

S. Embrechts, L. Ver Donck *(Beerse, Belgium)*

F057 **MON 7/7/2014, 13:30 - FENS-1500**

IMPROVING EFFECTS OF FLAVONOIDS ON WORKING MEMORY IN RADIAL MAZE TEST IN AGED RATS 2254

S. Esteban, M. Ramis, F. Sarubbo, L. Ruiz, M. Miralles, A. Miralles *(Palma de Mallorca, Spain)*

F058 **MON 7/7/2014, 14:30 - FENS-1514**

SILYMARIN, QUERCETIN AND NARINGENIN IMPROVE THE NOVEL OBJECT RECOGNITION MEMORY IN OLD RATS 2255

A. Miralles Socías, F. Sarubbo, M. Ramis, J.L. Terrasa, S. Aparicio, S. Esteban *(Palma de Mallorca, Spain)*

F059 **MON 7/7/2014, 13:30 - FENS-1587**

EVALUATION OF SPATIAL LEARNING IN AGED FLAVONOIDS-TREATED RATS BY BARNES MAZE TEST 2256

F. Sarubbo, M. Ramis, J.L. Terrasa, D. Moranta, S. Esteban, A. Miralles *(Palma de Mallorca, Spain)*

F060 **MON 7/7/2014, 14:30 - FENS-0698**

ACUTE ADMINISTRATION OF ANGIOTENSIN IV INCREASES BRAIN-DERIVED NEUROTROPHIC FACTOR IN MICE 2257

S. Fidalgo, J. Bols, P.R. Gard *(Brighton, United Kingdom)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F061 **MON 7/7/2014, 13:30 - FENS-0691**

EFFECT OF ACUTE ADMINISTRATION OF ANGIOTENSIN IV IN A MOUSE MODEL OF FOETAL ALCOHOL SYNDROME 2258

P. Gard, S. Fidalgo, C. Skipper, V. Onaji *(Brighton, United Kingdom)*

F062 **MON 7/7/2014, 14:30 - FENS-2441**

ROLE OF THE HIPPOCAMPUS AND VENTRAL STRIATUM IN RETRIEVAL OF RECENT AND REMOTE MEMORIES 2259

A. Finocchiaro, J. Camon, S. D'Uva, A. Oliverio, A. Mele *(Rome, Italy)*

F063 **MON 7/7/2014, 13:30 - FENS-1186**

NEUROPROTECTIVE EFFECT OF ROSMARINIC ACID ON MEMORY DEFICITS INDUCED BY FOCAL CEREBRAL ISCHEMIA IN MICE 2260

A. Fonteles, J.C.S. Neves, M.Y.D.S. Fernandes, E.O. Ferreira, J.S.B. Queiroz, P.R. Araújo, A.P.F. Menezes, C.M. Souza, G.M. Andrade *(Fortaleza, Brazil)*

F064 **MON 7/7/2014, 14:30 - FENS-0662**

SINGLE ADMINISTRATION OF BDNF, BUT NOT GDNF, IMPROVES SPATIAL LEARNING IN MICE WITH GENETICALLY IMPAIRED LEARNING ABILITY 2261

D. Fursenko, N.V. Khotskin, D.V. Bazovkina, A.V. Kulikov *(Novosibirsk, Russia)*

F065 **MON 7/7/2014, 13:30 - FENS-1830**

DEFICITS IN MEMORY PERFORMANCE AND ANXIETY LEVELS INDUCED BY THE ANTI-HIV DRUG EFAVIRENZ 2262

N. Grilo, V.L. Batalha, L.V. Lopes, A.M.M. Antunes, S.A. Pereira *(Lisbon, Portugal)*

F066 **MON 7/7/2014, 14:30 - FENS-2815**

CONTRIBUTION OF NMDA RECEPTOR LOCATION TO THE COGNITIVE DEFICITS OBSERVED IN THE APP/PS1 MOUSE MODEL OF ALZHEIMER'S DISEASE 2263

S. Hadzibegovic, Y. Cho, N. Macrez, B. Bontempi, O. Nicole *(Pessac, France)*

F067 **MON 7/7/2014, 13:30 - FENS-0068**

BEHAVIOURAL AND NEUROCHEMICAL PROCESSES UNDERLYING THE EFFECTS OF ACUTE 3,4-METHYLENEDIOXY-N-METHYLAMPHETAMINE (MDMA) ON MEMORY FUNCTION 2264

D. Harper *(Wellington, New Zealand)*

F068 **MON 7/7/2014, 14:30 - FENS-0637**

TRANSIENTLY INCREASING CAMP LEVELS IN HIPPOCAMPAL NEURONS USING A NOVEL PHARMACOGENETIC APPROACH PREVENTS COGNITIVE IMPAIRMENTS ASSOCIATED WITH LOSS OF SLEEP 2265

R. Havekes, V.M. Bruinenberg, J.H.K. Choi, A.J. Park, A. Bauman, P. Meerlo, T. Abel *(Philadelphia, USA)*

F069 **MON 7/7/2014, 13:30 - FENS-2767**

MULTIPLE EFFECT OF ASTROCYTE AND NEURON-DERIVED KYNURENIC ACID IN THE ADULT C57BL/6 MICE 2266

J. Heredi, D. Varga, G. Oláh, Z. Kánvási, Z. Kis, T. Farkas, L. Vécsei, J. Toldi, L. Gellért *(Szeged, Hungary)*

F070 **MON 7/7/2014, 14:30 - FENS-2918**

NEUROBEHAVIORAL EFFECTS ASSOCIATED WITH CHOLINESTERASE INHIBITORS CHLORPYRIFOS AND RIVASTIGMINE 2267

C. Mª Teresa, P. Basaure, F. Peris-Sampedro, I. Reverte, J. Domingo, M. Cabré *(Tarragona, Spain)*

F071 **MON 7/7/2014, 13:30 - FENS-2589**

BERBERINE PROTECTS AGAINST BRAIN DAMAGE AND MEMORY DEFICITS INDUCED BY PERMANENT FOCAL CEREBRAL ISCHEMIA IN MICE 2268

J. Neves, A.A. Fonteles, C.M. Souza , F.D.P. Fernandes, M.R.S. Carmom, A.C.L. Nunes, A.T.A. Silva *(Fortaleza, Brazil)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F072 **MON 7/7/2014, 14:30 - FENS-0877**

EFFECT OF CO-TREATMENT WITH RISPERIDONE AND MIRTAZAPINE ON MK-801-INDUCED DEFICITS IN NOVEL OBJECT RECOGNITION AND SOCIAL INTERACTION TESTS IN ANIMALS 2269

K. Kaminska, Z. Rogóz *(Krakow, Poland)*

F073 **MON 7/7/2014, 13:30 - FENS-0296**

MEMANTINE PREVENTS THE AMPHETAMINE-INDUCED MEMORY IMPAIRMENT AND DEPRESSIVE-LIKE BEHAVIORS INDUCED BY WITHDRAWAL FROM CHRONIC TREATMENT WITH AMPHETAMINE IN RATS 2270

J. Kotlinska, M. Marta Marszalek *(Lublin, Poland)*

F074 **MON 7/7/2014, 14:30 - FENS-3538**

THE MEMORY AMELIORATING EFFECT OF SWERTISIN, A METABOLITE OF SPINOSIN, AGAINST SCOPOLAMINE- OR A?1-42-INDUCED COGNITIVE DYSFUNCTION IN MICE 2271

H. Lee, I. Jung, B. Ryu, S. Park, Q. Gao, Y. Lee, S. Ko, B. Kim, Y. Lee, Y. Jo, D. Jang, J. Ryu *(Seoul, Korea)*

F075 **MON 7/7/2014, 13:30 - FENS-0804**

EFFECT OF EARLY LIFE EXPERIENCES ON REWARD-BASED DECISION MAKING AND SPATIAL MEMORY 2272

M. Loi, L. De Visser, S. Koot, R. Van de Bos, M. Kas, M. Joëls *(Utrecht, The Netherlands)*

F076 **MON 7/7/2014, 14:30 - FENS-0678**

COCAINE PREVENTS DEPOTENTIATION AT SCHAFFER COLLATERAL-CA1 SYNAPSES IN MOUSE HIPPOCAMPAL SLICES 2273

G. Lu, L. Chiou *(Taipei, Taiwan)*

F077 **MON 7/7/2014, 13:30 - FENS-0896**

ACTIN CYTOSKELETON IS A KEY EFFECTOR OF CAMKII IN MEMORY FORMATION 2274

K. Lukasiewicz, Z. Matuszek, M. Robacha, A. Trabczynska, K. Radwanska *(Warsaw, Poland)*

F17: ANIMAL COGNITION AND BEHAVIOUR - LEARNING AND MEMORY: INVERTEBRATES

F078 **MON 7/7/2014, 14:30 - FENS-2355**

A GAL4 SCREEN IDENTIFIES NEURONS INVOLVED IN FEMALE RECEPTIVITY BEHAVIOR 2275

M. Aranha, S. Dias, A. Sousa, M.L. Vasconcelos *(Lisbon, Portugal)*

F079 **MON 7/7/2014, 13:30 - FENS-0342**

FUNCTIONAL IDENTIFICATION OF NEURONAL NETWORKS INVOLVED IN OLFACTORY LONG-TERM MEMORY RETRIEVAL IN DROSOPHILA MELANOGASTER 2276

G. Belliart-Guérin, E. Le Glou, Y. Aso, A. Saint-Amaux, P.Y. Plaçais, G.M. Rubin, T. Préat *(Paris, France)*

F080 **MON 7/7/2014, 14:30 - FENS-1334**

MAPPING THE LEARNING DEFICIENCY ASSOCIATED WITH NEUROFIBROMATOSIS TYPE-1 IN DROSOPHILA MELANOGASTER 2277

E. Georganta, A. Moressis, J.Y. Gouzi, E.M.C. Skoulakis *(Vari, Athens, Greece)*

F081 **MON 7/7/2014, 13:30 - FENS-2218**

WALKING SOCIAL AND SOLITARY BEES MEMORIZE PANORAMA AND LOCAL CUE IN A LABORATORY TEST OF NAVIGATION 2278

N. Jin, F. Leimig, R. Menzel *(Berlin, Germany)*

F082 **MON 7/7/2014, 14:30 - FENS-0697**

REVERSAL OF AGE RELATED LEARNING DEFICIENCY BY THE VERTEBRATE PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE (PACAP) IN LYMNAEA 2279

Z. Pirger, S. Naskar, G. Kemenes, D. Reglodi, I. Kemens *(Tihany, Hungary)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F083 **MON 7/7/2014, 13:30 - FENS-2525**

IDENTIFICATION OF MRNA TARGETS OF DROSOPHILA LONG-TERM MEMORY PROTEIN ORB2 USING CLIP 2280

B. Stepien, D. Gerlach, S. Kruettner, C. Oppitz, A. Stark, K. Keleman *(Vienna, Austria)*

G07: MOLECULAR AND GENETIC TECHNIQUES

G002 **MON 7/7/2014, 14:30 - FENS-1425**

MICROWAVE FIXATION IS A POWERFUL TOOL TO DETECT CYCLIC NUCLEOTIDES IN THE BRAIN 2281

L. Elster, M. Kristiansson, S. Herskind-Hansen, P. Hjørringgaard, K. Fejgin, I.V. Klewe, A. Damholdt *(Valby, Denmark)*

G003 **MON 7/7/2014, 13:30 - FENS-2395**

INFLUENCE OF GELATIN FIBRE DIAMETER ON SCHWANN CELL BEHAVIOUR AND AXONAL OUTGROWTH 2282

B. Fornasari, C. Tonda-Turo, E. Cipriani, M. Zanetti, G. Ciardelli, I. Perroteau, S. Geuna, S. Gnavi *(Orbassano, Italy)*

G004 **MON 7/7/2014, 14:30 - FENS-2159**

INFLUENCE OF NEUROPROTECTIVE DRUGS ON RETINAE IN A GLYOXAL-INDUCED MODEL OF DIABETIC RETINOPATHY 2283

R. Funk, L. Knels, J. Löffler *(Dresden, Germany)*

G005 **MON 7/7/2014, 13:30 - FENS-0430**

ANALYSIS OF MOLECULAR MECHANISMS OF MYELINATION BY IN VIVO TRANSGENESIS OF THE MOUSE SCIATIC NERVE USING VIRAL VECTORS 2284

S. Gonzalez, R. Fernando, C. Perrin-Tricaud, N. Tricaud *(Montpellier, France)*

G006 **MON 7/7/2014, 14:30 - FENS-2075**

A NOVEL APPROACH TO DETECTING RNA IN LIVING NEURONAL CELLS 2285

G. Guarino, D. Weldon, H. Liu, Y. Williams, V. Koong, G. Johnston *(Molsheim, France)*

G007 **MON 7/7/2014, 13:30 - FENS-3709**

HEAT PULSE EXTENSION-PCR: NOVEL METHOD FOR DETECTION OF LARGE GC-RICH REPEAT EXPANSIONS IN NEURONAL DISEASES 2286

T. Ho, A.K. Orpana, K. Alagrund, M. Ridanpää1, K. Aittomäki, J. Stenman *(Helsinki, Finland)*

G008 **MON 7/7/2014, 14:30 - FENS-0881**

DISTINCT TRANSDUCTION PROFILES RESULTING FROM DIRECT CORTICAL, INTRATHECAL OR INTRAVENOUS INJECTION OF AAV9 IN THE CNS 2287

F. Huda, A. Konno, Y. Matsuzaki, H. Goenawan, K. Miyake, T. Shimada, H. Hirai *(Maebashi, Japan)*

G009 **MON 7/7/2014, 13:30 - FENS-2923**

DEVELOPMENT OF VECTOR-NEUROTENSIN CONJUGATES THAT INDUCE HYPOTHERMIA AND PROMOTE EFFICIENT NEUROPROTECTION UPON SYSTEMIC ADMINISTRATION 2288

M. Khrestchatisky, P. Lécorché, F. Gassiot, M. Masse, R. Soussi, M. David, A. Fortoul, M. Laurencin, M. Smirnova, S. Cisternino, J.M. Scherrmann, V. Dive, G. Jacquot *(Marseille, France)*

G010 **MON 7/7/2014, 14:30 - FENS-2134**

FUNCTIONAL ANALYSIS OF RHO GTPASE SIGNALING IN SPECIFIC NEURONAL PATHWAY USING NEWLY DEVELOPED GENETIC MANIPULATION TECHNOLOGY 2289

K. Kobayashi, S. Kato, K. Kaibuchi, K. Kobayashi *(Okazaki, Japan)*

G011 **MON 7/7/2014, 13:30 - FENS-1589**

FLUORESCENCE-BASED ASSAY DEVELOPMENT TO SCREEN DRUGS AGAINST PARKINSON´S DISEASE 2290

D. Kortazar, R.M. Mella, M. Roura-ferrer, A. Castilla, J. Herrero, A.C. Salado, P. Villacé *(Derio, Spain)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G012 **MON 7/7/2014, 14:30 - FENS-1798**

IN VITRO ANALYSIS ON NVR-GEL COMBINED WITH IRON OXIDE-CONJUGATED FACTORS FOR PERIPHERAL NERVE ENGINEERING 2291

M. Morano, F. Fregnan, M. Wesemann, O. Ziv-Polat, A. Shahar, C. Grothe, K. Haastert-Talini, S. Geuna *(Orbassano, Italy)*

G013 **MON 7/7/2014, 13:30 - FENS-3474**

INFLUENCE OF NUCLEUS INCERTUS NETWORKS ON AROUSAL AND BEHAVIOR REVEALED USING DREADDS 2292

E. Ong-Palssom, S. Ma, D. Hawkes, S.J. McDougall, M.D. White, R.A.D. Bathgate, A.L. Gundlach *(Melbourne, Australia)*

G014 **MON 7/7/2014, 14:30 - FENS-1233**

OPTOGENETIC REGULATION OF TRANSCRIPTION: MODULATION OF THE RE1-SILENCING TRANSCRIPTION FACTOR (REST) 2293

F. Paonessa, H. Scarongella, D. Amoroso, S. Criscuolo, G. Pruzzo, L. Maragliano, F. Cesca, F. Benfenati *(Genova, Italy)*

G015 **MON 7/7/2014, 13:30 - FENS-0512**

GENERATION OF DOPAMINE NEURONS USING NURR1 MRNA DELIVERY TO NEURAL PROGENITOR CELLS 2294

C. Park, S. Kim *(Seoul, Korea)*

G016 **MON 7/7/2014, 14:30 - FENS-2625**

SINGLE CELL TRANSCRIPTOMICS REVEAL CIRCUIT DEFECTS IN A MOUSE MODEL FOR THE 16P11.2 DELETION SYNDROME ASSOCIATED WITH AUTISM 2295

T. Portmann, G. Panagiotakos, G. Dolen, B.A. Grueter, C. Goold, E. Fisher, R.C. Malenka, R.E. Dolmetsch *(Stanford, USA)*

G017 **MON 7/7/2014, 13:30 - FENS-0548**

PRENATAL RADIATION EXPOSURE OF THE MOUSE BRAIN RESULTS IN LONG-TERM EPIGENETIC EFFECTS 2296

R. Quintens, T. Verreet, M. Neefs, L. Leysen, A. Janssen, A. Michaux, S. Baatout, M.A. Benotmane *(Mol, Belgium)*

G018 **MON 7/7/2014, 14:30 - FENS-0743**

ANALYSIS OF PI3K/PTEN - AKT SIGNALING IN CORTICAL NEURONS THROUGH CAPILLARY-BASED ISOELECTRIC FOCUSING (CIEF) 2297

S. Schrötter, G. Leondaritis, B.J. Eickholt *(Berlin, Germany)*

G08: COMPUTATION, MODELLING, DATA ANALYSIS AND SOFTWARE

G019 **MON 7/7/2014, 13:30 - FENS-3076**

STABILITY OF EVOKED ACTIVITY IN A CULTURED NEURONAL CIRCUIT- ANALYZED BY SELF-ORGANIZATION MAP (SOM) 2298

S. Kudoh, H. Ito, W. Minoshima, Y. Fukui *(Sanda, Hyougo, Japan)*

G020 **MON 7/7/2014, 14:30 - FENS-2557**

THE NEURAL MARKETPLACE 2299

S. Lewis, P. Yger, K.D. Harris *(London, United Kingdom)*

G021 **MON 7/7/2014, 13:30 - FENS-3280**

IN VIVO QUANTIFICATION OF AMYGDALA SUBNUCLEI USING 4.7T FAST SPIN ECHO IMAGING 2300

N. Malykhin, A. Aghamohammadi-Sereshki *(Edmonton, Canada)*

G022 **MON 7/7/2014, 14:30 - FENS-0689**

A FAST AND ACCURATE METHOD TO REDUCE THE COMPUTATIONAL COMPLEXITY OF BIOPHYSICALLY ACCURATE MODELS OF NEURONS AND SYNAPTIC INPUTS 2301

A. Marasco, M. Migliore *(Naples, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
G023	**MON 7/7/2014, 13:30 - FENS-2524**	
	FUNCTIONAL RESTORATION AFTER SPINAL CORD INJURY FROM A NEW ASPECT: SYNCHRONOUS ANALYSES OF FOOTPRINT PATTERN AND LIMB MOTION	2302
	G. Márton, L. Gál, Z. Fekécs, D. Török, S. Pintér, A. Nógrádi *(Szeged, Hungary)*	
G024	**MON 7/7/2014, 14:30 - FENS-1873**	
	ORCHESTRATING THE RESTING BRAIN BY CROSS-FREQUENCY COUPLING	2303
	A. Medvedev *(Washington, USA)*	
G025	**MON 7/7/2014, 13:30 - FENS-3158**	
	EVALUATION OF FINE MOTOR SKILL IMPAIRMENT IN RODENT MODELS OF NEURODEGENERATIVE DISEASES	2304
	A. Nurmi, T. Ahtoniemi, T. Heikkinen, J. Puoliväli, O. Kontkanen *(Kuopio, Finland)*	
G026	**MON 7/7/2014, 14:30 - FENS-0500**	
	ESTIMATING PARAMETERS OF NEURAL MASS MODELS USING PARTICLE FILTER	2305
	Y. Ogawa, I. Yamaguchi, K. Kotani, Y. Jimbo *(Kashiwa, Japan)*	
G027	**MON 7/7/2014, 13:30 - FENS-1433**	
	BRAIN RHYTHM IDENTIFICATION BY DECOMPOSITION INTO ENSEMBLE EMPIRICAL MODES	2306
	D. Prodanov, K. Mols, I. Gligorijevic *(Leuven, Belgium)*	
G028	**MON 7/7/2014, 14:30 - FENS-1976**	
	A GENERIC FRAMEWORK FOR PARALLEL ANALYSIS AND PROCESSING OF EXTRACELLULAR NEURONAL SIGNALS RECORDED BY MULTI-ELECTRODE ARRAYS	2307
	R. Pulizzi, M. Mahmud, E. Vasilaki, M. Giugliano *(Wilrijk, Belgium)*	

9th FENS FORUM OF NEUROSCIENCE

Milan | Italy July 5 – 9, 2014

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SCIENTIFIC PROGRAMME

Tuesday, 8th July

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FENS Federation of European Neuroscience Societies

SCIENTIFIC PROGRAMME
TUESDAY, JULY 08, 2014

8:30 - 9:30 **Hall A**

PLENARY LECTURE:
PL06: Plenary Lecture

Introducer: S. Grillner *(Sweden)* 2308

EXPLORATIONS OF A SIMPLE VISUAL CORTEX 2309
G. Laurent *(Frankfurt, Germany)*

9:45 - 11:15 **Hall D**

SYMPOSIUM:
S33: Development and function of GABA circuits

Chair: B. Rico *(Spain)* 2310

9:50 **GENETIC DISSECTION OF CORTICAL GABAERGIC CIRCUITS-CHANDELIERS LIGHT UP THE PATH** 2311
H. Josh *(Cold Spring Harbor, USA)*

10:10 **EARLY INTEGRATION OF NKX2-1 INTERNEURONS PREDICT THE FORMATION OF THE CANONICAL NEOCORTICAL CIRCUIT** 2312
S. Butt, P. Anastasiades, A. Marques-Smith, D. Lyngholm *(Oxford, United Kingdom)*

10:30 **IMAGING THE FUNCTION OF EARLY BORN GABAERGIC NEURONS IN SHAPING SPATIAL REPRESENTATION IN THE ADULT MOUSE HIPPOCAMPUS IN VIVO** 2313
R. Cossart *(Marseille, France)*

10:50 **ON THE ASSEMBLY OF GABAERGIC CIRCUITS: NEUREGULINS AND ERBB4 FUNCTION** 2314
B. Rico *(Sant Joan D'Alacant, Spain)*

9:45 - 11:15 **Hall F**

SYMPOSIUM:
S34: MicroRNAs in brain development and function

Chair: H. Cremer *(France)* 2315

9:50 **ROLE OF MICRORNA IN MURINE NEUROGENESIS** 2316
D. De Pietri Tonelli *(Genova, Italy)*

10:10 **MICRORNA FUNCTION IN POSTNATAL FOREBRAIN NEUROGENESIS** 2317
H. Cremer *(Marseille, France)*

10:30 **DYNAMIC CONTROL OF THE NEURAL PROGENITOR STATE BY MICRORNA-9** 2318
L. Bally-Cuif *(Gif-Sur-Yvette, France)*

10:50 **MICRORNA FUNCTION IN SYNAPSE DEVELOPMENT AND PLASTICITY** 2319
G. Schratt *(Marburg, Germany)*

9:45 - 11:15 **Hall C**

SYMPOSIUM:
S35: Protein shuttling in synapse-to-nucleus signalling.

Chair: M. Kreutz *(Germany)* 2320

9:50 **SIGNALING FROM SYNAPSE TO NUCLEUS DURING NEURONAL PLASTICITY** 2321
K. Martin, T.H. Ch'ng, M. DeSalvo, T.J. O'Dell *(Los Angeles, USA)*

10:10 **LONG-HAUL TRANSPORT OF PROTEIN COMPLEXES FROM NMDA-RECEPTORS TO THE NUCLEUS** 2322
M. Kreutz *(Magdeburg, Germany)*

10:30 **CYTONUCLEAR SIGNALLING IN STRIATAL NEURONS** 2323
J. Girault *(Paris, France)*

10:50 **RHOGTPASE OLIGOPHRENIN-1 REGULATES THE SHUTTLING OF REV-ERBA FROM NUCLEUS TO SYNAPSE** 2324
M. Passafaro *(Milan, Italy)*

9:45 - 11:15 **Hall J**

SYMPOSIUM:
S36: Adult cortical plasticity.

Chair: H. Lee *(USA)* 2325

9:50 **COMPARISON OF CRITICAL PERIOD AND ADULT CORTICAL PLASTICITY MECHANISMS IN THE VISUAL CORTEX** 2326
F. Sengpiel *(Cardiff, United Kingdom)*

10:10 **SYNAPTIC MECHANISMS OF CROSS-MODAL PLASTICITY IN ADULTS** 2327
H. Lee *(Baltimore, USA)*

10:30 **REJUVENATING THE ADULT CORTEX TO RECOVER VISION** 2328
E. Quinlan *(USA, College Park)*

10:50 **ENVIRONMENTAL ENRICHMENT AND ENVIROMIMETICS: IMPACT ON VISUAL CORTEX PLASTICITY** 2329
A. Sale *(Pisa, Italy)*

9:45 - 11:15 **Hall I**

SYMPOSIUM:
S37: Deciphering the physiology and function of hippocampal area CA2

Chairs: T.J. McHugh *(Japan)* 2330
V. Chevaleyre *(France)* 2331

9:50 **NEW INSIGHTS INTO THE REGULATION OF SYNAPTIC PLASTICITY FROM AN UNEXPECTED PLACE: HIPPOCAMPAL CA2** 2332
S. Dudek *(Research Triangle Park, USA)*

10:10 **CA2: A SHORT-CIRCUIT OF THE HIPPOCAMPAL-ENTORHINAL LOOP?** 2333
C.G. Kentros *(Trondheim, Norway)*

10:30 **A FUNCTIONAL INVESTIGATION OF THE SUPRAMAMMILLARY PROJECTION INTO AREA CA2** 2334
R. Piskorowski *(Paris, France)*

10:50 **MAPPING AND REMAPPING IN CA2** 2335
T. McHugh *(Wako-Shi, Japan)*

9:45 - 11:15 **Hall G**

SYMPOSIUM:
S38: Cell and gene therapy approaches in retinal degenerations.

Chairs: J.A. Sahel *(France)* 2336
J. Bennett *(USA)* 2337

9:50 **CORRECTIVE GENE THERAPY IN RETINAL DEGENERATIONS, TRANSLATIONAL ISSUES** 2338
J. Bennett *(Philadelphia, USA)*

10:10 **CONE PHOTORECEPTOR PROTECTION AND REACTICATION IN ROD-CONE DYSTROPHIES** 2339
J. Sahel *(Paris, France)*

10:30 **CELL REPLACEMENT THERAPY FOR RETINAL PIGMENT EPITHELIUM DISEASES** 2340
M. Humayun, D. Hinton, D.O. Clegg *(Los Angeles, USA)*

10:50 **GENE THERAPY OF CHOROIDEREMIA AND PROGENITOR CELL THERAPY IN ADVANCED RETINAL DEGENERATIONS** 2341
R. Mac Laren *(Oxford, United Kingdom)*

9:45 - 11:15 **Hall B**

SYMPOSIUM:
S39: Coding others' behaviour in the monkey primary motor and premotor cortex.

Chairs: L. Fogassi *(Italy)* 2342
P.F. Ferrari *(Italy)* 2343

9:50 **DISTINCTION BETWEEN OWN AND OTHER'S GRASPING HAND IN THE VENTRAL PREMOTOR CORTEX** 2344
M. Maranesi, A. Livi, L. Fogassi, G. Rizzolatti, L. Bonini *(Parma, Italy)*

10:10 **PROBING THE NEURAL CODE OF SELF AND OTHER'S ACTIONS IN THE MACAQUE MEDIAL FRONTAL CORTEX** 2345
M. Isoda *(Higashi-Osaka, Japan)*

10:30 **OBSERVATIONS ON F5 MIRROR NEURONS SUGGESTING A ROLE IN RESPONSE SELECTION** 2346
P. Thier *(Tübingen, Germany)*

10:50 **CORTICOSPINAL MIRROR NEURONS AND THEIR ROLE IN MOVEMENT SUPPRESSION DURING ACTION OBSERVATION** 2347
A. Kraskov, R. Philipp, S. Waldert, G. Vigneswaran, M.M. Quallo, R.N. Lemon *(London, United Kingdom)*

9:45 - 11:15 **Hall H**

SYMPOSIUM:
S40: Pharmacological and optogenetic control of cognition.

Chairs: S. Knafo *(Spain)* 2348
T. Bussey *(United Kingdom)* 2349

9:50 **MOLECULAR RESCUE OF SYNAPTIC AND COGNITIVE FUNCTION IN ALZHEIMER'S MODELS** 2350
S. Knafo *(Barakaldo Bizkaia, Spain)*

10:10 **PHARMACOLOGICAL CONTROL OF COGNITION USING TOUCHSCREEN TECHNOLOGY** 2351
T. Bussey *(Cambridge, United Kingdom)*

10:30 **OPTOGENETIC DECONSTRUCTION OF DYNAMIC RETRIEVAL STRATEGIES FOR REMOTE MEMORIES** 2352
I. Goshen *(Jerusalem, Israel)*

10:50 **DISSECTING NEURAL CIRCUITS UNDERLYING LEARNING AND WORKING MEMORY** 2353
I. Witten *(New Jersey, USA)*

12:30 - 14:00 **Hall J**

SPECIAL LECTURE:
SL06: Foundation IPSEN / Neuronal Plasticity Prize

Introducer: Y. Christen *(France)* 2354

Introducer: N. Logothetis *(Germany)* 2355

12:30 **NEURAL PLASTICITY, MALADAPTIVE LEARNING AND MEMORY IN ADDICTION: IMPLICATIONS FOR RELAPSE PREVENTION AND ABSTINENCE** 2356

B. J. Everitt *(Cambridge, United Kingdom)*

13:00 **NEUROPLASTICITY IN THE BRAIN STRESS SYSTEMS IN ADDICTION** 2357

G. F. Koob *(La Jolla, USA)*

13:30 **TRANSITION TO ADDICTION: A ROLE FOR INTRINSIC INDIVIDUAL VULNERABILITIES** 2358

M. Le Moal *(Bordeaux, France)*

13:00 - 13:45 **Hall C**

SPECIAL LECTURE:
SL07: IBRO - Kemali Prize

Introducer: P. Magistretti *(Switzerland)* 2359

MITOCHONDRIAL AND PRESYNAPTIC DYSFUNCTION IN PARKINSON'S DISEASE 2360

P. Verstreken *(Leuven, Belgium)*

13:00 - 13:45 **Hall B**

SPECIAL LECTURE:
SL08: Eric Kandel Prize Lecture

Introducer: T. Movshon *(USA)* 2361

NEURAL DYNAMICS IN VISUAL CORTEX DURING LEARNING 2362

S. Hofer *(Basel, Switzerland)*

15:45 - 17:15 **Hall H**

SYMPOSIUM:
S41: Axon guidance and targeting of retinal ganglion cells.

Chairs: A. Rebsam *(France)* 2363

C.A. Mason *(USA)* 2364

15:50 **GROWTH PROMOTING MOLECULES IMPORTANT FOR OPTIC PATHWAY DEVELOPMENT** 2365

L. Erskine, F. Bruce, S. Brown, P. Fuerst *(Aberdeen, United Kingdom)*

16:10 **SHH/BOC SIGNALING ROLE IN THE ESTABLISHMENT OF THE IPSILATERAL- RETINAL GANGLION CELL PROJECTIONS IN THE MOUSE RETINA** 2366

P. Bovolenta *(Madrid, Spain)*

16:30 **PLASTIC MECHANISMS DURING THE RETINOTOPIC TARGETING OF RETINAL GANGLION CELL AXONS** 2367

R. Hindges, N.A. Maiorano *(London, United Kingdom)*

16:50 **MECHANISMS CONTROLLING RETINAL AXON ORGANIZATION TO AND WITHIN THEIR TARGET** 2368

A. Rebsam, A. Assali, M. Bennis, P. Kaeser, T.C. Sudhof, P. Gaspar *(Paris, France)*

15:45 - 17:15 **Hall F**

SYMPOSIUM:
S42: Regional diversity of endocannabinoid signaling in action control.

Chair: J.F. Cheer *(USA)* 2369

15:50 **CANNABINOID RECEPTORS CONTROL THE NEURAL TIMING FUNCTIONS OF SUBSECOND DOPAMINE RELEASE IN REWARD SEEKING** 2370
J. Cheer, E.B. Oleson *(Baltimore, USA)*

16:10 **ENDOCANNABINOID-DEPENDENT SYNAPTIC PLASTICITY IN STRIATUM: ROLES IN ACTION LEARNING** 2371
D. Lovinger, C.M. Gremel, R.M. Costa *(Bethesda, USA)*

16:30 **METAPLASTICITY OF CORTICOSTRIATAL ENDOCANNABINOID SIGNALING IN HABIT LEARNING** 2372
R. Tonini, A. Cavaccini, M. Trusel, B. Greco *(Genova, Italy)*

16:50 **CB1 RECEPTORS ON STRIATAL DIRECT-PATHWAY NEURONS AND NETWORK SYNCHRONY IN THE CORTICO-BASAL GANGLIA-THALAMOCORTICAL LOOP** 2373
D. Robbe *(Marseille, France)*

15:45 - 17:15 **Hall C**

SYMPOSIUM:
S43: Cortical inhibition in single-neuron computations, network activities and sensory processing.

Chair: A. Bacci *(France)* 2374

15:50 **ACTIVITY DEPENDENT REGULATION OF HIPPOCAMPAL INHIBITORY MICROCIRCUITS** 2375
S. Remy *(Bonn, Germany)*

16:10 **LONG-TERM PLASTICITY OF CORTICAL GABAERGIC SYNAPSES** 2376
A. Bacci *(Paris, France)*

16:30 **FUNCTIONAL ROLE OF FAST-SPIKING INTERNEURONS IN RHYTHMIC ACTIVITY PATTERNS IN CORTICAL CIRCUITS AND IN COGNITIVE FUNCTIONS** 2377
M. Bartos *(Freiburg, Germany)*

16:50 **PROBING THE ROLES OF INHIBITION IN THE VISUAL CORTEX** 2378
M. Carandini *(London, United Kingdom)*

15:45 - 17:15 **Hall E**

SYMPOSIUM:
S44: Variance and Invariants in functional connectivity.

Chair: N.E. Ziv *(Israel)* 2379

15:50 **STRUCTURAL INVARIANTS IN DYNAMIC SYNAPSE POPULATIONS** 2380
N. Ziv *(Haifa, Israel)*

16:10 **FUNCTIONAL INVARIANTS IN UNCONSTRAINED NETWORKS** 2381
S. Marom *(Haifa, Israel)*

16:30 **NEURONAL ACTIVATION PATTERNS IN MOUSE NEOCORTEX: VARIABLE OR INVARIANT?** 2382
F. Helmchen *(Zurich, Switzerland)*

16:50 **AVALANCHE INVARIANTS IN THE PRIMATE BRAIN** 2383
D. Plenz *(Bethesda, USA)*

15:45 - 17:15 **Hall I**

SYMPOSIUM:
S45: Interaction of genes and environment as risk factors for mental illness.

Chairs: E. Binder *(Germany)* 2384
H. Song *(USA)* 2385

15:50 **NEURONAL ACTIVITY-INDUCED ACTIVE DNA MODIFICATIONS IN NEURONS AND THEIR ROLE IN AUTISM SPRECTRUM DISORDER (ASD)** 2386
H. Song *(Baltimore, USA)*

16:10 **GENETIC MODERATOR OF THE FIRST MOLECULAR RESPONSE TO STRESS - RISK AND PROTECTIVE FACTORS FOR THE DEVELOPMENT OF STRESS-RELATED PSYCHIATRIC DISORDERS** 2387
E. Binder *(Munich, Germany)*

16:30 **IDENTIFYING NEW TARGETS FOR PTSD USING TRANSLATIONAL APPROACHES** 2388
K.J. Ressler *(Atlanta, USA)*

16:50 **NEURAL MECHANISMS OF GENE-ENVIRONMENT INTERACTIONS IN HUMANS: THE ROLE OF EPIGENETICS AND SOCIAL STRESSORS** 2389
A. Meyer-Lindenberg *(Mannheim, Germany)*

15:45 - 17:15 **Hall J**

SYMPOSIUM:
S46: Axonal transport: basic mechanisms and its pathogenetic role in brain diseases.

Chairs: G. Schiavo *(United Kingdom)* 2390
M. Caleo *(Italy)* 2391

15:50 **CONTROLLING AXONAL TRANSPORT: NEW REGULATORY MECHANISMS FOR SYNAPTIC VESICLE TRAFFICKING** 2392
C.C. Hoogenraad *(Utrecht, The Netherlands)*

16:10 **INITIATION AND REGULATION OF AXONAL TRANSPORT: MECHANISMS OF MOTOR ENGAGEMENT AND MOTOR COORDINATION** 2393
E. Holzbaur *(Philadelphia, USA)*

16:30 **HUNTINGTIN: AXONAL TRANSPORT, NEUROTROPHIN SIGNALING AND ENERGY SUPPLY** 2394
F. Saudou *(Orsay, France)*

16:50 **AXONAL RETROGRADE TRANSPORT: A MAIN GATEWAY IN THE CNS FOR PATHOGENS AND GROWTH FACTORS** 2395
G. Schiavo *(London, United Kingdom)*

15:45 - 17:15 **Hall G**

SYMPOSIUM:
S47: What does cross-modal plasticity tell us about the way the senses interact during development?

Chairs: A.J. King *(United Kingdom)* 2396
J.P. Rauschecker *(USA)* 2397

15:50 **CROSS-MODAL PLASTICITY AND FUNCTIONAL SPECIALIZATION IN THE "VISUAL" CORTEX OF EARLY BLIND HUMANS** 2398
L. Renier, A.G. De Volder, J.P. Rauschecker *(Brussels, Belgium)*

16:10 **CROSS-MODAL PLASTICITY LEADS TO ENHANCED INFORMATION PROCESSING IN THE AUDITORY CORTEX** 2399
P. Kanold *(College Park, USA)*

16:30 **PRESERVED FUNCTIONAL SPECIALIZATION IN THE VISUAL CORTEX OF THE CONGENITALLY BLIND** 2400
E. Striem-Amit, L. Reich, O. Dakwar, L. Cohen, S. Dehaene, A. Amedi *(Jerusalem, Israel)*

16:50 **THE ROLE OF MULTI-SENSORY INTERACTIONS IN SENSORY CALIBRATION** 2401
M. Gori, T. Vercillo, G. Sandini, E. Cocchi, D. Burr *(Genoa, Italy)*

15:45 - 17:15 **Hall D**

SYMPOSIUM:
S48: The integration of spatial maps across cortical areas.

Chair: S. Leutgeb *(USA)* 2402

15:50 **MEMBRANE POTENTIAL DYNAMICS OF SPATIALLY-MODULATED CELLS DURING VIRTUAL NAVIGATION** 2403
D.W. Tank *(Princeton, USA)*

16:10 **THE FUNCTIONAL ORGANIZATION OF MEDIAL ENTORHINAL CIRCUITS** 2404
L. Giocomo *(Stanford, USA)*

16:30 **VISUAL CORTEX INTEGRATES VISUAL MOTION AND LOCOMOTION DURING NAVIGATION** 2405
K. Harris, M. Carandini, K.J. Jeffery, A. Ayaz, A.B. Saleem *(London, United Kingdom)*

16:50 **EFFECTS OF MANIPULATING THE OSCILLATORY COUPLING BETWEEN HIPPOCAMPUS AND ENTORHINAL CORTEX ON SPATIAL MAPS** 2406
S. Leutgeb, M.P. Brandon, M.I. Schlesiger, J.K. Leutgeb *(La Jolla, USA)*

17:30 - 18:30 **Hall A**

PLENARY LECTURE:
PL07: Plenary Lecture

Introducer: B. Roska *(Switzerland)* 2407

SELF-ORGANIZATION OF NEURAL STRUCTURES AND PATTERNS IN 3D STEM CELL CULTURE 2408
Y. Sasai *(Kobe, Japan)*

18:45 - 21:15 **Hall F**

SPECIAL INTEREST EVENT:
SiE07: Global Advocacy Event

18:45 **WELCOME** 2409
Panelist: **M. Joëls** *(The Netherlands)*

18:50 **GLOBAL ADVOCACY** 2410
Panelist: **S. Grillner** *(Sweden)*

18:55 **ADVOCACY ACROSS BORDERS: SUPPORT FOR GLOBAL EFFORTS IN COMMUNICATING ABOUT THE BRAIN** 2411
Panelist: **M. Miller** *(USA)*

19:00 **COST OF BRAIN DISEASE** 2412
Panelist: **M. Di Luca** *(Italy)*

19:05 **FUNDING RESEARCH IN NEUROSCIENCE: AVAILABLE INSTRUMENT FOR BRAIN RESEARCH WITH HORIZON** 2020
TBC

19:20 **SPAIN STANDS UP FOR NEUROSCIENCE!** 2413
M. Dierssen *(Spain)*

19:35 **NEUROSCIENCE SUMMIT: DRIVING THE AGENDA FOR RESEARCH INTO BRAIN DISEASES** 2414
E. Snell *(United Kingdom)*

19:50 **BREAK AND POSTER VIEWING** 2415

20:15 **SUCCESSFUL STRATEGIES FOR ADVOCACY - THE AUSTRALIAN EXPERIENCE** 2416
J. Rostas *(Australia)*

20:30 **WAYS AND MEANS TO AN IMPROVED COOPERATION BETWEEN PATIENTS, RESEARCHERS AND MD'S AND THE PHARMACEUTICAL INDUSTRY** 2417
R. Pochet *(Belgium)*

20:45 **DISCUSSION** 2418

18:45 - 21:00 **Hall G**

SPECIAL INTEREST EVENT:
SiE08: New perspectives and training for education in Neuroscience

18:45	**WELCOME AND NENS OVERVIEW** F. de Castro *(Spain)*	2419
18:52	**HOW TO APPLY FOR JOINING NENS** L. Kristiansen *(Belgium)*	2420
18:57	**PERSPECTIVE: WHY AND WHAT IS CHET ABOUT? THE CAJAL EUROPEAN TRAINING PROGRAMME** M. Witter *(Norway)*	2421
19:06	**BORDEAUX TRAINING SITE** C. Mulle *(France)*	2422
19:11	**ERA-NET NEURON** E. Raulo *(Finland)*	2423
19:20	**Q & A**	2424
19:30	**CLOSED SESSION (BY INVITATION ONLY): NENS SCHOOLS DIRECTORS/COORDINATORS**	2425

18:45 - 21:00 **Hall D**

NETWORKING EVENT:
Next generation networks in neuroscience

18:45 - 20:00 **Hall H**

NETWORKING EVENT:
Starting your independent research career - Learn what Germany can do for you

18:45 - 20:30 **Hall E**

NETWORKING EVENT:
Educational Course on: Manuscript and Grant Writing, effective Poster or Talk preparation

9th FENS FORUM OF NEUROSCIENCE

Milan | Italy July 5 – 9, 2014

Organised by the Federation of European Neuroscience Societies | FENS

Hosted by the Società Italiana di Neuroscienze | SINS

11:15 - 13:15

POSTER PRESENTATION V

Tuesday, 8th July

www.fens.org/2014

FENS Federation of European Neuroscience Societies

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A18: AXON AND DENDRITE DEVELOPMENT - AXON GROWTH AND GUIDANCE

A001 **TUE 8/7/2014, 11:15 - FENS-2931**
STOCHASTIC MODEL OF INTERACTIONS AND VARIABILITY IN GROWTH CONE NAVIGATION 2426
M. Garnelo, A. Faisal *(London, United Kingdom)*

A002 **TUE 8/7/2014, 12:15 - FENS-3424**
GENETIC EVIDENCE THAT EPHA4 SHEDDING IS REQUIRED FOR SPINAL MOTOR NEURON GUIDANCE 2427
G. Gatto, R. Klein *(Martinsried, Germany)*

A003 **TUE 8/7/2014, 11:15 - FENS-1598**
TARGETTING PTEN AND ASSOCIATED SIGNALLING NETWORKS IN AXONOGENESIS 2428
P. Goni-Oliver, M. Krause, B.J. Eickholt *(Berlin, Germany)*

A004 **TUE 8/7/2014, 12:15 - FENS-2494**
LONG-TERM MONITORING OF ACTION POTENTIAL PROPAGATION IN AXONS GROWING INSIDE MICROTUNNELS 2429
R. Habibey, A. Golabchi, M. Cerino, F. Difato, M. Nanni, F. Succol, A. Blau *(Genoa, Italy)*

A005 **TUE 8/7/2014, 11:15 - FENS-3741**
AXONAL MIRNA MIR-181 FAMILY: ROLE IN AXON GUIDANCE IN VIVO 2430
A. Iyer, A. Bellon, P. Sarkies, E. Miska, G. Abreu, C.E. Holt, M.L. Baudet *(Trento, Italy)*

A006 **TUE 8/7/2014, 12:15 - FENS-0947**
REGULATION OF RETINAL AXON GROWTH BY SECRETED VAX1 HOMEODOMAIN PROTEIN 2431
N.S. Kim, K.H. Kang, E.J. Lee, K.W. Min, S.H. Lee, J. Kim *(Daejeon, Korea)*

A007 **TUE 8/7/2014, 11:15 - FENS-3720**
REGULATION OF NCAM PALMITOYLATION THROUGH DHHC3 PHOSPHORYLATION BY SPECIFIC TYROSINE KINASES 2432
T. Kuznetsova, P.M. Lievens, E. Ponimaskin, A. Dityatev *(Genova, Italy)*

A008 **TUE 8/7/2014, 12:15 - FENS-3161**
EXPRESSION OF TENASCIN C IN THE SUBPLATE ZONE OF HUMAN TELENCEPHALON DURING PRENATAL DEVELOPMENT 2433
L. Lukic, O. Colovic, D. Petrovic, Z. Krsnik, I. Kostovic, N. Jovanov Milosevic *(Zagreb, Croatia)*

A009 **TUE 8/7/2014, 11:15 - FENS-0118**
THREE-DIMENSIONAL NEURONAL CULTURE TECHNIQUE THAT CONTROLS THE DIRECTION OF NEURITE ELONGATION AND THE POSITION OF SOMA TO MIMIC THE BRAIN 2434
A. Odawara, M. Gotoh, I. Suzuki *(Tokyo, Japan)*

A010 **TUE 8/7/2014, 12:15 - FENS-1775**
GROWTH CONE LOCALIZATION OF THE MRNA ENCODING AN EPIGENETIC REGULATOR MODULATES NEURITE OUTGROWTH 2435
F. Moretti, C. Rolando, M. Winker, O. Pertz *(Basel, Switzerland)*

A011 **TUE 8/7/2014, 11:15 - FENS-1452**
THE EFFECTS OF SYNAPSIN III ON CORTICAL NEURON MATURATION ARE PHOSPHORYLATION-DEPENDENT 2436
A. Piccini, L. Perlini, L. Cancedda, S. Giovedì, F. Benfenati *(Genoa, Italy)*

A012 **TUE 8/7/2014, 12:15 - FENS-1858**
THE ROLE OF NEGR1 IN CORTICAL DEVELOPMENT VIA NCAM1-FGFR2 SIGNALING 2437
F. Pischedda, J. Szczurkowska, M.D. Cirnaru, F. Giesert, M.K.E. Schaefer, L. Cancedda, G. Piccoli *(Milan, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A013 **TUE 8/7/2014, 11:15 - FENS-1208**
THE MECHANISMS UNDERLYING THE MODULATION OF AXON ELONGATION BY ADENOSINE A2A RECEPTORS 2438
A. Ribeiro, T. Santos, M. Sousa, A.M. Sebastião *(Lisbon, Portugal)*

A014 **TUE 8/7/2014, 12:15 - FENS-1952**
TAU REGULATES EB1/3 LOCALIZATION AND FUNCTION IN DEVELOPING NEURONAL CELLS 2439
L. Sayas, E. Tortosa, F. Bollati, S. Ramírez-Ríos, I. Arnal, J. Ávila *(San Cristóbal de La Laguna, Spain)*

A015 **TUE 8/7/2014, 11:15 - FENS-2060**
CHARACTERIZATION OF ENTORHINAL-HIPPOCAMPAL CONNECTIVITY, BEHAVIOR, AND SEIZURE SUSCEPTIBILITY IN NEGR1-DEFICIENT MICE 2440
M. Schaefer, D. Loreth, B. Pöttker, K. Schwald, O. Kretz, K. Radyushkin, C.A. Haas, B. Heimrich *(Mainz, Germany)*

A016 **TUE 8/7/2014, 12:15 - FENS-2127**
AXON GUIDANCE ALONG CAUDAL DIENCEPHALON: EXPRESSION PATTERN OF GUIDANCE CUES TOWARDS THE FORMATION OF THE POSTERIOR COMMISSURE 2441
K. Stanic, M. Gonzalez, H. Montecinos, T. Caprile *(Concepcion, Chile)*

A017 **TUE 8/7/2014, 11:15 - FENS-3013**
TYROSINE KINASE ACK1 IS INVOLVED IN NEURONAL EXTENSION AND BRANCHING 2442
J. Urena, M.M. Masdeu, A. La Torre, T. Cotrufo, R.S. Moubarak, J.A. Del Rio, J.X. Comella, E. Soriano *(Barcelona, Spain)*

A018 **TUE 8/7/2014, 12:15 - FENS-2594**
A NOVEL ROLE FOR CYTOSKELETAL-ASSOCIATED PROTEINS IN LOCAL PROTEIN SYNTHESIS 2443
M. Vidaki, F.D. Frauke Drees, F.G. Frank Gertler *(Cambridge, USA)*

A019 **TUE 8/7/2014, 11:15 - FENS-2838**
ASSEMBLY OF A COMPLEX AMONG PAN-NEUROTROPHINS RECEPTOR P75NTR AND 100 KDA SPLICE FORM OF MPAR3: THE PRECURSOR TO AXON INITIATION 2444
B. Vignoli, E. Zuccaro, M. Bergami, S. Santi, M. Canossa *(Rome, Italy)*

A020 **TUE 8/7/2014, 12:15 - FENS-3323**
AMIGO REGULATES DEVELOPMENT OF NEURAL CIRCUITS IN ZEBRAFISH BRAIN 2445
X. Zhao, P. Panula, H. Rauvala *(Helsinki, Finland)*

A19: AXON AND DENDRITE DEVELOPMENT - DENDRITIC GROWTH AND BRANCHING

A021 **TUE 8/7/2014, 11:15 - FENS-0223**
MMP-3 DEFICIENT MICE DISPLAY AN ABERRANT NEURONAL ARCHITECTURE AND LACK EXPERIENCE-DEPENDENT PLASTICITY IN THE VISUAL CORTEX 2446
J. Aerts, J. Nys, L. Moons, T.T. Hu, L. Archens *(Leuven, Belgium)*

A022 **TUE 8/7/2014, 12:15 - FENS-0320**
DENSITY AND DISTRIBUTION OF DENDRITIC SPINES IN NEOCORTICAL PYRAMIDAL NEURONS OF RATS EXPOSED TO ALCOHOL DURING THE FIRST POSTNATAL WEEK 2447
A. De Giorgio, D. De Donatis, A. Granato *(San Vittore Olona, Italy)*

A023 **TUE 8/7/2014, 11:15 - FENS-0861**
A COMPUTATIONAL FRAMEWORK TO STUDY THE INFLUENCE OF MICROSCOPIC INTERACTIONS ON NEURONAL MORPHOLOGY AND MICROCIRCUITS 2448
E. De Schutter, B. Torben-Nielsen *(Onna-son, Japan)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A024 **TUE 8/7/2014, 12:15 - FENS-0433**

THE FUNCTION OF DENDRITES IN DROSOPHILA WING MOTONEURONS 2449

C. Duch, D. Kadas, K. Hutchinson, N. Schützler, S. Ryglewski *(Mainz, Germany)*

A025 **TUE 8/7/2014, 11:15 - FENS-2018**

5-HT6 RECEPTORS PHOSPHORYLATED BY ASSOCIATED CDK5 CONSTITUTIVELY PROMOTE NEURITE GROWTH THROUGH CDC42 SIGNALING 2450

F. Duhr, M. Séveno, F. Raynaud, C. Mannoury la Cour, D. Dupuis, M.J. Millan, J. Bockaert, P. Marin, S. Chaumont-Dubel *(Montpellier, France)*

A026 **TUE 8/7/2014, 12:15 - FENS-3230**

INTENSIVE PERINATAL DENDRITIC GROWTH ON LARGE PYRAMIDAL NEURONS IN THE HUMAN PREFRONTAL CORTEX SHOWS LAYER SPECIFIC PATTERN 2451

A. Hladnik, M. Vuksic, S. Darmopil, H.B.M. Uylings, I. Kostovic, Z. Petanjek *(Zagreb, Croatia)*

A027 **TUE 8/7/2014, 11:15 - FENS-2571**

THE ROLE OF ZNF179-MEDIATED REGULATION OF UBIQUITIN-PROTEASOME SYSTEM IN NEURON DEVELOPMENT 2452

C.C. Huang, C.Y. Lai, W.C. Chang *(Taipei, Taiwan)*

A028 **TUE 8/7/2014, 12:15 - FENS-2335**

THE ROLE OF TYPE-II TARPS FOR POSTNATAL DEVELOPMENT OF DENDRITIC ARCHITECTURE OF NEOCORTICAL NEURONS 2453

A. Jack, M.I.K. Hamad, M. Hollmann, P. Wahle *(Bochum, Germany)*

A029 **TUE 8/7/2014, 11:15 - FENS-0679**

REGULATORY ROLE OF PERINEURONAL NETS AND SEMAPHORIN3A IN THE DEVELOPMENTAL MATURATION OF THE CENTRAL VESTIBULAR CIRCUITRY 2454

P. Kwan, C.W. Ma, Y.S. Chan, D.K.Y. Shum *(Hong Kong, China)*

A20: DEVELOPMENT OF NEURAL SYSTEMS - OTHER NEURAL SYSTEMS

A030 **TUE 8/7/2014, 11:15 - FENS-3446**

POSTNATAL CHRONIC CLONIDINE TREATMENT EFFECTS ON OXYGEN CONSUMPTION AND ELECTROPHYSIOLOGICAL RECORDINGS (EMG, EKG) IN MICE 2455

S. Prieto-Soler, L. Riquelme-Domínguez, E. Domínguez-del-Toro. *(Sevilla, Spain)*

A031 **TUE 8/7/2014, 12:15 - FENS-3083**

STRUCTURAL ASYMMETRIES IN THE SHARK HABENULA: INVOLVEMENT OF CELL DEATH AND CELL PROLIFERATION 2456

N. Sánchez Farías, I. Rodríguez-Modes, S. Mazan, E. Candal *(Santiago de Compostela, Spain)*

A032 **TUE 8/7/2014, 11:15 - FENS-2094**

MORPHOLOGICAL AND STRUCTURAL DIFFERENCES BETWEEN THE TEETH OF WILD-TYPE AND PACAP-DEFICIENT MICE 2457

B. Sandor, K. Fintor, P. Kiss, A. Jungling, P. Nagy, Z. Helyes, A. Nagy, D. Reglodi, A. Tamas *(Pecs, Hungary)*

A033 **TUE 8/7/2014, 12:15 - FENS-1604**

UNRAVELING THE DEVELOPING SYNAPTIC NEUROPIL OF THE MOUSE DORSAL RAPHE NUCLEUS USING ARRAY TOMOGRAPHY 2458

M. Soiza-Reilly, P. Gaspar *(Paris, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A034 **TUE 8/7/2014, 11:15 - FENS-2607**

THE BRAIN DEVELOPMENT AND PERINEURONAL NETS (PNNS) FORMATION IN THE MICE LACKING IN CHODROITIN SULFATE-SYNTHESIZING ENZYMES 2459

K. Takeuchi *(Nagakute, Japan)*

A035 **TUE 8/7/2014, 12:15 - FENS-3378**

EFFECTS OF CLOZAPINE ADMINISTRATION IN EXPRESSION OF GLUTATHIONE, MALONDIALDEHYDE, MICROGLIAL ACTIVATION, AND INOS IN MODEL DESENVELOPMENTAL OF SCHIZOPHRENIA 2460

B. Teles, E. Dias Cristino, A. Teles De Menezes, M. Santos Do Carmo, A. Santos Monte, F. Clea Florenço De Sousa, V. Celia Moreira Borella, G. Coelho De Souza, M. Lima Vale, D. Silveira Macedo *(Fortaleza, Brazil)*

A036 **TUE 8/7/2014, 11:15 - FENS-3711**

PURIFICATION AND PRIMARY CULTURE OF GABAERGIC INTERNEURONS OBTAINED BY FLUORESCENT ACTIVATED CELL (FAC) SORTING 2461

P. Turko, J. Song, I. Vida *(Berlin, Germany)*

A037 **TUE 8/7/2014, 12:15 - FENS-1456**

INVESTIGATING THE ROLE OF THE IMMUNOGLOBULIN SUPERFAMILY MEMBER EWI-3 DURING CEREBELLAR DEVELOPMENT 2462

A. Usardi, A. Dusonchet, K. Iyer, M. Talleur, F. Selimi *(Paris, France)*

A21: TRANSPLANTATION AND REGENERATION - REGENERATION

A038 **TUE 8/7/2014, 12:15 - FENS-3364**

IN VIVO PHENOTYPIC AND FUNCTIONAL STABILITY OF INDUCED DOPAMINERGIC NEURONS AND CHEMO-GENETIC ENHANCEMENT OF THEIR THERAPEUTIC POTENTIAL 2463

M. Caiazzo, M.T. Dell'Anno, D. Leo, E. Dvoretskova, L. Medrihan, S. Giannelli, I. Theka, G. Colasante, G. Russo, L. Mus, G. Pezzoli, R.R. Gainetdinov, F. Benfenati, S. Taverna, A. Dityatev, V. Broccoli *(Milan, Italy)*

A039 **TUE 8/7/2014, 11:15 - FENS-1240**

INTRANASAL MSC ADMINISTRATION BOOSTS THE REGENERATIVE CAPACITY OF THE NEONATAL BRAIN FOLLOWING HYPOXIA-ISCHEMIA 2464

V. Donegá, C.H. Nijboer, A. Kavelaars, C.J. Heijnen *(Utrecht, The Netherlands)*

A040 **TUE 8/7/2014, 12:15 - FENS-3022**

ENHANCEMENT OF MÜLLER GLIA REGENERATIVE FEATURES: HOW TO IMPLEMENT PROLIFERATION WITHOUT IMPARING DIFFERENTIATION INTO PHOTORECEPTORS 2465

S. Giannelli, V. Broccoli *(Milan, Italy)*

A041 **TUE 8/7/2014, 11:15 - FENS-0992**

DEVELOPMENT AND POTENTIAL OF SPINAL CORD STEM CELLS 2466

N. Guérout, X. Li, K. Fernandes, F. Barnabé-Heider *(Stockholm, Sweden)*

A042 **TUE 8/7/2014, 12:15 - FENS-1726**

DOPAMINERGIC MODULATION OF STRIATAL INJURY AND ITS MAPPING USING IN VIVO MRI IN SONGBIRDS 2467

K. Lukacova, E. Bosikova, L. Baciak, S. Kasparova, L. Niederova- Kubikova *(Ivanka pri Dunaji, Slovakia)*

A043 **TUE 8/7/2014, 11:15 - FENS-3014**

IN SILICO MODELING OF SCHWANN CELL - FIBROBLASTS INTERACTIONS IN PERIPHERAL NERVE REGENERATION 2468

A. Whitby, S. Parrinello, A. Faisal *(London, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A044 **TUE 8/7/2014, 12:15 - FENS-2416**

ACETYLCHOLINESTERASE EXPRESSION DURING ARM REGENERATION AND DEVELOPMENT IN THE MOLLUSK OCTOPUS VULGARIS: INDICATIONS FOR A 'NON-CLASSICAL' ROLE 2469

L. Zullo, S.M. Fossati, M.T. Noedl, L. Maragliano, S. Candiani, F. Benfenati *(Genoa, Italy)*

A045 **TUE 8/7/2014, 11:15 - FENS-1040**

DYNAMICS OF CHONDROITIN SULFOTRANSFERASE EXPRESSION FOR CRANIAL MOTOR NEURON MIGRATION IN RAT HINDBRAIN DEVELOPMENT 2470

M. Wong, M. Li, Y.S. Chan, D.K.Y. Shum *(Hong Kong, China)*

A046 **TUE 8/7/2014, 12:15 - FENS-1372**

RAC-GTPASES ARE INTRACELLULAR MEDIATORS OF CORTICAL GABAERGIC INTERNEURON DEVELOPMENT 2471

S. Tivodar, K. Kalemaki, Z. Kounoupa, M. Vidaki, K. Theodorakis, M. Denaxa, N. Kessaris, I. DeCurtis, V. Pachnis, D. Karagogeos *(Heraklion, Greece)*

A047 **TUE 8/7/2014, 11:15 - FENS-2942**

P140CAP CONTROLS MICE FERTILITY ACTING ON GNRH SYSTEM 2472

I. Russo, I. Cimino, D. Repetto, P. Giacobini, E. Turco, P. Defilippi *(Torino, Italy)*

B34: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - MONOAMINES

B001 **TUE 8/7/2014, 11:15 - FENS-2136**

SEROTONIN-INDUCED INHIBITION OF EXCITATORY TRANSMISSION ONTO CHOLINERGIC NEURONS IN THE RAT BASAL FOREBRAIN 2473

T. Momiyama, T. Nishijo *(Tokyo, Japan)*

B002 **TUE 8/7/2014, 12:15 - FENS-2119**

SURVIVAL OF NEWLY GENERATED CELLS IN THE ADULT MOUSE HIPPOCAMPUS IS ALTERED BY MANIPULATING SEROTONIN TRANSMISSION 2474

V. Mosienko, M. Bader, N. Alenina, F. Klempin *(Berlin, Germany)*

B003 **TUE 8/7/2014, 11:15 - FENS-3718**

CATECHOLAMINE DEPLETION INFLUENCES NEURAL PROCESSING OF MONETARY INCENTIVES IN SUBJECTS REMITTED FROM BULIMIA NERVOSA 2475

S. Mueller, M. Hauf, K. Jann, A. Federspiel, G. Hasler *(Bern, Switzerland)*

B004 **TUE 8/7/2014, 12:15 - FENS-2974**

EFFECT OF NORADRENERGIC DENERVATION ON ALPHA2 ADRENOCEPTOR BINDING IN RAT BRAIN IN VIVO 2476

J. Phan, A. Landau, S. Jakobsen, M. Romero-Ramos, A. Gjedde *(Aarhus, Denmark)*

B005 **TUE 8/7/2014, 11:15 - FENS-0957**

MODULATION OF GABAERGIC AND GLYCINERGIC TRANSMISSION BY NORADRENALINE IN THE DORSAL SPINAL CORD 2477

F. Seibt, R. Schlichter *(Strasbourg, France)*

B006 **TUE 8/7/2014, 12:15 - FENS-3079**

EFFECTS OF PRETREATMENT WITH PENTOXIFYLLINE ON CONCENTRATIONS OF MONOAMINES IN STRIATUM OF RATS UNDERGOING INDUCED CONVULSION PILOCARPINE 2478

R. Siqueira, A.L.C. Cavalcante, I.B.F. Calou, E.B.F. Calou, M.J.P. Lopes, B.S. Alexandre, G.S. Cerqueira, K.R.T. Neves, G.M.P. Cruz, G.S.B. Viana *(Fortaleza, Brazil)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B007 **TUE 8/7/2014, 11:15 - FENS-3266**

DIFFERENTIAL EFFECTS OF SEROTONIN AND NITRIC OXIDE ON THE INTRINSIC CELLULAR PROPERTIES OF DISTINCT POPULATIONS OF CULTURED CORTICAL NEURONS 2479

V. Straub, R.R. Bammann, N. Hartell *(Leicester, United Kingdom)*

B008 **TUE 8/7/2014, 12:15 - FENS-1754**

DOPAMINE D1 AND D3 RECEPTOR HETERODIMERS: MOLECULAR AND FUNCTIONAL PROPERTIES 2480

P. Tallarico, F. Longhena, R. Kumar, C. Busi, C. Fiorentini, C. Missale *(Brescia, Italy)*

B009 **TUE 8/7/2014, 11:15 - FENS-2379**

OLCEGEPANT POTENTIATES ASTROCYTE-MEDIATED NORADRENALINE RELEASE IN THE LOCUS COERULEUS 2481

A. Teschemacher, S. Lane, E. Roloff, S. Kasparov, K. Messlinger *(Bristol, United Kingdom)*

B010 **TUE 8/7/2014, 12:15 - FENS-2849**

CONTROL OF MOTOR CORTICAL LOCAL NETWORK FOLLOWING DOPAMINE D2 RECEPTOR ACTIVATION IN MICE 2482

C. Vitrac, S. Péron, I. Frappé, P.O. Fernagut, M. Jaber, A. Gaillard, M. Benoit-Marand *(Poitiers, France)*

B011 **TUE 8/7/2014, 11:15 - FENS-2425**

INDEPENDENT ROLES OF DISTINCT TYPES OF ADRENOCEPTORS IN SYNAPTIC MODULATION OF NETWORK ACTIVITY IN THE CENTRAL NUCLEUS OF AMYGDALA 2483

S. Yamamoto, Y. Takahashi, A.M. Watabe, F. Kato *(Tsukuba, Japan)*

B012 **TUE 8/7/2014, 12:15 - FENS-2148**

EXCHANGE PROTEIN DIRECTLY ACTIVATED BY CYCLIC AMP 2 (EPAC2)-DEFICIENT MICE WITH ANXIETY AND DEPRESSION SHOW DEFECT IN SEROTONERGIC SYSTEM AND NEUROGENESIS 2484

L. Zhou, K.K. Yeung, K.W. Tsim, S.K. Chung *(Hong Kong, Hong Kong China)*

B35: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - NEUROTROPHINS AND OTHER GROWTH FACTORS

B013 **TUE 8/7/2014, 11:15 - FENS-1771**

ROS AND RYANODINE RECEPTOR-MEDIATED CA2+ SIGNALS ARE KEY COMPONENTS OF BDNF-INDUCED SYNAPTIC PLASTICITY 2485

T. Adasme, A.C. Paula-Lima, C. Hidalgo *(Santiago, Chile)*

B014 **TUE 8/7/2014, 12:15 - FENS-2987**

REGULATION OF DENDRITIC TRAFFICKING OF BRAIN-DERIVED NEUROTROPHIC FACTOR MRNA 2486

A. Colliva, A. Vicario, A. Ratti, L. Davidovic, G. Baj, L. Gricman, V. Silani, A. Pallavicini, K. Jones, B. Bardoni, E. Tongiorgi *(Trieste, Italy)*

B015 **TUE 8/7/2014, 11:15 - FENS-1349**

VISUALIZING THE TRANSPORT OF PRONGF AND NGF IN NEURONS THROUGH AN INNOVATIVE SITE-SPECIFIC LABELLING STRATEGY 2487

T. De Nadai, L. Marchetti, G. Signore, C. Di Rienzo, M. Calvello, A. Viegi, S. Luin, F. Beltram, A. Cattaneo *(Pisa, Italy)*

B016 **TUE 8/7/2014, 12:15 - FENS-2208**

IMPACT OF IN VIVO CHRONIC BLOCKADE OF ADENOSINE A2A RECEPTORS ON THE BDNF-MEDIATED FACILITATION OF LTP 2488

M. Diogenes, A. Jerónimo-Santos, V.L. Batalha, C.E. Müller, Y. Baqi, L.V. Lopes, A.M. Sebastião *(Lisboa, Portugal)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B017 **TUE 8/7/2014, 11:15 - FENS-1250**
ADENOSINE RECEPTORS AS NEW PHARMACOLOGUCAL TARGETS FOR RETT SYNDROM TREATMENT 2489
A. Duarte, C. Palminha, T.M. Rodrigues, S. Ferreira, A. Garcia-Cazorla, A.M. Sebastiao, M.J. Diogenes *(Lisbon, Portugal)*

B018 **TUE 8/7/2014, 12:15 - FENS-2231**
KNOCKDOWN OF CAPS1 IMPAIRS NEUROTROPHIN RELEASE AND THE PH OF SECRETORY GRANULES IN HIPPOCAMPAL NEURONS 2490
R. Eckenstaler, T. Munsch, T. Brigadski, V. Leßmann *(Magdeburg, Germany)*

B019 **TUE 8/7/2014, 11:15 - FENS-0824**
PRE VERSUS POSTSYNAPTIC RESPONSES TO APPLICATION OF RECOMBINANT BDNF 2491
C. Gilbride, C. Dean *(Goettingen, Germany)*

B020 **TUE 8/7/2014, 12:15 - FENS-0958**
GLOBAL BDNF DEPLETION INFLUENCES NEURONAL ARCHITECTURE IN A CELL-TYPE SPECIFIC MANNER 2492
N. Goedecke, A. Remus, M. Zagrebelsky, M. Korte *(Braunschweig, Germany)*

B021 **TUE 8/7/2014, 11:15 - FENS-2022**
TRANSFORMING GROWTH FACTOR BETA 2 (TGF-ß2) DISTRIBUTION IN HIPPOCAMPAL NEURONS 2493
D. Grassi, K. Krieglstein *(Freiburg, Italy)*

B022 **TUE 8/7/2014, 12:15 - FENS-1982**
RELEASE OF BDNF FROM DISSOCIATED HIPPOCAMPAL NEURONS BY ELECTRICALLY INDUCED ACTIVITY IS ALTERED BY THE SECOND MESSENGER CAMP 2494
P. Lichtenecker, T. Brigadski, V. Leßmann *(Magdeburg, Germany)*

B023 **TUE 8/7/2014, 11:15 - FENS-1850**
BIASED SIGNALING REGULATES THE PLEIOTROPIC EFFECTS OF THE UROTENSIN II RECEPTOR TO MODULATE ITS CELLULAR BEHAVIORS 2495
L. Prézeau, C. Brulé, N. Perzo, J.E. Joubert, X. Sainsily, R. Leduc, H. Castel *(Montpellier, France)*

B024 **TUE 8/7/2014, 12:15 - FENS-3220**
PHARMACOLOGICAL PROFILE OF BDNF SPLICE VARIANTS TRANSLATION USING A NOVEL DRUG SCREENING ASSAY: A "QUANTITATIVE CODE" 2496
E. Tongiorgi, A. Polacchini, G. Baj, V. Pinhero, A. Vicario, V. Vaghi *(Trieste, Italy)*

B025 **TUE 8/7/2014, 11:15 - FENS-2921**
NEUROTROPHIC FACTORS (BDNF, GDNF) MODIFY THE FUNCTIONAL NEURAL ACTIVITY AND SYNTHESIS OF THE PROTEIN P50 DURING HYPOXIA IN VITRO 2497
M. Vedunova, T. Sakharnova, E. Mitroshina, T. Shishkina, I. Mukhina *(Nizhny Novgorod, Russia)*

B36: LIGAND GATED ION CHANNELS - GLUTAMATE RECEPTORS

B026 **TUE 8/7/2014, 12:15 - FENS-1868**
MUTATIONS WITHIN THE EXTRACELLULAR VESTIBULE OF NMDA RECEPTOR CHANNEL: IMPLICATIONS FOR THE INHIBITORY EFFECT OF STEROIDS AND RECEPTOR CHANNEL FUNCTION 2498
B. Krausova, V. Vyklicky, A. Balik, J. Cerny, M. Kainakova, M. Horak, M. Korinek, H. Chodounska, L. Vyklicky *(Prague, Czech Republic)*

B027 **TUE 8/7/2014, 11:15 - FENS-3595**
EFFECT OF PARTIAL AGONISTS AT THE CO-AGONIST SITE ON EVOKED NMDA RECEPTOR RESPONSES IN THE ENTORHINAL CORTEX 2499
A. Lench, P.V. Massey, R.S.G. Jones *(Bath, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B028 **TUE 8/7/2014, 12:15 - FENS-3764**
GLURDELTA2 (GLUD2) GATING IS TRIGGERED BY SUBTYPE 1 METABOTROPIC GLUTAMATE RECEPTORS MGLUR1 2500
C. Levenes, V. Ady, J. Perroy, L. Tricoire, C. Piochon, S. Dadak, I. Dusart, L. Fagni, B. Lambolez *(Paris, France)*

B029 **TUE 8/7/2014, 11:15 - FENS-1758**
STRUCTURAL DETERMINANTS REGULATING THE SURFACE DELIVERY OF NMDA RECEPTORS 2501
K. Lichnerova, M. Horak, M. Kaniakova *(Prague, Czech Republic)*

B030 **TUE 8/7/2014, 12:15 - FENS-0671**
CALCIUM-PERMEABLE AMPA RECEPTORS ARE EXPRESSED IN CORTICAL PYRAMIDAL NEURONS IN A RODENT MODEL OF STATUS EPILEPTICUS 2502
S. Malkin, K. Kim, L. Magazanik, A. Zaitsev *(Saint Petersburg, Russia)*

B031 **TUE 8/7/2014, 11:15 - FENS-2530**
ZINC TRANSPORTER-1: A NOVEL INTERACTOR PROTEIN REGULATING NMDA RECEPTOR FUNCTION? 2503
M. Mellone, A.A. Gennazzani, P.L. Canonico, M. Di Luca, F. Gardoni *(Milano, Italy)*

B032 **TUE 8/7/2014, 12:15 - FENS-3341**
SECRETED AMYLOID PRECURSOR PROTEIN ALPHA EXHIBITS LIMITED REGULATION OF HIPPOCAMPAL NMDAR COMPOSITION IN A MOUSE MODEL OF ALZHEIMER'S DISEASE 2504
B. Mockett, S.M. Ohline, K. Bourne, W.P. Tate, W.C. Abraham, J.M. Williams *(Dunedin, New Zealand)*

B033 **TUE 8/7/2014, 11:15 - FENS-3200**
AMBIENT GLUTAMATE - A TOOL TO DISSECT SYNAPTIC AND EXTRASYNAPTIC NMDA RECEPTOR POPULATIONS IN ACUTE HIPPOCAMPAL SLICES OF THE RAT 2505
A. Moldavski, H. Bading, C.P. Bengtson *(Frankfurt, Germany)*

B034 **TUE 8/7/2014, 12:15 - FENS-2224**
TSPAN5 PROTEIN IN THE BRAIN: A NEW REGULATOR OF AMPARS TRAFFICKING 2506
E. Moretto, J. Zapata, M. Passafaro *(Milano, Italy)*

B035 **TUE 8/7/2014, 11:15 - FENS-0663**
EMBRYONIC NMDA RECEPTOR BLOCKADE SELECTIVELY INCREASES NR2B FUNCTION AND ENHANCES HIPPOCAMPAL LTP IN JUVENILE RAT 2507
W. Ren, L. Cheng, X. Liu, L. Peng, Y. Wang *(Shanghai, China)*

B036 **TUE 8/7/2014, 12:15 - FENS-1328**
PHARMACOLOGICAL CHARACTERIZATION OF GLUTAMATERGIC NEUROTRANSMISSION IN HUMAN INDUCED PLURIPOTENT STEM CELL- DERIVED NEURONS 2508
J. Rosner, S. Horschitz, W. Greffrath, R.D. Treede, J. Utikal, P. Schloss, A. Meyer-Lindenberg *(Mannheim, Germany)*

B037 **TUE 8/7/2014, 11:15 - FENS-2453**
AMPA RECEPTOR MODULATORY PROTEIN SHISA 9 REGULATES SYNAPTIC AND NETWORK PROPERTIES 2509
M. Ruiperez Alonso, A. Karataeva, R. Klaassen, J. Stroeder, J. Hjorth, S. Spijker, A.B. Smit, H.D. Mansvelder *(Amsterdam, The Netherlands)*

B038 **TUE 8/7/2014, 12:15 - FENS-0763**
THE EXTRACELLULAR MATRIX AFFECTS SURFACE EXPRESSION OF GLUN2B CONTAINING NMDA RECEPTORS 2510
B. Schweitzer, L. Groc, M. Heine, R. Frischknecht *(Magdeburg, Germany)*

B039 **TUE 8/7/2014, 11:15 - FENS-2790**
SUBUNIT-SPECIFIC MODULATION OF NMDA RECEPTOR TRAFFICKING BY GLYCINE IN CENTRAL NEURONS 2511
C. Soares, K.F.H. Lee, S. Geddes, R. Bergeron, J.C. Béïque *(Ottawa, Canada)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B040 **TUE 8/7/2014, 12:15 - FENS-1983**
SYNAPTIC AVAILABILITY OF GLUN2A SUBUNIT OF NMDA RECEPTORS: THE ROLE OF RABPHILIN 3A 2512
J. Stanic, M. Carta, E. Zianni, A. Caldarelli, P.L. Canonico, A.A. Genazzani, C. Mulle, M. Di Luca, F. Gardoni *(Milano, Italy)*

B041 **TUE 8/7/2014, 11:15 - FENS-2165**
KAINATE RECEPTOR GLUK2 AND GLUK5 SUBUNITS ARE INVOLVED IN LOCOMOTOR ACTIVITY 2513
I. Watanabe, K. Akashi, M. Abe, R. Natsume, K. Konno, M. Watanabe, K. Sakimura *(Niigata-shi, Japan)*

B042 **TUE 8/7/2014, 12:15 - FENS-1715**
THE NETO2 AUXILIARY SUBUNIT REDUCES THE INTERNALISATION AND DEGRADATION OF GLUK2 PORE FORMING SUBUNIT-CONTAINING KAINATE RECEPTORS 2514
G. Whitehead, D.E. Jane, E. Molnar *(Bristol, United Kingdom)*

B37: LIGAND GATED ION CHANNELS - GLYCINE RECEPTORS

B043 **TUE 8/7/2014, 11:15 - FENS-2823**
PRESENCE OF ETHANOL SENSITIVE GLYCINE RECEPTORS IN THE NUCLEUS ACCUMBENS OF BL6/C57 MICE 2515
B. Förstera, B. Muñoz, P. Murath, L.G. Aguayo *(Concepción, Chile)*

B044 **TUE 8/7/2014, 12:15 - FENS-0447**
SELECTIVE MODULATION OF GLYCINE RECEPTORS BY GINKGOLIC ACID 2516
G. Malieieva, S. Buldakova, P. Bregestovski *(Kyiv, Ukraine)*

B045 **TUE 8/7/2014, 11:15 - FENS-1237**
GLYCINE RECEPTORS IN THE RODENT STRIATUM 2517
S. Molchanova, D. Gall, S.N. Schiffmann *(Brussels, Belgium)*

B046 **TUE 8/7/2014, 12:15 - FENS-0914**
PKA-DEPENDENT REGULATION OF GLYRA3 ISOFORMS USING SUPER-RESOLUTION MICROSCOPY 2518
A. Patrizio, C. Specht, A. Triller *(Paris, France)*

B047 **TUE 8/7/2014, 11:15 - FENS-1003**
MECHANISMS OF KCC2-MEDIATED NEUROPROTECTION 2519
M. Semtner, A. Winkelmann, J.C. Meier *(Berlin, Germany)*

B048 **TUE 8/7/2014, 12:15 - FENS-0265**
THE EFFECTS OF EXTRACELLULAR CYCLIC AMP AND CYCLIC GMP ON GLYCINE-ACTIVATED CHLORIDE CURRENT 2520
E. Solntseva, J. Bukanova *(Moscow, Russia)*

B049 **TUE 8/7/2014, 11:15 - FENS-2718**
MUTATION N46K IN THE GLYCINE RECEPTOR ALPHA1 SUBUNIT AFFECTS LIGAND BINDING IN MURINE STARTLE MUTANT NMF11 2521
M. Wilkins, A. Caley, M. Gielen, R.J. Harvey, T.G. Smart *(London, United Kingdom)*

B050 **TUE 8/7/2014, 12:15 - FENS-0350**
CHANGES IN NEURAL NETWORK HOMEOSTASIS TRIGGER NEUROPSYCHIATRIC SYMPTOMS 2522
A. Winkelmann, N. Maggio, J. Eller, G. Caliskan, M. Semtner, U. Häussler, R. Jüttner, T. Dugladze, B. Smolinsky, S. Kowalczyk, E. Chronowska, G. Schwarz, F.G. Rathjen, G. Rechavi, C.A. Haas, A. Kulik, T. Gloveli, U. Heinemann, J.C. Meier *(Berlin, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B38: SYNAPSES - PRESYNAPTIC STRUCTURES

B051 **TUE 8/7/2014, 11:15 - FENS-2442**
A POINT MUTATION ABOLISHES THE TARGETING OF MOVER TO PRESYNAPTIC TERMINALS 2523
A. Akula, S. Ahmed, T. Ghelani, C. Dean, T. Dresbach *(Gottingen, Germany)*

B052 **TUE 8/7/2014, 12:15 - FENS-3248**
COMPUTER SIMULATIONS OF ZINC MOBILIZATION IN HIPPOCAMPAL MOSSY FIBER SYNAPSES 2524
F. Bastos, F.D.S. Sampaio dos Aidos, J.C. Dionisio, C.M. Matias, R.M. Quinta-Ferreira, P.J. Mendes, M.E. Quinta-Ferreira *(Coimbra, Portugal)*

B053 **TUE 8/7/2014, 11:15 - FENS-1410**
EXPRESSION OF PRESYNAPTIC METABOTROPIC GLUTAMATE RECEPTORS AND GABAB IN NEOCORTICAL TERMINALS 2525
L. Bragina, S. Bassi *(Ancona, Italy)*

B054 **TUE 8/7/2014, 12:15 - FENS-1412**
GLUTAMATE AND GABA CO-RELEASE IN CORTICAL AXON TERMINALS 2526
G. Fattorini, F. Antonucci, E. Menna, M. Matteoli, F. Conti *(Ancona, Italy)*

B055 **TUE 8/7/2014, 11:15 - FENS-1942**
REGULATION OF PROTEASOME BY PRESYNAPTIC SCAFFOLDS BASSOON AND PICCOLO 2527
S. Fienko, D. Sanchez-Matarredona, E. Pina, A. Fejova *(Magdeburg, Germany)*

B056 **TUE 8/7/2014, 12:15 - FENS-3517**
HIGH RESOLUTION ANALYSIS OF PRESYNAPTIC PROTEIN LOCALIZATIONS IN THE PARALLEL FIBER-PURKINJE CELL SYNAPSES 2528
H. Harada, K. Beppu, K. Matsui, R. Shigemoto *(Klosterneuburg, Austria)*

B057 **TUE 8/7/2014, 11:15 - FENS-2948**
RELEASE PROBABILITY AND RECYCLING OF SYNAPTIC VESICLES AT INDIVIDUAL ACTIVE ZONES 2529
C. Hollmann, A.M. Walter, E. Reynolds, F.W. Johenning, S.J. Sigrist *(Berlin, Germany)*

B058 **TUE 8/7/2014, 12:15 - FENS-1658**
NEURONAL ACTIVITY CONTROLS SYNAPTO-NUCLEAR DISTRIBUTION AND TRANSCRIPTIONAL FUNCTION OF CTBP1 2530
D. Ivanova, A.D. Dirks, C.M. Montenegro, D.S. Schanze, E.G. Gundelfinger, A.F. Fejtova *(Magdeburg, Germany)*

B059 **TUE 8/7/2014, 11:15 - FENS-0372**
DETERMINATION OF THE ACTIVITY DEPENDENT BULK ENDOCYTOSIS PROTEOME 2531
A. Kokotos, M.A. Cousin *(Edinburgh, United Kingdom)*

B060 **TUE 8/7/2014, 12:15 - FENS-3279**
BEHAVIORAL RESPONSES OF DROSOPHILA MELANOGASTER LINES CARRYING SNAP25 OR SYNTAXIN POINT MUTATIONS 2532
A. Megighian, M.A. Zordan, O. Rossetto, M. Rigoni, M. Scorzeto *(Padova, Italy)*

B061 **TUE 8/7/2014, 11:15 - FENS-2657**
FUNCTIONAL ROLE OF THE ATP-BINDING SITE OF SYNAPSIN I IN SYNAPTIC VESICLE TRAFFICKING AND RELEASE DYNAMICS 2533
M. Orlando, G. Lignani, L. Maragliano, S. Giovedi`, A. Fassio, P. Baldelli, F. Benfenati *(Genova, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B062 **TUE 8/7/2014, 12:15 - FENS-0660**

ENDOSOME-MEDIATED SLOW ENDOCYTOSIS DRIVES A MAJORITY OF SYNAPTIC VESICLES IN A MATURE CNS SYNAPSES DURING HIGH NEURONAL ACTIVITY 2534

J. Park, S. Chang *(Seoul, Korea)*

B063 **TUE 8/7/2014, 11:15 - FENS-2496**

SPHINGOSINE-1-PHOSPHATE (S1P) IMPACTS PRESYNAPTIC FUNCTION BY REGULATING SYNAPSIN I LOCALIZATION IN THE PRESYNAPTIC COMPARTMENT 2535

L. Riganti, M. Gabrielli, F. Antonucci, E. Menna, P. Giussani, P. Viani, M. Matteoli, C. Verderio *(Milano, Italy)*

B064 **TUE 8/7/2014, 12:15 - FENS-0806**

PHOSPHORYLATION OF SYNAPSIN I BY CYCLIN-DEPENDENT KINASE-5 REGULATES SYNAPTIC VESICLE SPATIAL DISTRIBUTION AND RECRUITMENT TO RECYCLING POOL AT HIPPOCAMPAL SYNAPSES 2536

E. Tagliatti, A. Verstegen, G. Lignani, A. Marte, A. Corradi, F. Valtorta, D. Gitler, F. Onofri, A. Fassio, F. Benfenati *(Genova, Italy)*

B065 **TUE 8/7/2014, 11:15 - FENS-0985**

AMYLOID PRECURSOR PROTEIN KNOCKOUT DIMINISHES SYNAPTIC VESICLE PROTEINS AT THE PRESYNAPTIC ACTIVE ZONE IN MOUSE BRAIN 2537

W. Volknandt, J. Weingarten, A. Acker-Palmer, S.M. Bajjalieh, U. Müller, M. Laßek *(Frankfurt, Germany)*

B066 **TUE 8/7/2014, 12:15 - FENS-0661**

A SELECTIVE ROLE FOR SCAMP5 IN SYNAPTIC VESICLE ENDOCYTOSIS DURING HIGH NEURONAL ACTIVITY 2538

H. Zhao, S. Chang *(Seoul, Korea)*

B39: SYNAPTIC PLASTICITY - LONG-TERM DEPRESSION (LTD)

B067 **TUE 8/7/2014, 11:15 - FENS-3645**

THE ROLE OF GSK3BETA IN LONG-TERM SYNAPTIC PLASTICITY: A GENETIC AND PHARMACOLOGICAL RE-EVALUATION 2539

T. Ahmed, V. Sabanov, A. Latif-Hernandez, F. Van Leuven, D. Balschun *(Leuven, Belgium)*

B068 **TUE 8/7/2014, 12:15 - FENS-2874**

MGLUR8-INDUCED LONG-TERM DEPRESSION AT THE LATERAL PERFORANT PATH 2540

Z. Bortolotto, M.S. Mercier, G.L. Collingridge, D. Lodge *(Bristol, United Kingdom)*

B069 **TUE 8/7/2014, 11:15 - FENS-2719**

GETTING CLOSER TO THE FUNCTION OF THE POSTSYNAPTIC RECEPTOR SORCS3 IN SYNAPTIC TRANSMISSION AND SYNAPTIC PLASTICITY 2541

G. Christiansen, T. Breiderhoff, A. Nykjær, K. Jensen, T. Willnow, M.M. Holm *(Aarhus, Denmark)*

B070 **TUE 8/7/2014, 12:15 - FENS-0111**

EARLY LIFE STRESS AFFECTS LONG-TERM DEPRESSION IN THE RAT LATERAL AMYGDALA 2542

J. Danielewicz, G. Hess *(Krakow, Poland)*

B071 **TUE 8/7/2014, 11:15 - FENS-2261**

POSTSYNAPTIC PKC ZETA-MEDIATED SUPEROXIDE IS REQUIRED FOR LTD IN THE HIPPOCAMPUS 2543

D. Kim, T.M. Piers, J.H. Yi, M.S. Park, D.J. Whitcomb, K. Cho *(Bristol, United Kingdom)*

B072 **TUE 8/7/2014, 12:15 - FENS-3765**

OPPOSITE DYSREGULATION OF PROTEIN SYNTHESIS AND LTD DOWNSTREAM OF MGLUR5 IN THE FRAGILE X SYNDROME AND TUBEROUS SCLEROSIS MOUSE MODELS 2544

E. Osterweil, B. Auerbach, M.F. Bear *(Edinburgh, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B073 **TUE 8/7/2014, 11:15 - FENS-3085**

IMAGING OF CLATHRIN MEDIATED ENDOCYTOSIS IN NEURONAL DENDRITES 2545

D. Perrais, M. Rosendale, D. Jullié *(Bordeaux, France)*

B074 **TUE 8/7/2014, 12:15 - FENS-1185**

SPECIFIC REQUIREMENT FOR TAU PHOSPHORYLATION IN NMDAR-DEPENDENT LONG-TERM SYNAPTIC DEPRESSION (LTD) IN THE HIPPOCAMPUS 2546

P. Regan, S. Heo, J.H. Yi, T. Piers, D.J. Whitcomb, K. Cho *(Bristol, United Kingdom)*

B075 **TUE 8/7/2014, 11:15 - FENS-1859**

METABOTROPIC GLUTAMATE RECEPTOR AND MUSCARINIC ACETYLCHOLINE RECEPTOR INTERPLAY IN AMYLOID-BETA-MEDIATED PATHOPHYSIOLOGY IN THE PERIRHINAL CORTEX 2547

J. Yi, D. Kim, S. Heo, D. Whitcomb, K. Cho *(Bristol, United Kingdom)*

B40: NETWORK INTERACTIONS - OSCILLATIONS AND SYNCHRONY

B076 **TUE 8/7/2014, 12:15 - FENS-2699**

THE HIPPOCAMPAL NETWORK CAN GENERATE MULTIPLE PATTERNS OF SHARP WAVE-RIPPLE COMPLEXES, IN VITRO 2548

K. Hofer, I. Ulbert, I. Pal, C. Szabo, L. Heja, L. Wittner *(Budapest, Hungary)*

B077 **TUE 8/7/2014, 11:15 - FENS-0553**

BURSTING REVERBERATION IN SMALL AND LARGE NEURAL NETWORKS: ROLE OF SYNAPTIC DYNAMICS 2549

D. Holcman, K. Daoduc, C.Y. Lee, M. Segal, N. Rouach *(Paris, France)*

B078 **TUE 8/7/2014, 12:15 - FENS-1275**

ANALYSIS OF RELATED MOLECULES TO SYNCHRONIZED BURSTS OF RAT CULTURED NEURONAL NETWORKS 2550

D. Ito, K. Gohara *(Sapporo, Japan)*

B079 **TUE 8/7/2014, 11:15 - FENS-3589**

LEARNED SYNAPTIC CONNECTIONS ARE CRITICAL FOR THE GENERATION OF HIPPOCAMPAL SHARP WAVE-RIPPLES AND ASSOCIATED REPLAY 2551

S. Káli, E. Vértes, T.F. Freund, A.I. Gulyás *(Budapest, Hungary)*

B080 **TUE 8/7/2014, 12:15 - FENS-0996**

SLEEP AND MOVEMENT DIFFERENTIATE HIPPOCAMPAL NETWORK OPERATIONS OF TWO TYPES OF SOMATOSTATIN-EXPRESSING GABAERGIC INTERNEURON 2552

L. Katona, D. Lapray, T.J. Viney, A. Oulhaj, Z. Borhegyi, B.R. Micklem, T. Klausberger, P. Somogyi *(Oxford, United Kingdom)*

B081 **TUE 8/7/2014, 11:15 - FENS-0067**

KAINIC ACID IS INVOLVED IN THE PRODUCTION OF THETA OSCILLATIONS IN HIPPOCAMPAL FORMATION IN VITRO 2553

P. Kazmierska, T. Kowalczyk, R. Bocian, J. Konopacki *(Lodz, Poland)*

B082 **TUE 8/7/2014, 12:15 - FENS-3352**

CHOLINERGIC SYSTEM REGULATES OSCILLATORY ACTIVITY OF THE OLFACTORY CENTER IN THE SLUG 2554

S. Kobayashi *(Sanuki, Japan)*

B083 **TUE 8/7/2014, 11:15 - FENS-2708**

DETRENDED FLUCTUATION ANALYSIS REVEALS TEMPORAL PATTERNS OF SPONTANEOUS OSCILLATORY ACTIVITY IN THE OLFACTORY CENTER OF THE LAND SLUG 2555

Y. Komatsuzaki, Y. Tanaka, S. Haga, T. Eto, M. Saito *(Tokyo, Japan)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B084 **TUE 8/7/2014, 12:15 - FENS-0811**

OREXINERGIC MODULATION OF THETA RHYTHM RECORDED IN THE POSTERIOR HYPOTHALAMIC AREA IN VITRO 2556

T. Kowalczyk, B. Caban, R. Bocian, P. Klos-Wojtczak, P. Kazmierska *(Lodz, Poland)*

B085 **TUE 8/7/2014, 11:15 - FENS-0391**

GABAERGIC MECHANISMS OF DISTINCT GAMMA OSCILLATIONS IN THE RODENT HIPPOCAMPUS 2557

B. Lasztoczi, T. Klausberger *(Wien, Austria)*

B086 **TUE 8/7/2014, 12:15 - FENS-1146**

SPATIAL STRUCTURE OF THETA COORDINATION IN EXPERIMENTAL TEMPORAL LOBE EPILEPSY 2558

F. Laurent, J.R. Brotons-Mas, M. Valero, E. Cid, B. Gal, L. Menendez de la Prida *(Madrid, Spain)*

B087 **TUE 8/7/2014, 11:15 - FENS-1534**

CHARACTERIZATION OF HIPPOCAMPAL MICROCIRCUIT STRUCTURE IN FREELY MOVING RATS 2559

D. Lopez-Pigozzi, J.R. Brotons-Mas, B. Gal, F. Laurent, L. Menendez de la Prida *(Madrid, Spain)*

B088 **TUE 8/7/2014, 12:15 - FENS-1568**

SINGLE-CELL DYNAMICS OF HIGH-FREQUENCY OSCILLATIONS IN AN EXPERIMENTAL MODEL OF TEMPORAL LOBE EPILEPSY 2560

M. Valero, J. Aguilar, D. Gómez-Domínguez, E. Bellistri, E. Cid, B. Gal, L. Menéndez de la Prida *(Madrid, Spain)*

B089 **TUE 8/7/2014, 11:15 - FENS-2720**

HOW DOES PACEMAKER NEURONS INFLUENCE NETWORK BURSTS IN NEURONAL CELL NETWORKS DERIVED FROM HUMAN PLURIPOTENT STEM CELLS? 2561

K. Lenk, L. Ylä-Outinen, S. Narkilahti, J.A.K. Hyttinen *(Tampere, Finland)*

B090 **TUE 8/7/2014, 12:15 - FENS-2120**

SYNAPTIC PLASTICITY MAXIMIZES INFORMATION IN RECURRENT NEURAL CIRCUITS 2562

D. Li, A. Bernacchia *(Bremen, Germany)*

B091 **TUE 8/7/2014, 11:15 - FENS-1728**

A COMPUTATIONAL MODEL OF HIPPOCAMPAL NEURONAL NETWORKS: THE ROLE OF CONNECTIVITY IN THE APPEARANCE OF SYNCHRONIZED BURSTING EVENTS 2563

D. Lonardoni, L. Berdondini, T. Nieus *(Genova, Italy)*

B092 **TUE 8/7/2014, 12:15 - FENS-1721**

INVESTIGATING THE INTERPLAY BETWEEN INTRINSIC AND EVOKED ACTIVITIES IN CULTURED NEURONAL NETWORKS BY DIMENSIONAL REDUCTION TECHNIQUES AND HIGH-DENSITY MEAS 2564

T. Nieus, A. Maccione, L. Berdondini *(Genoa, Italy)*

B093 **TUE 8/7/2014, 11:15 - FENS-1367**

COLLATERAL-SPECIFIC PRODUCTION OF LOCAL FIELD POTENTIALS IN THE SCHAFFER-COMMISSURAL SYSTEM: COMPUTATIONAL AND EXPERIMENTAL STUDY 2565

M. Julia, G. Martín-Vázquez, N. Benito, V.A. Makarov, O. Herreras *(Madrid, Spain)*

B094 **TUE 8/7/2014, 12:15 - FENS-2050**

ARE WAVES IN A TIME SEQUENCE ALL THE SAME? INSIGHT ON THE SEMANTIC CONTENT OF SCHAFFER-SPECIFIC BILATERAL GAMMA 2566

O. Herreras, J. Makarova, V.A. Makarov, N. Benito *(Madrid, Spain)*

B095 **TUE 8/7/2014, 11:15 - FENS-0994**

MODULATION OF CA1 INTERNEURONS BY THE NATURAL INPUT FROM THE CA3 REGION 2567

G. Martín Vázquez, O. Herreras *(Madrid, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C36: ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - CELLULAR DYSFUNCTION MECHANISMS

C001 **TUE 8/7/2014, 11:15 - FENS-1461**
DEREGULATION OF PURINE METABOLISM IN ALZHEIMER'S DISEASE 2568
B. Ansoleaga, M. Jové, A. Schlüter, P. Garcia-Esparcia, A. Pujol, R. Pamplona, M. Portero-Otín, I. Ferrer *(Llobregat, Spain)*

C002 **TUE 8/7/2014, 12:15 - FENS-2749**
EFFECTS OF CHF5074, LY450139 OR IBUPROFEN ON GLUTAMATE-INDUCED EXCITOTOXICITY IN TG2576-DERIVED CORTICAL NEURONS. 2569
V.A. Baldassarro, M. Fernández, C. Mangano, L. Ferraro, B.P. Imbimbo, L. Calzà, L. Giardino *(Ozzano Emilia, Italy)*

C003 **TUE 8/7/2014, 11:15 - FENS-3223**
THE ROLE OF PRESENILIN IN THE PRESYNAPTIC MECHANISMS AT HIPPOCAMPAL MOSSY FIBERS REVEALED BY A GRANULE CELL-TARGETED OPTOGENETIC APPROACH 2570
G. Barthet, J. Rumi-Masante, G. Mulle *(Bordeaux, France)*

C004 **TUE 8/7/2014, 12:15 - FENS-2566**
THE REACTIVE GLIAL NET SHAPES THE PROGRESSION OF ALZHEIMER'S DISEASE 2571
D. Bouvier, E.V. Jones, R. Quirion, N. Mechawar, K.K. Murai *(Montreal, Canada)*

C005 **TUE 8/7/2014, 11:15 - FENS-3712**
A SYSTEMS BIOLOGY INVESTIGATION OF NEURODEGENERATIVE DEMENTIA REVEALS A PIVOTAL ROLE OF AUTOPHAGY 2572
L. Caberlotto, T.P. Nguyen *(Rovereto, Italy)*

C006 **TUE 8/7/2014, 12:15 - FENS-3170**
GRANULE NEURON PROLIFERATION IS REDUCED IN THE DEVELOPING CEREBELLUM OF THE NPC1-/- MOUSE, A MODEL OF HUMAN NIEMANN-PICK C1 DISEASE 2573
S. Canterini, G. Palladino, S. Nusca, G. Abate, F. Mangia, R.P. Erickson, M.T. Fiorenza *(Rome, Italy)*

C007 **TUE 8/7/2014, 11:15 - FENS-3399**
MOLECULAR AND PHENOTYPIC IMMUNE-RELATED ALTERATIONS IN MONOCYTES AND MONOCYTE-DERIVED MACROPHAGES OF ALZHEIMER'S DISEASE PATIENTS 2574
A. Cardoso, J. Guedes, I. Santana, C. Cunha, A.M. Cardoso, M.C. Pedroso de Lima *(Coimbra, Portugal)*

C008 **TUE 8/7/2014, 12:15 - FENS-2744**
PROTECTIVE EFFECTS OF KAEMPFEROL FROM PETASITES JAPONICUS AGAINST AMYLOID BETA -INDUCED NEUROTOXICITY AND PREMETURE SENESCENCE IN CELLULAR SYSTEM 2575
E. Cho, Q. Wang, J.M. Choi, A.Y. Lee, H.Y. Kim, S. Lee *(Seoul, Korea)*

C009 **TUE 8/7/2014, 11:15 - FENS-3608**
JNK MEDIATES SYNAPTIC DYSFUNCTION CAUSED BY Aß OLIGOMERS IN ALZHEIMER DISEASE 2576
S. Cimini, A. Sclip, T. Borsello *(Milan, Italy)*

C010 **TUE 8/7/2014, 12:15 - FENS-3213**
NGF MODULATES ADULT HIPPOCAMPAL NEUROGENESIS IN AN ANIMAL MODEL FOR NEURODEGENERATION 2577
V. Corvaglia, R. Scardigli, F. La Regina, R. Brandi, A. Cattaneo *(Pisa, Italy)*

C011 **TUE 8/7/2014, 11:15 - FENS-3367**
AGING BRAIN IN DOWN SYNDROME MOUSE MODELS: LESSONS FROM THE CEREBELLUM? 2578
N. Creau, S. Bennaï, B. Souchet, E. Cabet, A. Duchon, J. Delabar, Y. Herault, F. Daubigney *(Paris, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C012 **TUE 8/7/2014, 12:15 - FENS-0797**

THE DECREASE ON NEURONAL VIABILITY INDUCED BY AMYLOID-BETA IS ASSOCIATED WITH THE DISREGULATION OF THE EXPRESSION OF SYNAPTIC PROTEINS 2579

M. Domínguez-Prieto, A. Velasco, J.M. Medina *(Salamanca, Spain)*

C013 **TUE 8/7/2014, 11:15 - FENS-2200**

REDUCED NMDA/AMPA RATIO IN A GENETIC MODEL OF ALZHEIMER DISEASE: PHARMACOLOGICAL IMPLICATIONS 2580

V. Durante, A. Tozzi, A. Sclip, M. Tantucci, A. De Iure, A. Quiroga-Varela, V. Ghiglieri, C. Costa, C. Spaccatini, T. Borsello, P. Calabresi *(Perugia, Italy)*

C014 **TUE 8/7/2014, 12:15 - FENS-3273**

PROTEIN OXIDATION IN AGING AND ALZHEIMER'S DISEASE 2581

Z. El Hajj, B.M. Riederer *(Lausanne, Switzerland)*

C015 **TUE 8/7/2014, 11:15 - FENS-1177**

HOW CAN STRESS ACCELERATE HIPPOCAMPAL AGING? 2582

A.M. Espinosa-Oliva, A.C. Sánchez-Hidalgo, M.F. Muñoz, A.J. Herrera, A. Ayala, A. Machado, J.L. Venero, R.M. De Pablos *(Sevilla, Spain)*

C016 **TUE 8/7/2014, 12:15 - FENS-1852**

MICROGLIA ACTIVATION IS INCREASED IN PREDIABETIC AND DIABETIC ALZHEIMER´S DISEASE MICE 2583

M. Garcia-Alloza, C. Infante-Garcia, C. Gamero-Carrasco, J.J. Ramos-Rodríguez, A.M. Lechuga-Sancho *(Cádiz, Spain)*

C017 **TUE 8/7/2014, 11:15 - FENS-2093**

NEUROTOXIC EFFECT OF OLIGOMERISED BETA AMYLOIDS (OBA): SUITABILITY AS A PHARMACOLOGICAL SCREENING ASSAY 2584

B. Herberth, B. Mihalik, G. Hámornik, G. Kovács, E. Gosi, B. Markó, S.Z. Udvari, Z.S. Jurányi, A. Pálvölgyi, F. Antoni *(Budapest, Hungary)*

C018 **TUE 8/7/2014, 12:15 - FENS-0614**

PROTEOMIC ANALYSIS OF THE AMYLOID-BINDING ALCOHOL DEHYDROGENASE (ABAD) INTERACTOME AND ITS RESPONSE TO METABOLIC STRESS 2585

A. Herrmann, S. Gordon, T. LeBihan, M.C. McCulloch, T.L. Spires-Jones, M.A. Cousin, J. McCulloch, R.F. Deighton *(Edinburgh, United Kingdom)*

C019 **TUE 8/7/2014, 11:15 - FENS-2711**

SUBCELLULAR LOCALIZATION AND ACTIVITY OF AMP-ACTIVATED PROTEIN KINASE IN NORMAL AGING BRAIN 2586

H. Kim, E. Kim, S.K. Lee, M. Park, W.J. Kim, B.I. Lee *(Seoul, Korea)*

C020 **TUE 8/7/2014, 12:15 - FENS-2645**

STABILITY OF GLUTAMATE CARBOXYPEPTIDASE II IS REGULATED BY ACETYLATION IN HUMAN ASTROCYTES 2587

J. Kim, J. Choi, H. Lee, I. Jo, S. Ahn Jo *(Cheonan, Korea)*

C021 **TUE 8/7/2014, 11:15 - FENS-0536**

CALBINDIN DYSFUNCTION UNDERLIES HYPEREXCITABILITY OF DENTATE GRANULE CELLS AND EPILEPTOGENESIS IN ALZHEIMER MODEL MICE 2588

K. Kim, S. Ryu, S. Lee, S. Jung, D. Jeon, S. Son, S. Kook, I. Mook-Jung, S. Cho, S. Lee, W. Ho *(Seoul, Korea)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C022 **TUE 8/7/2014, 12:15 - FENS-3354**

DYNEIN DYSFUNCTION PERTURBS INTRACELLULAR VESICLE TRAFFICKING AND SYNAPTIC VESICLE DOCKING VIA ENDOCYTIC DISTURBANCES: A POTENTIAL MECHANISM UNDERLYING AGE-DEPENDENT COGNITIVE DYSFUNCTION 2589

N. Kimura, S. Okabayashi, F. Ono *(Aichi, Japan)*

C023 **TUE 8/7/2014, 11:15 - FENS-3277**

ALTERATION IN MITOCHONDRIAL OXIDATIVE PHOSPHORYLATION IN THE HIPPOCAMPUS OF RODENT MODELS OF ALZHEIMER'S DISEASE: ANALYSIS IN INTACT HIPPOCAMPAL SLICES 2590

A. Ledo, C. Dias, R.M. Barbosa, J. Laranjinha *(Coimbra, Portugal)*

C024 **TUE 8/7/2014, 12:15 - FENS-0715**

AMYLOID BETA DEREGULATES ASTROCYTIC CALCIUM SIGNALING AND INDUCES RELEASE OF IL-1BETA FROM ASTROCYTES TO DEGENERATE DENDRITIC SPINES IN HIPPOCAMPAL NEURONS 2591

D. Lim, A.A. Grolla, V. Ronco, A. Iyer, E. Marcello, M. Di Luca, E. Aronica, A.A. Genazzani *(Novara, Italy)*

C025 **TUE 8/7/2014, 11:15 - FENS-0101**

DIPEPTIDYL PEPTIDASE-4 INHIBITOR ATTENUATES AMYLOID BETA-INDUCED NEURONAL INSULIN SIGNALING BLOCKADE 2592

C. Lin, C. Huang, H. Chang, H. Lee *(Taichung City, Taiwan)*

C026 **TUE 8/7/2014, 12:15 - FENS-2061**

ATP-DERIVED ADENOSINE ACTIVATES ADENOSINE A2A RECEPTORS TO CONTROL THE ABETA1-42-INDUCED IMPAIRMENT OF MOUSE HIPPOCAMPAL LTP 2593

J.P. Lopes, H.B. Silva, C.R. Oliveira, P. Agostinho, R.A. Cunha *(Coimbra, Portugal)*

C027 **TUE 8/7/2014, 11:15 - FENS-2031**

EFFECT OF BETA-AMYLOID ON CALCIUM SIGNALLING IN RAT HIPPOCAMPAL NEURONS 2594

E. Lukyanetz, V.V. Chopovska, E.V. Kravenska, E.N. Yavorskaya, V.M. Shkryl *(Kyiv, Ukraine)*

C37: ATAXIAS

C028 **TUE 8/7/2014, 12:15 - FENS-1877**

HOMEODOMAIN INTERACTING PROTEIN KINASE 2, HIPK2, REGULATES THE EXPRESSION OF GABAERGIC NEURONS IN THE CEREBELLUM AND CONTROLS WORKING MEMORY 2595

S. Anzilotti, G. Pignataro, G. Pierantoni, M. Tornincasa, A. Conte, A. Fusco, G. Di Renzo, L. Annunziato *(Naples, Italy)*

C029 **TUE 8/7/2014, 11:15 - FENS-3159**

GENERATION AND CHARACTERIZATION OF A HUMAN NEURONAL MODEL OF SPINOCEREBELLAR ATAXIA TYPE 6 VIA INDUCED PLURIPOTENT STEM CELL DIFFERENTIATION 2596

C. Bavassano, A. Eigentler, S. Boesch, R. Nat, G. Dechant *(Innsbruck, Austria)*

C030 **TUE 8/7/2014, 12:15 - FENS-3567**

POINT MUTATION OF SAC1 CAUSES ATAXIA AND SEIZURES IN MICE 2597

L. Becker, S. Sabrautzky, B. Lorenz-Depiereux, S. Bayer, V. Gailus-Durner, H. Fuchs, M. Hrabê de Angelis, F. Neff *(Munich, Germany)*

C031 **TUE 8/7/2014, 11:15 - FENS-3393**

INTRANASAL TRANSPLANTS OF BONE MARROW STEM CELLS FOR DEALING WITH SELECTIVE NEURODEGENERATION 2598

D. Diaz, A. Esteban, R. Muñoz-Castañeda, J.R. Alonso, E. Weruaga *(Salamanca, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C032 **TUE 8/7/2014, 12:15 - FENS-2996**

PATIENT INDUCED PLURIPOTENT STEM CELL-DERIVED PERIPHERAL SENSORY NEURONS AS A MODEL OF FRIEDREICH ATAXIA 2599

A. Eigentler, S. Boesch, C. Bavassano, G. Dechant, R. Nat *(Innsbruck, Austria)*

C033 **TUE 8/7/2014, 11:15 - FENS-3365**

LIVER GROWTH FACTOR "LGF" UP-REGULATES FRATAXIN PROTEIN EXPRESSION AND REDUCES OXIDATIVE STRESS IN FRIEDREICH'S ATAXIA TRANSGENIC MICE 2600

B. Eulalia, L. Calatrava-Ferreras, D. Reimers Cerdá, R. Gonzalo-Gobernado, A. Sánchez-Herranz, M.J. Casarejos Fernández, J. Perucho, M.T. Montero Vega, A. Jimenez Escrig, J.J. Diaz Gil *(Madrid, Spain)*

C034 **TUE 8/7/2014, 12:15 - FENS-2288**

CELL REPLACEMENT STRATEGIES IN DIFFERENT MODELS OF PURKINJE CELL DEGENERATION 2601

E. Fucà, K. Leto, F. Rossi *(Orbassano, Italy)*

C035 **TUE 8/7/2014, 11:15 - FENS-2953**

PROMOTING THE INTEGRATION OF EXOGENOUS PURKINJE CELL PROGENITORS INTO THE ADULT CEREBELLUM 2602

G. Iaffaldano, A. Franzin, A. Badaloni, L. Croci, K. Leto, E. Fuca', G. Spatola, F. Rossi, G. Consalez *(Milano, Italy)*

C036 **TUE 8/7/2014, 12:15 - FENS-3389**

TREHALOSE REDUCES OXIDATIVE STRESS IN FIBROBLASTS FROM A PATIENT WITH ATAXIA INDUCED BY CHIP DEFICIENCY 2603

J. Perucho, M.J.C. Maria José Casarejos, A.G. Ana Gomez Soria, J.G.Y. Justo Garcia de Yébenes, J.L.S. Jose López-Sendon, M.A.F. Maria Ángeles Fernandez, M.A.M. Maria Ángeles Mena *(Madrid, Spain)*

C037 **TUE 8/7/2014, 11:15 - FENS-3747**

CHARACTERISATION OF A NEURAL STEM CELL POPULATION ISOLATED FROM ADULT MOUSE CEREBELLUM 2604

S. Salih, L.I.S.A. Chakrabarti, V. Sottile *(Nottingham, United Kingdom)*

C038 **TUE 8/7/2014, 12:15 - FENS-1917**

MECHANISMS OF INHIBITION OF PURKINJE CELL DENDRITIC GROWTH IN PKC GAMMA MUTANT TRANSGENIC MICE 2605

E. Shimobayashi, J.P. Kapfhammer *(Basel, Switzerland)*

C039 **TUE 8/7/2014, 11:15 - FENS-2689**

STRUCTURAL INSIGHTS OF HDAC INHIBITORS TOWARDS SPINOCEREBELLAR ATAXIA TYPE 2 2606

S. Sinha, P. Somvanshi *(New Delhi, India)*

C38: MOTOR NEURON DISEASES

C040 **TUE 8/7/2014, 12:15 - FENS-3187**

CLEAVAGE OF VAMP-ASSOCIATED PROTEINS (VAPS): A DIFFERENTIAL IMPLICATION IN SPORADIC AMYOTROPHIC LATERAL SCLEROSIS. 2607

I. Deidda, M. Zerbo, G. Galizzi, M. Marabeti, C. Cascio, T. Colletti, V. La Bella, P. Guarneri *(Palermo, Italy)*

C041 **TUE 8/7/2014, 11:15 - FENS-3512**

TDP43 SUB-CELLULAR DISTRIBUTION IN PBMCS OF SPORADIC ALS 2608

M. Dell'Orco, O. Pansarasa, L. Diamanti, S. Gagliardi, P. Milani, D. Grana, V. Sardone, M. Ceroni, C. Cereda *(Pavia, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C042 **TUE 8/7/2014, 12:15 - FENS-0866**
RNA TOXICITY FROM THE ALS/FTD C9ORF72 EXPANSION IS MITIGATED BY ANTISENSE INTERVENTION 2609
C. Donnelly, K. Zhang, A.R. Heusler, J.T. Pham, F. Rigo, C.F. Bennett, J. Wang, T.E. Lloyd, R. Sattler, J.D. Rothstein *(Baltimore, USA)*

C043 **TUE 8/7/2014, 11:15 - FENS-2129**
ASTROCYTE-DERIVED TGF-BETA1 ACCELERATES DISEASE PROGRESSION IN ALS MICE BY INTERFERING WITH NEUROPROTECTIVE FUNCTIONS OF MICROGLIA AND T CELLS 2610
F. Endo, O. Komine, T. Wyss-Coray, K. Yamanaka *(Nagoya, Japan)*

C044 **TUE 8/7/2014, 12:15 - FENS-2876**
HUMAN IPSC-DERIVED NEURAL STEM CELLS CAN IMPROVE THE PHENOTYPE OF SPINAL MUSCULAR ATROPHY WITH RESPIRATORY DISTRESS TYPE 1 2611
I. Faravelli, C. Zanetta, M. Nizzardo, C. Simone, F. Rizzo, M. Bucchia, S. Corti *(Milan, Italy)*

C045 **TUE 8/7/2014, 11:15 - FENS-1834**
DEVELOPMENT AND CHARACTERIZATION OF A CELLULAR TDP-43 AGGREGATION ASSAY 2612
M. Feiler, J. Weishaupt *(Ulm, Germany)*

C046 **TUE 8/7/2014, 12:15 - FENS-2637**
SERUM SIGNATURES OF NON-CODING RNAS IN AMYOTROPHIC LATERAL SCLEROSIS PATIENTS AND MUTATION CARRIERS 2613
A. Freischmidt, K. Müller, L. Zondler, P. Weydt, A.E. Volk, M. Walter, M. Bonin, B. Mayer, M. Otto, C. Von Arnim, K. Holzmann, P.M. Andersen, A.C. Ludolph, K.M. Danzer, J.H. Weishaupt *(Ulm, Germany)*

C047 **TUE 8/7/2014, 11:15 - FENS-1060**
MONOCYTE SUPTYPES IN ALS 2614
L. Zondler *(Ulm, Germany)*

C048 **TUE 8/7/2014, 12:15 - FENS-3105**
ENHANCING ER STRESS COPING CAPACITIES OF MOTONEURONS IN AMYOTROPHIC LATERAL SCLEROSIS 2615
A. Filezac *(Bern, Switzerland)*

C049 **TUE 8/7/2014, 11:15 - FENS-2193**
MOTOR CORTEX ALTERATIONS IN A MURINE MODEL OF SPINAL MUSCULAR ATROPHY II 2616
C. Filippo, M. Boido, A. Vercelli *(Torino, Italy)*

C050 **TUE 8/7/2014, 12:15 - FENS-0988**
ROLE OF EXTRACELLULAR MATRIX AND MESENCHYMAL STROMAL CELLS IN THE COURSE OF AMYOTROPHIC LATERAL SCLEROSIS 2617
S. Forostyak, J.C.F. Kwok, P. Jendelova, A. Homola, J.W. Fawcett, E. Sykova *(Prague, Czech Republic)*

C051 **TUE 8/7/2014, 11:15 - FENS-1181**
DIFFERENCES IN TROPHIC FACTOR DISTRIBUTION IN ADULT RAT CRANIAL MOTONEURONS 2618
R.G. Hernández, S. Morcuende, S. Silva-Hucha, A.M. Pastor, R.R. De la Cruz, B. Benítez-Temiño *(Seville, Spain)*

C052 **TUE 8/7/2014, 12:15 - FENS-1600**
EXPRESSION OF VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF) AND ITS RECEPTOR FLK-1 IN THE OCULOMOTOR SYSTEM OF THE RAT 2619
S.R. Morcuende Fernández, S. Silva-Hucha, R.G. Hernández, B. Benítez-Temiño, R.R. De la Cruz, A.M. Pastor *(Sevilla, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C053 **TUE 8/7/2014, 11:15 - FENS-2424**

HUMAN FETAL NEURAL STEM CELLS TRANSPLANTATION IN ALS: PRELIMINARY RESULTS OF A PHASE I CLINICAL TRIAL 2620

M. Gelati, L. Mazzini, D.C. Profico, G. Sgaravizzi, M. Projetti-Pensi, G. Muzi, C. Ricciolini, D. Ferrari, C. Zalfa, G. Sorarù, L. Rota Nodari, A.L. Vescovi *(Terni, Italy)*

C054 **TUE 8/7/2014, 12:15 - FENS-0627**

ER-DERIVED INCLUSIONS GENERATED BY ALS-LINKED MUTANT VAPB ARE CLEARED BY CELLS AND DO NOT INTERFERE WITH PROTEOSTASIS OR PROTEIN TRANSPORT 2621

P. Genevini, G. Papiani, F. Navone, N. Borgese *(Milan, Italy)*

C055 **TUE 8/7/2014, 11:15 - FENS-0166**

A DIRECTED GENETIC SCREEN REVEALS LOSS OF RAD23 AS A SUPPRESSOR OF NEURODEGENERATION 2622

A. Jablonski, R. Kalb *(Swarthmore, USA)*

C056 **TUE 8/7/2014, 12:15 - FENS-2482**

UNDERSTANDING THE PATHOGENESIS OF SPINAL MUSCULAR ATROPHY 2623

E. Karyka, K. De Vos, G. Hautbergue, M. Azzouz *(Sheffield, United Kingdom)*

C057 **TUE 8/7/2014, 11:15 - FENS-3650**

HYPEREKPLEXIA ASSOCIATED SINGLE AMINO ACID EXCHANGES: IMPLICATIONS FOR THE INHIBITORY GLYCINE RECEPTOR (GLYR) FOLDING AND ASSEMBLY PROCESS 2624

C. Kluck, N. Schäfer, K.L. Price, K. Schleinkofer, S.C.R. Lummis, S. Schwarzinger, C.M.B. Becker *(Erlangen, Germany)*

C058 **TUE 8/7/2014, 12:15 - FENS-2846**

UNCOUPLING OF MITOCHONDRIAL FUNCTIONS THROUGH THE UCP PROTEINS, INDUCED A LOSS OF BIOENERGETICS HOMEOSTASIS IN A MURINE MODEL OF AMYOTROPHIC LATERAL SCLEROSIS 2625

G. Le Masson, L. Allard, C. Bertot, C. Leger, S. Chevallier, R. Rossignol *(Bordeaux, France)*

C059 **TUE 8/7/2014, 11:15 - FENS-2847**

RESVERATROL IMPROVES MOTONEURON FUNCTION AND EXTENDS SURVIVAL IN SOD1G93A ALS MICE 2626

R. Mancuso, J. Del Valle, L. Mòdol, A. Martinez, A.B. Granado-Serrano, O. Ramirez-Núñez, M. Pallás, M. Portero-Otin, R. Osta, X. Navarro *(Barcelona, Spain)*

C39: DEVELOPMENTAL DISORDERS

C060 **TUE 8/7/2014, 12:15 - FENS-1347**

PROLIDASE DEFICIENCY CAUSES BRAIN DEVELOPMENT ANOMALIES IN 'DAL' MOUSE MODEL: FIRST NEUROLOGICAL STUDY 2627

V. Insolia, V.M. Piccolini, M.G. Bottone, R. Besio, S. Maruelli, A. Forlino, G. Bernocchi *(Pavia, Italy)*

C061 **TUE 8/7/2014, 11:15 - FENS-0646**

THE WAY OF INTERNEURON DISTRIBUTION IN HUMAN NEOCORTEX: LESSON FROM VARIOUS LISSENCEPHALIES 2628

M. Itoh *(Kodaira, Japan)*

C062 **TUE 8/7/2014, 12:15 - FENS-2858**

PRENATAL STRESS ENHANCES PANNEXIN1 CHANNELS ACTIVITY IN BRAIN CORTICAL CELLS OF THE OFFSPRING 2629

J. Saez, P.A. Harcha, J.L. Vega *(Santiago, Chile)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C063 **TUE 8/7/2014, 11:15 - FENS-1356**

TWO MOTOR TESTS FOR CHILDREN WITH SUSPECTED DEVELOPMENTAL COORDINATION DISORDER: A COMPARISON 2630

T. Kakebeeke, K. Egloff, A. Chaouch, J. Caflisch, O.G. Jenni *(Zürich, Switzerland)*

C064 **TUE 8/7/2014, 12:15 - FENS-1268**

MOUSE PUPS' MOTHER CALLS ARE DECREASED BY PATERNAL AGING AND ACCELERATED BY PAX6 HAPLOINSUFFICIENCY 2631

R. Kimura, K. Yoshizaki, H. Inada, V. Tucci, N. Osumi *(Sendai, Japan)*

C065 **TUE 8/7/2014, 11:15 - FENS-1558**

DISRUPTION OF POSTNATAL CEREBELLAR DEVELOPMENT OF TRANSGENIC MICE EXPRESSING DOMINANT-NEGATIVE THYROID HORMONE RECEPTOR IN PURKINJE CELLS 2632

N. Koibuchi, L. Yu, U. Iwasaki, M. Xu, R. Lesmana, N. Shimokawa *(Maebashi-shi, Japan)*

C066 **TUE 8/7/2014, 12:15 - FENS-1705**

SYNAPTIC SYNTHESIS, DEPHOSPHORYLATION AND DEGRADATION: A NOVEL PARADIGM FOR A DEVELOPMENTALLY REGULATED NMDA-DEPENDENT CONTROL OF CDKL5 2633

P. La Montanara, L. Rusconi, A. Locarno, L. Forti, I. Barbiero, C. Chandola, C. Kilstrup-Nielsen, N. Landsberger *(Busto Arsizio, Italy)*

C067 **TUE 8/7/2014, 11:15 - FENS-2472**

AUTISM-LIKE BEHAVIORS FOLLOWING GESTATIONAL CPF EXPOSURE ARE GENOTYPE RELATED: PON1-/- MICE ARE MORE SENSITIVE THAN B6 MICE 2634

A. Lan, O. Kofman, A. Dori *(Tel Aviv, Israel)*

C068 **TUE 8/7/2014, 12:15 - FENS-0889**

PRETERM BRAIN HEMORRHAGE MODEL IN NEONATAL MICE; PROTEOME AND TRANSCRIPTOME STUDY OF MICROVESSELS 2635

P. Leroux, B. Porte, J. Hardouin, Y. Zerdoumi, C. Derambure, C. Chatelain, S. Marret, J.M. Flaman, P. Cosette, B. Gonzalez *(Rouen, France)*

C069 **TUE 8/7/2014, 11:15 - FENS-3621**

MECP2 IN ROSTRAL FOREBRAIN IS REQUIRED FOR LOCOMOTION IN MICE. 2636

W. Liao, F.C. Kao, Y.B. Huang *(Taipei, Taiwan)*

C070 **TUE 8/7/2014, 12:15 - FENS-1577**

CHRONIC NEONATAL ADMINISTRATION OF FLUVOXAMINE DELAYS PHYSICAL DEVELOPMENT IN WHITE RATS PUPS 2637

D. Manchenko, S. Merchieva, N. Glazova, V. Kudrin, N. Levitskaya *(Moscow, Russia)*

C071 **TUE 8/7/2014, 11:15 - FENS-2628**

OVER-INHIBITION OF PREFRONTAL CORTEX LEADS TO EXECUTIVE FUNCTION IMPAIRMENT IN TGDYRK1A, A MOUSE MODEL OF DOWN SYNDROME 2638

M. Martínez de Lagrán, M. Dierssen *(Barcelona, Spain)*

C072 **TUE 8/7/2014, 12:15 - FENS-2534**

PHOTOPERIOD-RELATED BIRTH SEASONALITIES AMONG POWERFUL AMERICAN BASEBALL HITTERS AND MALE AND FEMALE HOMOSEXUALS: MATERNAL MELATONIN MAY AFFECT FETAL SEXUAL DIMORPHISM 2639

G. Marzullo *(New York, USA)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C073 **TUE 8/7/2014, 11:15 - FENS-1271**

NOCICEPTIVE THRESHOLD AND SYNAPTIC ACTIVITY IN THE SOMATOSENSORY CORTEX ARE ALTERED IN A MODEL OF CEREBRAL PALSY 2640

A. Meireles, M.R. Marques, F.S. Stigger, F.V. Piazza, S. Barbosa, O.A. Augustin, E. Segabinazi, M. Achaval, S. Marcuzzo *(Porto Alegre, Brazil)*

C074 **TUE 8/7/2014, 12:15 - FENS-3664**

CELL-SPECIFIC REGULATION OF NMDA RECEPTOR SUBUNIT MATURATION BY MECP2 2641

S.B. Mierau, A. Patrizi, T.K. Hensch, M. Fagiolini *(Cambridge, USA)*

C075 **TUE 8/7/2014, 11:15 - FENS-1279**

INSULIN AND IGF1 MODULATE PSA-NCAM TURNOVER IN A PROCESS INVOLVING SPECIFIC EXTRACELLULAR MATRIX COMPONENTS 2642

H. Monzo, T.I. Park, B.V. Dieriks, D. Jansson, R.L.M. Faull, M. Dragunow, M.A. Curtis *(Auckland, New Zealand)*

C076 **TUE 8/7/2014, 12:15 - FENS-3480**

OLEOYLETHANOLAMIDE ADMINISTRATION ENHANCES PURKINJE CELLS SURVIVAL AND INDUCES MORPHOLOGICAL CHANGES IN THE PCD MUTANT MOUSE 2643

R. Munoz, D. Díaz, J.R. Alonso, E. Weruaga *(Salamanca, Spain)*

C077 **TUE 8/7/2014, 11:15 - FENS-2555**

NEUROINFLAMMMATION IN EXPERIMENTAL PROGRESSIVE HYDROCEPHALUS 2644

F. Olopade, M.T. Shokunbi, A. Andrioli, M. Bentivoglio *(Ibadan, Nigeria)*

C078 **TUE 8/7/2014, 12:15 - FENS-2316**

ALTERED SYNAPTIC PLASTICITY IN A MOUSE MODEL OF GENETIC MENTAL RETARDATION SYNDROME 2645

T. Pascucci, D. Andolina, F.L. De Angelis, F.L. Favarolo, A. De Jaco, S. Puglisi-Allegra *(Rome, Italy)*

C079 **TUE 8/7/2014, 11:15 - FENS-1546**

PHYSIOLOGICAL RESPONSES TO ACUTE NORMOBARIC HYPOXIA IN NEONATAL RATS 2646

I. Sukhanova, E.A. Sebentsova, N.G. Levitskaya, M.U. Vysokikh, N.F. Myasoedov *(Moscow, Russia)*

C080 **TUE 8/7/2014, 12:15 - FENS-2930**

RESTING-STATE EEG OSCILLATORY DYNAMICS IN FRAGILE X SYNDROME: ABNORMAL FUNCTIONAL CONNECTIVITY AND BRAIN NETWORK ORGANIZATION 2647

M. Van der Molen, C.J. Stam, M.W. Van der Molen *(Leiden, The Netherlands)*

C081 **TUE 8/7/2014, 11:15 - FENS-0266**

EARLY LIFE ADVERSITY INDUCES ADULT SLEEP FRAGMENTATION 2648

D. Wilson, M. Saito, R.M. Sullivan *(New York, USA)*

C082 **TUE 8/7/2014, 12:15 - FENS-3418**

AXONAL PATHOLOGIES AND GLIAL ACTIVATION IN THE SPINAL CORD OF NPC1 MUTANT MICE 2649

X. Yan, F. Yang, J. Lukas, M. Witt, A. Wree, A. Rolfs, J. Luo *(Rostock, Germany)*

C083 **TUE 8/7/2014, 11:15 - FENS-1329**

MODELING THE NEUROLOGICAL LESIONS ASSOCIATED WITH TUBEROUS SCLEROSIS COMPLEX BY TARGETING NEURAL STEM CELLS 2650

P. Zordan, M. Cominelli, L. Magri, P.L. Poliani, R. Galli *(Milan, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C40: TRAUMA - SPINAL CORD INJURY AND REGENERATION

C084 **TUE 8/7/2014, 12:15 - FENS-1495**

SPINAL L3-L4 CONTUSION MODEL IN ADULT PIG: A QUALITATIVE AND QUANTITATIVE FUNCTIONAL AND HISTOPATHOLOGICAL CHARACTERIZATION 2651

J. Juhasova, S. Juhas, M. Hruska-Plochan, S. Marsala, N. Lukacova, J. Galik, Z. Tomori, L. Recek, J. Motlik, M. Marsala *(Libechov, Czech Republic)*

C085 **TUE 8/7/2014, 11:15 - FENS-1459**

CELL THERAPY IN RAT SPINAL CORD INJURY - COMPARING THE EFFECTS OF THREE DIFFERENT STEM CELL TYPES 2652

K. Karova, L. Urdzikova-Machova, J. Ruzicka, N. Romanyuk, C. Shannon, T. Amemori, R. Murali, M. Jhanwar-Uniyal, P. Jendelova, E. Sykova *(Prague, Czech Republic)*

C086 **TUE 8/7/2014, 12:15 - FENS-1562**

PLASTICITY OF THE LUMBAR PREMOTOR NETWORK FOLLOWING RECOVERY OF LOCOMOTION IN RATS WITH COMPLETE SPINAL CORD TRANSECTION 2653

L. Khalki, J. Lerond, K. Sadlaoud, M. Lecour, L. Vinay, P. Coulon, H. Bras *(Marseille, France)*

C087 **TUE 8/7/2014, 11:15 - FENS-0723**

CCL2 MEDIATES NEURON-MACROPHAGE INTERACTIONS TO INCREASE REGENERATIVE CAPACITY OF DRG NEURONS BY CONDITIONING INJURY 2654

B. Kim, M.J. Kwon, H.W. Lee *(Suwon, Korea)*

C088 **TUE 8/7/2014, 12:15 - FENS-2716**

A CHARACTERIZATION OF WHITE MATTER PATHOLOGY FOLLOWING SPINAL CORD COMPRESSION INJURY IN THE RAT 2655

M. Kostusiak, R.E. Ward, W. Huang, P.N. Pallier, A.T. Michael-Titus, J.V. Priestley *(London, United Kingdom)*

C089 **TUE 8/7/2014, 11:15 - FENS-3760**

DIFFERENTIATION OF MOTORNEURONS FROM MOUSE ES CELLS IN VITRO AND IN VIVO AIDED BY NANOPARTICLE-DELIVERED NEUROTROPHIC FACTOR MIMETICS 2656

N. König, A.E. Garcia-Bennett, M. Kozhevnikova, C. Zhou, R. Leao, T. Knöpfel, C. Trolle, V. Berezin, E. Kozlova *(Uppsala, Sweden)*

C090 **TUE 8/7/2014, 12:15 - FENS-0247**

NEUROPLASTICITY EFFECTS OF OMEGA3-POLYUNSATURATED FATTY ACID IN A RODENT MODEL OF CERVICAL SPINAL CORD INJURY 2657

Z. Liu, P.K. Yip, A.T. Michael-Titus, J.V. Priestley *(London, United Kingdom)*

C091 **TUE 8/7/2014, 11:15 - FENS-1346**

SPINAL CORD INJURY INDUCED CHANGES OF NUCLEAR RECEPTORS PPAR-ALPHA AND LXR-BETA AND MODULATION WITH OLEIC ACID/ALBUMIN TREATMENT 2658

J. Mey, G. Ávila-Martín, D. Fandel, I. Galán-Arriero, J.S. Taylor, D. Wasmuht *(Aachen, Germany)*

C092 **TUE 8/7/2014, 12:15 - FENS-2490**

COMPARISON OF NEURAL PROGENITOR CELLS DERIVED FROM DIFFERENT DEVELOPMENTAL STAGES OF CNS 2659

L. Slovinska, M. Nagyova, S. Devaux, J. Blasko, D. Cizkova *(Kosice, Slovakia)*

C093 **TUE 8/7/2014, 11:15 - FENS-1700**

ACTIVATION OF GROUP III METABOTROPIC GLUTAMATE RECEPTORS EXERTS NEUROPROTECTIVE EFFECT AGAINST EXCITOTOXIC DAMAGE IN ORGANOTYPIC SPINAL CULTURES 2660

D. Olivieri, G.L. Mazzone, A. Nistri *(Trieste, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C094 **TUE 8/7/2014, 12:15 - FENS-1791**

NEUROPROTECTIVE EFFECT OF GRAFTED INDUCED PLURIPOTENT STEM CELLS ON INJURED SPINAL MOTONEURONS 2661

K. Pajer, C. Nemes, S. Berzsenyi, A. Dinnyés, A. Nógrádi *(Szeged, Hungary)*

C095 **TUE 8/7/2014, 11:15 - FENS-1353**

THE INHIBITION OF GSK3B PROMOTES OLIGODENDROGLIAL PROGENITOR CELL DIFFERENTIATION IN SPINAL CORD INJURY 2662

Y. Pan, Y. Dai, M.P. Cheung, H.K. Yip *(Hong Kong, Hong Kong China)*

C096 **TUE 8/7/2014, 12:15 - FENS-2273**

QUANTIFICATION OF THE CHANGES IN DOPAMINERGIC CELLS AND FIBRES DURING SPINAL CORD REGENERATION IN THE SEA LAMPREY. 2663

D. Romaus-Sanjurjo, B. Fernández-López, S. Gómez-Fernández, A. Barreiro-Iglesias, M.C. Rodicio *(Santiago de Compostela, Spain)*

C097 **TUE 8/7/2014, 11:15 - FENS-3472**

CONTRIBUTION OF PROPRIOSPINAL NEURONS TO RECOVERY OF HAND DEXTERITY AFTER THE CORTICOSPINAL TRACT LESION IN THE MONKEY 2664

T. Tohyama, M. Kinoshita, R. Matsui, S. Kato, K. Isa, D. Watanabe, K. Kobayashi, M. Liu, T. Isa *(Okazaki, Japan)*

C098 **TUE 8/7/2014, 12:15 - FENS-1615**

INJECTABLE EXTRACELLULAR MATRIX HYDROGELS AS SCAFFOLDS FOR SPINAL CORD INJURY TREATMENT 2665

D. Tukmachev, S. Kubinová, S. Forostyak, C. Medberry, E. Syková *(Prague, Czech Republic)*

C099 **TUE 8/7/2014, 11:15 - FENS-2203**

MAST CELLS PROMOTE WOUND REMODELING AND FUNCTIONAL RECOVERY AFTER SPINAL CORD INJURY VIA THEIR SPECIFIC TRYPTASE MMCP6 2666

T. Vangansewinkel, N. Geurts, S. Lemmens, P.M. Vidal, D. Dooley, G. Pejler, S. Hendrix *(Diepenbeek, Belgium)*

C100 **TUE 8/7/2014, 12:15 - FENS-2890**

BENEFICIAL EFFECT OF FOCAL REMYELINATION IN A RAT MODEL OF TOTAL TRANSECTION SPINAL CORD INJURY 2667

M. Yeghiazaryan, A. Cabaj, **U. Slawinska**, **M. Zawadzka** *(Warsaw, Poland)*

C101 **TUE 8/7/2014, 11:15 - FENS-3440**

DOCOSAHEXAENOIC ACID IN FREE FATTY ACID AND ESTER FORMS INCREASES FUNCTIONAL LOCOMOTOR IMPROVEMENT FOLLOWING MOUSE SPINAL CORD CONTUSION INJURY 2668

P. Yip, A.L. Bowes, M. Davies, J.V. Priestley, A.T. Michael-Titus *(London, United Kingdom)*

C102 **TUE 8/7/2014, 12:15 - FENS-0722**

A MECHANISM UNDERLYING ENHANCED ACTIVITY OF AROMATIC L-AMINO ACID DECARBOXYLASE CELLS TO PROVIDE SEROTONIN AFTER SPINAL CORD INJURY 2669

M. Zhang, J. Wienecke, L.Q. Ren, H. Hultborn, O. Kiehn, Y. Zhang *(Copenhagen, Denmark)*

C41: MENTAL DISORDERS - AFFECTIVE DISORDERS

C103 **TUE 8/7/2014, 11:15 - FENS-0256**

THE IMPACT OF PRENATAL STRESS ON THE PROTEIN EXPRESSION OF BRAIN MITOCHONDRIA- THE PROTEOMIC ANALYSIS 2670

K. Glombik, A. Stachowicz, O. Olszanecki, E. Szczesny, J. Slusarczyk, E. Trojan, A. Basta-Kaim *(Krakow, Poland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C104 **TUE 8/7/2014, 12:15 - FENS-1529**

PHYSICAL EXERCISE PREVENTS STRESS-INDUCED REDUCTIONS OF BDNF TRANSCRIPTS BY EPIGENETIC MODIFICATIONS IN HIPPOCAMPUS OF MICE. 2671

A. Ieraci, A. Mallei, G. Racagni, M. Popoli *(Milano, Italy)*

C105 **TUE 8/7/2014, 11:15 - FENS-0429**

CANNABINOID SIGNALING IN STRESS AND DEPRESSION: THE ROLE OF DAGL ALPHA 2672

I. Jenniches, S. Ternes, A. Bilkei-Gorzo, A. Zimmer *(Bonn, Germany)*

C106 **TUE 8/7/2014, 12:15 - FENS-0357**

DIFFERENTIAL REGULATION OF OBSERVATIONAL FEAR BY SEROTONIN AND DOPAMINE IN THE MOUSE ANTERIOR CINGULATE CORTEX 2673

D. Jeon, B.S. Kim, J. Lee *(Daejeon, Korea)*

C107 **TUE 8/7/2014, 11:15 - FENS-2046**

REPRESSING DEPRESSION: NUCLEUS REUNIENS 2674

V. Kafetzopoulos, N. Kokras, J.F. Oliveira, A. Vassalou, I. Sotiropoulos, H. Leite-Almeida, O.F.X. Almeida, K. Antoniou, Z. Papadopoulou-Daifoti, N. Sousa, C. Dalla *(Athens, Greece)*

C108 **TUE 8/7/2014, 12:15 - FENS-2051**

ANTIDEPRESSANT POTENTIAL OF SUBACUTE AROMATASE INHIBITION IN MALE AND FEMALE RATS IN THE FORCED SWIM TEST 2675

M. Koronaiou, N. Kokras, V. Kafetzopoulos, T. Mavridis, C. Dalla *(Athens, Greece)*

C109 **TUE 8/7/2014, 11:15 - FENS-3587**

MODULATION OF ENDOGENOUS OPIOIDS WITH THE NOVEL COMPOUND, RDC-2810, REVERSES NEUROBEHAVIORAL SYMPTOMS IN AN INTERFERON-ALPHA ANIMAL MODEL OF DEPRESSION 2676

C.K. Callaghan, S.M. O'Mara *(Dublin, Ireland)*

C110 **TUE 8/7/2014, 12:15 - FENS-0142**

THE CONTRIBUTION OF THE HPA AXIS DYSREGULATION IN CREATING RESISTANCE TO ANTIDEPRESSANTS: EVIDENCE THROUGH AN ANIMAL MODEL OF MAJOR DEPRESSION 2677

W. Khemissi, R. Farooq, A. Le Guisquet, M. Sakly, C. Belzung *(Tours, France)*

C111 **TUE 8/7/2014, 11:15 - FENS-0153**

DIFFERENTIAL EFFECTS OF CNS-REGION-SPECIFIC VERSUS PERIPHERAL CHRONIC TNF ELEVATION ON DEPRESSION-RELEVANT PHENOTYPES IN MICE 2678

F. Klaus, H. Sigrist, J.C. Paterna, E. Marzorati, E. Seifritz, R. Fuertig, A. Ceci, B. Hengerer, C.R. Pryce *(Zurich, Switzerland)*

C112 **TUE 8/7/2014, 12:15 - FENS-0516**

ANTIDEPRESSANT ACTIVITY OF NEW PSYCHOTIC DRUG 8-(TRIFLUOROMETHYL)-1,2,3,4,5-BENZOPENTATHIEPIN-6-AMINE HYDROCHLORIDE (TC-2153) IN COMPARISON WITH CLASSICAL ANTIDEPRESSANTS 2679

E. Kulikova, M.A. Tikhonova, A.V. Kulikov, N.K. Popova *(Novosibirsk, Russia)*

C113 **TUE 8/7/2014, 11:15 - FENS-0141**

SLC6A15, A NOVEL STRESS VULNERABILITY CANDIDATE, REGULATES ANXIETY AND DEPRESSIVE LIKE BEHAVIOUR THROUGH GLUTAMATERGIC SYSTEM 2680

S. Santarelli, E. Anderzhanova, B. Bedenk, K. Wagner, S. Kaltwasser, C. Labermaier, G. Balsevich, A. Uribe, M. Masana, P. Sämann, M. Czisch, M.V. Schmidt *(Munich, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C114 **TUE 8/7/2014, 12:15 - FENS-0469**

ANTIDEPRESSIVE-LIKE EFFECT OF A NOVEL 5-HT3 RECEPTOR ANTAGONIST (4A) AGAINST DEPRESSION CO-MORBID WITH OBESITY IN MICE SUBJECTED TO CHRONIC STRESS 2681

Y. Kurhe, R. Mahesh, D. Gupta, T. Devadoss *(Pilani, India)*

C115 **TUE 8/7/2014, 11:15 - FENS-1048**

INCREASING ADULT HIPPOCAMPAL NEUROGENESIS DECREASES VULNERABILITY TO DISPLAY COGNITIVE IMPAIRMENT IN MICE SUBMITTED TO CHRONIC STRESS 2682

N. Lagunas, A.M. Le Guisquet, B. Brizard, A. Sahay, C. Belzung *(Tours, France)*

C116 **TUE 8/7/2014, 12:15 - FENS-1422**

SOCIAL ISOLATION DURING PRE-ADOLESCENCE INDUCES DEPRESSION-LIKE PHENOTYPE AND EPIGENETIC MODIFICATIONS COMMON TO BRAIN AND BLOOD IN ADULT MICE 2683

L. Lo Iacono, F. Visco Comandini, A. Valzania, L. Roscini, A. Felsani, S. Puglisi-Allegra, V. Carola *(Rome, Italy)*

C117 **TUE 8/7/2014, 11:15 - FENS-3576**

EFFECTS OF NOCICEPTIN/ORPHANIN FQ RECEPTOR ANTAGONIST UFP-101 ON LIPOPOLYSACCHARIDE (LPS)-INDUCED DEPRESSIVE-LIKE BEHAVIOR IN MICE 2684

I. Medeiros, L. Asth, V. Soares-Rachetti, P. Romão, R. Guerrini, G. Calo, E. Gavioli *(Natal, Brazil)*

C118 **TUE 8/7/2014, 12:15 - FENS-3384**

ROLE OF PROTEIN TYROSINE PHOSPHATASE RECEPTOR T IN DEPRESSION-LIKE BEHAVIOR 2685

S. Min, E. Kim, G. Seol, J. Lee, D. Yu *(Daejeon, Korea)*

C119 **TUE 8/7/2014, 11:15 - FENS-2147**

ANTIDEPRESSANT-LIKE ACTIVITY OF 1,2,3,4-TETREHYDROISOQUINOLINE IN THE FORCED SWIMMING TEST IN C57/BL6 MICE IN COMPARISON WITH IMIPRAMINE 2686

E. Mozdzen, J. Michaluk, A. Wasik, I. Romanska, L. Antkiewicz-Michaluk *(Kraków, Poland)*

C120 **TUE 8/7/2014, 12:15 - FENS-2758**

CHARACTERISATION OF SLEEP DISTURBANCES IN THE UNPREDICTABLE CHRONIC MILD STRESS MURINE MODEL OF MAJOR DEPRESSION 2687

M. Nollet, G. Stenson, B. Martynhak, K. Wafford, D.J. Dijk, R. Winsky-Sommerer *(Guildford, United Kingdom)*

C121 **TUE 8/7/2014, 11:15 - FENS-1899**

EARLY LIFE EVENTS AND INCREASED VULNERABILITY FOR MAJOR DEPRESSION: ROLE OF THE SERUM GLUCOCORTICOID KINASE-1 2688

G. Plazzotta, A. Luoni, L. Bocchio-Chiavetto, R. Molteni, C.M. Pariante, A. Cattaneo *(Milan, Italy)*

C42: MENTAL DISORDERS - ANXIETY DISORDERS

C122 **TUE 8/7/2014, 12:15 - FENS-1827**

ROLE OF MIRS-34 IN STRESS RESPONSE: EVIDENCE FROM MIR34 KNOCKOUT MICE 2689

D. Andolina, M. Di Segni, S. Puglisi-Allegra, A. Ventura, C.P. Concepcion, R. Ventura *(Rome, Italy)*

C123 **TUE 8/7/2014, 11:15 - FENS-3122**

GENETIC, NEUROPSYCHOLOGICAL AND VBM ANALYSIS IN COLOMBIAN CHILDREN WITH OBSESSIVE COMPULSIVE DISORDER 2690

J. Avila, H. Arboleda, R. Vasquez, J. Ortega *(Bogotá, Colombia)*

C124 **TUE 8/7/2014, 12:15 - FENS-0437**

MODELING THE DYNAMICS OF DEPRESSION ACROSS THE LIFESPAN 2691

S. Demic, S. Cheng *(Bochum, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C125 **TUE 8/7/2014, 11:15 - FENS-1582**

EFFECTS OF SELECTIVE MITOCHONDRIAL TARGETING ON ANXIETY-RELATED BEHAVIOR 2692

M. Filiou, M. Nussbaumer, L. Teplytska, M. Murphy, R. Landgraf, C. Turck *(Munich, Germany)*

C126 **TUE 8/7/2014, 12:15 - FENS-0298**

FKBP51 CRITICALLY IMPACTS ANXIETY AND STRESS RESILIENCE 2693

J. Hartmann, K.V. Wagner, N. Dedic, S. Westerholz, S. Gaali, A. Kirschner, N.C. Gassen, A. Chen, F. Holsboer, T. Rein, F. Hausch, M.V. Schmidt *(Munich, Germany)*

C127 **TUE 8/7/2014, 11:15 - FENS-1548**

ACUTE FEAR RELIEF OF LEARNED AND INNATE FEAR BY NPS TREATMENT - PERSPECTIVES FOR IMPROVING EXPOSURE THERAPY 2694

I. Ionescu, B. Novak, F. Holsboer, C.T. Wotjak, U. Schmidt *(Munich, Germany)*

C128 **TUE 8/7/2014, 12:15 - FENS-1310**

MEDIAL AMYGDALA IS INVOLVED IN ANXIETY-LIKE BEHAVIOR INDUCED BY REPEATED DURAL NOCICEPTION IN RATS 2695

F. Jacquot, R. Dallel, P. Luccarrini, A. Artola *(Clermont Ferrand, France)*

C129 **TUE 8/7/2014, 11:15 - FENS-1653**

CHANGES IN BDNF EXPRESSION AND DENDRITIC TRAFFICKING OF SELECT BDNF TRANSCRIPTS IN BDNF VAL66MET MICE ARE LINKED TO EPIGENETIC CHANGES 2696

A. Mallei, S. Corna, G. Baj, I. Ieraci, D. Tardito, F.S. Lee, G. Racagni, E. Tongiorgi, M. Popoli *(Milano, Italy)*

C130 **TUE 8/7/2014, 12:15 - FENS-2158**

BRAIN PACEMAKER TO LIFT DEPRESSIVE-LIKE SYMPTOMS AFTER ACUTE AND LONG-TERM STIMULATION OF THE VENTROMEDIAL PREFRONTAL CORTEX 2697

M. Mohamed Khairuddin, A. Vyas, L.W. Lim *(Singapore, Singapore)*

C131 **TUE 8/7/2014, 11:15 - FENS-3096**

NEURAL CORRELATES OF SUSTAINED AND PHASIC FEAR IN SPIDER PHOBIA 2698

A. Münsterkötter, P. Zwanzger, S. Notzon, R. Redlich, D. Grotegerd, H. Kugel, U. Dannlowski *(Münster, Germany)*

C132 **TUE 8/7/2014, 12:15 - FENS-0848**

TRYPTOPHAN DEPLETION DURING EARLY DEVELOPMENT LEADS TO ALTERATIONS IN ANXIETY AND SENSITIVITY TO AMPHETAMINE IN ADULTHOOD 2699

A. Oakly, B. Ellenbroek *(Wellington, New Zealand)*

C133 **TUE 8/7/2014, 11:15 - FENS-3131**

EMG AND FMRI CORRELATES OF FEAR-POTENTIATED STARTLE IN A FEAR GENERALIZATION PARADIGM 2700

Y. Peterse, V.I. Spoormaker, M. Czisch, P. Saemann *(Munich, Germany)*

C134 **TUE 8/7/2014, 12:15 - FENS-0475**

THE EPIGENETICS OF ANXIETY: PLASTICITY GENES OF GENETICALLY FIXED BEHAVIORAL TRAITS 2701

R.P. Diepold, S.V. Sotnikov, P. Weber, R. Landgraf, L. Czibere *(Munich, Germany)*

C135 **TUE 8/7/2014, 11:15 - FENS-2122**

INVOLVEMENT OF POSTSYNAPTIC 5-HT1A RECEPTOR OVEREXPRESSION IN AN ANIMAL MODEL OF DEPRESSION/ANXIETY 2702

F. Pilar-Cuellar, R. Vidal, R. Linge, B. Romero, R. Haberzettl, B. Bert, J. Brosda, H. Fink, E. Castro, E.M. Valdizan, A. Diaz, A. Pazos *(Santander, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C136 **TUE 8/7/2014, 12:15 - FENS-0690**

EFFECTS OF ANESTHETIC KETAMINE ON ANXIETY-LIKE BEHAVIOUR IN RATS 2703

N. Pitsikas, F. Delis, K. Antoniou *(Larissa, Greece)*

C137 **TUE 8/7/2014, 11:15 - FENS-1766**

CHANGES OF NORADRENERGIC ACTIVITY IN THE AMYGDALA OF THE RAT CONTRIBUTE TO HYPERAROUSAL AFTER AN ACUTE TRAUMATIC EVENT 2704

G. Ronzoni, A. Del Arco, F. Mora, G. Segovia *(Madrid, Spain)*

C138 **TUE 8/7/2014, 12:15 - FENS-0521**

BIPOLAR FORMS OF BEHAVIOR DURING THE SELECTION FOR CATATONIA AND CENTRAL ADRENORECEPTORS IN GC RATS 2705

M. Ryazanova, T.A. Alekhina *(Novosibirsk, Russia)*

C139 **TUE 8/7/2014, 11:15 - FENS-0607**

RELATIONSHIPS OF SEROTONIN TRANSPORTER ALLELE POLYMORPHISM WITH EEG CORRELATES OF TRAIT ANXIETY AND IMPULSIVENESS IN RUSSIANS AND TUVINIANS 2706

A. Savostyanov, E.A. Levin, N.A. Sinyakova, S.S. Tamozhnikov, M.S. Zaleshin, U.N. Kavai-ool, V.S. Naumenko *(Novosibirsk, Russia)*

C140 **TUE 8/7/2014, 12:15 - FENS-2347**

ACTIVATION OF CANNABINOID CB1 RECEPTOR IN DORSOMEDIAL HYPOTHALAMUS (DMH) INDUCE PANICOLITIC-LIKE RESPONSES IN RATS 2707

T. Viana, D.C. Aguiar, F. Moreira *(Belo Horizonte, Brazil)*

C43: MENTAL DISORDERS - ADDICTION AND DRUGS OF ABUSE

C141 **TUE 8/7/2014, 11:15 - FENS-0840**

CEFTRIAXONE AND MTEP ATTENUATE CONTEXT-PRIMED RELAPSE OF COCAINE-SEEKING AFTER ABSTINENCE 2708

L. Knackstedt, M. Schwendt *(Gainesville, USA)*

C142 **TUE 8/7/2014, 12:15 - FENS-2954**

AGE-DEPENDENT EFFECTS OF ETHANOL ON GLUTAMATE DYNAMICS IN THE PREFRONTAL CORTEX OF AWAKE RATS USING MICROELECTRODE AMPEROMETRY 2709

A. Konradsson-Geuken, D. Mishra, N. Harrison, C. Bengtsson-Gonzales, B. Schilstrom *(Stockholm, Sweden)*

C143 **TUE 8/7/2014, 11:15 - FENS-0883**

MULTI-ELECTRODE ARRAY RECORDINGS OF NUCLEUS ACCUMBENS IN COCAINE CONDITIONED C57BL/6 MICE 2710

K. Kummer, M. Kress, **A. Saria**, **G. Zernig** *(Innsbruck, Austria)*

C144 **TUE 8/7/2014, 12:15 - FENS-2848**

NEUROFEEDBACK PROTOCOL DEVELOPMENT FOR INTERNET OVERUSERS: A CASE SERIES 2711

H. Lim, J.K. Oh, Y.N. Kwan, S.W. Choi *(Seoul, Korea)*

C145 **TUE 8/7/2014, 11:15 - FENS-1869**

A SINGLE HIGH DOSE OF COCAINE MODULATES FGF-2 MRNA LEVELS IN THE BRAIN OF ADOLESCENT ANIMALS 2712

C. Malpighi, L. Caffino, G. Giannotti, G. Racagni, F. Fumagalli *(Milano, Italy)*

C146 **TUE 8/7/2014, 12:15 - FENS-3467**

EXTINCTION OF COCAINE-INDUCE CONDITIONED PLACE PREFERENCE: TEMPORAL CHARACTERIZATION 2713

E. Marinho, E. Malpezzi-Marinho, P. Jesus, A. Hollais, R. Santos, T. Yokoyama, L. Berro, R. Wuo-Silva, C. Patti, R. Frussa-Filho *(Bahia, Brazil)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C147 **TUE 8/7/2014, 11:15 - FENS-1222**

ETHANOL INDUCES DOSE-DEPENDENT CHANGES IN PRO-ENKEPHALIN MRNA EXPRESSION IN THE RAT BRAIN 2714

M. Mendez, K. Hernandez-Fonseca, A.C. Reyes-Guzman, E. Cabrera-Muñoz *(Mexico City, Mexico)*

C148 **TUE 8/7/2014, 12:15 - FENS-2691**

ROLE OF CRF RECEPTORS IN COMPULSIVE FOOD CONSUMPTION IN A MODEL OF BINGE EATING IN FEMALE RATS 2715

M. Micioni Di Bonaventura, M. Ubaldi, J.M. Bossert, R.M. St. Laurent, M.E. Giusepponi, A. Romano, S. Gaetani, R. Ciccocioppo, Y. Shaham, C. Cifani *(Camerino, Italy)*

C149 **TUE 8/7/2014, 11:15 - FENS-2533**

DENDRITIC SPINE CHANGES IN THE DEVELOPMENT OF ALCOHOL ADDICTION REGULATED BY ALPHA-CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE II 2716

Z. Mijakowska, S. Leski, B. Ruszczycki, P. Lesniewska, K. Radwanska *(Warsaw, Poland)*

C150 **TUE 8/7/2014, 12:15 - FENS-0380**

REWARD-BASED DECISION-MAKING IN METHAMPHETAMINE-DEPENDENT RAT 2717

H. Mizoguchi, K. Fukumoto, T. Wang, K. Yamada *(Nagoya, Japan)*

C151 **TUE 8/7/2014, 11:15 - FENS-0696**

CHRONIC BUT NOT ACUTE N-ACETYLCYSTEINE PROMOTES EXTINCTION OF NICOTINE-CUE CONDITIONED RESPONDING 2718

F. Moro, A. Di Clemente, C.M. Marzo, L. Cervo *(Milan, Italy)*

C152 **TUE 8/7/2014, 12:15 - FENS-0154**

A LIPID PATHWAY OF DEPRESSION-INDUCED ALCOHOL CONSUMPTION: THE ROLE OF ACID SPHINGOMYELINASE 2719

C. Müller, T. Stöckl, E. Sprenger, J. Tiesel, S.E. Huber, D. Amato, E. Gulbins, J. Kornhuber, M. Reichel *(Erlangen, Germany)*

C153 **TUE 8/7/2014, 11:15 - FENS-1135**

KETAMINE EFFECTS ON MOTIVATION AND REWARD: MODULATION OF ACQUISITION, MAINTENANCE, EXTINCTION AND REACQUISITION OF SELF-ADMINISTRATION IN RATS 2720

A. Mutti, M. Vènniro, C. Chiamulera *(Porto Mantovano, Italy)*

C154 **TUE 8/7/2014, 12:15 - FENS-0460**

RAS GUANINE NUCLEOTIDE-RELEASING FACTOR 1 AND COCAINE SELF-ADMINISTRATION 2721

A. Olevska, R.E. Bernardi, R. Brambilla, R. Spanagel *(Mannheim, Germany)*

C155 **TUE 8/7/2014, 11:15 - FENS-1987**

DYNAMIC CHANGES OF BDNF EXPRESSION AFTER ETHANOL I.V. SELF-ADMINISTRATION: NEW INSIGHTS FROM A YOKED PARADIGM 2722

A. Orrù, L. Caffino, C. Cassina, A. Di Clemente, G. Giannotti, F. Moro, F. Fumagalli, L. Cervo *(Pula, Italy)*

C156 **TUE 8/7/2014, 12:15 - FENS-3360**

ADOLESCENT DELTA-9-TETRAHYDROCANNABINOL TREATMENT RESULTS IN PERSISTENT MICROGLIAL ACTIVATION AND UP-REGULATION OF GLIAL CB2 RECEPTORS WITHIN THE ADULT RAT PREFRONTAL CORTEX 2723

D. Parolaro, E. Zamberletti, P. Prini, M. Gabaglio, T. Rubino *(Busto Arsizio, Italy)*

C157 **TUE 8/7/2014, 11:15 - FENS-3391**

CONTRASTING FORMS OF COCAINE-EVOKED SYNAPTIC PLASTICITY AT IDENTIFIED ACCUMBAL SYNAPSES CONTROL CORE COMPONENTS OF RELAPSE 2724

V. Pascoli, J. Terrier, J. Espallergues, E. Valjent, E.C. O'Connor, C. Lüscher *(Geneve, Switzerland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C158 **TUE 8/7/2014, 12:15 - FENS-1302**

REPEATED TRANSCRANIAL DIRECT CURRENT STIMULATION IN MICE REDUCES THE REWARDING EFFECT OF COCAINE AND BLUNTS COCAINE-INDUCED ZIF268 IN THE STRIATUM 2725

S. Pedron, J. Beverley, E. Haffen, P. Andrieu, J. Monnin, R. Monier, D. Sechter, H. Steiner, V. Van Waes *(Besancon, France)*

C159 **TUE 8/7/2014, 11:15 - FENS-2955**

TREADMILL EXERCISE ABOLISHES LONG-LASTING DEPRESSIVE-LIKE SYMPTOMS IN MICE SUBMITTED TO A NEUROTOXIC METHAMPHETAMINE DOSE 2726

F. Pereira, I.R. Pita, A.C. Sequeira, R. Fonseca, C.D. Silva, C. Lemos, F.C. Matheus, R.A. Cunha, R.D. Prediger, C.A. Fontes Ribeiro *(Coimbra, Portugal)*

C160 **TUE 8/7/2014, 12:15 - FENS-2443**

CHANGES IN MIRNAS IN WIN55,212-2 SELF-ADMINISTRATION 2727

V. Perra, V. Valentini, P. Sulas, G.P. Serra, D. Lecca, G. Piras, G. Di Chiara *(Cagliari, Italy)*

C161 **TUE 8/7/2014, 11:15 - FENS-2510**

DIFFERENTIAL NEUROCHEMICAL AND BEHAVIORAL EFFECTS OF PSYCHOSTIMULANTS IN HATANO HIGH AND LOW-AVOIDANCE RATS 2728

G. Piras, V. Perra, G.P. Serra, R. Frau, V. Valentini, G. Di Chiara *(Cagliari, Italy)*

C162 **TUE 8/7/2014, 12:15 - FENS-0669**

EFFECTS OF TOBACCO OR E-CIGARETTE SMOKE, DELIVERED THROUGH A MECHANICAL VENTILATOR, ON BRAIN NICOTINIC ACETYLCHOLINE RECEPTOR EXPRESSION AND MICE BEHAVIOUR 2729

L. Ponzoni, D. Braida, M. Moretti, F. Fasoli, M. Zoli, C. Gotti, M. Sala *(Milano, Italy)*

C163 **TUE 8/7/2014, 11:15 - FENS-0735**

COCAINE PREFERENCE AND ITS MODULATION BY SOCIAL INTERACTION AFFECT WHOLE MEDIAL ACCUMBENS CORRIDOR 2730

J. Prast, A. Saria, G. Zernig *(Innsbruck, Austria)*

C164 **TUE 8/7/2014, 12:15 - FENS-1778**

ADOLESCENT THC EXPOSURE INDUCES EPIGENETIC CHANGES AND ALTERED GENE EXPRESSION IN THE RAT PREFRONTAL CORTEX 2731

P. Prini, E. Zamberletti, M. Gabaglio, D. Parolaro, T. Rubino *(Busto Arsizio, Italy)*

C165 **TUE 8/7/2014, 11:15 - FENS-2314**

CHARACTERIZATION OF THE RIBOSOMAL PROTEIN S6 PHOSPHORYLATION IN THE MOUSE BRAIN 2732

E. Puighermanal, A. Biever, V. Pascoli, D. Xirodimas, A. David, D. De Bundel, M. Pende, C. Lüscher, E. Valjent *(Montpellier, France)*

C166 **TUE 8/7/2014, 12:15 - FENS-1241**

NICOTINE AND TOBACCO PARTICULATE MATTER SELF-ADMINISTRATION IN RATS 2733

F. Putt, P. Truman, B. Kivell, K. Brennan *(Wellington, New Zealand)*

C167 **TUE 8/7/2014, 11:15 - FENS-0910**

HOW CB1 CANNABINOID RECEPTORS MODULATE ETHANOL REWARD 2734

I. Rácz, E. Erxlebe, A. Markert, B. Pradier, B. Lutz, A. Zimmer *(Bonn, Germany)*

C168 **TUE 8/7/2014, 12:15 - FENS-2766**

EVALUATION OF IMPULSIVITY AND EXECUTIVE FUNCTIONS IN COCAINE OR CRACK COCAINE DEPENDENT SUBJECTS 2735

A. Ramos, A.L. Souza, J.C.F. Galduróz *(São Paulo, Brazil)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D19: VISION - EXTRASTRIATE CORTEX

D001 **TUE 8/7/2014, 11:15 - FENS-1198**

TOWARDS THE LOCAL CIRCUIT OF CORTICAL AREA 8A (FRONTAL EYE FIELDS) IN MACAQUE PREFRONTAL CORTEX 2736

J. Anderson, K.A.C. Martin *(Zurich, Switzerland)*

D002 **TUE 8/7/2014, 12:15 - FENS-3500**

PRECUNEATE CORTICAL CONNECTIONS IN THE MACAQUE MONKEY 2737

S. Bakola, L. Passarelli, M. Gamberini, P. Fattori, K.J. Burman, K.E. Richardson, M.G.P. Rosa *(Melbourne, Australia)*

D003 **TUE 8/7/2014, 11:15 - FENS-0135**

HETEROGENEOUS MAPS OF RECEPTIVE FIELD SUBUNITS IN MULTIPLE NEARBY V2 NEURONS IN AMBLYOPIC MONKEYS 2738

Y. Chino, B. Zhang, E.L. Smith III *(Houston, USA)*

D004 **TUE 8/7/2014, 12:15 - FENS-3759**

VENTRAL VISUAL PATHWAY'S AND EBA'S INTEGRITY IS NOT CRITICAL FOR BIOLOGICAL MOTION PERCEPTION: EVIDENCE FROM PATIENTS AND A MODEL SUGGESTION 2739

S. Gilaie-Dotan *(London, United Kingdom)*

D005 **TUE 8/7/2014, 11:15 - FENS-2307**

DIMENSIONALITY OF OBJECT REPRESENTATIONS IN MONKEY INFEROTEMPORAL CORTEX 2740

S. Lehky, R. Kiani, H. Esteky, K. Tanaka *(La Jolla, Japan)*

D006 **TUE 8/7/2014, 12:15 - FENS-0580**

INHIBITORY PROTEIN EXPRESSION IS DIFFERENTIALLY CHANGED IN THE MOUSE BINOCULAR VERSUS MONOCULAR VISUAL CORTEX UPON UNILATERAL ENUCLEATION 2741

J. Nys, L. Lutgarde *(Leuven, Belgium)*

D007 **TUE 8/7/2014, 11:15 - FENS-0581**

DARK EXPOSURE REVEALS A ROLE FOR STRUCTURAL MODIFICATIONS IN THE AGE-DEPENDENT CROSS-MODAL RESPONSE UPON MONOCULAR ENUCLEATION IN MOUSE VISUAL CORTEX 2742

K. Smolders, J. Nys, N. Lombaert, T.T. Hu, L. Arckens *(Leuven, Belgium)*

D008 **TUE 8/7/2014, 12:15 - FENS-2615**

EFFECT OF ATTENTION ON SHAPING RECEPTIVE FIELDS OF NEURONS IN INFEROTEMPORAL CORTEX AND INVOLVEMENT OF INTER-LAMINAR INTERACTION IN THE EFFECT 2743

K. Obara, K. O'Hashi, M. Tanifuji *(Saitama, Japan)*

D009 **TUE 8/7/2014, 11:15 - FENS-2044**

MATRIX METALLOPROTEINASES ARE CRUCIAL FOR ADULT VISUAL CORTEX PLASTICITY AND SENSORY LEARNING IN MICE 2744

J. Pielecka-Fortuna, S. Löwel *(Gottingen, Germany)*

D010 **TUE 8/7/2014, 12:15 - FENS-2967**

SERIAL AND PARALLEL PROCESSING IN THREE AREAS OF MOUSE VISUAL CORTEX 2745

L. Rossi, D. Shimaoka, T.K. Sato, A. Benucci, M. Carandini *(London, United Kingdom)*

D011 **TUE 8/7/2014, 11:15 - FENS-2806**

SYNCHRONIZATION AND PHASE BETWEEN MODEL CORTICAL AREAS DETERMINE INFORMATION TRANSFER 2746

P. Tiesinga, M. Ter Wal *(Nijmegen, The Netherlands)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D012 **TUE 8/7/2014, 12:15 - FENS-3562**
AREA MT NEURONS ARE MODULATED BY TASK AND STIMULUS DIMENSION 2747
D. Wegener, F.O. Galashan, A.K. Kreiter, B. Schledde *(Bremen, Germany)*

D20: VISUOMOTOR PROCESSING

D013 **TUE 8/7/2014, 11:15 - FENS-1872**
PRIOR-INTENTION IN ACTION: THE UNVEIL OF MISTER HYDE 2748
C. Ansuini, C. Bertone, A. Cavallo, C. Becchio *(Genova, Italy)*

D014 **TUE 8/7/2014, 12:15 - FENS-3730**
THE MECHANISM OF POSITION DETECTION IN DROSOPHILA 2749
A. Bahl, A. Borst *(Martinsried, Germany)*

D015 **TUE 8/7/2014, 11:15 - FENS-3590**
TOOLS AND ACTIONS: THE ROLE OF MEMORY 2750
P. Balestrucci, D. Nico, E. Daprati *(Rome, Italy)*

D016 **TUE 8/7/2014, 12:15 - FENS-1608**
CONFLICT PROCESSING OF SACCADIC RESPONSES - A DENSE-ARRAY EEG STUDY 2751
E. Beldzik, A. Domagalik, M. Fafrowicz, H. Oginska, T. Marek *(Krakow, Poland)*

D017 **TUE 8/7/2014, 11:15 - FENS-2230**
ACTIVITY OF VENTROLATERAL PREFRONTAL NEURONS DURING THE EXECUTION OF GOAL DIRECTED ACTION SEQUENCES 2752
S. Bruni, V. Giorgetti, F. Siracusa, L. Bonini, L. Fogassi *(Parma, Italy)*

D018 **TUE 8/7/2014, 12:15 - FENS-2902**
FROM VISUOMOTOR TO MOTOR ACTIVITY IN THE SUPERIOR PARIETAL LOBE: A COMPARISON BETWEEN V6A AND PEC OF MACAQUE MONKEYS 2753
G. Dal Bo, K. Hadjidimitrakis, R. Breveglieri, F. Bertozzi, C. Galletti, P. Fattori *(Bologna, Italy)*

D019 **TUE 8/7/2014, 11:15 - FENS-0325**
DIFFERENT FRONTO-PARIETAL DYNAMICS FOR GENERATION AND SUPPRESSION OF SACCADIC EYE MOVEMENT - A DENSE EEG STUDY 2754
A. Domagalik-Pittner, E. Beldzik, M. Fafrowicz, H. Oginska, T. Marek *(Krakow, Poland)*

D020 **TUE 8/7/2014, 12:15 - FENS-1095**
SUBCORTICAL AFFERENCES TO POSTERIOR PARIETAL AREAS PEC AND PE IN MACAQUE MONKEY 2755
M. Gamberini, L. Passarelli, S. Bakola, P. Fattori, C. Galletti *(Bologna, Italy)*

D021 **TUE 8/7/2014, 11:15 - FENS-0995**
GAIN-FIELD TUNING OF NEURONAL RESPONSES IN AREA MSTD DURING OPTOKINETIC STIMULATION 2756
S. Glasauer, L. Brostek, M. Mustari, U. Büttner *(München, Germany)*

D022 **TUE 8/7/2014, 12:15 - FENS-0869**
EVOLUTION OF REFERENCE FRAMES IN POSTERIOR PARIETAL AREA V6A OF MACAQUES DURING ARM MOVEMENTS IN 3D SPACE 2757
K. Hadjidimitrakis, F. Bertozzi, R. Breveglieri, A. Bosco, C. Galletti, M.G.P. Rosa, P. Fattori *(Clayton, Australia)*

D023 **TUE 8/7/2014, 11:15 - FENS-3638**
PROBING THE MOTION DETECTION PATHWAY IN DROSOPHILA WITH SINGLE PHOTORECEPTOR STIMULATION 2758
E. Hopp, J.H. Haag, F.G. Gabbiani, A.B. Borst *(Martinsried, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D024 **TUE 8/7/2014, 12:15 - FENS-2636**

MOTOR PREPARATION ELICITS LATERALIZED ALPHA RHYTHM ACTIVITY IN THE OCCIPITAL CORTEX; EVIDENCE FOR ATTENTIONAL SHIFT? 2759

T. Kajihara, M. Anwar, M. Kawasaki, Y. Mizuno, K. Nakazawa, K. Kitajo *(Saitama, Japan)*

D025 **TUE 8/7/2014, 11:15 - FENS-2789**

EFFECTS OF KINESTHETIC ILLUSION INDUCED BY VISUAL STIMULATION ON VOLUNTARY MOTOR EXECUTION 2760

F. Kaneko, M. Abe, E. Shibata, T. Kimura *(Sapporo, Japan)*

D026 **TUE 8/7/2014, 12:15 - FENS-3572**

NEURAL MECHANISMS UNDERLYING ILLUSORY MOTION REVERSAL IN DROSOPHILA 2761

A. Leonhardt, M. Meier, E. Serbe, A. Bahl, A. Borst *(Martinsried, Germany)*

D21: PAIN - NEUROPATHIC PAIN

D027 **TUE 8/7/2014, 11:15 - FENS-1442**

MOLECULAR MECHANISMS CONTRIBUTING TO THE ANALGESIA OF SSTR4 AGONISTS 2762

L. Gorham, S. Just, H. Doods *(Biberach, Germany)*

D028 **TUE 8/7/2014, 12:15 - FENS-0712**

CALCIUM DEPENDENT ACTION OF BISPHOSPHONATES-INDUCED ATP ANALOGUES ON P2X RECEPTOR-MEDIATED CURRENTS 2763

Y. Ishchenko, A. Shakirzyanova, J. Määttä, J. Mönkkönen, R. Giniatullin *(Kuopio, Finland)*

D029 **TUE 8/7/2014, 11:15 - FENS-1375**

CONNEXIN MODULATOR POTENTIATES ANTIDEPRESSANT IN A PRECLINICAL MODEL OF NEUROPATHIC PAIN 2764

T. Jeanson, A.C. Figueiredo, S. Bourgoin, N. Zahr, C. Picoli, F. Mouthon, C. Giaume, M. Charvériat, M. Hamon *(Paris, France)*

D030 **TUE 8/7/2014, 12:15 - FENS-0107**

HIV ASSOCIATED PERIPHERAL NEUROPATHY IN HIV INFECTED PATIENTS AT THE EXCELLENCY CENTER OF LUBUMBASHI UNIVERSITY IN DRC: CROSS SECTIONAL STUDY 2765

K. Joseph, R.M. Mukendi, V. Mutombo, S. Wembonyama, A. Ntambwe, O. Luboya *(Lubumbashi, Democratic Republic of Congo)*

D031 **TUE 8/7/2014, 11:15 - FENS-0213**

PREVENTION AND REVERSAL OF CHEMOTHERAPY-INDUCED NEUROPATHIC PAIN BY HMGB1 NEUTRALIZATION IN RODENTS 2766

A. Kawabata, Y. Kawaishi, T. Nishida, H. Yamanishi, N. Kamitani, M. Tsubota, H. Ishikura, F. Sekiguchi, M. Nishibori *(Higashi-Osaka, Japan)*

D032 **TUE 8/7/2014, 12:15 - FENS-1413**

NOCICEPTIVE TTX-SENSITIVE FIRING IN RAT MENINGES INDUCED BY THE MAST CELL DEGRANULATING COMPOUND 48/80 2767

E. Kilinc, J. Ropponen, F. Tore, R. Giniatullin *(Bolu, Turkey)*

D033 **TUE 8/7/2014, 11:15 - FENS-0919**

ACTIVATION OF CROSSTALK BETWEEN MACROPHAGES AND T-CELLS LEADS TO NEUROPATHIC PAIN THROUGH GLUCOCORTICOID-INDUCED TNF RECEPTOR LIGAND (GITRL)-GITR PATHWAY 2768

Y. Kobayashi, N. Kiguchi, F. Saika, Y. Fukazawa, S. Kishioka *(Wakayama city, Japan)*

D034 **TUE 8/7/2014, 12:15 - FENS-1749**

LONG-TERM NEUROPATHIC PAIN ATTENUATES MORPHINE WITHDRAWAL SYNDROME RATS 2769

M. Llorca Torralba, J.A. Mico, E. Berrocoso *(Cadiz, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D22: PAIN - SOMATIC, MUSCLE AND VISCERAL

D035 **TUE 8/7/2014, 11:15 - FENS-2635**

CHANGES IN THE TONIC AND PHASIC ACTIVITY OF THE NORADRENERGIC LOCUS COERULEUS NEURONS UPON PROLONGED MONOARTHRITIS 2770

G. Borges, F.L. Neto, J.A. Mico, E. Berrocoso *(Cádiz, Spain)*

D036 **TUE 8/7/2014, 12:15 - FENS-0654**

LONG-LASTING EFFECT OF REPETITIVE TRANSCRANIAL DIRECT CURRENT STIMULATION ON ACUTE PAIN 2771

D. Niddam, W.C. Lu, M.S. Hung, J.C. Hsieh *(Taipei, Taiwan)*

D037 **TUE 8/7/2014, 11:15 - FENS-2679**

THE RAT DORSAL COLUMN NUCLEI CONTAIN A REGION HOMOLOGOUS TO THE HUMAN LOCUS K 2772

M. Quartu, M. Boi, M.P. Serra, L. Poddighe, T. Melis, C. Picci, M. Del Fiacco *(Monserrato, Italy)*

D038 **TUE 8/7/2014, 12:15 - FENS-2663**

LOCUS K: CUNEATE SUBNUCLEAR REGIONS IN HUMAN DORSAL COLUMN NUCLEI WITH NEUROCHEMICAL, CYTO- AND MYELOARCHITECTURAL FEATURES OF PROTOPATHIC SENSORY NUCLEI 2773

M.P. Serra, M. Quartu, M. Boi, L. Poddighe, T. Melis, C. Picci, M. Del Fiacco *(Monserrato, Italy)*

D23: MOTOR NEURONS AND MUSCLE

D039 **TUE 8/7/2014, 11:15 - FENS-0110**

THE ROLE OF TWO-PORE DOMAIN POTASSIUM (K2P) CHANNELS IN MURINE SKELETAL MUSCLE CELLS 2774

A. Afzali, S. Bittner, T. Ruck, H. Wiendl, S.G. Meuth *(Münster, Germany)*

D040 **TUE 8/7/2014, 12:15 - FENS-2399**

AXONAL REGENERATION AND SENSORY-MOTOR RECOVERY FOLLOWING NEONATAL SCIATIC NERVE NEURORRHAPHY PERFORMED WITH A SNAKE VENOM DERIVED FIBRIN SEALANT 2775

N. Biscola, R.S. Ferreira Junior, B. Barraviera, A.L.R. Oliveira *(Sao Carlos, Brazil)*

D041 **TUE 8/7/2014, 11:15 - FENS-0264**

LAMOTRIGINE AS AN EFFECTIVE MEANS OF RESCUING MOTOR UNIT NUMBERS AND MUSCLE PROPERTIES AFTER SCIATIC NERVE CRUSH IN NEONATAL RATS 2776

A. Cabaj, U. Slawinska *(Warsaw, Poland)*

D042 **TUE 8/7/2014, 12:15 - FENS-1006**

LONG-TERM EFFECTS OF BOTULINUM TOXIN INJECTION ON MECHANO- AND METABO-SENSITIVE AFFERENT FIBERS ORIGINATING FROM GASTROCNEMIUS MUSCLE 2777

G. Caron, T. Rouzi, L. Grelot, G. Magalon, T. Marqueste, P. Decherchi *(Marseille, France)*

D043 **TUE 8/7/2014, 11:15 - FENS-1921**

FINDING THE LINC TO SOD1 MEDIATED AMYOTROPHIC LATERAL SCLEROSIS 2778

S. Cartwright, I. Karakesisoglou, P.L. Chazot *(Durham, United Kingdom)*

D044 **TUE 8/7/2014, 12:15 - FENS-2386**

RADICULOTHERAPY BY VENTRAL ROOT REIMPANTATION: EFFECTIVENESS OF A NEW SNAKE DERIVED FIBRINE GLUE 2779

M. De Castro, R. Barbizan, B. Barraviera, R.S. Ferreira Junior, A.L.R. Oliveira *(Campinas, Brazil)*

D045 **TUE 8/7/2014, 11:15 - FENS-3211**

THE EFFECT OF MESENCHYMAL STEM CELLS ON FUNCTIONAL RECOVERY AFTER PERIPHERAL NERVE INJURY BY TRANSECTION OF THE SCIATIC NERVE 2780

T. Delgado, F.P. Dos Santos, T. Peruch, S. Katami, E.F. Sanches, P. Pranke, A.S. Pagnussat, C.A. Netto *(Porto Alegre, Brazil)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D046 **TUE 8/7/2014, 12:15 - FENS-1511**

LOW-THRESHOLD STIMULATION OF THE TIBIAL NERVE ENRICHES CHOLINERGIC INNERVATION OF THE ANKLE EXTENSOR MOTONEURONS 2781

O. Gajewska-Wozniak, J. Czarkowska-Bauch, M. Skup *(Warsaw, Poland)*

D047 **TUE 8/7/2014, 11:15 - FENS-3757**

GRAFTED EMBRYONIC MOTONEURONS INTEGRATE BOTH MORPHOLOGICALLY AND FUNCTIONALLY INTO THE HOST SPINAL CORD CIRCUITRY 2782

L. Gál, A. Cabaj, K. Miazga, G. Márton, J. Chopek, A. Nógrádi, U. Slawinska *(Warsaw, Poland)*

D048 **TUE 8/7/2014, 12:15 - FENS-0526**

HEAT SHOCK PROTEIN B3 DISTRIBUTION AND FUNCTION IN THE CHICKEN EMBRYO MOTOR SYSTEM 2783

V. La Padula, K. Krieglstein *(Freiburg, Germany)*

D049 **TUE 8/7/2014, 11:15 - FENS-2100**

A NEW EQUATION TO ESTIMATE CREATININE CLEARANCE IN SPINAL CORD INJURY 2784

J. Lee *(Long Beach, USA)*

D050 **TUE 8/7/2014, 12:15 - FENS-3049**

IN VIVO INTRACELLULAR RECORDINGS FROM SPINAL LUMBAR MOTONEURONS IN P0-DEFICIENT MICE INDICATE ACTIVITY-DEPENDENT AXONAL CONDUCTION FAILURE IN OTHERWISE FUNCTIONAL NEURONS 2785

J. Lehnhoff, M. Moldovan, A. Hedegaard, L. Grøndahl, C.F. Meehan *(Copenhagen N, Denmark)*

D051 **TUE 8/7/2014, 11:15 - FENS-3000**

TRANSIENT MODULATION OF ACETYLCHOLINESTERASE BY DEXTRAN-COATED IRON OXIDE NANOPARTICLES IN ZEBRAFISH BRAIN 2786

G. Oliveira, L.W. Kist, T.C.B. Pereira, J.W. Bortolotto, E.M.N. Oliveira, C.E. Leite, C.D. Bonan, N.R.S. Basso, R.M. Papaleo, M.R. Bogo *(Porto Alegre, Brazil)*

D052 **TUE 8/7/2014, 12:15 - FENS-1750**

PERIPHERAL NERVE INJURY: ANALYSIS OF BIOMOLECULAR CHANGES IN NEURONS AND COMPATIBILITY OF CHITOSAN FOR PERIPHERAL NERVE REGENERATION 2787

D. Pascal, G. Ronchi, A. Iannello, F. Fregnan, G. Gambarotta, S. Raimondo *(Orbassano, Italy)*

D053 **TUE 8/7/2014, 11:15 - FENS-0458**

PATHOLOGICAL CHANGES OF THE TRICEPS SURAE MUSCLE IN RATS 8 WEEKS FOLLOWING A SPINAL CORD HEMISECTION 2788

J. Pingel, J. Lorentzen, J. Wienecke, J.B. Nielsen *(Copenhagen N, Denmark)*

D054 **TUE 8/7/2014, 12:15 - FENS-1096**

THE SYNERGISTIC EFFECTS OF TREHALOSE AND CASODEX IN THE CLEARANCE OF MUTANT ANDROGEN RECEPTOR IN SPINAL AND BULBAR MUSCULAR ATROPHY 2789

A. Poletti, E. Giorgetti, P. Rusmini, V. Crippa, A. Boncoraglio, R. Cristofani *(Milano, Italy)*

D055 **TUE 8/7/2014, 11:15 - FENS-1951**

INHIBITION OF PHOSPHODIESTERASE-5 IMPROVES MOTOR PERFORMANCE IN HEALTHY MICE 2790

D. Puzzo, C. Loreto, J. Scuderi, A. Palmeri *(Catania, Italy)*

D056 **TUE 8/7/2014, 12:15 - FENS-0382**

MEMBRANE POTENTIAL DYNAMICS OF IDENTIFIED PROJECTION NEURON CLASSES IN MOUSE MOTOR CORTEX DURING VOLUNTARY MOVEMENT 2791

J. Schiemann, P. Puggioni, M. Pelko, J. Dacre, M.C.W. Van Rossum, I. Duguid *(Edinburgh, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D057 **TUE 8/7/2014, 11:15 - FENS-0039**

SYSTEMIC ADMINISTRATION OF RECOMBINANT AAV1 VECTOR ENCODING IGF-1 IMPROVES DISEASE MANIFESTATIONS IN A SEVERE MOUSE MODEL OF SPINAL MUSCULAR ATROPHY 2792

L. Tsai, C. Chen, C. Ting, S. Lin-Chao, W. Hwu, J.C. Dodge, S.H. Cheng, M.A. Passini *(Taipei, Taiwan)*

D058 **TUE 8/7/2014, 12:15 - FENS-3458**

PERCEIVING DISGUST AFFECTS CORTICO-BULBAR EXCITABILITY. A TMS STUDY 2793

C. Vicario, D.R. Rafal, A. Avenanti *(Bangor, United Kingdom)*

E11: STRESS AND THE BRAIN - EARLY LIFE EXPERIENCE

E001 **TUE 8/7/2014, 11:15 - FENS-2698**

DEVELOPMENTAL TOXICITY OF PERINATAL DIOXIN EXPOSURE ON THE STRESS RESPONSE SYSTEM IN MICE 2794

S. Benner, T. Inoshita, Y. Ding, M. Kakeyama, C. Tohyama *(Tokyo, Japan)*

E002 **TUE 8/7/2014, 12:15 - FENS-0915**

BRAIN EXPRESSION OF NEUROPLASTICITY-RELATED PROTEINS AND BEHAVIOR IN NEONATAL RATS: EFFECTS OF DEXAMETHASONE AND HYPOXIA 2795

V. Bulygina, T. Kalinina, D. Lanshakov, P. Menshanov, N. Dygalo *(Novosibirsk, Russia)*

E003 **TUE 8/7/2014, 11:15 - FENS-3743**

ONTOGENY OF THE STRESS RESPONSE IN LARVAL ZEBRAFISH 2796

L. Castillo Ramirez, R.J. De Marco, S. Ryu *(Heidelberg, Germany)*

E004 **TUE 8/7/2014, 12:15 - FENS-0854**

EARLY-LIFE STRESS AFFECTS THE NUMBER AND SURVIVAL OF SUBSTANTIA NIGRA AND VTA NEURONS IN A SEX AND AGE-DEPENDENT MANNER 2797

A. Chocyk, A. Przyborowska, I. Majcher-Maslanka, D. Dudys, K. Wedzony *(Krakow, Poland)*

E005 **TUE 8/7/2014, 11:15 - FENS-1036**

EARLY ENVIRONMENT AFFECTS STRESS RESPONSE IN ADULT LIFE DEPENDING ON GENOTYPE 2798

M. Di Segni, D. Andolina, T. Pascucci, F. D'Amato, L. Babicola, L.I. D'Apolito, A. Luchetti, D. Conversi, S. Puglisi-Allegra, R. Ventura *(Rome, Italy)*

E006 **TUE 8/7/2014, 12:15 - FENS-2040**

EFFECTS OF LIPOPOLYSACCHARIDE INJECTION ON BEHAVIOR OF INTERLEUKIN-6 DEFICIT PREGNANT MICE AND THEIR OFFSPRING 2799

R. Djavadian, N. Chlodzinska, A. Aniszewska, M. Winnicka *(Warsaw, Poland)*

E007 **TUE 8/7/2014, 11:15 - FENS-1113**

EFFECTS OF PERI-PUBERTAL STRESS ON SOCIAL BEHAVIORS, ANXIETY AND METABOLISM IN MICE 2800

C. Fournier, O. Riccio, J. Grosse, O. Zanoletti, C. Sandi *(Lausanne, Switzerland)*

E008 **TUE 8/7/2014, 12:15 - FENS-3439**

NEONATAL MATERNAL SEPARATION STRESS ALTERS NEUROPATHIC PAIN BEHAVIOUR AND SPINAL NOCICEPTIVE PROCESSING IN RATS 2801

J. Genty, G.M. Le Coz, F. Anton, U. Hanesch *(Luxembourg, Luxembourg)*

E009 **TUE 8/7/2014, 11:15 - FENS-1115**

EFFECTS OF DIFFERENT EARLY-LIFE STRESS PERIODS 2802

J. Grosse, O. Zanoletti, C. Fournier, O. Riccio *(Lausanne, Switzerland)*

E010 **TUE 8/7/2014, 12:15 - FENS-2667**

TRANS-GENERATIONAL EFFECTS OF MATERNAL EXPOSURE TO SOCIAL STRESS IN RATS 2803

N. Grundwald, P.J. Brunton *(Edinburgh, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E011 **TUE 8/7/2014, 11:15 - FENS-3106**

MATERNAL SEPARATION IMPAIRS OSMOTIC STRESS COPING IN ADULT RAT: IMAGING BRAIN METABOLIC ACTIVITY BY POSITRON EMISSION TOMOGRAPHY AND C-FOS EXPRESSION 2804

C. Irles, M.A. Ávila-Rodriguez, T. Morales, L. Zhang *(Mexico City, Mexico)*

E012 **TUE 8/7/2014, 12:15 - FENS-0906**

THE RATIO OF JUN/FOS DETERMINES THE ABILITY OF DEXAMETHASONE TO INDUCE OF TYROSINE HYDROXYLASE EXPRESSION IN THE NEONATAL RAT BRAIN 2805

T. Kalinina, E. Sukhareva, V. Bulygina, D. Lanshakov, N. Dygalo *(Novosibirsk, Russia)*

E12: BIOLOGICAL RHYTHMS AND SLEEP - CLOCKS

E013 **TUE 8/7/2014, 11:15 - FENS-0042**

THE CIRCADIAN CLOCK OF THE OLFACTORY BULB, AND THEIR BRAIN PROJECTIONS ARE ENTRAINED AND ANTICIPATE FEEDING DURING FOOD ANTICIPATORY ACTIVITY 2806

M. Caba, M. Pabello, M.L. Moreno, E. Meza *(Xalapa, Mexico)*

E014 **TUE 8/7/2014, 12:15 - FENS-1055**

COGNITIVE AND ELECTROPHYSIOLOGICAL ENDOPHENOTYPES IN THE AFTER-HOURS CIRCADIAN MOUSE MODEL 2807

S. Maggi, G. Lassi, S. Espinoza, T. Nieus, R. Gainetdinov, P. Nolan, V. Tucci *(Genova, Italy)*

E13: BIOLOGICAL RHYTHMS AND SLEEP - SLEEP: MOLECULAR, CELLULAR, AND PHARMACOLOGY

E015 **TUE 8/7/2014, 11:15 - FENS-1866**

GENE EXPRESSION IN ASTROCYTES IS AFFECTED BY SLEEP AND WAKE 2808

M. Bellesi, M. Pfister-Genskow, G. Tononi, C. Cirelli *(Madison, USA)*

E016 **TUE 8/7/2014, 12:15 - FENS-0739**

EFFECTS OF PHARMACOLOGICAL MODULATION OF GABAA RECEPTORS ON SLEEP SPINDLES IN RATS 2809

L. Carracedo, N.R. Hewes, A.P. McCarthy, K.G. Phillips, W.F. Seidel, E.A. Shanks, M.W. Jones, K.A. Wafford *(Windlesham, United Kingdom)*

E017 **TUE 8/7/2014, 11:15 - FENS-1871**

CHRONIC SLEEP RESTRICTION INCREASES MITOCHONDRIAL SIZE IN FRONTAL CORTEX OF ADOLESCENT MICE 2810

L. De Vivo, G. Tononi, C. Cirelli *(Madison, USA)*

E018 **TUE 8/7/2014, 12:15 - FENS-3351**

OREXIN NEURONS SUPPRESS NARCOLEPSY VIA 2 DISTINCT EFFERENT PATHWAYS 2811

E. Hasegawa, M. Yanagisawa, T. Sakurai, M. Mieda *(Kanazawa, Japan)*

E019 **TUE 8/7/2014, 11:15 - FENS-1585**

IMPLICATION OF NESFATIN-1/NUCB2 IN THE REGULATION OF RAPID EYE MOVEMENT SLEEP (REMS) OF RAT 2812

K. Könczöl, S. Vas, C. Ádori, Z. Kátai, D. Pap, R.S. Papp, M. Durst, G. Bagdy, M. Palkovits, Z.E. Tóth *(Budapest, Hungary)*

E020 **TUE 8/7/2014, 12:15 - FENS-1193**

THE EFFECT OF CHRONIC ADMINISTRATION OF MORPHINE AND METHADONE AND THEIR WITHDRAWAL ON THE RAT CIRCADIAN CLOCK 2813

D. Pacesova, Z. Bendová *(Prague, Czech Republic)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E021 **TUE 8/7/2014, 11:15 - FENS-0979**
MUSCARINIC AGONISTS PROMOTE WAKEFULNESS IN RODENTS VIA THE M1 RECEPTOR SUBTYPE 2814
E. Shanks, A. McCarthy, N. Hewes, W. Seidel, D. Kellett, D.M. Edgar, K. Wafford *(Windlesham, United Kingdom)*

E022 **TUE 8/7/2014, 12:15 - FENS-0560**
ABCB-1-GENOTYPE INFLUENCES HUMAN SLEEP 2815
A. Steiger, M. Kluge, A. Yassouridis, M. Uhr *(München, Germany)*

E023 **TUE 8/7/2014, 11:15 - FENS-1169**
MODULATION OF HYPOTAHALAMIC MCH-EXPRESSING NEURONS BY PHARMACOGENETIC TOOLS GREATLY ALTERS THE SLEEP-WAKING CYCLE IN MICE 2816
C. Varin, S. Arthaud, M. Lazarus, T. Gallopin, P.H. Luppi, P. Fort *(Lyon, France)*

E024 **TUE 8/7/2014, 12:15 - FENS-3545**
INVOLVEMENT OF BDNF DNA METHYLATION IN SLEEP HOMEOSTASIS 2817
O. Ventskovska , N.N. Karpova, T. Porkka-Heiskanen *(Helsinki, Finland)*

F18: HUMAN COGNITION AND BEHAVIOUR - LEARNING AND LONG-TERM MEMORY

F001 **TUE 8/7/2014, 11:15 - FENS-2917**
EFFECTS OF OBESTATIN FRAGMENT (1-4) ON LEARNING AND LONG TERM MEMORY IN ADULT FEMALE WISTAR RATS 2818
E. Motorykina, E. Khirazova, M. Maslova, A. Graf, N. Sokolova, A. Kamenskij *(Moscow, Russia)*

F002 **TUE 8/7/2014, 12:15 - FENS-0773**
EVENT-RELATED POTENTIALS REVEAL MATH ANXIETY EFFECTS ON ELEMENTARY NUMERICAL COGNITION 2819
M. Núñez-Peña1, M. Suárez-Pellicioni *(Barcelona, Spain)*

F003 **TUE 8/7/2014, 11:15 - FENS-3264**
MONETARY REWARD MODULATES TASK-IRRELEVANT PERCEPTUAL LEARNING FOR INVISIBLE STIMULI 2820
D. Pascucci, T.M. Tommaso Mastropasqua, M.T. Massimo Turatto *(Rovereto, Italy)*

F004 **TUE 8/7/2014, 12:15 - FENS-2997**
SLEEP MEDICINE KNOWLEDGE AND ATTITUDES AMONG DENTAL MEDICINE STUDENTS 2821
R. Pecotic, M. Valic, L. Lusic, K. Peros, I. Pavlinac Dodig, Z. Dogas *(Split, Croatia)*

F005 **TUE 8/7/2014, 11:15 - FENS-2962**
SUBCLINICAL ORAL EXPOSURE TO CHLORPYRIFOS DIFFERENTIALLY AFFECTS PHYSICAL AND BEHAVIORAL ENDPOINTS IN APOE2, APOE3 AND APOE4 TRANSGENIC MICE 2822
F. Peris Sampedro, I. Reverte, M. Cabre, T. Neri, P. Basaure, J.L. Domingo, M.T. Colomina *(Reus, Spain)*

F006 **TUE 8/7/2014, 12:15 - FENS-3208**
IS MORE ALWAYS BETTER? COGNITIVE AND ANATOMICAL MARKERS OF THE MATHEMATICAL BRAIN 2823
T. Popescu, M. Schaer, E. Sader, D.B. Terhune, A. Dowker, R. Cohen Kadosh *(Oxford, United Kingdom)*

F007 **TUE 8/7/2014, 11:15 - FENS-1352**
VALENCED ACTION/INHIBITION LEARNING IN HUMANS MODULATED BY A GENETIC VARIATION OF DOPAMINE D2 RECEPTOR EXPRESSION 2824
A. Richter, M. Guitart-Masip, A. Barman, E. Düzel, C.I. Seidenbecher, B.H. Schott *(Magdeburg, Germany)*

F008 **TUE 8/7/2014, 12:15 - FENS-2304**
PROPRANOLOL REDUCES THE SUBJECTIVE SENSE OF REMEMBERING 2825
U. Rimmele, S.F. Lackovic, R.H. Tobe, B.L. Leventhal, E.A. Phelps *(Geneva, Switzerland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F009 **TUE 8/7/2014, 11:15 - FENS-2478**
THE GROUNDS FOR SUCCESSFUL NEUROFEEDBACK 2826
J. Rogala, K. Jurewicz, K. Paluch, E. Kublik, A. Wrobel *(Warszawa, Poland)*

F010 **TUE 8/7/2014, 12:15 - FENS-0368**
BEHAVIOURAL STRATEGIES AND BRAIN ACTIVITY IN HUMAN SPATIAL EXPLORATION 2827
C. Roppelt, S. Glasauer, V.L. Flanagin *(München, Germany)*

F011 **TUE 8/7/2014, 11:15 - FENS-1292**
MOTOR CORTEX-EVOKED ACTIVITY IN RECIPROCAL MUSCLES IS MODULATED BY REWARD PROBABILITY 2828
M. Suzuki, H. Kirimoto, K. Sugawara, M. Watanabe, A. Matsunaga, M. Fukuda, H. Onishi *(Sagamihara, Japan)*

F012 **TUE 8/7/2014, 12:15 - FENS-2382**
SLEEP SUPPRESSES THE MEMORY CONSOLIDATION OF LOWER-VALUED ITEMS IN COMPETITION WITH HIGHER-VALUED ITEMS 2829
A. Tolat, A.H. Javadi, H. Spiers *(Gillingham, United Kingdom)*

F013 **TUE 8/7/2014, 11:15 - FENS-1497**
COMPARATION OF TOTAL DENDRITIC LENGTH OF NEURONS IN HUMAN HIPPOCAMPAL FORMATION 2830
M. Vulovic, I. Zivanovic Macuzic, J. Tosevski *(Kragujevac, Serbia)*

F19: ANIMAL COGNITION AND BEHAVIOUR - ATTENTION

F014 **TUE 8/7/2014, 12:15 - FENS-3062**
LISTEN UP! A TASK OF SELECTIVE ATTENTION TO SOUND IN RAT 2831
E. Andreeva, W. Von der Behrens *(Zurich, Switzerland)*

F015 **TUE 8/7/2014, 11:15 - FENS-1669**
REAL-TIME DECODING OF VISUAL ATTENTION FROM MONKEY PREFRONTAL POPULATION ACTIVITIES: TOWARDS CONTEXT INDEPENDENT HIGH PERFORMANCE COGNITIVE BRAIN COMPUTER INTERFACES 2832
E. Astrand, C. Wardak, S. Ben Hamed *(Bron, France)*

F016 **TUE 8/7/2014, 12:15 - FENS-0929**
THE ROLE OF DOPAMINE TRANSPORTER IN EXECUTIVE CONTROL FUNCTION OF ATTENTION 2833
A. Cybulska-Klosowicz, R. Zakrzewska *(Warsaw, Poland)*

F017 **TUE 8/7/2014, 11:15 - FENS-3702**
PROJECTIONS FROM THE SEPTAL AREA TARGET THE RAT'S NUCLEUS INCERTUS 2834
O. Francisco Eliseo, I. Arnal-Vicente, H. Albert-Gascó, A. García-Avilés, N. El Mlili, A.M. Sánchez-Pérez *(Valencia, Spain)*

F018 **TUE 8/7/2014, 12:15 - FENS-0630**
IMMEDIATE AND DELAYED IMPACTS OF FAT CONSUMPTION ON ATTENTION AND INHIBITORY CONTROL 2835
N. Grissom, J. Lidsky-Everson, K. Hershey, A. Miller, C.T. Herdt, T.M. Reyes *(Philadelphia, USA)*

F019 **TUE 8/7/2014, 11:15 - FENS-3434**
ZOLPIDEM IMPAIRS COGNITIVE FLEXIBILITY BUT NOT WORKING MEMORY IN RATS 2836
C. Liet, M.L. Bocca, M. Boulouard, V. Lelong-Boulouard *(Caen, France)*

F020 **TUE 8/7/2014, 12:15 - FENS-0423**
THE EFFECTS OF REPEATED STRESS ON RATS' PERFORMANCE IN THE FIVE-CHOICE SERIAL REACTION TIME TASK 2837
A. Nikiforuk, P. Popik *(Krakow, Poland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F021 **TUE 8/7/2014, 11:15 - FENS-1110**
AN ASCENDING GLYCINERGIC PATHWAY FROM THE BRAINSTEM SYNCHRONIZES THALAMOCORTICAL ACTIVITY 2838
V. Plattner, M.A. Diana, K. Giber, H. Bokor, Z. Maglóczky, H.U. Zeilhofer, S. Dieudonne, L. Acsady *(Budapest, Hungary)*

F022 **TUE 8/7/2014, 12:15 - FENS-2936**
DIFFERENCES IN ATTENTION AND IMPULSIVITY AND RELATED NEUROTRANSMITTER SYSTEMS IN APOE2, APOE3 AND APOE4 MICE 2839
I. Reverte, F. Peris-Sampedro, P. Basaure, M. Moreno, L. Campa, C. Suñol, J.L. Domingo, M.T. Colomina *(Tarragona, Spain)*

F023 **TUE 8/7/2014, 11:15 - FENS-0355**
ASSESSING ATTENTION IN ZEBRAFISH (DANIO RERIO) THROUGH A MODIFIED VERSION OF NOVEL OBJECT RECOGNITION TEST USING TWO I-PODS 2840
M. Sala, D. Braida *(Milan, Italy)*

F024 **TUE 8/7/2014, 12:15 - FENS-2532**
RECASTING THE INTERPLAY BETWEEN CONTRAST AND ATTENTION 2841
E. Santandrea, I. Sani, A. Golzar, M.C. Morrone, L. Chelazzi *(Verona, Italy)*

F025 **TUE 8/7/2014, 11:15 - FENS-1595**
PHENOTYPIC DIFFERENCES IN RESPONSES TO A PROGRAM FOR EXTINCTION OF CONDITIONED FEAR 2842
A. Serrano Barroso, E. Díaz, A. Mena, F.J. Pérez, P. Revilla, J.C. López *(Seville, Spain)*

F026 **TUE 8/7/2014, 12:15 - FENS-3019**
EFFECTS OF LONG-TERM ADMINISTRATION OF ATOMOXETINE ON ATTENTIONAL SET-SHIFTING AND ACTIVITY IN THE RAT LOCUS COERULEUS AND PREFRONTAL CORTEX 2843
N. Totah, R.M. Neves, G. Katakalidis, N.K. Logothetis, O. Eschenko *(Tübingen, Germany)*

F027 **TUE 8/7/2014, 11:15 - FENS-3040**
CHOLINERGIC MODULATION OF ATTENTION EFFECTS IN AREA MT OF PRIMATE VISUAL CORTEX 2844
V. Veith, C. Quigley, S. Treue *(Göttingen, Germany)*

F028 **TUE 8/7/2014, 12:15 - FENS-0125**
THE DYNAMICS OF TRANSSACCADIC ATTENTION SHIFTS IN AREA MT OF THE MACAQUE MONKEY 2845
T. Yao, S. Treue, B.S. Krishna *(Göttingen, Germany)*

F20: ANIMAL COGNITION AND BEHAVIOUR - COGNITIVE LEARNING AND MEMORY SYSTEMS

F029 **TUE 8/7/2014, 11:15 - FENS-0942**
ADOLESCENT ALCOHOL EXPOSURE INDUCES LONG-TERM COGNITIVE DEFICIT AND SEX-DEPENDENT ALTERATIONS IN THE PREFRONTAL CORTEX OF ADULT RATS 2846
E. Marco, M.D. Hernández, M.E. Serrano, S. Peñasco, A.B. Gil, C. Guerri, M. López-Gallardo, M.P. Viveros *(Madrid, Spain)*

F030 **TUE 8/7/2014, 12:15 - FENS-3370**
COGNITIVE AND NEUROPSYCHIATRIC SYMPTOMS IN A MOUSE MODEL OF PARKINSON'S DISEASE 2847
D. Masini, A. Bonito-Oliva, M. Pignatelli, G. Spigolòn, S. Seiler, T. Yoshitake, J. Kehr, B. Nicola, R. Mercuri Nisticó, G. Fisone *(Stockholm, Sweden)*

F031 **TUE 8/7/2014, 11:15 - FENS-2056**
EFFECTS OF EXTREMELY LOW-FREQUENCY ELECTROMAGNETIC FIELDS ON OLFACTORY MEMORY 2848
A. Mastrodonato, S.A. Barbati *(Rome, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F032 **TUE 8/7/2014, 12:15 - FENS-1460**

STUDY OF SELECTIVE IMMUNOLESIONS OF MEDIAL SEPTAL CHOLINERGIC AND GABA-ERGIC NEURONS ON HIPPOCAMPAL DEPENDENT MEMORY AND LEARNING PROCESS 2849

S. Mataradze, T. Naneishvili, M. Demurishvili, M. Chigladze, K.H. Rusadze *(Tbilisi, Georgia)*

F033 **TUE 8/7/2014, 11:15 - FENS-2704**

LIMBIC NPY1R AFFECTS PERINEURONAL NET STRUCTURE IN THE LIMBIC SYSTEM 2850

P. Mele, A. Longo, I. Bertocchi, S. Berbotto, F. Rossi, D. Carulli, C. Eva *(Orbassano, Italy)*

F034 **TUE 8/7/2014, 12:15 - FENS-3619**

AUTOMATIC COMPARISON BETWEEN STIMULUS DURATIONS IN THE PREFRONTAL CORTEX WHEN IRRELEVANT FOR TASK PERFORMANCE 2851

S. Mohammad Abdellatif, R. Cirillo, A. Genovesio *(Rome, Italy)*

F035 **TUE 8/7/2014, 11:15 - FENS-1000**

EFFECTS OF CHRONIC SOCIAL DEFEAT STRESS, ALONE AND IN COMBINATION WITH CLOMIPRAMINE, ON INHIBITORY AVOIDANCE IN MICE 2852

S. Monleon, A. Duque, C. Vinader-Caerols, A. Parra *(Valencia, Spain)*

F036 **TUE 8/7/2014, 12:15 - FENS-1897**

HETEROGENEITY IN COGNITIVE AGING: LOOKING FOR STRUCTURAL CORRELATES 2853

C. Mota, R. Taipa, S. Neves, S. Martins, P. Costa, J. Palha, J. Sousa, N. Sousa, J. Cerqueira *(Braga, Portugal)*

F037 **TUE 8/7/2014, 11:15 - FENS-0871**

CONDITIONAL DELETION OF SEIZURE-RELATED GENE 6 (SEZ-6) IN EXCITATORY NEURONS OF THE ADULT MOUSE AND CONSEQUENCES FOR LEARNING AND MEMORY 2854

K. Munro, N. Zahn, K. Teng, M. Audige, H. Pelenda, J. Power, J. Gunnersen *(Parkville, Australia)*

F038 **TUE 8/7/2014, 12:15 - FENS-0751**

WHEN IS THE RETROSPLENIAL CORTEX REQUIRED FOR SPATIAL ALTERNATION PROBLEMS? 2855

A. Nelson, S.D. Vann, J.P. Aggleton *(Cardiff, United Kingdom)*

F039 **TUE 8/7/2014, 11:15 - FENS-1762**

IMPACT OF THE EXTRACELLULAR MATRIX IN SENSORY CORTEX ON MEMORY STABILITY AND LEARNING FLEXIBILITY 2856

H. Niekisch, M. Deliano, R. Frischknecht, M.F.K. Happel *(Magdeburg, Germany)*

F040 **TUE 8/7/2014, 12:15 - FENS-2091**

OXYTOCIN INCREASES PERFORMANCE ON A SOCIAL COGNITIVE TASK IN THE FEMALE DOMESTIC DOG 2857

J. Oliva, J.L. Rault, B. Appleton, A. Lill *(Melbourne, Australia)*

F041 **TUE 8/7/2014, 11:15 - FENS-2392**

THE HIPPOCAMPAL COGNITIVE MAP IS REARRANGED TO REPRESENT REINFORCEMENT RELEVANT DIMENSIONS 2858

T. Ozdogan, A. Ponomarenko, D. Schmitz, G. Morris *(Berlin, Germany)*

F042 **TUE 8/7/2014, 12:15 - FENS-3381**

SELECTION OF LABORATORY MICE FOR COGNITIVE TRAIT AND LOW ANXIETY. CHANGES IN AGGRESSION, NOVELTY SEEKING AND LEARNING ABILITY 2859

I. Poletaeva, O. Perepelkina, V. Golibrodo, I. Lilp *(Moscow, Russia)*

F043 **TUE 8/7/2014, 11:15 - FENS-0186**

THE SPECIFIC ROLES OF CORTICO-STRIATAL BRAIN AREAS IN THE ACQUISITION AND FLEXIBILITY OF GOAL-DIRECTED LEARNING 2860

T. Pooters, I. Gantois, B. Vermaercke, L. Arckens, R. D'hooge *(Leuven, Belgium)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F044 **TUE 8/7/2014, 12:15 - FENS-1773**

PROTEIN SYNTHESIS DOES NOT CORRELATE WITH LONG-TERM MEMORY 2861

R. Prado-Alcala, A.C. Medina, S. González-Salinas, A. Navarro, A. Antaramian *(Queretaro, Mexico)*

F045 **TUE 8/7/2014, 11:15 - FENS-2397**

ANXIETY MODULATES DEFICITS IN 'COGNITIVE BINDING' IN A GLUTATHIONE DEFICIT ANIMAL MODEL OF SCHIZOPHRENIA 2862

D. Preissmann, M. Depré, F. Laroque, F. Schenk, L. Bertholet, P. Gisquet-Verrier *(Lausanne, Switzerland)*

F21: ANIMAL COGNITION AND BEHAVIOUR - APPETITIVE AND INCENTIVE LEARNING AND MEMORY

F046 **TUE 8/7/2014, 12:15 - FENS-1394**

NUCLEUS ACCUMBENS SHELL AND CORE DOPAMINE MODIFICATIONS DURING OPERANT RESPONDING FOR SUCROSE 2863

V. Bassareo, F. Cucca, P. Musio, D. Lecca, R. Frau, G. Di Chiara *(Cagliari, Italy)*

F047 **TUE 8/7/2014, 11:15 - FENS-2290**

PHASIC DOPAMINE TRACKS CHANGES IN THE BENEFITS BUT NOT THE COSTS OF A COURSE OF ACTION 2864

M. Baudonnat, E. Lin, S. Cuell, A. Huber, M.E. Walton *(Oxford, United Kingdom)*

F048 **TUE 8/7/2014, 12:15 - FENS-2113**

CATECHOL-O-METHYLTRANSFERASE MODULATES THE INFLUENCE OF CUE SALIENCE ON ASSOCIATIVE LEARNING 2865

A. Huber, J. Gaunt, E.M. Tunbridge, M.E. Walton *(Oxford, United Kingdom)*

F049 **TUE 8/7/2014, 11:15 - FENS-3329**

ENCODING CHANGES IN THE VALUE OR IDENTITY OF REWARD BY MESOLIMBIC DOPAMINE 2866

G. Papageorgiou, M. Baudonnat, E.M. Walton *(Oxford, United Kingdom)*

F050 **TUE 8/7/2014, 12:15 - FENS-2221**

DOPAMINE IN ACTION: CONTRASTING REWARD PREDICTION AND RESPONSE INITIATION 2867

E. Syed, P.J. Magill, P. Brown, M.E. Walton *(Oxford, United Kingdom)*

F051 **TUE 8/7/2014, 11:15 - FENS-3010**

MOTIVATION CAN ACCOUNT FOR VARIABILITY IN PERFORMANCE AT THE SINGLE SESSION LEVEL IN AN ACQUIRED VISUAL DISCRIMINATION TASK 2868

A. Berditchevskaia, R.D. Cazé, S.R. Schultz *(London, United Kingdom)*

F052 **TUE 8/7/2014, 12:15 - FENS-3295**

INVOLVEMENT OF ASTROCYTE-DERIVED LACTATE IN THE FORMATION AND MAINTENANCE OF COCAINE-SEEKING BEHAVIOR 2869

B. Boury Jamot, O. Halfon, P. Magistretti, B. Boutrel *(Lausanne, Switzerland)*

F053 **TUE 8/7/2014, 11:15 - FENS-0642**

CRF1 RECEPTORS IN THE VENTRAL TEGMENTAL AREA REGULATE COCAINE-SEEKING IN MICE 2870

N. Chen, B. Jupp, Y. Sztainberg, J.H. Kim, R.M. Brown, A. Chen, A.J. Lawrence *(Parkville, Australia)*

F054 **TUE 8/7/2014, 12:15 - FENS-0756**

INACTIVATION OF NMDA RECEPTORS IN DOPAMINE NEURONS IMPAIRS STRATEGY SET-SHIFTING IN MICE 2871

P. Cieslak, K. Lopata, J. Rodriguez Parkitna *(Kraków, Poland)*

F055 **TUE 8/7/2014, 11:15 - FENS-0745**

ALTERED REWARD SENSITIVITY IN TRANSGENIC MICE LACKING NMDA RECEPTORS ON DOPAMINE NEURONS 2872

K. Lopata, P.E. Cieslak, M. Turbasa, J. Rodriguez Parkitna *(Cracow, Poland)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F056 **TUE 8/7/2014, 12:15 - FENS-1849**

INDUCIBLE INACTIVATION OF NMDA RECEPTORS ON DOPAMINOCEPTIVE NEURONS SELECTIVELY IMPAIRS DRUG-CONDITIONED PLACE PREFERENCE 2873

J. Rodriguez Parkitna, M. Sikora, M. Smutek, J. Zajdel, J. Sowa, K. Tokarski, P.E. Cieslak, K. Lopata, M. Zygmunt, A. Bartelik, G. Hess, R. Przewlocki *(Krakow, Poland)*

F057 **TUE 8/7/2014, 11:15 - FENS-1224**

DORSO-STRIATAL, BUT NOT HIPPOCAMPAL LESIONS IMPAIR THE ACQUISITION OF PAL AND VMCL TASKS IN MICE 2874

D. Delotterie, C. Mathis, J.C. Cassel, H. Rosenbrock, C. Dorner-Ciossek, A. Marti *(Biberach an der Riss, Germany)*

F058 **TUE 8/7/2014, 12:15 - FENS-1689**

CONDITIONED SACCHARIN AVOIDANCE INDUCED BY INFUSION OF AMPHETAMINE IN THE NUCLEUS ACCUMBENS SHELL AND MORPHINE IN THE VENTRAL TEGMENTAL AREA 2875

E. Espa, S. Fenu, C. Cadoni, G. Di Chiara *(Cagliari, Italy)*

F059 **TUE 8/7/2014, 11:15 - FENS-2861**

AN ANIMAL MODEL FOR STUDIES OF EXERCISE EFFECTS ON DEPRESSION AND ANXIETY 2876

P. Han, T. Kim, J. Park, J. Lee *(Seoul, Korea)*

F060 **TUE 8/7/2014, 12:15 - FENS-0293**

DISTINCT PLASTICITY MECHANISMS IN THE BASAL GANGLIA AND THEIR FUNCTIONAL ROLE IN REINFORCEMENT LEARNING 2877

J. Jitsev, M. Tittgemeyer, A. Morrison *(Juelich, Germany)*

F061 **TUE 8/7/2014, 11:15 - FENS-2680**

MECHANISMS OF WATER INTAKE BEHAVIOR AFTER HYPERTONIC SALINE CONSUMPTION 2878

A. Kitamura, T. Tsurugizawa, H. Uneyama *(Kawasaki, Japan)*

F062 **TUE 8/7/2014, 12:15 - FENS-0841**

ROLE OF THE DORSAL HIPPOCAMPUS IN ACQUISITION, CONSOLIDATION AND RETRIEVAL OF ONE-TRIAL COCAINE TRAINING MEMORY 2879

C. Kramar, M.F. Barbano, J.H. Medina *(Buenos Aires, Argentina)*

F063 **TUE 8/7/2014, 11:15 - FENS-1860**

SHUTDOWN OF THE INSULA AFTER EXPOSURE TO A NOVEL RELAPSE PREVENTION INTERVENTION IN RATS 2880

S. Navailles, P. Girardeau, S.H. Ahmed *(Bordeaux, France)*

F064 **TUE 8/7/2014, 12:15 - FENS-2173**

EVOKED POTENTIALS REVEAL THE SPATIOTEMPORAL ORGANIZATION OF PHASIC DOPAMINE NEURON ACTIVITY 2881

W. Pan, J. Dudman *(Ashburn, USA)*

F065 **TUE 8/7/2014, 11:15 - FENS-2365**

REPEATED CYCLES OF RESTRICTED AND UNRESTRICTED FOOD INTAKE ALTER GOAL-DIRECTED BEHAVIOR 2882

S. Parkes, A. Black, T. Furlong, B. Balleine *(Sydney, Australia)*

F066 **TUE 8/7/2014, 12:15 - FENS-1170**

INTER-INDIVIDUAL DIFFERENCES IN DECISION MAKING: BEHAVIORAL PROFILES AND ASSOCIATED BRAIN CIRCUITS 2883

E. Pittaras, B. Poly, J. Callebert, A. Rabat, S. Granon *(Orsay, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F067 **TUE 8/7/2014, 11:15 - FENS-0098**

FATE OF SILENT SYNAPSES IN COCAINE ADDICTION 2884

A. Shukla, A. Suska, O.M. Schlüter *(Göttingen, Germany)*

F068 **TUE 8/7/2014, 12:15 - FENS-0801**

SEPARATING MOTOR AND REWARD COMPONENTS OF STRIATAL SENSORY RESPONSES TO REWARD-PAIRED STIMULI 2885

C. Stubbendorff, A.M.J. Young, T.V. Gerdjikov *(Leicester, United Kingdom)*

F069 **TUE 8/7/2014, 11:15 - FENS-3455**

A PSYCHOLOGICAL MODEL OF ANIMAL CURIOSITY: SENSORY REINFORCEMENT BY LIGHT STIMULI WITH RATS AND MICE 2886

Y. Tsutsui *(Fukushima, Japan)*

F070 **TUE 8/7/2014, 12:15 - FENS-3368**

UNLIKE HUMANS, RATS ARE UNABLE TO LIMIT DRUG USE IN ANTICIPATION OF ITS NEGATIVE CONSEQUENCES ON OTHER ACTIVITIES 2887

Y. Vandaele, C. Vouillac, S.H. Ahmed *(Bordeaux, France)*

F22: NEUROETHOLOGY

F071 **TUE 8/7/2014, 11:15 - FENS-2019**

BRAIN CYTOARCHITECTURE OF OBLIGATORY CLEANER LABROIDES DIMIDIATUS LABRIDAE (PERCIFORMES, TELEOSTEI) 2888

D. Chojnacka *(Katowice, Poland)*

F072 **TUE 8/7/2014, 12:15 - FENS-2677**

NEURAL RESPONSES TO DIFFERENTLY ORIENTED "POP-OUT" VISUAL TARGETS IN THE OPTIC TECTUM OF THE BARN OWL 2889

A. Dutta, Y. Gutfreund *(Haifa, Israel)*

F073 **TUE 8/7/2014, 11:15 - FENS-0448**

IMPACT OF PHYSICAL ACTIVITY ON BRAIN FUNCTION: AN EVOLUTIONARY AND NEUROCHEMICAL BACKGROUND 2890

V. Dyakonova, A.L. Krushinsky, D.A. Sakharov *(Moscow, Russia)*

F074 **TUE 8/7/2014, 12:15 - FENS-0622**

A NOVEL METHOD TO ASSESS BEHAVIOR OF INDIVIDUAL MICE UNDER GROUP-HOUSED CONDITIONS AND ITS APPLICATION TO ANALYZE SOCIAL BEHAVIOR 2891

N. Endo, W. Ujita, C. Tohyama, M. Kakeyama *(Tokyo, Japan)*

F075 **TUE 8/7/2014, 11:15 - FENS-3412**

ESTERS PRODUCTION IN YEAST ALTERS NEURAL RESPONSES IN THE FRUITFLY ANTENNAL LOBE, INCREASES THEIR ATTRACTIVENESS AND PROMOTES THEIR DISPERSAL 2892

L.M. Franco, J.F. Christiaens, T. Cools, L. De Meester, J. Michiels, T. Wenseleers, B.A. Hassan, E. Yaksi, K.J. Verstrepen *(Leuven, Belgium)*

F076 **TUE 8/7/2014, 12:15 - FENS-0294**

UP-REGULATION OF DNA METHYLTRANSFERASE 3A MRNA EXPRESSION IN THE BRAINS OF FOXES SELECTED FOR TAME SOCIAL BEHAVIOR 2893

Y. Herbeck, N. Goncharova, R. Gulevich, L. Trut *(Novosibirsk, Russia)*

F077 **TUE 8/7/2014, 11:15 - FENS-3005**

OLFACTORY ETHOGRAM IN THE ADULT ZEBRAFISH 2894

F. Kermen, L. Darnet, J. Bechert, Y. Yang, E. Yaksi *(Leuven, Belgium)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F078 **TUE 8/7/2014, 12:15 - FENS-1526**
STEREOTYPY AND DIMENSIONALITY OF VOCALIZATIONS 2895
S. Kollmorgen, J. Herbst, N. Giret, T. Templier, R.H.R. Hahnloser *(Zurich, Switzerland)*

F079 **TUE 8/7/2014, 11:15 - FENS-1631**
COMPETITION AND HIERARCHY FORMATION IN HUMANS 2896
A. Strasser, F. Hollis, C. Sandi *(Lausanne, Switzerland)*

F080 **TUE 8/7/2014, 12:15 - FENS-2585**
THE MULTIPARITY MAY ALTER MATERNAL BEHAVIOR IN LACTATING FEMALE RATS? 2897
E. Teodorov, M.M. Bernardi, L.F. Felicio *(Santo André, Brazil)*

F081 **TUE 8/7/2014, 11:15 - FENS-2949**
KALMAN FILTER MODELING OF REINFORCED BEHAVIOR - AN APPLICATION TO PITCH AND TEMPO LEARNING IN SONGBIRDS 2898
A. Zai, F. Blättler, A.E. Stepien, A. Canopoli, R.H.R. Hahnloser *(Zurich, Switzerland)*

G09: PHYSIOLOGICAL METHODS - OPTOGENETICS

G001 **TUE 8/7/2014, 11:15 - FENS-2063**
NEUROMODULATION OF SEXUAL BEHAVIOR: A ROLE FOR SEROTONIN? 2899
P. Correia, S.S. Valente, S.Q. Lima, Z.F. Mainen *(Lisboa, Portugal)*

G002 **TUE 8/7/2014, 12:15 - FENS-2118**
A PHOTOCHROMIC ALLOSTERIC MODULATOR TO CONTROL ENDOGENOUS G PROTEIN-COUPLED RECEPTORS WITH LIGHT 2900
P. Gorostiza, S. Pittolo, X. Gómez-Santacana, K. Eckelt, X. Rovira, J. Dalton, C. Goudet, J.P. Pin, A. Llobet, J. Giraldo, A. Llebaria *(Barcelona, Spain)*

G003 **TUE 8/7/2014, 11:15 - FENS-1012**
OPTICAL CONTROL OF RECEPTOR TYROSINE KINASES 2901
A. Ingles-Prieto, R. Riedler, K. Schelch, E. Riedler, M. Grusch, H. Janovjak *(Klosterneuburg, Austria)*

G004 **TUE 8/7/2014, 12:15 - FENS-0222**
RAAV2 PSEUDOTYPED VECTORS IN THE PRIMARY VISUAL CORTEX OF THE MOUSE: EXPRESSION PATTERN AND CELL SPECIFICITY 2902
M. Laramee, I. Scheyltjens, E. Dekeyster, C. Van den Haute, Z. Debyser, S. Vreysen, L. Arckens *(Leuven, Belgium)*

G005 **TUE 8/7/2014, 11:15 - FENS-3269**
FUNCTIONAL IMAGING OF ACTIVITY-DEPENDENT CHANGES IN REGIONAL CEREBRAL BLOOD FLOW INDUCED BY ELECTRICAL AND OPTOGENETIC SELF-STIMULATION IN AWAKE RODENTS 2903
M. Lippert, A. Kolodziej, M. Brocka, T. Wanger, K. Takagaki, F. Angenstein, H. Scheich, J. Goldschmidt, F.W. Ohl *(Magdeburg, Germany)*

G006 **TUE 8/7/2014, 12:15 - FENS-1385**
ADVANTAGES AND LIMITATIONS OF THE USE OF OPTOGENETIC APPROACH IN STUDYING SPIKE ENCODING 2904
A. Malyshev, R. Goz, J. LoTurco, M. Volgushev *(Moscow, Russia)*

G007 **TUE 8/7/2014, 11:15 - FENS-3542**
LONG-TERM MONITORING OF SEROTONERGIC NEURONAL ACTIVITY IN BEHAVING MICE THROUGH AN OPTICAL FIBER 2905
S. Matias, E. Lottem, G.P. Dugué, Z. Mainen *(Lisboa, Portugal)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G008 **TUE 8/7/2014, 12:15 - FENS-0375**
WIDE-FIELD PHOTOACTIVATION OF IN VITRO NEURONAL NETWORKS: THE IMPACT OF STIMULUS DURATION 2906
G. Musumeci, R. Pulizzi, J. Motylewski, I. Biro, M. Giugliano *(Wilrijk, Belgium)*

G009 **TUE 8/7/2014, 11:15 - FENS-0728**
RED LIGHT CONTROLLED RECEPTOR TYROSINE KINASES 2907
E. Reichhart, R. Riedler, M. Grusch, H. Janovjak *(Klosterneuburg, Austria)*

G010 **TUE 8/7/2014, 12:15 - FENS-3496**
IMAGING CORTICAL ACTIVITY IN A TRANSGENIC MOUSE EXPRESSING A VOLTAGE INDICATOR 2908
D. Shimaoka, A. Benucci, T. Knöpfel, M. Carandini, H. Zeng *(London, United Kingdom)*

G011 **TUE 8/7/2014, 11:15 - FENS-2358**
RED FLUORESCENT GENETICALLY ENCODED VOLTAGE INDICATORS FOR IMAGING NEURAL CIRCUIT DYNAMICS IN COMBINATION WITH OPTOGENETIC MANIPULATION 2909
C. Song, S.G. Gautam, T. Knöpfel *(London, United Kingdom)*

G012 **TUE 8/7/2014, 12:15 - FENS-1695**
ESTABLISHING A PROOF-OF-PRINCIPLE FOR NANOWIRE LED-BASED OPTOGENETIC PROBES 2910
J. Wickham, D. Suyatin, M. Andersson, K. Storm, L. Samuelsson, L. Montelius, J. Schouenborg, M. Kokaia *(Lund, Sweden)*

G10: PHYSIOLOGICAL METHODS - ELECTROPHYSIOLOGY

G013 **TUE 8/7/2014, 11:15 - FENS-3305**
DESIGN AND FABRICATION OF ALL-POLYMER MICROELECTRODE ARRAYS WITH POLYMER MIXTURE-POLYDIMETHYLSILOXANE COMPOSITE ELECTRODES 2911
A. Golabchi, R. Habibey, M. Nanni, F. Succol, A. Blau *(Genova, Italy)*

G014 **TUE 8/7/2014, 12:15 - FENS-1784**
A NON-PARAMETRIC APPROACH TO DETERMINING INFORMATION FLOW BETWEEN NEURONAL SIGNALS 2912
D. Halliday, M.H. Senik, M.F. O'Donoghue, C.W. Stevenson, R. Mason *(York, United Kingdom)*

G015 **TUE 8/7/2014, 11:15 - FENS-2872**
MICROFLUIDICS COMBINED WITH MICROELECTRODE ARRAYS FOR NEUROMODULATOR STIMULATION 2913
N. Herzog, A. Johnston, N. Russell *(Nottingham, United Kingdom)*

G016 **TUE 8/7/2014, 12:15 - FENS-1900**
METHOD OF LONG-TERM NEURAL RECORDING FROM THE ORBITOFRONTAL CORTEX OF FREELY MOVING MICE WITH DIFFERENT ANXIOUS PHENOTYPE 2914
J. Horvath, L. Papp, R.G. Averkin *(Szeged, Hungary)*

G017 **TUE 8/7/2014, 11:15 - FENS-3600**
CORTICAL SOURCES OF RESTING STATE EEG RHYTHMS IN 'EXPERIENCED' HIV SUBJECTS UNDER ANTIRETROVIRAL THERAPY 2915
G. Noce, C. Babiloni, P. Onorati, C. Muratori, S. Ferracuti, F. Di Campli, L. Gianserra, E. Teti, A. Aceti, A. Soricelli, M. Andreoni, P.M. Rossini, A. Pennica *(Rome, Italy)*

G018 **TUE 8/7/2014, 12:15 - FENS-2181**
CAN MICROELECTRODE ARRAYS DETECT CALCIUM SPIKES? 2916
M. Obien, A. Hierlemann, U. Frey *(Kobe, Japan)*

11:15 - 13:15 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
G019	**TUE 8/7/2014, 11:15 - FENS-3493**	
	PERFORMANCE OF A DYNAMIC CLAMP SYSTEM BASED ON DISCONTINUOUS CURRENT CLAMP SYNCHRONIZED WITH A SOFTWARE LOOP	2917
	H. Polder, J. Looser, B. Sutor, J. Benda *(Tamm, Germany)*	
G020	**TUE 8/7/2014, 12:15 - FENS-3226**	
	MONOPOLAR HIGH FREQUENCY LANGUAGE MAPPING: A COMPARATIVE CLINICAL STUDY	2918
	M. Riva, A. Comi, A. Casarotti, E. Fava, T. Alfiero, F.A. Raneri, F. Pessina, L. Bello *(Milan, Italy)*	
G021	**TUE 8/7/2014, 11:15 - FENS-3373**	
	A PORTABLE ADAPTIVE DEEP BRAIN STIMULATION DEVICE IN PARKINSON'S DISEASE: A CASE REPORT	2919
	M. Rosa, M. Arlotti, R. Ferrucci, A. Di Fonzo, S. Marceglia, P. Rampini, A. Priori *(Milano, Italy)*	
G022	**TUE 8/7/2014, 12:15 - FENS-3047**	
	ASSESSING THE RELIABILITY OF TMS-EVOKED EEG POTENTIALS: INSIGHTS FROM PATIENTS WITH SEVERE CORTICAL LESIONS	2920
	M. Rosanova, S. Casarotto, O. Gosseries, S. Sarasso, M. Boly, M. Napolitani, M.A. Bruno, D. Ledoux, S. Laureys, M. Mariotti, M. Massimini *(Milan, Italy)*	
G023	**TUE 8/7/2014, 11:15 - FENS-2734**	
	CHANGES OF ACTION POTENTIAL CONDUCTION VELOCITY IN NEURON - OLIGODENDROCYTE CO-CULTURE	2921
	K. Sakai, K. Shimba, K. Kotani, Y. Jimbo *(Chiba, Japan)*	
G024	**TUE 8/7/2014, 12:15 - FENS-2652**	
	RECORDING AND STIMULATION OF RODENT RETINAL GANGLION CELLS USING NOVEL CMOS-BASED HIGH DENSITY MICRO ELECTRODE ARRAYS	2922
	H. Stutzki, M. Eickenscheidt, G. Bertotti, R. Thewes, G. Zeck *(Reutlingen, Germany)*	
G025	**TUE 8/7/2014, 11:15 - FENS-3682**	
	CARBON NANOTUBE COATING OF TWISTED WIRE TETRODES FOR CHRONIC SINGLE UNIT RECORDING IN RODENTS	2923
	K. Takagaki, M.T. Lippert, M. Deckert, S. Hirsch, T. Wanger, B. Schmidt, F.W. Ohl *(Magdeburg, Germany)*	
G026	**TUE 8/7/2014, 12:15 - FENS-3482**	
	CELL ACTIVITY MEASUREMENT USING PEDOT BASED FLEXIBLE ELECTRODE	2924
	K. Torimitsu, H. Takahashi, T. Sonobe, Y. Furukawa *(Sendai, Japan)*	
G027	**TUE 8/7/2014, 11:15 - FENS-0711**	
	ELECTRICALLY ACTIVE NEURONAL CULTURE ON GOLD SURFACES FOR PATTERNING AND SENSING	2925
	C. Towlson, D. Albutt, A. Morgan, N. Russell *(Nottingham, United Kingdom)*	
G028	**TUE 8/7/2014, 12:15 - FENS-2467**	
	REACTIVITY OF ANESTHETIC BURST-SUPPRESSION EEG TO TRANSCRANIAL DIRECT CURRENT STIMULATION	2926
	L. Zagrean, A.C. Paslaru, D. Zahiu, B. Pavel, A.O. Constantinescu, A. Ilie, A. Calin, A.M. Zagrean *(Bucharest, Romania)*	
G029	**TUE 8/7/2014, 11:15 - FENS-3256**	
	DYNAMIC CLAMP USING IMPLICIT RUNGE-KUTTA INTEGRATION	2927
	H. Zeberg, A. Wolk, H.P.C. Robinson, P. Arhem *(Stockholm, Sweden)*	

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13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A22: NEUROGENESIS AND GLIOGENESIS - CELL MIGRATION

A001 **TUE 8/7/2014, 13:30 - FENS-2757**
ROLE OF PLEXINA1 IN FOREBRAIN DEVELOPMENT 2928
W. Andrews, K. Davidson, N. Tamamaki, Y. Yoshida, C. Ruhrberg, J.G. Parnavelas *(London, United Kingdom)*

A002 **TUE 8/7/2014, 14:30 - FENS-2963**
MOLECULAR LAYER GABAERGIC INTERNEURONS MIGRATION PATHWAYS DURING CEREBELLAR CIRCUIT FORMATION 2929
F. Ango, C. Cadilhac, I. Bachy *(Montpellier, France)*

A003 **TUE 8/7/2014, 13:30 - FENS-2835**
MOLECULAR MECHANISMS REGULATING THE INTRACORTICAL MIGRATION OF INTERNEURONS 2930
G. Bartolini, J.A. Sánchez-Alcañiz, J.Z. Huang, O. Marín *(Alicante, Spain)*

A004 **TUE 8/7/2014, 14:30 - FENS-3186**
A POSSIBLE ROLE FOR THE 5HT3A RECEPTOR IN THE MIGRATION OF NEWBORN GRANULE CELLS IN THE ADULT HIPPOCAMPUS 2931
P. Bielefeld, M. Schouten, R. Schreurs, J.A. Van Hooft, P.J. Lucassen, C.P. Fitzsimons *(Amsterdam, The Netherlands)*

A005 **TUE 8/7/2014, 13:30 - FENS-1992**
DISSECTING THE NEURODEVELOPMENTAL ROLE OF THE MICROTUBULE-ASSOCIATED PROTEIN EML, MUTATED IN SUBCORTICAL HETEROTOPIA 2932
S. Bizzotto, F. Phan Dinh Tuy, M. Kielar, C. Lebrand, C. De Juan, K. Poirier, N. Bahi-Buisson, V. Borrell, E. Welker, J. Chelly, A. Croquelois, F. Francis *(Paris, France)*

A006 **TUE 8/7/2014, 14:30 - FENS-1752**
THE DOWNREGULATION OF K-CL COTRANSPORTER 2 (KCC2) PERTURBS THE DIFFERENTIATION, MIGRATION AND MATURATION OF LAYER II/III PYRAMIDAL NEURONS 2933
T. Bodogan, H. Fiumelli, A. Briner, M. Jacobshagen, K. Demeter, A. Dayer, K. Kaila, L. Vutskits *(Geneva, Switzerland)*

A007 **TUE 8/7/2014, 13:30 - FENS-0955**
THE ROLE OF DIGEORGE CRITICAL REGION 2 GENE IN CORTICAL CIRCUIT FORMATION 2934
A. Chenu, A. Dayer *(Geneva, Switzerland)*

A008 **TUE 8/7/2014, 14:30 - FENS-3094**
INVESTIGATING 5-HT3A DOWN-STREAM GENES REGULATING THE MIGRATION OF CGE-DERIVED CORTICAL INTERNEURONS 2935
G. Limoni, M. Niquille, S. Murthy, A. Dayer *(Geneve, Switzerland)*

A009 **TUE 8/7/2014, 13:30 - FENS-2956**
ESSENTIAL NON-CELL-AUTONOMOUS FUNCTION FOR BICAUDAL-D2 (BICD2) IN RADIAL CEREBELLAR GRANULE CELL MIGRATION 2936
D. Jaarsma, P.S. Wulf, R. Van den Berg, E. De Graaff, J. Pasterkamp, C.C. Hoogenraad *(Rotterdam, The Netherlands)*

A010 **TUE 8/7/2014, 14:30 - FENS-1612**
HETEROPHILIC INTERACTIONS OF THE CELL ADHESION MOLECULE CHL1 PROMOTES NEURITE OUTGROWTH AND NEURONAL MIGRATION DURING CEREBELLAR DEVELOPMENT 2937
J. Katic, G. Loers, R. Kleene, N. Karl, C. Schmidt, F. Buck, I. Jakovcevski, K. Preissner, M. Schachner *(Hamburg, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A011 **TUE 8/7/2014, 13:30 - FENS-1139**
ROLE OF CADHERIN-13 IN THE DEVELOPING MOUSE NERVOUS SYSTEM 2938
D. Kiser, O. Rivero, A. Forero, J. Waider, K.P. Lesch *(Würzburg, Germany)*

A012 **TUE 8/7/2014, 14:30 - FENS-2459**
ROLE OF VIMENTIN FILAMENTS IN CHICKEN CEREBELLUM AND BRAIN STEM EMBRYOGENESIS 2939
V. Kommata, A. Pittaras, C.R. Dermon *(Patras, Greece)*

A013 **TUE 8/7/2014, 13:30 - FENS-1681**
REORGANIZATION OF VASCULATURE AND CELLULAR COMPONENTS IN THE RAT ROSTRAL MIGRATORY STREAM DURING THE FIRST POSTNATAL MONTH 2940
M. Martoncikova, K. Fabianova, J. Blasko, E. Racekova *(Kosice, Slovakia)*

A014 **TUE 8/7/2014, 14:30 - FENS-1482**
RADIAL AND NON-RADIAL MIGRATION OF DILA AND DILB NEURONS IN THE SPINAL DORSAL HORN REVEALED BY TIME-LAPSE MICROSCOPY 2941
Z. Mészár, A. Balázs, M. Antal *(Debrecen, Hungary)*

A015 **TUE 8/7/2014, 13:30 - FENS-1916**
THE CHEMOKINE CXCL3 REGULATES THE MIGRATION OF CEREBELLAR PRECURSORS AND PREVENTS THEIR NEOPLASTIC TRANSFORMATION 2942
L. Micheli, M. Ceccarelli, S. Farioli-Vecchioli, G. D'Andrea, L. Leonardi, S. Cavallaro, F. Tirone *(Rome, Italy)*

A016 **TUE 8/7/2014, 14:30 - FENS-0443**
SYNAPSIN III REGULATES RADIAL MIGRATION AND ORIENTATION OF PYRAMIDAL NEURONS IN VIVO 2943
L. Perlini, J. Szczurkowska, B.B. Ballif, A. Piccini, S. Giovedì, F. Benfenati, L. Cancedda *(Genova, Italy)*

A23: STEM CELLS - BASIC BIOLOGY AND POSTNATAL NEUROGENESIS

A017 **TUE 8/7/2014, 13:30 - FENS-0648**
EFFECT OF WHOLE-BODY EXPOSURE TO THE 849 MHZ CDMA ON NEUROGENESIS IN THE ADULT RAT BRAIN 2944
H. Kim, Y. Kim, Y. Lee, Y. Lee, H. Choi, J. Pack, N. Kim, Y. Ahn *(Suwon, Korea)*

A018 **TUE 8/7/2014, 14:30 - FENS-0879**
CNTF AND LIF PROMOTE THE GROWTH OF ADULT NEURAL STEM CELLS IN MITOGEN-FREE CULTURES 2945
M. Kirsch, J. Reiser, P.S. BabyChakrapani, H.D. Hofmann *(Freiburg, Germany)*

A019 **TUE 8/7/2014, 13:30 - FENS-3578**
ABERRANT NEURAL STEM CELL PROLIFERATION AND INCREASED ADULT NEUROGENESIS IN NEURONAL CEROID LIPOFUSCINOSES 2946
K. Lejavova, V. Kärkkäinen, A.R. White, J. Koistinaho, K.M. Kanninen *(Kuopio, Finland)*

A020 **TUE 8/7/2014, 14:30 - FENS-3501**
VANGL2 OVEREXPRESSION/SILENCING DELAYS BETA-TUBULIN III EXPRESSION AND AFFECTS GAP JUNCTIONS VIA CX43 EXPRESSION IN C17.2 CELLS 2947
M. Lindqvist, T. Ringstedt, H. Lagercarntz *(Stockholm, Sweden)*

A021 **TUE 8/7/2014, 13:30 - FENS-2961**
AN ANATOMICAL CHARACTERISATION OF ADULT NEURAL STEM CELL PROCESSES IN THE MOUSE DENTATE GYRUS 2948
J. Moss, N. Toni *(Lausanne, Switzerland)*

A022 **TUE 8/7/2014, 14:30 - FENS-1257**
DEVELOPMENT OF A GOLGI STAINING METHOD FOR HUMAN POST-MORTEM BRAIN TISSUE TO FACILITATE INVESTIGATIONS INTO NEUROGENESIS IN ALZHEIMER 'S DISEASE 2949
H. Murray, V.F. Low, R.L.M. Faull, M.A. Curtis *(Auckland, New Zealand)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A023 **TUE 8/7/2014, 13:30 - FENS-1256**

BDNF REDUCTION IS ASSOCIATED TO HILAR PROLIFERATION IMPAIRMENT AND IMMATURE NEURONS DECREASE IN THE DENTATE GYRUS OF HYPOTHYROID ADULT RATS 2950

J. Pacheco-Rosado, K.B. Sánchez-Huerta, Y. García, P. Vergara, J. Segovia *(Mexico City, Mexico)*

A024 **TUE 8/7/2014, 14:30 - FENS-2350**

DOUBLECORTIN+ CELLS IN THE SHEEP BRAIN REVEAL HETEROGENEITY OF STRUCTURAL PLASTICITY IN MAMMALS 2951

R. Parolisi, M. Piumatti, A. Grindatto, P. Crociara, C. Corona, L. Bonfanti *(Grugliasco, Italy)*

A025 **TUE 8/7/2014, 13:30 - FENS-1836**

ENDOTHELIAL PROGENITORS DERIVED SOLUBLE FACTORS PROMOTE BRAIN MICROVASCULAR CELL VIABILITY 2952

R. Periasamy, A. Lena Fuchs, S. Seiler, H. R. Widmer, S. Di Santo *(Bern, Switzerland)*

A026 **TUE 8/7/2014, 14:30 - FENS-2254**

INVOLVEMENT OF MICRORNAS IN SURVIVAL AND DIFFERENTIATION OF ADULT HIPPOCAMPAL NEURAL STEM CELLS 2953

M. Pons, E. De Luca, A. Contestabile, K. Fabel, G. Kempermann, D. De Pietri Tonelli *(Genoa, Italy)*

A027 **TUE 8/7/2014, 13:30 - FENS-0814**

ROLE OF PRG-1 IN ADULT HIPPOCAMPAL NEUROGENESIS 2954

A. Prokudin, R. Nitsch, J. Vogt *(Mainz, Germany)*

A028 **TUE 8/7/2014, 14:30 - FENS-1736**

RETROVIRAL LABELING OF POSTNATALLY BORN DENTATE GRANULE CELLS IN ORGANOTYPIC ENTORHINAL-HIPPOCAMPAL SLICE CULTURES 2955

T. Radic, T. Jungenitz, S.W. Schwarzacher *(Frankfurt, Germany)*

A029 **TUE 8/7/2014, 13:30 - FENS-0408**

P53 CONTROLS THE MODE OF DIVISION IN ADULT NEURAL STEM CELLS 2956

A. Rubio, M.A. Marqués-Torrejón, A. Bizy, G. Belenguer, I. Fariñas *(Burjassot, Spain)*

A030 **TUE 8/7/2014, 14:30 - FENS-1218**

P53 MEDIATES DISTINCT DNA DAMAGE RESPONSE IN NEURAL STEM CELLS AND NEUROPROGNITORS IN DENTATE GYRUS 2957

C. Wong, Y.Q. Li, Z. Cheng *(Toronto, Canada)*

A031 **TUE 8/7/2014, 13:30 - FENS-2866**

HIPPOCAMPAL CA FIELD NEUROGENESIS AFTER PILOCARPINE INSULT: THE HIPPOCAMPAL FISSURE AS A NEUROGENIC NICHE 2958

L. Zhang, F.S. Estrada, V.S. Hernandez, R. Lujan *(Distrito Federal, Mexico)*

A24: DEVELOPMENT OF NEURAL SYSTEMS - NEOCORTEX

A032 **TUE 8/7/2014, 14:30 - FENS-2064**

UP-REGULATION OF C-FOS IMMEDIATE EARLY GENE EXPRESSION DURING CRITICAL PERIOD OF MOUSE VISUAL CORTEX DEVELOPMENT 2959

A. Lazutkin, A. Ivanova, K. Anokhin, I. Zarayskaya *(Moscow, Russia)*

A033 **TUE 8/7/2014, 13:30 - FENS-1161**

POST-MITOTIC CONTROL OF SENSORY AREA SPECIFICATION DURING NEOCORTICAL DEVELOPMENT 2960

E. Magrinelli, C. Alfano, K. Harb, R.F. Hevner, M. Studer *(Nice, France)*

A034 **TUE 8/7/2014, 14:30 - FENS-1380**

ROLE OF MICRORNAS IN NORMAL AND ABNORMAL DEVELOPMENT OF EMBRYONIC MOUSE NEOCORTEX 2961

F. Marinaro, Y. Clovis, F. Niola, F. Nicassio, D. De Pietri Tonelli *(Genoa, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A035 **TUE 8/7/2014, 13:30 - FENS-3331**

ASPM AND CIT-K CONTROL SPINDLE ORIENTATION IN MITOSIS THROUGH ASTRAL MICROTUBULE ORGANIZATION 2962

G. Marta, F.T. Bianchi, C. Vagnoni, F. Sgrò, G.E. Berto, F. Di Cunto *(Torino, Italy)*

A036 **TUE 8/7/2014, 14:30 - FENS-3366**

PRDM16 PROMOTES NEURAL PROGENITOR STEMNESS MAINLY BY MODULATING DNA METHYLATION SIGNATURES 2963

L. Massimino, A. Sessa, S.G. Giannelli, F. Ungaro, G. Colasante, D. Cittaro, E. Stupka, V. Broccoli *(Milano, Italy)*

A037 **TUE 8/7/2014, 13:30 - FENS-0062**

POSSIBLE ROLE OF A2BP1, AN AUTISM-RELATED MOLECULE, IN DEVELOPING CEREBRAL CORTEX 2964

K. Nagata, N. Hamada, H. Ito, I. Iwamoto, R. Morishita, H. Tabata *(Kasugai, Japan)*

A038 **TUE 8/7/2014, 14:30 - FENS-2788**

SVCT2 TRANSPORTER EXPRESSION IS POSTNATALLY INDUCED IN CORTICAL NEURONS AND ITS FUNCTION IS REGULATED BY HETERO-OLIGOMERIZATION 2965

K. Salazar, G. Cerda, F. Martínez, J. Sarmiento, C. González, M. García-Robles, J. Tapia, F. Nualart *(Concepción, Chile)*

A039 **TUE 8/7/2014, 13:30 - FENS-2398**

EXPRESSION PATTERNS OF K+-CL- COTRANSPORTER (KCC2) IN THE HUMAN FETAL AND ADULT BRAIN 2966

G. Sedmak, N. Jovanov-Milosevic, M. Puskarjov, K. Kaila, M. Juda *(Zagreb, Croatia)*

A040 **TUE 8/7/2014, 14:30 - FENS-2564**

DECIPHERING THE MOLECULAR MECHANISMS LINKING THE DEVELOPMENT AND EVOLUTION OF THE HUMAN CEREBRAL CORTEX 2967

I. Suzuki, R. Van Heurck, D. Gacquer, V. Detours, P. Sudmant, E. Eichler, F. Polleux, P. Vanderhaeghen *(Brussels, Belgium)*

A041 **TUE 8/7/2014, 13:30 - FENS-0471**

NEGR1 IS REQUIRED FOR TRANSITION OF MIGRATING PYRAMIDAL NEURONS FROM LAYER V TO LAYER II/III OF THE MOUSE CEREBRAL CORTEX 2968

J. Szczurkowska, F. Pischedda, F. Manago, C. Haas, F. Papaleo, M. Schäfer, G. Piccoli, L. Cancedda *(Genoa, Italy)*

A042 **TUE 8/7/2014, 14:30 - FENS-0702**

DECIPHERING THE ROLE OF ELP3 IN INTERNEURON MIGRATION DURING CORTICAL DEVELOPMENT 2969

S. Tielens, S. Huysseune, B. Malgrange, A. Chariot, J. Godin, L. Nguyen *(Liege, Belgium)*

A043 **TUE 8/7/2014, 13:30 - FENS-3042**

INVESTIGATING LOCAL TRANSLATION PROCESSES WITHIN GROWING AXONS USING MICROFLUIDIC CHAMBERS 2970

I. VandeVondervoort, A. Kos, K. Wanke, S. Abghari, J. Glennon, A. Aschrafi *(Nijmegen, The Netherlands)*

A044 **TUE 8/7/2014, 14:30 - FENS-3251**

PHARMACOLOGICAL AND GENETIC DISSECTION OF SPONTANEOUS PROPAGATING WAVES IN DEVELOPING MOUSE NEOCORTEX REVEALS TWO INDEPENDENT PACEMAKER CIRCUITS? 2971

K. Weir, C. Easton, A. Scott, S. Moen, Z. Barger, A. Folch, W. Moody *(Seattle, USA)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B41: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - GLUTAMATE

B001 **TUE 8/7/2014, 13:30 - FENS-3594**

ACTIVATION OF THE METABOTROPIC GLUTAMATE RECEPTOR (MGLUR2/3) ATTENUATES ABERRANT EEG NETWORK OSCILLATIONS IN THE SALICYLATE RAT MODEL OF TINNITUS 2972

H. Huysmans, A. Ahnaou *(Beerse, Belgium)*

B002 **TUE 8/7/2014, 14:30 - FENS-0078**

NEUROLIGIN-1 ECTODOMAIN REGULATES SYNAPTIC TRANSMISSION BY INTERACTION WITH METABOTROPIC GLUTAMATE RECEPTOR 2 2973

S. Jacobsen, M. Gjørlund, V. Berezin *(Copenhagen, Denmark)*

B003 **TUE 8/7/2014, 13:30 - FENS-0592**

NEURONAL EXOSOMES CONTAIN SELECTIVE MICRORNAS AND CAN BE ENDOCYTOSED BY RECIPIENT NEURONS. 2974

C. Javalet, M. Chivet, K. Laulagnier, F.J. Hemming, S. Fraboulet, A.H. Buck, R. Sadoul *(Grenoble, France)*

B004 **TUE 8/7/2014, 14:30 - FENS-2325**

CA2+ INFLUX VIA THE L-TYPE CA2+ CHANNELS IS REQUIRED FOR PHOSPHOLIPASE C ACTIVATION BY METABOTROPIC GLUTAMATE RECEPTOR 5 IN HIPPOCAMPAL NEURONS 2975

H. Kim, K. Lee, H. Lee, D. Lee, S. Lee, J. Sohn, W. Ho *(Seoul, Korea)*

B005 **TUE 8/7/2014, 13:30 - FENS-0453**

RESTRAINT STRESS-INDUCED MODIFICATIONS OF GLUTAMATERGIC TRANSMISSION IN THE PARAVENTRICULAR NUCLEUS OF THE RAT 2976

M. Kusek, K. Tokarski, A. Gadek-Michalska, G. Hess *(Mielec, Poland)*

B006 **TUE 8/7/2014, 14:30 - FENS-0080**

PROTEIN KINASE C-BETA MEDIATES NEURONAL ACTIVATION OF NA+/H+ EXCHANGER-1 DURING GLUTAMATE EXCITOTOXICITY 2977

B. Lee, Y. Jung *(Suwon, Korea)*

B007 **TUE 8/7/2014, 13:30 - FENS-0276**

NA+-DEPENDENT GLUTAMATE/ASPARTATE TRANSPORTER (GLAST/EAAT-1) SIGNALOSOME IN BERGMANN GLIA CELLS 2978

Z. Martinez-Lozada, A.M. Guillem, L.C.R. Hernandez-Kelly, J. Aguilera, A. Ortega *(Mexico City, Mexico)*

B008 **TUE 8/7/2014, 14:30 - FENS-2913**

COMPLEMENT RELEASES GLUTAMATE FROM NERVE TERMINALS IN SELECTED MAMMAL CNS REGIONS 2979

E. Merega, S. Di Prisco, J. Viele, M. Lanfranco, P. Severi, A.M. Pittaluga *(Genoa, Italy)*

B009 **TUE 8/7/2014, 13:30 - FENS-0495**

HIPPOCAMPAL NEURONAL PLASTICITY AND POSTSYNAPTIC NEURONAL EXCITATION MODULATION BY HISTAMINE H3-MGLU5 RECEPTOR COMPLEXES 2980

E. Moreno Guillén, H.M. Hoffmann, G. Navarro, J. Mallol, A. Cortés, V. Casadó, C. Lluís, E.I. Canela, J. Ortiz, M. Vignes, P.J. McCormick *(Barcelona, Spain)*

B010 **TUE 8/7/2014, 14:30 - FENS-0844**

CONDUCTIVE HEARING LOSS REGULATES AMPA RECEPTOR AND GLUTAMATE TRANSPORTERS EXPRESSION IN AUDITORY NERVE SYNAPSES 2981

M. Rubio, C. Clarkson *(Pittsburgh, USA)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B011 **TUE 8/7/2014, 13:30 - FENS-3775**
STRUCTURAL DISSECTION OF THE MEMBRANE FISSION STEP IN THE SYNAPTIC VESICLE CYCLE 2982
O. Shupliakov, E. Sopova, E. Nachman, S. Masich *(Stockholm, Sweden)*

B012 **TUE 8/7/2014, 14:30 - FENS-1898**
HOMOCYSTEINE INDUCED OSCILLATORY CURRENTS IN CULTURED RAT CORTICAL NEURONS 2983
D. Sibarov, P.A. Abushik, R. Giniatullin, S.M. Antonov *(Saint-Petersburg, Russia)*

B013 **TUE 8/7/2014, 13:30 - FENS-3002**
QUANTIFICATION OF GLUTAMATE IN VGLUT3-POSITIVE INHIBITORY NEURONS 2984
M. Stensrud, C.J. Sogn, V. Gundersen *(Oslo, Norway)*

B014 **TUE 8/7/2014, 14:30 - FENS-0089**
PRENATAL INHIBITION OF THE KYNURENINE PATHWAY LEADS TO STRUCTURAL CHANGES IN THE HIPPOCAMPUS OF ADULT RAT OFFSPRING 2985
T. Stone, O.S. Khalil, M. Pisar, M.C.J. Vincenten, C.M. Forrest, L.G. Darlington *(Glasgow, United Kingdom)*

B015 **TUE 8/7/2014, 13:30 - FENS-1729**
SYNERGISTIC INTERACTION OF GLUTAMATE MGLU5 AND NMDA RECEPTORS EVOKES NR2B PHOSPHORYLATION (TYR-1472) IN RAT HIPPOCAMPUS MODULATED BY ADENOSINE A2A RECEPTORS 2986
E. Tsiamaki, K. Sarantis, N. Matsokis, F. Angelatou *(Patras, Greece)*

B42: LIGAND GATED ION CHANNELS - BIOGENIC AMINE RECEPTORS

B016 **TUE 8/7/2014, 14:30 - FENS-0930**
MODULATION BY SEROTONIN OF THE INHIBITORY EFFECT OF GLYCINE AND GABA IN SPINAL MOTONEURONS 2987
N. Kalinina, G.G. Kurchavyi *(St.Petersburg, Russia)*

B43: LIGAND GATED ION CHANNELS - PEPTIDE RECEPTORS

B017 **TUE 8/7/2014, 13:30 - FENS-0772**
ELECTROPHYSIOLOGICAL APPROACH TO IDENTIFICATION THE TWO MAIN POPULATION OF THE INTERGENICULATE LEAFLET NEURONS AND THEIR SENSITIVITY TO OREXIN-A 2988
K. Palus, L. Chrobok, M.H. Lewandowski *(Krakow, Poland)*

B44: LIGAND GATED ION CHANNELS - TRP CHANNELS

B018 **TUE 8/7/2014, 14:30 - FENS-2968**
ROLE OF THE N-TERMINAL DOMAIN IN THE THERMAL AND CHEMICAL SENSITIVITY OF TRPM8 CHANNELS 2989
M. Pertusa, A. González, P. Hardy, J. Salas, B. Rivera, R. Madrid, F. Viana *(Santiago, Chile)*

B019 **TUE 8/7/2014, 13:30 - FENS-1276**
ASTROCYTES EXPRESS FUNCTIONAL TRPV2 ION CHANNELS 2990
K. Shibasaki, Y. Ishizaki *(Maebashi-shi, Japan)*

B45: LIGAND GATED ION CHANNELS - PURINES AND OTHERS

B020 **TUE 8/7/2014, 14:30 - FENS-3508**
THE A2A ADENOSINE RECEPTOR IS A DUAL CODING GENE: A NOVEL MECHANISM OF GENE USAGE AND SIGNAL TRANSDUCTION 2991
C. Lee, H. Lai, Y. Lee, C. Chien, Y. Chern *(Taipei, Taiwan)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B021 **TUE 8/7/2014, 13:30 - FENS-0271**

MONOAMINE NMDA RECEPTOR BLOCKERS INHIBIT AND POTENTIATE NATIVE AND RECOMBINANT ACID-SENSING ION CHANNELS 2992

E. Nagaeva, T. Tikhonova, O. Barygin, N. Potapieva, K. Bolshakov, D. Tikhonov *(Saint-Petersburg, Russia)*

B46: ION CHANNELS - CALCIUM CHANNELS

B022 **TUE 8/7/2014, 14:30 - FENS-0565**

CONTRIBUTION OF CAV1.2 AND CAV1.3 CHANNELS TO TOTAL CALCIUM CURRENTS AND MITOCHONDRIAL DYNAMICS IN PRIMARY CULTURE OF HIPPOCAMPAL NEURONS 2993

L. Lichvarova, M. Cagalinec, A. Kaasik, L. Lacinova *(Bratislava, Slovakia)*

B023 **TUE 8/7/2014, 13:30 - FENS-0652**

THE EFFECT OF CALBINDIN D-28K EXPRESSED BY VITAMIN D ON THE NEUROPROTECTIVE MECHANISM IN THE HIPPOCAMPUS OF RATS 2994

S. Lim, Y.M. Shon *(Suwon, Korea)*

B024 **TUE 8/7/2014, 14:30 - FENS-0764**

DIFFERENTIAL MECHANISMS IN TRAFFICKING OF CAV2.2 ALTERNATIVE SPLICE VARIANTS 2995

N. Macabuag, J. Cassidy, W. Pratt, A.C. Dolphin *(London, United Kingdom)*

B025 **TUE 8/7/2014, 13:30 - FENS-3035**

IMPACT OF L-TYPE VOLTAGE GATED CA2+ CHANNELS ON NEUROGENESIS IN ADULT AND AGED MICE 2996

J. Marschallinger, P. Rotheneichner, C. Schmuckermair, S. Couillard-Despres, N. Singewald, L. Aigner *(Salzburg, Austria)*

B026 **TUE 8/7/2014, 14:30 - FENS-1989**

LATROPHILIN-1 CONTROLS SPONTANEOUS EXOCYTOSIS BY ACTIVATING G-ALPHA/Q AND STORE-OPERATED CALCIUM CHANNELS 2997

E. Petitto, Y. Ushkaryov *(Chatham Maritime, United Kingdom)*

B027 **TUE 8/7/2014, 13:30 - FENS-2370**

GENETIC DISSECTION OF THE MECHANISMS AND FUNCTIONS OF POST-TRANSCRIPTIONAL CALCIUM CHANNEL MODIFICATIONS IN DROSOPHILA 2998

S. Ryglewski, C. Duch *(Mainz, Germany)*

B028 **TUE 8/7/2014, 14:30 - FENS-1906**

KAINATE - ROLE OF PHARMACORESISTANT CAV2.3 CALCIUM CHANNELS: FUNCTIONAL AND PATHOPHYSIOLOGICAL IMPLICATIONS 2999

T. Schneider, F. Neumaier, E.E. Tevoufouet, J. Hescheler, M.A. Kamp, M. Dibué *(Köln, Germany)*

B029 **TUE 8/7/2014, 13:30 - FENS-1739**

ISOFORM-SPECIFIC DIFFERENCES OF CALCIUM CHANNEL ALPHA-2-DELTA SUBUNITS IN SYNAPTIC LOCALIZATION AND PRESYNAPTIC CAV2.1 CHANNEL INTERACTION IN CULTURED HIPPOCAMPAL NEURONS 3000

C. Schoepf, M. Campiglio, A. Lieb, R. Stanika, G. Obermair *(Innsbruck, Austria)*

B030 **TUE 8/7/2014, 14:30 - FENS-0451**

ALPHA-NEUREXINS ALTER ELECTROPHYSIOLOGICAL PROPERTIES OF CAV2.2 CHANNELS CONTAINING THE ALPHA2DELTA3 SUBUNIT 3001

M. Schreitmueller, J. Brockhaus, M. Missler *(Münster, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B031 **TUE 8/7/2014, 13:30 - FENS-0484**

INCREASED CORTICAL EXCITABILITY AND SPONTANEOUS CSD EVENTS UNDERLIE INCREASED CSD SUSCEPTIBILITY IN FAMILIAL HEMIPLEGIC MIGRAINE TYPE-1 MUTANT MICE 3002

R. Shyti, T. Houben, K. Eikermann-Haerter, C. Ayata, M.D. Ferrari, E.A. Tolner, A.M.J.M. Van den Maagdenberg *(Leiden, The Netherlands)*

B032 **TUE 8/7/2014, 14:30 - FENS-1671**

MECHANISMS OF CORTICAL SPREADING DEPRESSION AND ITS FACILITATION BY FAMILIAL HEMIPLEGIC MIGRAINE MUTATIONS IN THE CAV2.1 CHANNEL 3003

A. Tottene, D. Pietrobon *(Padova, Italy)*

B033 **TUE 8/7/2014, 13:30 - FENS-3124**

REGULATION OF PROHIBITIN-2 BY CALCIUM SIGNALLING IN CEREBELLAR GRANULE NEURONS 3004

E. Vila, R. Pinacho, B. Ramos *(Barcelona, Spain)*

B034 **TUE 8/7/2014, 14:30 - FENS-1505**

THE CAV2.3 R-TYPE VOLTAGE-GATED CALCIUM CHANNEL IN SLEEP ARCHITECTURE - IMPACT ON THALAMOCORTICAL AND EXTRATHALAMOCORTICAL STRUCTURES 3005

M. Weiergräer, R. Müller, M.E. Siwek, C. Henseler, K. Broich, A. Papazoglou *(Bonn, Germany)*

B47: SYNAPSES - POSTSYNAPTIC STRUCTURES

B035 **TUE 8/7/2014, 13:30 - FENS-2993**

DYNEIN LIGHT CHAIN - AN ESSENTIAL FACTOR FOR GEPHYRIN CLUSTERING 3006

V. Kress, G. Schwarz *(Cologne, Germany)*

B036 **TUE 8/7/2014, 14:30 - FENS-0467**

WNT/BETA-CATENIN SIGNALING ENHANCES NEUROLIGIN-3 EXPRESSION IN HIPPOCAMPAL NEURONS 3007

M. Medina, M. Caracci, D. Necuñir, G. De Ferrari *(Santiago, Chile)*

B037 **TUE 8/7/2014, 13:30 - FENS-1318**

IMPAIRED SYNAPTIC PLASTICITY IN A 22Q11.2 DELETION MOUSE MODEL: INVOLVEMENT OF ZDHHC8 PALMITOYLTRANSFERASE. 3008

E. Moutin, M. De Roo, I. Nikonenko, D. Muller *(Geneva, Switzerland)*

B038 **TUE 8/7/2014, 14:30 - FENS-2114**

SYNAPTIC FUNCTION OF GEPHYRIN SPLICE VARIANTS 3009

F. Neuser, G. Schwarz *(Köln, Germany)*

B039 **TUE 8/7/2014, 13:30 - FENS-3078**

CAPTURING CHANGES IN THE NANOSCALE ORGANIZATION OF AMPA RECEPTORS AND THEIR ENDOCYTOSIS AT SYNAPSES DURING CHEMICAL-LTD BY IMMUNOGOLD ELECTRON MICROSCOPY 3010

J. Petersen, D. Choquet *(Bordeaux, France)*

B040 **TUE 8/7/2014, 14:30 - FENS-0466**

THE GPCR RECEPTOR FRIZZLED-9 REGULATES DENDRITIC SPINE FORMATION GENERATED BY WNT-5A THROUGH G ALPHA O ACTIVATION 3011

V. Ramirez, E. Ramos-Fernández, N.C. Inestrosa *(Santiago, Chile)*

B041 **TUE 8/7/2014, 13:30 - FENS-1239**

P140CAP REGULATES MEMORY AND SYNAPTIC PLASTICITY THROUGH SRC- AND CITN-MEDIATED ACTIN REORGANIZATION 3012

D. Repetto, P. Camera, R. Melani, M. Giustetto, M. Morello, I. Russo, E. Calcagno, R. Tomasoni, T. Pizzorusso, M. Matteoli, M. Missler, E. Turco, F. Di Cunto, P. Defilippi *(Münster, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B042 **TUE 8/7/2014, 14:30 - FENS-3752**
PSD-93: A COMPARTMENT SPECIFIC ORCHESTRATOR OF NMDA RECEPTOR FUNCTION IN MICE NEO-CORTEX 3013
T. Samaddar, P. Favaro, O.M. Schlüter *(Göttingen, Germany)*

B043 **TUE 8/7/2014, 13:30 - FENS-2988**
ROLE OF THE TIR8/SIGIRR PATHWAY IN SYNAPTIC PLASTICITY 3014
R. Tomasoni, M. Aime, M. Rasile, I. Corradini, E. Menna, M. Mantovani, C. Garlanda, M. Matteoli *(Milan, Italy)*

B044 **TUE 8/7/2014, 14:30 - FENS-3183**
S-SCAM/MAGI-2 IS ESSENTIAL FOR SYNAPSE FORMATION 3015
N. Wittenmayer, A. Böning, J. Viotti, T. Dresbach *(Göttingen, Germany)*

B48: SYNAPTIC PLASTICITY - LTP: PHYSIOLOGY AND BEHAVIOUR

B045 **TUE 8/7/2014, 13:30 - FENS-2653**
ROLE OF SHANK3 IN THE POSTNATAL DEVELOPMENT OF EXCITATORY TRANSMISSION IN THE VTA 3016
S. Bariselli, E.C. O'Connor, C. Verpelli, C. Sala, C. Lu¨scher, C. Bellone *(Geneva, Switzerland)*

B046 **TUE 8/7/2014, 14:30 - FENS-1890**
REGULATION OF HIPPOCAMPAL SYNAPTIC PLASTICITY THRESHOLDS AND CHANGES IN EXPLORATORY AND LEARNING BEHAVIOR IN DOMINANT NEGATIVE NPR-B MUTANT RATS 3017
G. Barmashenko, J. Buttgereit, M. Bader, D. Manahan-Vaughan, K.H. Braunewell *(Dortmund, Germany)*

B047 **TUE 8/7/2014, 13:30 - FENS-2665**
GHRELIN TRIGGERS THE SYNAPTIC INCORPORATION OF AMPA RECEPTORS IN THE HIPPOCAMPUS 3018
A. Carvalho, L.F. Ribeiro, T. Catarino, S.D. Santos, M. Benoist, J.F. Van Leeuwen, J.A. Esteban *(Coimbra, Portugal)*

B048 **TUE 8/7/2014, 14:30 - FENS-3466**
ADENOSINE A2A RECEPTORS CONTROL FEAR RESPONSES AND SYNAPTIC PLASTICITY IN THE AMYGDALA 3019
R. Cunha, A.P. Simões, N. Gonçalves, N.J. Machado, M.P. Kaster, A. Nunes, K.A. Goosens, D. Rial *(Coimbra, Portugal)*

B049 **TUE 8/7/2014, 13:30 - FENS-0522**
EFFECT OF NICOTINIC ANTAGONISTS ON FEPSP IN THE HIPPOCAMPUS DURING PASSIVE AVOIDANCE LEARNING IN VIVO 3020
Y. Dobryakova, O. Gurskaya, V.A. Markevich *(Moscow, Russia)*

B050 **TUE 8/7/2014, 14:30 - FENS-0524**
WNT SIGNALING AFFECTS LONG-TERM POTENTIATION IN HIPPOCAMPUS 3021
O. Gurskaya, Y. Dobryakova, S.V. Salozhin, N.V. Gulyaeva, V.A. Markevich *(Moscow, Russia)*

B051 **TUE 8/7/2014, 13:30 - FENS-0905**
NETWORK STABILITY IS MAINTAINED IN FACE OF LEARNING-INDUCED AND SYNAPTIC ACTIVATION-INDUCED PLASTICITY 3022
L. Jammal, I. Reuveni, E. Barkai *(Haifa, Israel)*

B052 **TUE 8/7/2014, 14:30 - FENS-2378**
DELAYED MATURATION OF PREFRONTAL CORTICAL FUNCTIONS AND UNDERLYING SYNAPTIC PLASTICITY AND NETWORK MECHANISMS 3023
X. Konstantoudaki, K. Chalkiadaki, S. Tivodar, D. Karagogeos, K. Sidiropoulou *(Heraklion, Greece)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B053 **TUE 8/7/2014, 13:30 - FENS-3601**

TRPM4 KNOCKOUT MICE DISPLAY A CONDITIONING STIMULUS-DEPENDENT LACK OF LTP IN HIPPOCAMPAL CA1- NEURONS WITHOUT MAJOR BEHAVIORAL CHANGES 3024

A. Menigoz, T. Ahmed, V. Sabanov, B. Nilius, T. Voets, R. D'Hooge, R. Vennekens, D. Balschun *(Leuven, Belgium)*

B054 **TUE 8/7/2014, 14:30 - FENS-2310**

BENEFICIAL AND ADVERSE CONSEQUENCES OF INCREASED BRAIN PLASTICITY: THE INTERPLAY BETWEEN ANTIDEPRESSANTS AND QUALITY OF THE ENVIRONMENT 3025

G. Milior, S. Poggini, M. Perrotta, S. Alboni, N. Brunello, C. Limatola, I. Branchi, L. Maggi *(Rome, Italy)*

B055 **TUE 8/7/2014, 13:30 - FENS-3445**

PTEN OVEREXPRESSION ALTERS SYNAPTIC FUNCTION, SOCIAL BEHAVIOR AND FEAR MEMORY FORMATION 3026

C. Sánchez-Puelles, C. Venero, M. Serrano, R. Luján, S. Knafo, J.A. Esteban *(Madrid, Spain)*

B056 **TUE 8/7/2014, 14:30 - FENS-3309**

THE ROLE OF HIGHLY SULFATED HEPARAN SULFATES IN LTP, THETA AND GAMMA OSCILLATIONS AND CONTEXTUAL DISCRIMINATION IN FEAR CONDITIONING PARADIGM 3027

O. Senkov, D. Minge, A. Mironov, P. Magotti, O. Tikhobrazova, G. Kochlamazashvili, V. Berezin, G. Garau, C. Henneberger, A. Dityatev *(Magdeburg, Germany)*

B057 **TUE 8/7/2014, 13:30 - FENS-2294**

EFFECT OF CORTICOSTERONE ON THE LTP INDUCTION IN DIFFERENT AREAS OF HIPPOCAMPUS IN RATS 3028

S. Uzakov, V. Markevich, N.V. Gulaeva *(Moscow, Russia)*

B49: SYNAPTIC PLASTICITY - LTP: PRESYNAPTIC MECHANISMS

B058 **TUE 8/7/2014, 14:30 - FENS-1543**

SPECIFIC PATTERN OF CYSTEINE PROTEASES ACTIVITIES IN RELATION TO LTP MAINTENANCE 3029

I. Kudryashova, M. Onufriev, N.V. Gulyaeva *(Moscow, Russia)*

B059 **TUE 8/7/2014, 13:30 - FENS-1464**

LONG-TERM POTENTIATION MODULATES FRACTAL BEHAVIOUR OF QUANTAL RELEASE AT HIPPOCAMPAL SYNAPSES 3030

J. Lamanna, S. Cerutti, M.G. Signorini, A. Malgaroli *(Milan, Italy)*

B060 **TUE 8/7/2014, 14:30 - FENS-0951**

ROLE OF PGE2 IN SYNAPTIC PLASTICITY AT MOSSY FIBER-CA3 SYNAPSE IN A MOUSE MODEL OF ALZHEIMER'S DISEASE 3031

V. Maingret, C. Mulle, T. Amédée *(Bordeaux, France)*

B061 **TUE 8/7/2014, 13:30 - FENS-2508**

MECHANISMS OF PLASTICITY AT THE PRESYNAPTIC TERMINAL 3032

Z. Padamsey, N.J. Emptage *(Oxford, United Kingdom)*

B50: SYNAPTIC PLASTICITY - OTHER

B062 **TUE 8/7/2014, 14:30 - FENS-0938**

MODULATION OF DENDRITIC AMPA RECEPTOR MRNA TRAFFICKING BY RNA SPLICING AND EDITING 3033

L. La Via, D. Bonini, A. Filippini, G. Niccoli, C. Orlandi, I. Russo, S. Barlati, A. Barbon *(Brescia, Italy)*

B063 **TUE 8/7/2014, 13:30 - FENS-1401**

AN AVERSIVE EXPERIENCE INCREASES THE EXCITABILITY OF NEURONS IN THE LATERAL HABENULA 3034

S. Lecca, M. Mameli *(Paris, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B064 **TUE 8/7/2014, 14:30 - FENS-3238**

THE ROLE OF DELTA-CATENIN IN SYNAPTIC PLASTICITY 3035

M. Lever, J.H. Yi, D.J. Whitcomb, T.M. Piers, K. Cho *(Bristol, United Kingdom)*

B065 **TUE 8/7/2014, 13:30 - FENS-2289**

EFFECTS OF DIFFERENT REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION PROTOCOLS ON CHANGES IN GENE EXPRESSION IN THE RAT BRAIN 3036

M. Ljubisavljevic, J. Oommen, A. Javid, K. Parkeh, S. Shehab, T. Adrian *(Al-Ain, United Arab Emirates)*

B066 **TUE 8/7/2014, 14:30 - FENS-1603**

EFFECTS OF NEURAL PROGENITOR CELL IMPLANTS ON THE FIRING PROPERTIES AND SYNAPTIC COMPOSITION OF AXOTOMIZED NEURONS 3037

C. Morado Díaz, E.R. Matarredona, S. Morcuende, R. Talaverón, M.A. Davis-López de Carrizosa, R.R. De la Cruz, A.M. Pastor *(Sevilla, Spain)*

B067 **TUE 8/7/2014, 13:30 - FENS-1533**

UNBALANCED EXCITABILITY DRIVES OFFLINE REACTIVATION OF BEHAVIORALLY ACTIVATED NEURONS 3038

H. Norimoto, M. Mizunuma, K. Tao, T. Egawa, K. Hanaoka, T. Sakaguchi, H. Hioki, T. Kaneko, S. Yamaguchi, T. Nagano, N. Matsuki, Y. Ikegaya *(Tokyo, Japan)*

B068 **TUE 8/7/2014, 14:30 - FENS-2199**

MICRORNA-137 CONTROLS SYNAPTIC EFFICACY AND MGLUR-DEPENDENT LTD THROUGH AMPA-RECEPTOR TRAFFICKING 3039

N. Olde Loohuis, A. Kos, A. Jager, W. Ba, G.J.M. Martens, H. Van Bokhoven, N. Nadif Kasri, A. Aschrafi *(Nijmegen, The Netherlands)*

B069 **TUE 8/7/2014, 13:30 - FENS-0049**

BLOCKADE OF ENDOGENOUS NEURAMINIDASE PRIMES SHORT-TERM DEPRESSION AND SUPPRESSES LONG-TERM POTENTIATION OF SYNAPTIC TRANSMISSION IN THE RAT HIPPOCAMPUS 3040

A. Savotchenko, D. Isaev, O. Isaeva *(Kyiv, Ukraine)*

B070 **TUE 8/7/2014, 14:30 - FENS-3413**

ACTIVITY DEPENDENT PROCESSING OF BREVICAN BY EXTRACELLULAR PROTEOLYSIS 3041

J. Singh, M.J.C. Valenzuela, E.D. Gundelfinger, C.I. Seidenbecher, R. Frischknecht *(Magdeburg, Germany)*

B071 **TUE 8/7/2014, 13:30 - FENS-1076**

SYNAPTIC PLASTICITY OCCURS IN THE DESCENDING BUT NOT THE ASCENDING PATHWAY TO THE PIRIFORM CORTEX OF FREELY BEHAVING RATS 3042

C. Strauch, D. Manahan-Vaughan *(Bochum, Germany)*

B072 **TUE 8/7/2014, 14:30 - FENS-1321**

INSULIN ATTENUATES SYNAPTIC POTENTIATION IN THE NOCICEPTIVE AMYGDALA IN A RODENT MODEL OF PAINFUL DIABETIC NEUROPATHY 3043

Y. Takahashi, T. Ochiai, M. Asato, A.M. Watabe, M. Ohsawa, J. Kamei, F. Kato *(Tokyo, Japan)*

B073 **TUE 8/7/2014, 13:30 - FENS-2271**

NEONATAL MICE EXPOSURE TO SECOND-HAND TOBACCO SMOKE DISTURBS SYNAPTIC PLASTICITY IN HIPPOCAMPUS 3044

L. Torres, N.T. Balestrin, S.O. Duro, N.N. Monteiro, A.C.C.S. Durão, R.C.T. Garcia, M. Pacheco-Neto, T. Marcourakis *(São Paulo, Brazil)*

B074 **TUE 8/7/2014, 14:30 - FENS-0441**

MRNA STABILITY-DEPENDENT REGULATION OF MMP-9 (MATRIX METALLOPROTEINASE-9) EXPRESSION AFTER NEURONAL ACTIVATION IN THE RAT HIPPOCAMPUS 3045

K. Zybura-Broda, M. Ambrozek-Latecka, M. Wolder-Gontarek, J. Wilemska, M. Rylski *(Warsaw, Poland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B51: GLIA-NEURON INTERACTIONS - SYNAPSES

B075 **TUE 8/7/2014, 13:30 - FENS-3152**
EXTRACELLULAR MATRIX MODULATES GLUTAMATERGIC SYNAPTIC TRANSMISSION 3046
J. Alfaro Sanchis, A. Bikbaev, R. Frischknecht, M. Heine *(Magdeburg, Germany)*

B076 **TUE 8/7/2014, 14:30 - FENS-1119**
ASTROGLIAL HYPEREXCITABILITY INCREASES THE EXCITATORY TRANSMISSION IN EPILEPTIC BRAIN 3047
C. Alvarez Ferradas, J.C. Morales, M. Wellmann, F. Nualart, M. Roncagliolo, M. Fuenzalida, C. Bonansco *(Valparaiso, Chile)*

B077 **TUE 8/7/2014, 13:30 - FENS-3483**
ACTIVITY-DEPENDENT PLASTICITY OF ASTROCYTE PROCESS AND DENDRITIC SPINE INTERACTIONS 3048
A. Araque, M. Navarrete, A. Covelo, E.D. Martin, A. Perez-Alvarez *(Minnesota, USA)*

B078 **TUE 8/7/2014, 14:30 - FENS-0676**
GLIAL REGULATION OF TONIC INHIBITION IN GLOBUS PALLIDUS NEURONS 3049
M. Chazalon, C. Miguelez, S. Morin, S. Cristóvão-Ferreira, S.H. Vaz, A.M. Sebastiao, J. Baufreton *(Bordeaux, France)*

B079 **TUE 8/7/2014, 13:30 - FENS-0417**
PURINERGIC AND GLUTAMATERGIC MODULATION OF INHIBITORY SYNAPTIC INPUT TO PURKINJE CELLS IN ACUTE MOUSE BRAIN SLICES 3050
J. Deitmer, H.M. Jahn, F. Kirchhoff, R. Rudolph *(Kaiserslautern, Germany)*

B080 **TUE 8/7/2014, 14:30 - FENS-1602**
ASTROGLIAL NETWORKS MODULATE BURSTING ACTIVITY DYNAMICS 3051
E. Dossi, O. Chever, M. Dérangeon, N. Rouach *(Paris, France)*

B081 **TUE 8/7/2014, 13:30 - FENS-0643**
ALTERATIONS OF THE RIBBON SYNAPSE BETWEEN THE RETINAL GANGLION CELLS AND BIPOLAR CELLS AFTER CHRONIC INTRAOCULAR PRESSURE ELEVATION 3052
J. Kim, C.R. Kim, H.Y. Park, C.K. Park *(Seoul, Korea)*

B082 **TUE 8/7/2014, 14:30 - FENS-2764**
MELANIN-CONCENTRATING HORMONE MODULATES EXCITATORY TRANSMISSION AT THE HIPPOCAMPAL SYNAPSES BY ACTING ON ASTROCYTES 3053
L. Le Barillier, M. Rosier, G. Malleret, P. Salin *(Lyon, France)*

B083 **TUE 8/7/2014, 13:30 - FENS-1734**
GABAERGIC SIGNALLING TO ASTROCYTES: POTENTIAL ROLES IN THE CONTROL OF LOCAL NETWORK EXCITABILITY 3054
L. Mariotti, G. Losi, M. Sessolo, I. Marcon, G. Carmignoto *(Padova, Italy)*

B084 **TUE 8/7/2014, 14:30 - FENS-1386**
HYPERPOLARIZED 13C NMR SPECTROSCOPY: A NEW WAY TO FOLLOW THE GLUTAMATE-GLUTAMINE CYCLE 3055
L. Mazuel, C. Chassain, A. Cladière, C. Speziale, R. Schulte, B. Jean, F. Durif *(Clermont-Ferrand, France)*

B085 **TUE 8/7/2014, 13:30 - FENS-3666**
A GABAERGIC COMMUNICATION PATHWAY FROM INDIVIDUAL NEURONS TO GLIAL CELLS 3056
G. Molnár, M. Rózsa, G. Katona, B. Rózsa, K. Mikite, E. Boldog, G. Tamás *(Szeged, Hungary)*

B086 **TUE 8/7/2014, 14:30 - FENS-3698**
FUNCTIONAL IMPLICATIONS OF THE SUPPRESSED ASTROCYTIC MOTILITY IN VIVO 3057
D. Molotkov, M. Kislin, S. Zobova, D. Toptunov, E. Castren, L. Khiroug *(Helsinki, Finland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B087 **TUE 8/7/2014, 13:30 - FENS-2726**
MICROGLIAL ACTIVATION BY VANILLOID RECEPTOR TYPE 1 MODULATES EXCITATORY NEUROTRANSMISSION IN THE MOUSE CORTEX 3058
A. Morabito, M. Giustizieri, M.C. Marrone, S. Marinelli *(Rome, Italy)*

B088 **TUE 8/7/2014, 14:30 - FENS-2889**
ROLE OF OPC-DERIVED NG2 IN GLUTAMATE RECEPTOR DEPENDENT SYNAPTIC PLASTICITY 3059
A. Neitz, D. Sakry, J. Trotter, T. Mittmann *(Heidelberg, Germany)*

B089 **TUE 8/7/2014, 13:30 - FENS-1716**
CELLULAR MECHANISMS OF LONG-TERM DEPRESSION AT NEOCORTICAL L4-L2/3 SYNAPSES IN JUVENILE RATS 3060
F. Neubauer, R. Min, T. Nevian *(Bern, Switzerland)*

B090 **TUE 8/7/2014, 14:30 - FENS-0146**
UNITARY SYNAPTIC CONNECTIONS BETWEEN GABAERGIC INTERNEURONS AND NG2 CELLS IN THE DEVELOPING SOMATOSENSORY CORTEX 3061
D. Orduz, P.P. Maldonado, M. Vélez-Fort, V. De Sars, Y. Yanagawa, V. Emiliani, M.C. Angulo *(Paris, France)*

B091 **TUE 8/7/2014, 13:30 - FENS-1634**
IN VITRO FUNCTIONAL CHARACTERIZATION OF HUMAN PLURIPOTENT STEM CELL DERIVED NEURAL NETWORKS AND INDIVIDUAL NEURONS: THE ROLE OF ASTROCYTES 3062
T. Paavilainen, D. Fayuk, M. Pajunen, L. Ylä-Outinen, S. Narkilahti *(Tampere, Finland)*

B092 **TUE 8/7/2014, 14:30 - FENS-1583**
THE ROLE OF ASTROCYTES IN THE FUNCTIONAL NETWORK DEVELOPMENT OF HUMAN PLURIPOTENT STEM CELL DERIVED NEURAL CULTURES IN VITRO 3063
M. Pajunen, T. Paavilainen, D. Fayuk, L. Ylä-Outinen, S. Narkilahti *(Tampere, Finland)*

B093 **TUE 8/7/2014, 13:30 - FENS-1794**
ALTERED MICROGLIA-SYNAPSE INTERACTIONS DURING HIPPOCAMPAL SYNAPTIC PLASTICITY 3064
T. Pfeiffer, E. Avignone, U.V. Nägerl *(Bordeaux, France)*

B094 **TUE 8/7/2014, 14:30 - FENS-2097**
ROLE OF ASTROCYTIC ADENOSINE A2A RECEPTORS IN THE FACILITATION OF SYNAPTIC PLASTICITY IN CORTICO-STRIATAL SYNAPSES 3065
D. Rial, N. Gonçalves, F. Queiroz, H.B. Silva, R.D. Prediger, J.F. Chen, A. Tomé, R.D. Cunha *(Coimbra, Portugal)*

B095 **TUE 8/7/2014, 13:30 - FENS-3312**
LOCALIZATION OF NMDA RECEPTORS IN MICROGLIAL PERISYNAPTIC PROCESSES 3066
C. Sogn, M. Maja Puchades, V. Vidar Gundersen *(Oslo, Norway)*

B096 **TUE 8/7/2014, 14:30 - FENS-3065**
MATHEMATICAL MODEL OF INTERNEURON FIRING DYNAMICS REGULATED BY ASTROCYTE 3067
S. Stasenko, A.V. Semyanov, A.E. Dityatev, V.B. Kazantsev *(Nizhny Novgorod, Russia)*

B097 **TUE 8/7/2014, 13:30 - FENS-3287**
MITOCHONDRIAL TRAFFICKING IN ASTROCYTE PROCESSES AND THE ROLE OF MIRO1 3068
T. Stephen, N. Higgs, J. Kittler *(London, United Kingdom)*

B098 **TUE 8/7/2014, 14:30 - FENS-1211**
ROLE OF AUTOTAXIN AT GLUTAMATERGIC SYNAPSES 3069
C. Thalman, J. Vogt, S. Kirischuk, H. Luhmann, R. Nitsch *(Mainz, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C44: PARKINSON'S DISEASE - CELLULAR DYSFUNCTION MECHANISMS

C001 **TUE 8/7/2014, 13:30 - FENS-2771**
DECIPHERING THE ACTION OF ASTROGLIAL GLUCOCORTICOID RECEPTOR DURING DEGENERATION OF MIDBRAIN DOPAMINE NEURONS 3070
L. Maatouk, M.A. Carrillo-de Sauvage, C. Yi, S. Hunot, E.C. Hirsch, A. Koulakoff, F. Pfrieger, F. Tronche, C. Giaume, S. Vyas *(Paris, France)*

C002 **TUE 8/7/2014, 14:30 - FENS-2737**
NARP IMPLICATION IN THE DEVELOPMENT OF L-DOPA-INDUCED DYSKINESIA 3071
M. Malerbi, F. Charbonnier-Beaupel, C. Alcacer, K. Tahiri, J.A. Girault, D. Hervé, J.C. Corvol *(Paris, France)*

C003 **TUE 8/7/2014, 13:30 - FENS-1440**
OPTOGENETIC CONTROL OF CHOLINERGIC INTERNEURONS: IMPLICATION FOR PARKINSON'S DISEASE 3072
N. Maurice, M. Liberge, F. Jaouen, S. Ztaou, M. Hanini, J. Camon, K. Deisseroth, M. Amalric, L. Kerkerian-Le Goff, C. Beurrier *(Marseille, France)*

C004 **TUE 8/7/2014, 14:30 - FENS-2092**
DEREGULATION OF CALCIUM HOMEOSTASIS MEDIATES SECRETED ALPHA-SYNUCLEIN-INDUCED NEUROTOXICITY 3073
K. Melachroinou, M. Xilouri, E. Emmanouilidou, R. Masgrau, P. Papazafiri, L. Stefanis, K. Vekrellis *(Athens, Greece)*

C005 **TUE 8/7/2014, 13:30 - FENS-0571**
THE ROLE OF HISTIDINE 50 IN ALPHA-SYNUCLEIN PATHOLOGY 3074
S. Menges, W. Xiang, J. Schlachetzki, H. Meixner, C.M. Becker, J. Winkler, J. Klucken *(Erlangen, Germany)*

C006 **TUE 8/7/2014, 14:30 - FENS-0263**
BLOCKADE OF THE SODIUM/CALCIUM EXCHANGER PROVIDES PROTECTION TO VULNERABLE MIDBRAIN DOPAMINE NEURONS: IMPROVEMENT OF THE EFFECT WITH NICOTINE 3075
P. Michel, C. Maritaz, D. Toulorge, S. Guerreiro, E.C. Hirsch *(Paris, France)*

C007 **TUE 8/7/2014, 13:30 - FENS-2139**
SK CHANNEL MODULATION IN RATS ALLEVIATES NON-MOTOR SYMPTOMS OF PARKINSON'S DISEASE 3076
C. Mourre, T. Deltheil, L. Chen, N. Turle-Lorenzo, M. Liberge, M. Amalric *(Marseille, France)*

C008 **TUE 8/7/2014, 14:30 - FENS-1074**
ALPHA-SYNUCLEIN DECREASES ENDOPLASMIC RETICUMUM-MITOCHONDRIA ASSOCIATIONS 3077
S. Paillusson, R. Stoica, C.J. Miller *(London, United Kingdom)*

C009 **TUE 8/7/2014, 13:30 - FENS-1649**
ROLE OF NUCLEOLAR STRESS IN PARKINSON´S DISEASE 3078
R. Parlato, V. Evsyukov, S. Gispert, F. Schlaudraff, I. Vinnikov, A. Domanskyi, W. Wurst, B. Liss *(Ulm, Germany)*

C010 **TUE 8/7/2014, 14:30 - FENS-2743**
CHRONIC L-DOPA TREATMENT ACTIVATES THE BDNF/TRKB PATHWAY IN THE STRIATUM OF HEMIPARKISONIAN MICE 3079
A. Pelosi, M. Malerbi, K. Tahiri, J.C. Corvol, J.A. Girault *(Paris, France)*

C011 **TUE 8/7/2014, 13:30 - FENS-3527**
EFFECTS OF OLIGOMERS OF HUMAN ALPHA-SYNUCLEIN ON CA1 HIPPOCAMPAL LTP 3080
A. Quiroga, M. Tantucci, V. Durante, A. De Iure, A. Tozzi, C. Spaccatini, M. Di Filippo, C. Costa, B. Picconi, O. El-Agnaf, P. Calabresi *(Perugia, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C012 **TUE 8/7/2014, 14:30 - FENS-2029**

GALLIC ACID AND TROXERRUTIN, ANTIOXIDANT COMPOUNDS FOUND IN PLANTS, PROTECTS PC-12 CELLS AGAINST 6-OHDA NEUROTOXICITY 3081

P. Rodrigues, S.M. Morais, I.G.P. Vieira, M.R.S. Carmo, E.O. Ferreira, A.L.C. Assis, J.F. Pereira, G.M. Andrade *(Fortaleza, Brazil)*

C013 **TUE 8/7/2014, 13:30 - FENS-2926**

PARKIN REGULATES KAINATE RECEPTOR-MEDIATED SYNAPTIC TRANSMISSION BY INTERACTING WITH THE GLUK2 SUBUNIT 3082

J. Sassone, A. Maraschi, A. Folci, L. Mapelli, G. Ronzitti, L. Murru, F. Sassone, G. Cappelletti, S. Sato, Y. Okada, N. Kuzumaki, H. Okano, N. Hattori, V. Silani, E. Chieregatti, M. Passafaro, A. Ciammola *(Milan, Italy)*

C014 **TUE 8/7/2014, 14:30 - FENS-2558**

DIMERIZATION OF DOPAMINE D3 AND ACETYLCHOLINE NICOTINIC RECEPTORS IN THE REGULATION OF DOPAMINERGIC NEURONS FUNCTION 3083

P. Savoia, C. Fiorentini, F. Longhena, A. Bellucci, C. Missale *(Brescia, Italy)*

C015 **TUE 8/7/2014, 13:30 - FENS-0478**

ROLE OF DOPAMINE OXIDATION IN PARKINSON´S DISEASE 3084

J. Segura-Aguilar, P. Muñoz, S. Huenchuguala, M. Villa, A. Herrera, I. Paris *(Santiago, Chile)*

C016 **TUE 8/7/2014, 14:30 - FENS-0179**

NEUROPROTECTIVE EFFECTS OF HEME OXYGENASE 1 IN STRIATIAL ASTROCYTES IN MPTP INTOXICATED MICE 3085

N. Song, X. Xu, H. Jiang, J. Xie *(Qingdao, China)*

C017 **TUE 8/7/2014, 13:30 - FENS-1856**

THE EFFECTS OF A SERIES OF NOVEL MULTI-TARGET (HETERO)ARYL ALKENYL PROPARGYLAMINE COMPOUNDS IN CELLULAR AND ANIMAL MODELS OF PARKINSON'S DISEASE 3086

B. Sperlagh, M. Baranyi, F. Gölöncsér, A. Kittel, P. Huleatt, C.L. Chai, P. Matyus *(Budapest, Hungary)*

C018 **TUE 8/7/2014, 14:30 - FENS-0156**

ANTI-INFLAMMATORY THERAPY VIA CD163-MACROPHAGES IN THE 6-OHDA MODEL OF PARKINSON'S DISEASE 3087

N. Tentillier, A. Etzerodt, M. Olesen, S.K. Moestrup, M. Romero-Ramos *(Aarhus, Denmark)*

C019 **TUE 8/7/2014, 13:30 - FENS-2263**

LACTOFERRIN PROTECTS DOPAMINERGIC NEURONS AGAINST MPP+ NEUROTOXICITY THROUGH LACTOFERRIN RECEPTOR AND LIPOPROTEIN RECEPTOR-RELATED PROTEIN 3088

J. Wang, M. Bi, N. Song, J. Xie *(Qingdao, China)*

C020 **TUE 8/7/2014, 14:30 - FENS-0177**

BDNF AND GDNF INHIBIT FERROUS IRON INFLUX VIA DIVALENT METAL TRANSPORTER 1 AND IRON REGULATORY PROTEIN 1 REGULATION IN VENTRAL MESENCEPHALIC NEURONS 3089

J. Xie, H. Zhang, N. Song, H. Jiang, M. Bi *(Qingdao, China)*

C021 **TUE 8/7/2014, 13:30 - FENS-0178**

IRON STATUS AND LIPOPOLYSACCHARIDE REGULATE NDFIP1 BY ACTIVATION OF NUCLEAR FACTOR-KAPPA B 3090

H. Xu, Q. Chang, W. Jia, H. Jiang, P. Sun, J. Xie *(Qingdao, China)*

C022 **TUE 8/7/2014, 14:30 - FENS-3199**

DIFFERENTIAL EFFECTS OF ROTENONE ON LOCUS COERULEUS AND SUBSTANTIA NIGRA PARS COMPACTA NEURONS 3091

A. Yee, P.S. Freestone, J. Lipski *(Auckland, New Zealand)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C023 **TUE 8/7/2014, 13:30 - FENS-1824**

ALPHA-SYNUCLEIN INTERACTS WITH SYNAPSIN III AND MODULATES ITS EXPRESSION IN DOPAMINERGIC NEURONS 3092

M. Zaltieri, J. Grigoletto, L. Navarria, G. Favero, S. Castrezzati, R. Rezzani, M.G. Spillantini, C. Missale, P. Spano, A. Bellucci *(Brescia, Italy)*

C45: EPILEPSY - CELLULAR AND CIRCUIT MECHANISMS

C024 **TUE 8/7/2014, 14:30 - FENS-2894**

THE MULTIFOCAL NATURE OF NEOCORTICAL EPILEPTIC NETWORK GENERATING INTERICTAL EPILEPTIFORM DISCHARGES IN HUMANS 3093

P. Jiruska, R. Janca, P. Jezdik, R. Cmejla, P. Krsek, P. Marusic *(Prague, Czech Republic)*

C025 **TUE 8/7/2014, 13:30 - FENS-0159**

SODIUM DYNAMICS IN HIPPOCAMPAL NEURONS DURING EPILEPTIFORM ACTIVITY 3094

C. Karus, C.R. Rose *(Düsseldorf, Germany)*

C026 **TUE 8/7/2014, 14:30 - FENS-1579**

CELL-TYPE SPECIFIC EFFECTS ON INTRINSIC MEMBRANE PROPERTIES OF ANTICONVULSANT, CANNABIDIVARIN IN RAT CORTICAL REGIONS 3095

A. Khan, A.B. Ali *(London, United Kingdom)*

C027 **TUE 8/7/2014, 13:30 - FENS-0075**

THE ROLE OF ELECTRICAL SYNAPSES IN A RAT MODEL OF ABSENCE EPILEPSY: CA2+ MODULATES THE INTERACTION BETWEEN NEURONS OF THE THALAMIC-RETICULAR-NUCLEUS 3096

D. Kohmann, K. Jüngling, H.C. Pape, P. Coulon *(Münster, Germany)*

C028 **TUE 8/7/2014, 14:30 - FENS-2248**

SEIZURE-RELATED VARIATIONS IN THE DENSITY OF SERT VARICOSITIES IN THE RAT HIPOCAMPAL FORMATION 3097

N. Lukoyanov, J.I. Soares, J.L. Quesado, G.H. Maia *(Porto, Portugal)*

C029 **TUE 8/7/2014, 13:30 - FENS-0490**

FAST RIPPLES ASSOCIATED TO INCREASES IN EXTRACELLULAR GLUTAMATE IN HIPPOCAMPUS OF RATS WITH SPONTANEOUS RECURRENT SEIZURES 3098

L. Medina-ceja, K. Pardo-peña, A. Morales-villagran *(Zapopan, Mexico)*

C030 **TUE 8/7/2014, 14:30 - FENS-1457**

TRANSCRIPTIONAL CHANGES IN AMYLOIDOGENIC AND TAU PATHWAYS IN POST-TRAUMATIC EPILEPTOGENESIS IN APP/PS1 MOUSE MODEL OF ALZHEIMER`S DISEASE 3099

D. Miszczuk, K. Debski, H. Tanila, K. Lukasiuk, A. Pitkanen *(Warsaw, Poland)*

C031 **TUE 8/7/2014, 13:30 - FENS-1033**

GLUTAMATE TRANSPORT IS AFFECTED IN THE PROGRESSIVE MYOCLONIC EPILEPSY OF THE LAFORA TYPE 3100

C. Muñoz-Ballester, A. Berthier, P. Sanz *(Valencia, Spain)*

C032 **TUE 8/7/2014, 14:30 - FENS-3061**

NETWORK BASIS OF ANTICONVULSANT DRUG ACTIONS 3101

L. Pothmann, M. Uebachs, C. Miklitz, C. Müller, S. Remy, H. Beck *(Bonn, Germany)*

C033 **TUE 8/7/2014, 13:30 - FENS-1697**

EPIGENETIC ENZYME LSD1 MODULATES HIPPOCAMPAL EXCITATORY THRESHOLD: RELEVANCE FOR RETT SYNDROME AND EPILEPTIC DISEASES 3102

F. Rusconi, L. Paganini, E. Toffolo, D. Braida, L. Ponzoni, B. Grillo, M. Sala, E. Battaglioli *(Mian, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C034 **TUE 8/7/2014, 14:30 - FENS-0541**
SUPPRESSION OF SEIZURE BY OPTOGENETIC STIMULATION IN RETICULAR THALAMUS 3103
B. Shyu, W.J. Chang *(Taipei, Taiwan)*

C035 **TUE 8/7/2014, 13:30 - FENS-0468**
MECHANISMS OF CHLORIDE PLASTICITY IN SEIZURE PROGRESSION AND PHARMACORESISTANCE 3104
S. Sivakumaran, J. Maguire *(Helsinki, Finland)*

C036 **TUE 8/7/2014, 14:30 - FENS-3475**
EFFECT OF EARLY LIFE SEIZURES ON CORTICAL EXCITABILITY AND EPILEPTOGENESIS 3105
I. Skaliora, C. Sigalas, M. Nikita, P. Rigas *(Athens, Greece)*

C037 **TUE 8/7/2014, 13:30 - FENS-3271**
ANALYSIS OF THE ROLE OF THE PROTEASOME COMPLEX IN EPILEPSY 3106
S. Spadini, C. Benton, M. Ferro, G. Racchetti, M. Ripamonti, A. Arena, A. Malgaroli, V. Zimarino *(Milan, Italy)*

C038 **TUE 8/7/2014, 14:30 - FENS-3395**
PATTERNS OF SYNCHRONOUS POPULATION ACTIVITY IN THE NEOCORTEX OF PATIENTS WITH EPILEPSY OR TUMOUR, IN VITRO 3107
K. Tóth, K. Hofer, A. Kandrács, C. Szabó, A. Bagó, L. Eross, L. Entz, T. Freund, I. Ulbert, L. Wittner *(Budapest, Hungary)*

C039 **TUE 8/7/2014, 13:30 - FENS-0578**
EPILEPTIFORM DISCHARGES INDUCED BY 4-AMINOPYRIDINE IN PIRIFORM CORTEX OF THE ISOLATED GUINEA-PIG BRAIN: ANALYSIS OF THE MECHANISMS 3108
L. Uva, F. Trombin, L. Librizzi, M. De Curtis *(Milan, Italy)*

C040 **TUE 8/7/2014, 14:30 - FENS-1324**
NOREPINEPHRINE EFFECT ON NETWORK BURSTS IN CULTURED NEURONAL NETWORK 3109
L. Yoshida, K. Kotani, Y. Jimbo *(Kashiwa, Japan)*

C041 **TUE 8/7/2014, 13:30 - FENS-3776**
DYNAMICAL MECHANISMS OF SUPERBURST EPILEPTIFORM ACTIVITY IN A MODEL OF SPIKING NEURONAL NETWORK 3110
A. Simonov, P. Esir, V. Kazantsev *(Nizhny Novgorod, Russia)*

C46: ISCHEMIA - INFLAMMATION, NEUROPROTECTION AND TOLERANCE

C042 **TUE 8/7/2014, 14:30 - FENS-1650**
MICROGLIAL ACTIVATION AND LEUKOCYTE INFILTRATION IN RAT BRAIN AFTER STROKE 3111
J. Anttila, Z. Li, L. Tian, M. Airavaara *(Helsinki, Finland)*

C043 **TUE 8/7/2014, 13:30 - FENS-2274**
UPR-PERK PATHWAY MODULATION AFTER GLOBAL CEREBRAL ISCHEMIA MODIFIES LEUKOCYTE TRANSMIGRATION-RELATED VASCULAR ADHESION MOLECULES IN A STRUCTURE DEPENDENT WAY 3112
B. Anuncibay Soto, M. Santos Galdiano, E. Font, D. Pérez Rodríguez, M. Regueiro Purriños, A. Fernández López *(Leon, Spain)*

C044 **TUE 8/7/2014, 14:30 - FENS-0847**
BLOOD COULD BE THE CARRIER OF ISCHEMIC TOLERANCE 3113
P. Bonova Kravcukova, V. Danielisova, M. Nemethova, J. Burda, M. Bona, M. Gottlieb *(Kosice, Slovakia)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C045 **TUE 8/7/2014, 13:30 - FENS-3685**

ALPHA-LINOLENIC ACID SUPPLEMENTATION IMPROVES MOTOR AND COGNITIVE FUNCTIONS IN A MICE MODEL OF STROKE? 3114

M. Bourourou, C. Nguemeni, E. Gouix, C. Rovère, C. Simonneau, A. Renault, N. Simon-Rousseau, C. Heurteaux, N. Blondeau *(Valbonne, France)*

C046 **TUE 8/7/2014, 14:30 - FENS-1118**

NEUROPROTECTION IN A RAT MODEL OF FOCAL CEREBRAL ISCHEMIA BY LOW DOSES OF THE SELECTIVE ADENOSINE A2A RECEPTOR AGONIST, CGS21680 3115

L. Cellai, A. Melani, F. Corti, M.G. Vannucchi, F. Pedata *(Florence, Italy)*

C047 **TUE 8/7/2014, 13:30 - FENS-3407**

CHARACTERIZATION OF NEW MOLECOLAR PATHWAYS INVOLVED IN NEURONAL DISFUNCTIONS FOLLOWING HYPOXIC-ISCHEMIC INJURY IN NEONATAL MICE: THE ROLE OF SODIUM/CALCIUM EXCHANGER 3116

P. Cerullo, G. Pignataro, A. Vinciguerra, O. Cuomo, S. Anzilotti, G. Di Renzo, L. Annunziato *(Napoli, Italy)*

C048 **TUE 8/7/2014, 14:30 - FENS-0976**

POSTCONDICIONING EFFECTIVELY PREVENTS TRIMETHYLTIN-INDUCED NEURONAL DAMAGE 3117

V. Danielisová, M. Nemethova, P. Bonova, M. Gottlieb, M. Matiasova, M. Lalkovicova, J. Burda *(Kosice, Slovakia)*

C049 **TUE 8/7/2014, 13:30 - FENS-0438**

ACTIVITY OF ENDOGENOUS ANTIOXIDANT ENZYMES IN SPINAL CORD NEURONS AFTER NORADRENALINE PRECONDITIONING AND ISCHEMIA-REPERFUSION IN RABBITS 3118

I. Domoráková, E. Mechírová, V. Danielisová, M. Stebnicky, M. Danková, J. Burda *(Kosice, Slovakia)*

C050 **TUE 8/7/2014, 14:30 - FENS-0517**

CHANGES IN ANTIOXIDANT ENZYME ACTIVITIES IN THE ISCHEMIC SPINAL CORD WHITE AND GRAY MATTER IN RABBITS AFTER BRADYKININ PRECONDITIONING 3119

E. Mechírová, V. Danielisová, I. Domoráková, M. Danková, M. Stebnicky, J. Burda *(Kosice, Slovakia)*

C051 **TUE 8/7/2014, 13:30 - FENS-3667**

NEUROPROTECTIVE EFFECT OF NANOSTRUCTURAL ADAPTOGENS IN ACUTE HYPOXIA 3120

E. Erlykina, E. Murach, A. Koryagin *(Nizhny Novgorod, Russia)*

C052 **TUE 8/7/2014, 14:30 - FENS-1659**

NEUROPROTECTIVE EFFECT OF ERIODICTYOL ON NEURONAL DAMAGE, MOTOR AND MEMORY DEFICITS INDUCED BY PERMANENT FOCAL BRAIN ISCHEMIA IN MICE 3121

E.O. Ferreira, M.Y.S.D. Fernandes, N.M.R. Lima, A.A. Fonteles, P.A. Rodrigues, M.R.S. Carmo, A.C.L. Nunes, F.A.V. Lima, A.O.C. Castelo, G.M. Andrade *(Fortaleza, Brazil)*

C053 **TUE 8/7/2014, 13:30 - FENS-3740**

GAP-43 - AN EARLY MARKER OF ISCHEMIA INDUCED NEURONAL STRESS 3122

S. Gajovic, I. Bohacek, D. Gorup, T. Milicevic, J. Kriz *(Zagreb, Croatia)*

C054 **TUE 8/7/2014, 14:30 - FENS-1344**

ASTROCYTE-MEDIATED ISCHEMIC TOLERANCE IN THE BRAIN 3123

Y. Hirayama, Y. Ikeda-Matsuo, S. Koizumi *(Yamanashi, Japan)*

C055 **TUE 8/7/2014, 13:30 - FENS-2612**

HYPOXIC PRECONDITIONING CAN REDUCE INJURY-INDUCED INFLAMMATION IN THE NEONATAL RAT BRAIN 3124

N. Jones, J. Parmer *(Sydney, Australia)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C056 **TUE 8/7/2014, 14:30 - FENS-1623**
THE BETA-HYDROXYBUTYRATE RECEPTOR HCA2 ACTIVATES A NEUROPROTECTIVE SUBSET OF MACROPHAGES 3125
M. Khan, M. Rahman, S. Muhammad, H. Chen, D.A. Ridder, B. Pokorná, T. Vollbrandt, J.G. Okun, S. Offermanns, M. Schwaninger *(Lübeck, Germany)*

C057 **TUE 8/7/2014, 13:30 - FENS-0694**
INTERLEUKIN-33 INDUCES A TH2-TYPE SHIFT THAT IS PROTECTIVE IN A MOUSE MODEL OF CEREBRAL STROKE 3126
P. Korhonen, K.M. Kanninen, S. Lemarchant, H. Dhungana, S. Kekäläinen, E. Pollari, S. Lehtonen, S. Wojciechowski, J. Koistinaho, T. Malm *(Kuopio, Finland)*

C058 **TUE 8/7/2014, 14:30 - FENS-2548**
INTRANASAL DELIVERY OF RGD-CONTAINING OSTEOPONTIN ICOSAMER PEPTIDE AFFORDS NEUROPROTECTIVE EFFECT IN THE POSTISCHEMIC BRAIN 3127
J. Lee, Y.C. Jin, I.D. Kim, H.K. Lee, P.L. Han *(Incheon, Korea)*

C059 **TUE 8/7/2014, 13:30 - FENS-2143**
ASK1 REGULATES ISCHEMIA-INDUCED ASTROCYTE ACTIVATION AND GLIAL SCAR FORMATION 3128
J. Lee, J.H. Song, S.Y. Cheon, K.J. Cho, W.T. Lee, K.W. Kim *(Seoul, Korea)*

C060 **TUE 8/7/2014, 14:30 - FENS-3473**
CHEMICALLY INDUCED HYPERHOMOCYSTEINEMIA AFFECTS ISCHEMIC TOLERANCE MECHANISM IN RATS 3129
J. Lehotsky, M. Kovalska, M. Petra, A. Drgová, Z. Tatarkova, P. Kaplan *(Martin, Slovakia)*

C061 **TUE 8/7/2014, 13:30 - FENS-2551**
POSTNATAL CELL PROLIFERATION IN THE HIPPOCAMPUS IS MODULATED BY DOPAMINERGIC SYSTEMS IN THE RAT: EFFECT OF PERINATAL ASPHYXIA 3130
P. Morales, D. Esmar, P. Espina-Marchant, E. Rojas-Mancilla, R. Pérez, M. Gutierrez-Hernández, T. Neira-Peña, P. Gebicke-Haerter, M. Herrera-Marschitz *(Santiago, Chile)*

C062 **TUE 8/7/2014, 14:30 - FENS-2977**
MANNOSE-BINDING LECTIN DEFICIENCY PROTECTS AGAINST VASCULAR DYSFUNCTION AFTER TRANSIENT BRAIN ISCHEMIA 3131
F. Orsini, A. Dénes, S. Fumagalli, D. De Blasio, M.G. De Simoni *(Milan, Italy)*

C063 **TUE 8/7/2014, 13:30 - FENS-3233**
COMBINATION OF PEA (PALMITOYLETHANOLAMIDE) WITH LUTEOLIN MODULATES MAST CELLS ACTIVATION AND INDUCES NEUROPROTECTION IN CELL-BASED MODELS OF BRAIN ISCHEMIA 3132
E. Parrella, V. Porrini, R. Iorio, R. Piva, M. Benarese, M. Fusco, P.F. Spano *(Brescia, Italy)*

C064 **TUE 8/7/2014, 14:30 - FENS-1881**
DIAZEPAM OFFERS NEUROPROTECTION IN AN IN VITRO MODEL OF ISCHAEMIA 3133
K. Peters, C.L. Gibson, A.M.J. Young *(Leicester, United Kingdom)*

C065 **TUE 8/7/2014, 13:30 - FENS-3136**
MESENCHYMAL STEM CELLS MODULATE TLR2 EXPRESSION AFTER STROKE 3134
D. Polsek, D. Gorup, S. Gajovic *(Zagreb, Croatia)*

C066 **TUE 8/7/2014, 14:30 - FENS-3298**
FOCAL PHOTHOTHROMBOTIC STROKE MODEL IN THE CAT VISUAL CORTEX 3135
A. Popek, J. Jablonka, A. Foik, E. Kublik, A. Ghazaryan, M. Golicz, R. Lechowski, W. Waleszczyk *(Warsaw, Poland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C067 **TUE 8/7/2014, 13:30 - FENS-0401**

TRANS-ANETHOLE PROTECTS CORTICAL NEURONAL CELLS AGAINST OXYGEN-GLUCOSE DEPRIVATION/REOXYGENATION 3136

G. Seol, I. Choi, S. Min *(Seoul, Korea)*

C068 **TUE 8/7/2014, 14:30 - FENS-0989**

NEOVASCULAR POTENTIAL OF MESENCHYMAL STEM CELLS DERIVED FROM WHARTON JELLY IN RAT HIPPOCAMPAL SLICE CULTURES AFTER OXYGEN-GLUCOSE DEPRIVATION 3137

P. Siedlecka, A. Sarnowska, L. Strojek, K. Drela, K. Domanska-Janik *(Warszawa, Poland)*

C069 **TUE 8/7/2014, 13:30 - FENS-3519**

THE INVOLVEMENT OF CD36 RECEPTOR ACTIVATION IN A LONG TERM STUDY OF MIDDLE CEREBRAL ARTERY OCCLUSION IN MICE 3138

G. Sita, F. Morroni, P. Hrelia, J. Anrather, C. Iadecola *(Bologna, Italy)*

C070 **TUE 8/7/2014, 14:30 - FENS-2215**

MICRORNA 103-1 SELECTIVELY DOWNREGULATES BRAIN NCX1 AND ITS INHIBITION BY ANTIMIRNA REDUCES STROKE DAMAGE AND AMELIORATES NEUROLOGICAL DEFICITS 3139

A. Vinciguerra, G. Pignataro, N. Guida, L. Formisano, P. Cerullo, L. Annunziato, G. Di Renzo *(Naples, Italy)*

C071 **TUE 8/7/2014, 13:30 - FENS-0566**

THE INFLUENCE OF HISTONE DEACETYLASE INHIBITOR - SODIUM BUTYRATE ON HIPPOCAMPAL NEUROGENESIS AFTER EXPERIMENTAL NEONATAL HYPOXIA-ISCHEMIA 3140

M. Ziemka-Nalecz, J. Jaworska, T. Zalewska *(Warsaw, Poland)*

C47: TRAUMA - BRAIN

C072 **TUE 8/7/2014, 14:30 - FENS-3643**

SLEEP HOMEOSTASIS IN PATIENTS WITH DISORDERS OF CONSCIOUSNESS: THE ROLE OF PER3 GENE 3141

G. Bedini, A. Bersano, F. Ciaraffa, V. Tosetti, D. Rossi, S. Franceschetti, D. Sattin, E. Ciusani, M. Leonardi, J. Vela-Gomez, G.B. Boncoraglio, E.A. Parati *(Milano, Italy)*

C073 **TUE 8/7/2014, 13:30 - FENS-2732**

ID3 REGULATES THE DIFFERENTIATION OF ADULT NEURAL STEM CELLS INTO OLFACTORY BULB NEURONS VIA THE CONTROL OF E47 3142

C. Bohrer, S. Schildge, S. Pfurr, L. Plappert, J. Dengjel, D. Pfeifer, K. Schachtrup, C. Schachtrup *(Freiburg, Germany)*

C074 **TUE 8/7/2014, 14:30 - FENS-0800**

CONCUSSIVE TRAUMATIC BRAIN INJURY PLUS FOOT-SHOCK STRESS WORSENS SOCIAL RECOGNITION AND DEPRESSION-LIKE BEHAVIOR: A MOUSE MODEL FOR PRECLINICAL THERAPEUTIC DEVELOPMENT 3143

D. Brody *(St Louis, USA)*

C075 **TUE 8/7/2014, 13:30 - FENS-2854**

FLUCTUATIONS OF THE LEVEL OF CONSCIOUSNESS IN MINIMALLY CONSCIOUS STATE PATIENTS 3144

S. Casarotto, P.D. Trimarchi, C. Abbate, G. Devalle, A. Mazzucchi *(Milan, Italy)*

C076 **TUE 8/7/2014, 14:30 - FENS-0070**

PAR-3 PROMOTES ASTROCYTE MIGRATION INDUCED BY NEURONAL THY-1 3145

A. Cárdenas, M. Kong, A. Valdivia, A. Alvarez, A.F.G. Quest, L. Leyton *(Santiago, Chile)*

C077 **TUE 8/7/2014, 13:30 - FENS-3234**

LONG-TERM FOLLOW-UP OF SEVERE TRAUMATIC BRAIN INJURY SURVIVORS: AN EPIDEMIOLOGICAL STUDY 3146

M. De Pretto, C.S. Haller, B. Walder *(Geneva, Switzerland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C078 **TUE 8/7/2014, 14:30 - FENS-2688**

HIPPOCAMPAL NEURODEGENERATION AND ASTROCYTOSIS FOLLOWING TRAUMATIC BRAIN INJURY IN THE RAT: EFFECTS OF A SINGLE DOSE OF PIOGLITAZONE 3147

P. Dolenec, K. Pilipovic, G. Zupan, Z. Zupan *(Rijeka, Croatia)*

C079 **TUE 8/7/2014, 13:30 - FENS-1002**

PRE-CHIASMATIC ARTERIAL SUBARACHNOID HEMORRHAGE LEADS TO GENERALIZED NEURONAL DAMAGE AND ASTROCYTE ACTIVATION IN RAT BRAIN 3148

D. Gendosz, A. Liskiewicz, I. Matuszak, H. Jedrzejowska-Szypulka *(Katowice, Poland)*

C080 **TUE 8/7/2014, 14:30 - FENS-0675**

NEURO-IMMUNOLOGICAL FUNCTION OF AQP4 IN INJURED BRAIN IN CONCERT WITH A PRO-INFLAMMATORY CYTOKINE INDUCER, OSTEOPONTIN 3149

H. Ikeshima-Kataoka1, S. Inui, M. Imamura, Y. Abe, M. Yasui *(Tokyo, Japan)*

C081 **TUE 8/7/2014, 13:30 - FENS-1817**

FINE MANUAL DEXTERITY IS AFFECTED BY TRANSIENT INACTIVATION OF PRIMARY MOTOR CORTEX USING REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION (RTMS) 3150

M. Kaeser, C. Roux, M. Fregosi, J. Savidan, M. Mouthon, L. Spierer, E. Rouiller, E. Schmidlin *(Fribourg, Switzerland)*

C082 **TUE 8/7/2014, 14:30 - FENS-1788**

EFFECTS OF PERMANENT OR REVERSIBLE INACTIVATION OF PRIMARY MOTOR (M1) HAND AREA ON PRECISION GRIP PERFORMANCE IN VARIOUS MOTOR TASKS 3151

J. Savidan, M. Fregosi, E. Fortis, C. Roux, A.D. Gindrat, M. Kaeser, E.M. Rouiller, E. Schmidlin *(Fribourg, Switzerland)*

C083 **TUE 8/7/2014, 13:30 - FENS-2135**

FUNCTIONAL RESTITUTION OF MANUAL DEXTERITY IN MACAQUE MONKEYS AFTER A MOTOR CORTEX LESION ASSESSED WITH THE BRINKMAN BOX TASK 3152

E. Schmidlin, A. Gindrat, M. Kaeser, A. Wyss, C. Leuthard, E. Rouiller *(Fribourg, Switzerland)*

C084 **TUE 8/7/2014, 14:30 - FENS-0499**

DIFFUSION TENSOR IMAGING DETECTS MULTIFOCAL AXONAL INJURY IN A MOUSE MODEL OF SUBARACHNOID HEMORRHAGE 3153

T. Kummer, E. Milner, C.L. MacDonald, E. Gonzales, J.B. Benetatos, J. Sorrell, G.J. Zipfel, D.L. Brody *(St. Louis, USA)*

C085 **TUE 8/7/2014, 13:30 - FENS-1622**

TRAUMATIC BRAIN INJURY INDUCED CHANGES OF NEURONAL FUNCTION AND OF THE PROTEASOME PROTEIN DEGRADATION SYSTEM IN SOMATOSENSORY CORTEX OF MICE 3154

F. Le Prieult, B. Imbrosci, A. Neitz, C. Göltz, S. Thal, V. Felzen, C. Behl, K. Engelhard, T. Mittmann *(Mainz, Germany)*

C086 **TUE 8/7/2014, 14:30 - FENS-3679**

INCREASED IPSILATERAL CORTICAL EXCITABILITY WITH MIRRORED VISUAL FEEDBACK IN A VIRTUAL ENVIRONMENT 3155

V. Liakoni, G. Garipelli, D. Perez-Marcos, T. Tadi *(Ecublen, Switzerland)*

C087 **TUE 8/7/2014, 13:30 - FENS-3652**

PALMITOYLETHANOLAMIDE CHRONIC TREATMENT REDUCES THE SENSORIAN AND COGNITIVE DISFUNCTION ASSOCIATED WITH MILD TRAUMATIC BRAIN INJURY 3156

L. Luongo, V.D.N. Vito de Novellis, F.R. Francesco Rossi, S.M. Sabatino Maione *(Naples, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C088 **TUE 8/7/2014, 14:30 - FENS-2549**
MODULATION OF NERVE GROWTH FACTOR AFTER OPTIC NERVE CRUSH IN ADULT RATS 3157
L. Mesentier-Louro, L.A. De Vitis, V. Castoldi, L. Chaabane, L. Leocani, R. Mendez-Otero, M.F. Santiago, P. Rama *(Milan, Italy)*

C089 **TUE 8/7/2014, 13:30 - FENS-3126**
BRAIN CONNECTIVITY PATTERNS IN TRAUMATIC BRAIN INJURY - PRELIMINARY MEG RESULTS 3158
R. Nowak, S. Gimenez Badia *(Barcelona, Spain)*

C090 **TUE 8/7/2014, 14:30 - FENS-3769**
MINDBEAGLE - AWARENESS ASSESSMENT AND COMMUNICATION TOOL FOR COMA PATIENTS 3159
R. Ortner, C. Schneider, M. Bruckner, C. Guger *(Schiedlberg, Austria)*

C091 **TUE 8/7/2014, 13:30 - FENS-3253**
NEUROPROTECTIVE EFFECTS OF EQUAZENTM SENIOR IN VITRO AND EX VIVO 3160
P. Pallier, S. Gladman, A.T. Michael-Titus *(London, United Kingdom)*

C092 **TUE 8/7/2014, 14:30 - FENS-1733**
ATB-346, A HYDROGEN SULFIDE-RELEASING CYCLOOXYGENASE INHIBITOR, ENHANCES MOTOR FUNCTION AND REDUCES CORTICAL LESION VOLUME FOLLOWING TRAUMATIC BRAIN INJURY IN MICE 3161
I. Paterniti, M. Campolo, R. Siracusa, R. Di Paola, G. Bruschetta, M. Cordaro, E. Esposito, J.L. Wallace, S. Cuzzocrea *(Messina, Italy)*

C093 **TUE 8/7/2014, 13:30 - FENS-1655**
EFFECTS OF METHYLPHENIDATE ON POSTTRAUMATIC BRAIN INJURY SYMPTOMS WITH FOCUS ON MENTAL FATIGUE, PAIN AND SAFETY 3162
L. Ronnback, B. Johansson, A.P. Wentzel, P. Andréll, J. Odenstedt, C. Mannheimer *(Gothenburg, Sweden)*

C094 **TUE 8/7/2014, 14:30 - FENS-1712**
THE BLOOD-DERIVED PROTEIN FIBRINOGEN REGULATES THE DIFFERENTIATION OF ADULT NEURAL STEM CELLS INTO ASTROCYTES AFTER CNS DISEASE 3163
S. Schildge, C. Bohrer, D. Pfeifer, J.L. Degen, K. Akassoglou, K. Schachtrup, C. Schachtrup *(Freiburg, Germany)*

C095 **TUE 8/7/2014, 13:30 - FENS-1075**
DE-NOVO EXPRESSION OF PARVALBUMIN IN EPENDYMAL CELLS IN RESPONSE TO INJURY 3164
V. Szabolcsi, M.R. Celio *(Fribourg, Switzerland)*

C096 **TUE 8/7/2014, 14:30 - FENS-0236**
CHARACTERISATION OF RETINAL GANGLION CELL SURVIVAL AND REGENERATION FOLLOWING PULSED MAGNETIC FIELD STIMULATION IN A MOUSE OPTIC NERVE CRUSH MODEL 3165
A. Tang, C. Bartlett, J. Rodger *(Perth, Australia)*

C097 **TUE 8/7/2014, 13:30 - FENS-2465**
TIME COURSE ANALYSIS OF CELL PROLIFERATION CHANGES IN ADULT ZEBRAFISH RETINA FOLLOWING UNILATERAL OPTIC NERVE AXOTOMY 3166
T. Tsarouchas, C.R. Dermon *(Patras, Greece)*

C48: NEUROTOXICITY, INFLAMMATION, AND NEUROPROTECTION

C098 **TUE 8/7/2014, 14:30 - FENS-0343**
COMBINED EXPOSURE TO SIMULATED MICROGRAVITY AND ACUTE OR CHRONIC RADIATION REDUCES NEURONAL NETWORK INTEGRITY AND CELL SURVIVAL 3167
M. Verslegers, G. Pani, N. Samari, R. Quintens, L. De Saint-Georges, S. Baatout, M.A. Benotmane *(Mol, Belgium)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C099 **TUE 8/7/2014, 13:30 - FENS-1025**

SCREENING FOR DIFFERENT GENES INVOLVED IN TOXICITY OR PROTECTION MECHANISMS IN BILIRURUBIN-INDUCED NEURONAL DAMAGE 3168

E. Vianello, A. Berengeno, S. Gazzin, C. Tiribelli *(Trieste, Italy)*

C100 **TUE 8/7/2014, 14:30 - FENS-1776**

P2X3-RECEPTORS PLAY A PRINCIPAL ROLE IN DEVELOPMENT OF PAIN SYNDROME DURING PERIPHERAL INFLAMMATION 3169

V. Viatchenko-Karpinski, A. Savchenko, N. Voitenko *(Kyiv, Ukraine)*

C101 **TUE 8/7/2014, 13:30 - FENS-0842**

STUDY OF IN VIVO UPTAKE, DISTRIBUTION AND TRANSPORT OF CNS-TARGETED NANOPARTICLES WITHIN THE BRAIN 3170

A. Vilella, G. Tosi, A.M. Grabrucker, B. Ruozi, D. Belletti, M.A. Vandelli, T.M. Boeckers, F. Forni, M. Zoli *(Modena, Italy)*

C102 **TUE 8/7/2014, 14:30 - FENS-2225**

CELECOXIB INHIBITS PRION PROTEIN 90-231-MEDIATED PRO-INFLAMMATORY RESPONSES IN MICROGLIAL CELLS 3171

V. Villa, S. Thellung, M. Nizzari, M. Tonelli, B. Tasso, A. Corsaro, T. Florio *(Genoa, Italy)*

C103 **TUE 8/7/2014, 13:30 - FENS-1792**

RESCUE OF UCB-INDUCED NEUROLOGICAL DAMAGE IN A UGT1A KO MOUSE MODEL BY HUMAN ALBUMIN INFUSION 3172

S. Vodret, G. Bortolussi, J. Vanikova, A. Schreuder, L. Vitek, H.J. Verkade, A.F. Muro *(Trieste, Italy)*

C104 **TUE 8/7/2014, 14:30 - FENS-3348**

M30 AND LBP PREVENT PHOTORECEPTORS FROM DEGENERATION IN RD10 MOUSE MODEL OF RETINITIS PIGMENTOSA 3173

K. Wang, B. Peng, B. Lin *(Hong Kong, China)*

C105 **TUE 8/7/2014, 13:30 - FENS-1251**

LONG-TERM EFFECTS OF IMMUNOSTIMULATION ON NEURONAL FUNCTION AND MORPHOLOGY 3174

M. Weller, M.T. Heneka, M. Korte *(Braunschweig, Germany)*

C106 **TUE 8/7/2014, 14:30 - FENS-1111**

TUDCA SWITCHES ACTIVATED MICROGLIA TO M2 PHENOTYPE IN AN ANIMAL MODEL OF ACUTE NEUROINFLAMMATION 3175

N. Yanguas Casas, M.A. De la Barreda Manso, M. Nieto Sampedro, L. Romero Ramírez *(Madrid, Spain)*

C107 **TUE 8/7/2014, 13:30 - FENS-0215**

ETHANOL OR ITS METABOLITE, ACETALDEHYDE, REVERSIBLY SUPPRESSES EPENDYMAL CILIARY BEATING IN THE MOUSE THIRD VENTRICLE 3176

S. Yoshida, A. Gotoh, T. Hagiwara *(Higashi-Osaka, Japan)*

C108 **TUE 8/7/2014, 14:30 - FENS-0348**

HUMAN STEFIN B ROLE IN CELL'S RESPONSE TO MIS-FOLDED PROTEINS AND AUTOPHAGY 3177

E. Zerovnik, M. Polajnar, T. Zavasnik-Bergant, M. Vizovisek, R. Vidmar, M. Fonovic, N. Kopitar-Jerala, S. Ventura *(Ljubljana,Slovenia)*

C109 **TUE 8/7/2014, 13:30 - FENS-0251**

MOLECULAR MECHANISMS OF ACUTE AXONAL DEGENERATION IN THE RAT OPTIC NERVE 3178

J. Zhang, J.C. Koch, U. Michel, M. Bähr, P. Lingor *(Goettingen, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C49: MENTAL DISORDERS - SCHIZOPHRENIA

C110 **TUE 8/7/2014, 14:30 - FENS-0594**
PZ-976, A NOVEL POTENTIAL ANTIPSYCHOTIC AND COGNITION-ENHANCING COMPOUND 3179
T. Kos, P. Zajdel, A. Nikiforuk, A.J. Bojarski, P. Popik *(Krakow, Poland)*

C111 **TUE 8/7/2014, 13:30 - FENS-0254**
ALTERATIONS IN HISTONE H3 ACETYLATION IN FEAR MEMORY DEFICIT IN NEURODEVELOPMENTAL MODEL OF SCHIZOPHRENIA 3180
J. Latusz, E. Bator, A. Szybinska, K. Wedzony, M. Mackowiak *(Krakow, Poland)*

C112 **TUE 8/7/2014, 14:30 - FENS-2131**
EFFECTS OF PHENCYCLIDINE ON BRAIN ARGININE METABOLISM IN RATS 3181
P. Liu, L.T. Knox, Y. Jing, H. Zhang *(Dunedin, New Zealand)*

C113 **TUE 8/7/2014, 13:30 - FENS-0407**
EFFECTS OF PRENATAL IMMUNE ACTIVATION ON ADULT NEUROGENESIS IN THE SUBVENTRICULAR ZONE-OLFACTORY BULB PATHWAY AND ODOR DISCRIMINATION 3182
Y. Liu, H. Tsay, T. Wang, J. Yu *(Taipei, Taiwan)*

C114 **TUE 8/7/2014, 14:30 - FENS-1152**
DOPAMINERGIC RESPONSES IN THE NUCLEUS ACCUMBENS SHELL TO KETAMINE TREATMENT ARE DISRUPTED FOLLOWING NEONATAL INACTIVATION OF THE PREFRONTAL CORTEX 3183
A. Louilot, Y. Makhloufi, Y. Usun, S. Eybrard, F. Meyer *(Strasbourg, France)*

C116 **TUE 8/7/2014, 14:30 - FENS-3486**
PRIMARY CEREBRAL AND CEREBELLAR ASTROCYTES DISPLAY DIFFERENTIAL SENSITIVITY TO EXTRACELLULAR SODIUM WITH SIGNIFICANT EFFECTS ON APOPTOSIS 3184
M. Makinodan, T. Takeda, F. Fukami, T. Toritsuka, I. Ikawa, Y. Yamashita, K. Kishimoto *(Nara, Japan)*

C117 **TUE 8/7/2014, 13:30 - FENS-0850**
DIVERGENT QUANTITATIVE AND QUALITATIVE CHANGES IN AMPHETAMINE-INDUCED HYPERLOCOMOTION IN BDNF HETEROZYGOUS MICE FOLLOWING CHRONIC METHAMPHETAMINE EXPOSURE 3185
E. Manning, A.L. Halberstadt, M. Van den Buuse *(Parkville, Australia)*

C118 **TUE 8/7/2014, 14:30 - FENS-0860**
METABOTROPIC GLUTAMATE RECEPTOR SUBTYPE 5 PATHWAY MARKERS ARE ALTERED IN SCHIZOPHRENIA 3186
N. Matosin, F. Fernandez-Enright, X.F. Huang, K.A. Newell *(Wollongong, Australia)*

C119 **TUE 8/7/2014, 13:30 - FENS-1195**
ANALYSIS OF STARTLE MAGNITUDE AND PREPULSE INHIBITION IN ACUTE AND CHRONIC SCHIZOPHRENICS 3187
A. Mena, A. Puentes-Alfonso, J.C. Ruiz-Salas, E. Quintero, A. Sánchez-Barroso, I. Dorado-Siles, M. Ruiz-Veguillas, L.G. De la Casa *(Seville, Spain)*

C120 **TUE 8/7/2014, 14:30 - FENS-2623**
ANTIPSYCHOTIC POTENTIAL OF ANTIOXIDATIVE AGENTS IN MODEL FOR SCHIZOPHRENIA 3188
M. Mizuno *(Nagoya, Japan)*

C121 **TUE 8/7/2014, 13:30 - FENS-2661**
DEEPER INSIGHTS INTO SENSORY GATING DEFICITS IN CHRONIC SCHIZOPHRENIA PATIENTS 3189
R. Mueller, M. Taubert, J. Klosterkötter, M. Weiergräber, A. Brockhaus-Dumke, S. Ruhrmann *(Köln, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C122 **TUE 8/7/2014, 14:30 - FENS-0839**

THE RECOGNITION OF COMMUNICATIVE AND INDIVIDUAL ACTIONS FROM POINT-LIGHT STIMULI IN SCHIZOPHRENIA 3190

L. Okruszek, M. Haman, K. Kalinowski, M. Talarowska, C. Becchio, V. Manera *(Warsaw, Poland)*

C123 **TUE 8/7/2014, 13:30 - FENS-1941**

ROLE OF GLYCOGEN PHOSPHORYLASE MUSCLE FORM PROTEIN IN RAT ASTROCYTES: IMPLICATIONS FOR ENERGY METABOLISM IN SCHIZOPHRENIA 3191

R. Pinacho, B. Ramos *(Barcelona, Spain)*

C124 **TUE 8/7/2014, 14:30 - FENS-3637**

BACKWARD MASKING PERFORMANCE IN PSYCHOTIC AND NON-PSYCHOTIC PATIENTS 3192

M. Roinishvili, E. Chkonia, L. Reichard, W. Wurch, H. Puhlmann, C. Grimsen, M.H. Herzog, A. Brand *(Tbilisi, Georgia)*

C125 **TUE 8/7/2014, 13:30 - FENS-2345**

EPIGENETIC MECHANISMS UNDERLYING SEX DIFFERENCES IN SCHIZOPHRENIA 3193

C. Rosen, K.A. Chase, S. Khan, R.P. Sharma *(Chicago, USA)*

C126 **TUE 8/7/2014, 14:30 - FENS-2152**

STRUCTURAL/FUNCTIONAL INSIGHT IN HUMAN D-AMINO ACID OXIDASE-PLG72 INTERACTION 3194

S. Sacchi, L. Birolo, G. Molla, L. Caldinelli, P. Pucci, L. Pollegioni *(Varese, Italy)*

C127 **TUE 8/7/2014, 13:30 - FENS-3222**

A FUNCTIONAL KINETIC STUDY OF ANTAGONISM OF THE DOPAMINE D2 RECEPTOR - RELEVANCE TO THE FAST-OFF HYPOTHESIS OF ANTIPSYCHOTIC ATYPICALITY 3195

K. Sahlholm, D. Marcellino, J. Nilsson, S.O. Ogren, K. Fuxe, P. Arhem *(Stockholm, Sweden)*

C128 **TUE 8/7/2014, 14:30 - FENS-1884**

DISTURBANCES OF SENSORIMOTOR SELF-MONITORING IN SCHIZOPHRENIA: FUNCTIONAL AND BEHAVIORAL DIFFERENCES BETWEEN SCHIZOPHRENIC PATIENTS AND CONTROLS 3196

M. Schmitgen, K. Guba, K. Schnell *(Heidelberg, Germany)*

C129 **TUE 8/7/2014, 13:30 - FENS-1531**

DIFFERENTIAL CORTICAL ACTIVATION PATTERNS AND FUNCTIONAL CONNECTIVITY IN MAJOR DEPRESSION AND SCHIZOPHRENIA IN RESPONSE TO EMOTIONAL BODY MOVEMENTS 3197

S. Schneider, F.B. Haeussinger, A. Christensen, M.A. Giese, A.J. Fallgatter, A.C. Ehlis *(Tuebingen, Germany)*

C130 **TUE 8/7/2014, 14:30 - FENS-1281**

INTERACTION BETWEEN REELIN AND STRESS IN BEHAVIOUR: IMPLICATIONS FOR SCHIZOPHRENIA 3198

A. Schroeder, M. Van den Buuse *(Melbourne, Australia)*

C131 **TUE 8/7/2014, 13:30 - FENS-0783**

ANOMALOUS ECHO: EXPLORING ABNORMAL EXPERIENCE CORRELATES OF EMOTIONAL MOTOR RESONANCE IN SCHIZOPHRENIA SPECTRUM 3199

M. Sestito, A.R. Andrea Raballo, M.A.U. Maria Alessandra Umiltà, M.A. Mario Amore, C.A. Carlo Maggini, V.G. Vittorio Gallese *(Parma, Italy)*

C132 **TUE 8/7/2014, 14:30 - FENS-2351**

METABOLIC AND INFLAMMATORY GENE REGULATION IN SCHIZOPHRENIA 3200

R. Sharma, S. Khan, K.A. Chase *(Chicago, USA)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C133 **TUE 8/7/2014, 13:30 - FENS-0657**

NRG3 AND PTPN21, INDUCE NEURONAL SURVIVAL AND NEURITIC ELONGATION VIA ERBB4 SIGNALING CASCADE 3201

Y. Song, J.H.C. Plani-Lam, T.C. Chow, K.L. Siu, M.H.J. Ng, S.Y. Bao, C.T. Ng, D.K.Y. Shum, D.Y. Jin *(Hong Kong, China)*

C134 **TUE 8/7/2014, 14:30 - FENS-2175**

POSTSYNAPTIC GENES MODULATION BY MEMANTINE IN ANIMAL MODELS OF DOPAMINE PERTURBATION: IMPLICATIONS FOR NMDA ANTAGONISTS ADD-ON TO ANTIPSYCHOTICS IN SCHIZOPHRENIA 3202

C. Tomasetti, E.F. Buonaguro, F. Marmo, A. Eramo, G. Mazzola, C. Avagliano, G. Fico, F. Iasevoli, A. De Bartolomeis *(Napoli, Italy)*

C135 **TUE 8/7/2014, 13:30 - FENS-3477**

DEFICITS IN MICRORNA-MEDIATED CXCR4/CXCL12 SIGNALING IN NEURODEVELOPMENTAL DEFICITS IN A 22Q11 DELETION SYNDROME MOUSE MODEL 3203

M. Toritsuka, S. Kimoto, K. Muraki, M.A. Landek-Salgado, A. Yoshida, N. Yamamoto, Y. Horiuchi, H. Hiyama, K. Tajinda, K. Ni, E. Illingworth, T. Iwamoto, T. Kishimoto, A. Sawa, K. Tanigaki *(Kashihara city, Japan)*

C136 **TUE 8/7/2014, 14:30 - FENS-0421**

ASSOCIATION STUDY OF HSD3B1 POLYMORPHISMS WITH SCHIZOPHRENIA IN JAPANESE POPULATION 3204

S. Yamauchi, S. Kawashige, T. Kanazawa, Y. Nishizawa, M. Takahashi, T. Okayama, T. Kaneko, H. Kikuyama, J. Koh, H. Yoneda *(Takatsuki, Japan)*

C137 **TUE 8/7/2014, 13:30 - FENS-3602**

CHARACTERIZATION OF GENE EXPRESSION IN MICE LACKING GLUTAMATE DECARBOXYLASE 67 PRIMARILY IN PARVALBUMIN NEURONS 3205

Y. Yanagawa, K. Fujihara, H. Miwa, T. Kakizaki, R. Kaneko, M. Mikuni, C. Tanahira, N. Tamamaki *(Maebashi, Japan)*

C138 **TUE 8/7/2014, 14:30 - FENS-1995**

QUANTITATIVE ELECTROENCEPHALOGRAPHY AS A BIOMARKER FOR PRONENESS TOWARD DEVELOPING PSYCHOSIS 3206

A. Young, M.A. Bennett, P.A. Duke, G. Fuggetta *(Leicester, United Kingdom)*

C50: MENTAL DISORDERS - AUTISM, MENTAL RETARDATION, AND RELATED DISORDERS

C139 **TUE 8/7/2014, 13:30 - FENS-3551**

AMINOPEPTIDASE P1 DEFICIENCY LEADS TO SEVERE COGNITIVE AND SYNAPTIC DYSFUNCTION 3207

M. Kim, Y.S. Bae, K.Y. Park *(Seoul, Korea)*

C140 **TUE 8/7/2014, 14:30 - FENS-1339**

PLACE PREFERENCE LEARNING IN THE INTELLICAGE SYSTEM AFFECTS SOCIABILITY IN THE BTBR MOUSE MODEL OF AUTISM 3208

K. Kondrakiewicz, T. Nikolajew, K. Ziegart, J. Sadowska, E. Knapska, K. Meyza *(Warsaw, Poland)*

C141 **TUE 8/7/2014, 13:30 - FENS-2682**

AUTISTIC-LIKE SYNDROME IN MU OPIOID RECEPTOR NULL MICE IS RELIEVED BY FACILITATED MGLUR4 ACTIVITY 3209

J. Le Merrer, J.A.J. Becker, D. Clesse, C. Spiegelhalter, Y. Schwab, B.L. Kieffer *(Illkirch, France)*

C142 **TUE 8/7/2014, 14:30 - FENS-2609**

OXYTOCIN SYSTEM IN THE SOCIAL BEHAVIOUR REGULATIONS AND NEURODEVELOPMENTAL DISORDERS 3210

O. Lopatina *(Krasnoyarsk, Russia)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C143 **TUE 8/7/2014, 13:30 - FENS-3548**
A NEW IPS CELLS MODEL OF AUTISM SPECTRUM DISORDERS: INSIGHTS INTO SHANK3 HAPLOINSUFFICIENCY 3211
W. Lucchesi, A. Kathuria, L.J. McGuffin, G. Cocks, J. Price *(London, United Kingdom)*

C144 **TUE 8/7/2014, 14:30 - FENS-1875**
CC2D1A REGULATES SIGNALING HOMEOSTASIS IN THE DEVELOPMENT OF COGNITIVE AND SOCIAL FUNCTIONS 3212
M. Manzini, L. Xiong, S. DiCostanzo, R. Shaheen, D. Tambunan, M. Ghaziuddin, M. Salih, F. Alkuraya, C. Walsh *(Washington, USA)*

C145 **TUE 8/7/2014, 13:30 - FENS-2277**
BEHAVIOURAL CHARACTERIZATION OF SOCIAL REPERTOIRE IN SYNAPSIN I, II AND III MICE 3213
C. Michetti, M. Morini, A. Caruso, P. Catelluccio, M. Sabbioni, F. Benfenati, M.L. Scattoni *(Rome, Italy)*

C146 **TUE 8/7/2014, 14:30 - FENS-2741**
IN VITRO CHARACTERIZATION OF THE SMALL GTPASE RAB39B, AN INTELLECTUAL DISABILITY -AUTISM SPECTRUM DISORDER PROTEIN CONTROLLING THE GLUA2-CONTAINING AMPAR MATURATION 3214
M. Mignogna, M. Giannandrea, F. Fanelli, L. Mapelli, S. Bassani, M. Passafaro, S. Gatti, J.A. Esteban, R. Huganir, P. D'adamo *(Milano, Italy)*

C147 **TUE 8/7/2014, 13:30 - FENS-1934**
SCRIBBLE1 CONTROLS SOCIAL INTEREST AND PREFERENCE FOR SOCIAL NOVELTY THROUGH ERK SIGNALING 3215
M. Moreau, S. Pietropaolo, J. Ezan, B. Robert, M. Maître, C. Medina, W.E. Crusio, M. Montcouquiol, N. Sans *(Bordeaux, France)*

C148 **TUE 8/7/2014, 14:30 - FENS-2879**
DELETION OF MECP2 IN GABAERGIC NEURONS IS SUFFICIENT TO COMPROMISE THE DEVELOPMENT OF INHIBITORY CIRCUITS 3216
N. Morello, E. Calcagno, F. Poli, G.R. Merlo, M. Giustetto *(Torino, Italy)*

C149 **TUE 8/7/2014, 13:30 - FENS-1814**
ANALYSIS OF SYNAPTIC ALTERATIONS IN BRAIN SPECIFIC AREAS CAUSING BEHAVIORAL DEFECTS IN SHANK1 KO MICE 3217
A. Mossa, L. Culotta, C. Sala, C. Verpelli *(Milano, Italy)*

C150 **TUE 8/7/2014, 14:30 - FENS-2270**
IN VITRO MODEL TO INVESTIGATE THE SYNAPTIC PROBLEMS IN PATIENTS AFFECTED BY THE PHELAN-MCDERMID SYNDROME (PMS) 3218
D. Orellana Riquelme, C. Vicidomini, G. Bechi, M. Mantegazza, C. Sala, C. Verpelli *(Milan, Italy)*

C151 **TUE 8/7/2014, 13:30 - FENS-1738**
MGLUR5 ALTERATIONS ARE ASSOCIATED WITH SYNAPTIC DEFICITS IN SHANK3 KNOCK OUT NEURONS 3219
C. Vicidomini, D. Lim, E. Dvoretskova, A. Genazzani, T. Böckers, A. Dityatev, C. Sala, C. Verpelli *(Milan, Italy)*

C152 **TUE 8/7/2014, 14:30 - FENS-1855**
ANALYSIS OF NEURONAL ALTERATIONS ASSOCIATED TO TM4SF2 MUTATIONS IN HIPPOCAMPUS OF ANIMAL MODEL 3220
L. Murru, A. Folci, E. Vezzoli, F. Longo, M. Francolini, M. Passafaro *(Milan, Italy)*

C153 **TUE 8/7/2014, 13:30 - FENS-3656**
MAGEL2 DEFICIENCY INDUCED LEARNING AND SOCIAL ALTERATIONS IN ADULT MALE MICE ARE RESTORED BY AN OXYTOCIN TREATMENT JUST AFTER BIRTH 3221
F. Muscatelli, H. Meziane, F. Schaller, S. Bauer, M. Désarmenien, C. Villard, F. Riet, V. Matarazzo, D. Lafitte, M. Tauber *(Mraseille, France)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C154 **TUE 8/7/2014, 14:30 - FENS-0481**

DECREASED MTOR SIGNALING VIA P70S6K/EIF4B IS ASSOCIATED WITH LOSS OF THE EXCITATORY POSTSYNAPTIC MARKER PSD-95 IN AUTISM 3222

C. Nicolini, M. Fahnestock *(Hamilton, Canada)*

C155 **TUE 8/7/2014, 13:30 - FENS-0165**

THE AUTISM AND SCHIZOPHRENIA-ASSOCIATED GENE CYFIP1 IS CRITICAL FOR THE MAINTENANCE OF DENDRITIC COMPLEXITY AND THE STABILISATION OF MATURE SPINES 3223

M. Pathania, E.C. Davenport, J. Muir, D.F. Sheehan, G. López-Doménech, J.T. Kittler *(London, United Kingdom)*

C156 **TUE 8/7/2014, 14:30 - FENS-3129**

LOSS OF CDKL5 LEADS TO ABNORMALITIES OF THE CORTICAL GABAERGIC SYSTEM 3224

R. Pizzo, N. Morello, E. Amendola, C. Gross, M. Sassoè-Pognetto, M. Giustetto *(Torino, Italy)*

C157 **TUE 8/7/2014, 13:30 - FENS-1080**

BEHAVIORAL AND IMMUNOLOGICAL CHANGES AFTER BASOLATERAL AMYGDALA LESION IN THE ANIMAL MODEL OF AUTISM 3225

K. Ptaszek, K. Plucinska, B. Grembecka, M. Listowska, W. Glac, D. Myslinska *(Gdansk, Poland)*

C158 **TUE 8/7/2014, 14:30 - FENS-0683**

INTERGENOTYPE DIFFERENTIATION OF COGNITIVE AND SOCIAL FUNCTIONING IN MOUSE MODEL OF FRAGILE X SYNDROME 3226

A. Puscian, K. Meyza, S. Leski, E. Knapska *(Warsaw, Poland)*

C159 **TUE 8/7/2014, 13:30 - FENS-2111**

FUNCTIONAL CHARACTERIZATION OF TWO NOVEL IL1RAPL1 MUTATIONS ASSOCIATED WITH INTELLECTUAL DISABILITY 3227

M. Ramos-Brossier, C. Montani, N. Lebrun, L. Gritti, C. Martin, K. Poirier, J. Chelly, A. Hackett, J. Gecz, E. Bieth, D. Heron, O. Dorseuil, Y. Humeau, C. Sala, P. Billuart *(Paris, France)*

C160 **TUE 8/7/2014, 14:30 - FENS-1285**

REDUCED SEROTONIN TRANSPORTER FUNCTION AND MATERNAL INFECTION AS AN ANIMAL MODEL FOR AUTISM 3228

P. Ranger *(Wellington, New Zealand)*

C161 **TUE 8/7/2014, 13:30 - FENS-1683**

ANALYSIS OF NEUROTROPHIC FACTOR SIGNALLING IN SHANK MUTANT MICE 3229

D. Reim, B.B. Baumann, T.W. Wirth, T.M.B. Boeckers, M.J.S. Schmeisser *(Ulm, Germany)*

C162 **TUE 8/7/2014, 14:30 - FENS-1680**

PRENATAL EXPOSURE TO MATERNAL INFECTION: MOLECULAR AND BEHAVIORAL CONSEQUENCES AND THEIR RELEVANCE TO AUTISTIC SPECTRUM DISORDERS 3230

J. Richetto, U. Meyer, M.A. Riva *(Milan, Italy)*

C163 **TUE 8/7/2014, 13:30 - FENS-3245**

REVERSIBLE AUTISTIC-LIKE BEHAVIOR IN MICE DEFICIENT IN BETA-NEUREXIN-1 FUNCTION 3231

E. Robles-Lanuza, L.G. Rabaneda, A.I. Rodríguez, F.G. Scholl *(Sevilla, Spain)*

C164 **TUE 8/7/2014, 14:30 - FENS-0207**

TRANSLATIONAL NEUROSCIENCE ASPECTS IN SHANK MUTANTS - MOUSE MODELS OF AUTISM SPECTRUM DISORDERS 3232

M. Schmeisser, S. Grabrucker, S. Halbedl, D. Reim, C. Mett, M. Schaaff, T. Bourgeron, C. Verpelli, C. Sala, A. Grabrucker, T. Boeckers *(Ulm, Germany)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C165 **TUE 8/7/2014, 13:30 - FENS-2155**
LONG-RANGE NEURONAL COMMUNICATION DEFECTS IN CASPR2 (CNTNAP2) MUTANT MICE 3233
R. Scott, G. Bartolini, J. Brotons, K. Van Elst, C. Serra, N. Goriounova, E. Peles, K. Linkenkaer-Hansen, M.J.H. Kas, H. Bruining, O. Marin *(Alicante, Spain)*

C166 **TUE 8/7/2014, 14:30 - FENS-1100**
REDUCED NUMBER ADAPTATION IN AUTISM 3234
M. Turi, D. Murph- Aagten, D. Burr, L. Pellicano *(Florence, Italy)*

C167 **TUE 8/7/2014, 13:30 - FENS-2970**
THE COFFIN-LOWRY SYNDROME-ASSOCIATED PROTEIN RSK2 REGULATES NEURITE OUTGROWTH THROUGH PHOSPHORYLATION OF PLD1 AND SYNTHESIS OF PHOSPHATIDIC ACID 3235
N. Vitale *(Strasbourg, France)*

C168 **TUE 8/7/2014, 14:30 - FENS-0709**
MATRIX METALLOPROTEINASE-9 (MMP-9) ACTIVITY IN THE AMYGDALA OF THE BTBR MOUSE MODEL OF AUTISM 3236
K. Ziegart, T. Nikolajew, K. Kondrakiewicz, J. Sadowska, E. Knapska, K. Meyza *(Warsaw, Poland)*

D24: CHEMICAL SENSES - OLFACTION

D001 **TUE 8/7/2014, 13:30 - FENS-3771**
DISTINCT SPATIAL EXPRESSION PATTERNS OF OLFACTORY RECEPTORS RELATED TO CLASS A (ORA) GENES IN ZEBRAFISH 3237
S. Bozorg Nia *(Cologne, Germany)*

D002 **TUE 8/7/2014, 14:30 - FENS-2850**
ATYPICAL PLANT ODOR RESPONSES IN THE PHEROMONE SYSTEM IN A MOTH 3238
N. Deisig, A. Rouyar, F. Dupuy, S. Anton, M. Renou *(Versailles, France)*

D003 **TUE 8/7/2014, 13:30 - FENS-1725**
MECHANISM OF ACTIVATION AND FUNCTION OF THE ODORANT RECEPTOR EXPRESSED AT THE AXON TERMINUS-GROWTH CONE OF OLFACTORY SENSORY NEURONS 3239
S. Franchi, I. Zamparo, C. Lodovichi *(Padova, Italy)*

D004 **TUE 8/7/2014, 14:30 - FENS-3577**
ILLUMINATING THE ROLE OF INHIBITORY MICROCIRCUITS IN HIGHER-ORDER OLFACTORY PROCESSING IN ZEBRAFISH 3240
T. Frank, Y.P. Zhang Schaerer, R.W. Friedrich *(Basel, Switzerland)*

D005 **TUE 8/7/2014, 13:30 - FENS-3417**
PROCESSING AND MODULATION OF THE PRIMARY OLFACTORY SIGNAL 3241
F. Genovese, F. Neureither, W. Zhang, F. Möhrlen, S. Frings *(Heidelberg, Germany)*

D006 **TUE 8/7/2014, 14:30 - FENS-1785**
COGNITIVE FACTORS IN FLAVOR PERCEPTION 3242
L. Jacquot, G. Brand *(Besançon, France)*

D007 **TUE 8/7/2014, 13:30 - FENS-0659**
LATERAL AND FEEDBACK INHIBITION IN THE OLFACTORY BULB AND THEIR ROLE IN PROCESSING NATURAL ODORS 3243
M. Migliore, F. Cavarretta, M.L. Hines, G.M. Shepherd *(Palermo, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
D008	**TUE 8/7/2014, 14:30 - FENS-0087**	
	ACETYLCHOLINE MODULATES ODORANT SENSITIVITY BY LOWERING THE THRESHOLD OF SPIKE GENERATION IN OLFACTORY RECEPTOR CELLS	3244
	E. Miyachi, M. Ohkuma, F. Kawai *(Toyoake-shi, Japan)*	
D009	**TUE 8/7/2014, 13:30 - FENS-2028**	
	OLFACTORY SIGNALING ON THE DROSOPHILA ANTENNA - RESPONSE PROFILES, MIXTURES AND INDIVIDUAL RESPONSE DYNAMICS	3245
	D. Muench, J.S. Ignatious Raja, T. Laudes, A. Nissler, C.G. Galizia *(Konstanz, Germany)*	
D010	**TUE 8/7/2014, 14:30 - FENS-0138**	
	PERCEPTIVE SENSORIAL BIASES IN DEPRESSION	3246
	M. Naudin, T. Carl, S. Surguladze, C. Guillen, P. Gaillard, C. Belzung, W. El-Hage, B. Atanasova *(Tours, France)*	
D011	**TUE 8/7/2014, 13:30 - FENS-3027**	
	IMAGING MOLECULAR VIBRATION-SENSING IN HONEYBEE OLFACTORY CIRCUIT	3247
	M. Paoli, E. Rigosi, M. Andrione, R. Antolini, G. Vallortigara, A. Haase *(Trento, Italy)*	
D012	**TUE 8/7/2014, 14:30 - FENS-1946**	
	COMPARISON OF ARTIFICIAL AND NATURAL ODOR EXPOSURE IN ANXIETY-RELATED BEHAVIORS IN RATS	3248
	E. Racekova, K. Fabianova, J. Blasko, M. Martoncikova *(Kosice, Slovakia)*	
D013	**TUE 8/7/2014, 13:30 - FENS-1727**	
	ROLE OF OLIGOPHRENIN 1 IN CIRCUIT FORMATION IN THE OLFACTORY BULB OF A MOUSE MODEL OF X-LINKED INTELLECTUAL DISABILITY	3249
	N. Redolfi, E. Savoia, I. Zamparo, C. Lodovichi *(Padova, Italy)*	
D014	**TUE 8/7/2014, 14:30 - FENS-0923**	
	NEGATIVE IMPACT OF HIGH FRUCTOSE DIET ON OLFACTORY PERFORMANCES: BEHAVIORAL AND FUNCTIONAL ANALYSIS	3250
	S. Riviere, D. Jarriault, V. Soubeyre, N. Meunier, X. Grosmaitre *(Dijon, France)*	
D015	**TUE 8/7/2014, 13:30 - FENS-2498**	
	ALTERED AOB NEUROGENESIS AND PHEROMONAL INDUCED RESPONSE IN SEMAPHORIN7A KNOCKOUT MALE MICE	3251
	R. Schellino, B. Jongbloets, E. Boda, I. Cimino, A. Buffo, A. Fasolo, P. Giacobini, R.J. Pasterkamp, P. Peretto, S. De Marchis *(Torino, Italy)*	
D016	**TUE 8/7/2014, 14:30 - FENS-1931**	
	NITRIC OXIDE SIGNALING IN THE CENTRAL OLFACTORY PROCESSING OF THE SNAIL, HELIX POMATIA	3252
	Z. Serfözö, K. Nacsa, Z. Veréb, K. Elekes *(Tihany, Hungary)*	
D017	**TUE 8/7/2014, 13:30 - FENS-2232**	
	THE EFFECT EMOTIONAL VALENCE OF OLFACTORY STIMULI ON THE PSYCHOLOGICAL STATE OF HUMAN	3253
	I. Sosiedka, S. Tukaiev *(Kyiv, Ukraine)*	
D018	**TUE 8/7/2014, 14:30 - FENS-1229**	
	RECONSTRUCTION OF NEURONAL ACTIVITY AND CONNECTIVITY PATTERNS IN THE ZEBRAFISH OLFACTORY BULB	3254
	A. Wanner, C. Genoud, R.W. Friedrich *(Basel, Switzerland)*	
D019	**TUE 8/7/2014, 13:30 - FENS-2407**	
	FUNCTIONAL DEVELOPMENT OF NEURAL CIRCUITS IN THE ZEBRAFISH OLFACTORY BULB	3255
	C. Wyatt, S. Foré, N. Vendrell-Llopis, E. Yaksi *(Leuven, Belgium)*	

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D25: VISION - VISUAL COGNITION

D020 **TUE 8/7/2014, 14:30 - FENS-0210**
VISUAL RESPONSES IN THE FINE PROCESSES OF AN ASTROCYTE 3256
A. Asada, Y. Ikegaya *(Tokyo, Japan)*

D021 **TUE 8/7/2014, 13:30 - FENS-3313**
ON THE CONSISTENCY OF THE CRITERIA TO CATEGORIZE AMBIGUOUS FIGURES 3257
J. Aznar-Casanova, M. Moreno-Sanchez, J.A. Amador-Campos *(Barcelona, Spain)*

D022 **TUE 8/7/2014, 14:30 - FENS-1234**
RESTING-STATE FMRI AND ELECTROPHYSIOLOGICAL CHARACTERIZATION OF CONNECTIVITY BETWEEN ANTERIOR CINGULATE CORTEX AND FRONTAL EYE FIELDS 3258
S. Babapoor-Farrokhran, K. Johnston, S. Everling *(London, Canada)*

D023 **TUE 8/7/2014, 13:30 - FENS-1230**
THE SEQUENCE MATTERS. AN EXPERIMENTAL STUDY OF THE FUNCTIONAL ROLE OF EYE MOVEMENTS IN THE LONG-TERM VISUOSPATIAL MEMORY 3259
A. Bochynska, B. Laeng *(Skien, Norway)*

D024 **TUE 8/7/2014, 14:30 - FENS-1723**
EFFECTS OF ADAPTATION ON NUMEROSITY DECODING IN THE HUMAN BRAIN 3260
E. Castaldi, D. Aagten-Murphy, M. Tosetti, D. Burr, M.C. Morrone *(Firenze, Italy)*

D025 **TUE 8/7/2014, 13:30 - FENS-1974**
PRONOUNCED VISUAL-MOTION DEFICITS IN DEVELOPMENTAL DYSLEXIA ASSOCIATED WITH ALTERATION TO GENE DCDC2 3261
G. Cicchini, P. Scifo, S. Mascheretti, P.A. Della Rosa, C. Marino, D. Perani, M.C. Morrone *(Pisa, Italy)*

D026 **TUE 8/7/2014, 14:30 - FENS-3460**
THE EFFECT OF DIRECTION ON BIOLOGICAL MOTION PERCEPTION: AN ERP STUDY 3262
E. Gehring, M. Del Zotto, A.J. Pegna *(Commugny, Switzerland)*

D027 **TUE 8/7/2014, 13:30 - FENS-3016**
CYCLOPEAN REACTION TIME DEPENDS ON DISPARITY 3263
G. Horváth, V. Nemes, E. Mikó-Baráth, B. Török, G. Jandó *(Pecs, Hungary)*

D028 **TUE 8/7/2014, 14:30 - FENS-0573**
EFFECT OF STATIC MAGNETIC FIELDS UPON VISUAL CORTEX ACTIVITY OF AWAKE AND ANESTHETIZED MAMMALS 3264
A. Jordi, C. Rivadulla, K.L. Grieve, J. Cudeiro *(Coruña, Spain)*

D029 **TUE 8/7/2014, 13:30 - FENS-3210**
TRANSFERABILITY OF MOTION PERCEPTION LEARNING IN HEALTHY SUBJECTS 3265
S. Larcombe, H. Bridge, C. Kennard *(Oxford, United Kingdom)*

D030 **TUE 8/7/2014, 14:30 - FENS-3227**
RESPONSE MODULATIONS IN MOUSE PRIMARY VISUAL CORTEX DURING SPATIAL NAVIGATION 3266
D. Mao, S. Kandler, B. McNaughton, V. Bonin *(Lethbridge, Canada)*

D031 **TUE 8/7/2014, 13:30 - FENS-3429**
CALLOSAL TRANSMISSION MIGHT BE IMPORTANT FOR VISUAL RECOVERY IN HEMIANOPIC PATIENTS: ERP EVIDENCE 3267
C. Marzi, S. Savazzi, M. Bendini, T. Poscoliero, A. Celeghin *(Verona, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D032 **TUE 8/7/2014, 14:30 - FENS-2109**
VISUAL SUPPRESSION BY TRANSCRANIAL MAGNETIC STIMULATION: PERCEPTUAL MASKING OR INCREASED NEURAL NOISE? 3268
C. Mazzi, E. Tapia, D.M. Beck, S. Savazzi *(Verona, Italy)*

D033 **TUE 8/7/2014, 13:30 - FENS-3569**
OFF-PATHWAY ELEMENTS IN FLY MOTION VISION 3269
M. Meier, E. Serbe, A. Borst *(Martinsried, Germany)*

D034 **TUE 8/7/2014, 14:30 - FENS-0504**
PROCESSING OF EMOTICON FACE AND HUMAN FACE: AN ERP STUDY 3270
T. Park, S. Bae *(Gwangju, Korea)*

D035 **TUE 8/7/2014, 13:30 - FENS-3247**
BOOSTING VISUAL CAPACITIES BY VISUAL TRAINING AND CHOLINERGIC STIMULATION 3271
E. Vaucher, J.I. Kang, M. Chamoun *(Montréal, Canada)*

D036 **TUE 8/7/2014, 14:30 - FENS-2762**
SPEEDED PERFORMANCE WITH ACTIVE-SENSING BASED VISION-TO-TOUCH SUBSTITUTION 3272
Y. Zilbershtain- kra, E. Ahissar, A. Arieli *(Rehovot, Israel)*

D26: PAIN - SPINAL CORD PROCESSING

D037 **TUE 8/7/2014, 13:30 - FENS-2280**
EFFECT OF GHRELIN SIGNALLING ON MECHANICAL AND THERMAL SENSITIVITY IN HEALTHY AND DIABETIC MICE 3273
M. Bradman, F. Ferrini, C. Salio, A. Merighi *(Grugliasco, Italy)*

D038 **TUE 8/7/2014, 14:30 - FENS-3731**
SPINAL ENDOGENOUS CHOLINERGIC MODULATION OF NOCICEPTION: CONDITIONS FOR RECRUITMENT 3274
D. Dhanasobhon, R. Schlichter, M. Cordero-Erausquin *(Strasbourg, France)*

D039 **TUE 8/7/2014, 13:30 - FENS-3385**
A FLUORESCENCE-IMMUNOHISTOCHEMICAL STUDY ON PERK1/2 IN THE PAIN PATHWAY OF THE RAT FOLLOWING NOXIOUS THERMAL STIMULATION: EFFECT OF MORPHINE 3275
J. Donnerer, I. Liebmann *(Graz, Austria)*

D040 **TUE 8/7/2014, 14:30 - FENS-2089**
SPINAL EXPRESSION OF INTERLEUKIN-1BETA (IL-1B) IN FREUND ADJUVANT INDUCED CHRONIC INFLAMMATORY PAIN MODEL 3276
L. Ducza, K. Hollo, E. Bakk, K. Hegedus, Z. Hegyi, M. Antal *(Debrecen, Hungary)*

D041 **TUE 8/7/2014, 13:30 - FENS-1183**
LENTIVIRAL INACTIVATION OF BULBO-SPINAL SEROTONERGIC NEURONS: EFFECTS ON NOCICEPTIVE CONTROLS 3277
A. Gautier, S. Salam, V. Kayser, M. Hamon, G. Vodjdani, J.F. Bernard *(Paris, France)*

D042 **TUE 8/7/2014, 14:30 - FENS-0351**
CULTURED EMBRYONIC RAT SPINAL DORSAL HORN CELLS AS A PLATFORM FOR SCREENING NOVEL ANALGESICS 3278
N. Griffiths, S. Prime, A.E. King, S.A. Nickolls *(Leeds, United Kingdom)*

D043 **TUE 8/7/2014, 13:30 - FENS-1114**
ATP AND GLUTAMATE TREATMENT INDUCES CELL ACTIVATION, INTERLEUKIN-1 BETA PRODUCTION AND INTERLEUKIN 1 RECEPTOR TYPE 1 EXPRESSION IN SPINAL ASTROCYTE CULTURES 3279
K. Holló, A. Gajtkó, E. Bakk, K. Hegedus, Z. Hegyi, M. Antal *(Debrecen, Hungary)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D044 **TUE 8/7/2014, 14:30 - FENS-1507**
LOCALIZATION OF CD26/DPP4 ENZYME AND EFFECTS OF ITS INHIBORS IN THE RAT SPINAL CORD 3280
M. Kozsurek, G. Gerber, E. Lukácsi, B. Barta, S. Kouhnavardi, K. Király, C. Fekete, Z. Puskár *(Budapest, Hungary)*

D045 **TUE 8/7/2014, 13:30 - FENS-0554**
THE ROLE OF PAR2 RECEPTORS IN MODULATION OF NOCICEPTIVE SIGNALLING AT THE SPINAL CORD LEVEL 3281
P. Mrozkova, J. Palecek *(Prague, Czech Republic)*

D046 **TUE 8/7/2014, 14:30 - FENS-1455**
LOW-THRESHOLD AFFERENT-DRIVEN INHIBITION OF SPINAL LAMINA I NEURONS: A POSTSYNAPTIC GATE CONTROLLING PAIN 3282
B. Safronov, L.L. Luz, P. Szucs *(Porto, Portugal)*

D047 **TUE 8/7/2014, 13:30 - FENS-0977**
TRPV1 RECEPTOR INHIBITION DECREASES CCL2-INDUCED THERMAL HYPERALGESIA 3283
D. Spicarova, P. Adamek, N. Kalynovska, P. Mrozkova, J. Palecek *(Prague, Czech Republic)*

D048 **TUE 8/7/2014, 14:30 - FENS-1364**
IDENTIFICATION OF LOW-THRESHOLD AFFERENT DRIVEN INHIBITORY NEURONS IN THE SPINAL DORSAL HORN 3284
P. Szücs, A. Palfi, O. Erdei, A. Koszeghy *(Debrecen, Hungary)*

D049 **TUE 8/7/2014, 13:30 - FENS-3648**
ANTIDEPRESSANTS DIFFERENTLY AFFECT BDNF EXPRESSION IN MALE AND FEMALE MOUSE SPINAL CORD: POSSIBLE CORRELATION FOR A GENDER SPECIFIC ANALGESIC EFFECT 3285
M. Zammataro, R. Calabrese, M.A. Sortino, S. Chiechio *(Catania, Italy)*

D27: CEREBELLUM

D050 **TUE 8/7/2014, 14:30 - FENS-2842**
LOCOMOUSE: A 3D MARKERLESS TRACKING AND ANALYSIS SYSTEM FOR FREELY WALKING MICE 3286
A. Machado, J. Fayad, D. Darmohray, M. Carey *(Lisboa, Portugal)*

D051 **TUE 8/7/2014, 13:30 - FENS-1155**
THE INTRINSIC AND SYNAPTIC RESPONSIVENESS OF A NEW REALISTIC PURKINJE CELL MODEL 3287
S. Masoli, S. Solinas, E. D'Angelo *(Pavia, Italy)*

D052 **TUE 8/7/2014, 14:30 - FENS-3179**
ABSOLUTE CELLULAR COMPOSITION IN HUMAN CEREBELLUM AND HIPPOCAMPAL FORMATION: EFFECTS OF SEX AND AGE 3288
A. Oliveira-Pinto, C.H. Andrade-Moraes, L.M. Oliveira, D.R. Parente-Bruno, R.M. Santos, R.A. Coutinho, A.T.L. Alho, R.E.P. Leite, C.K. Suemoto, L.T. Grinberg, C. Pasqualucci, W. Jacob-Filho, R. Lent *(Rio de Janeiro, Brazil)*

D053 **TUE 8/7/2014, 13:30 - FENS-2332**
CONTRALATERAL CEREBELLO-THALAMO-CORTICAL PATHWAYS WITH PROMINENT INVOLVEMENT OF ASSOCIATIVE AREAS IN HUMANS IN VIVO 3289
F. Palesi, D.J. Tournier, F. Calamante, N. Muhlert, G. Castellazzi, D. Chard, E. D'Angelo, C.A.M. Wheeler-Kingshott *(Pavia, Italy)*

D054 **TUE 8/7/2014, 14:30 - FENS-1800**
AT THE EDGE OF CHAOS: GRANULAR LAYER DYNAMICS FOR ADAPTIVE-FILTER COMPUTATIONS 3290
C. Roessert, P. Dean, J. Porrill *(Sheffield, United Kingdom)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D055 **TUE 8/7/2014, 13:30 - FENS-3111**
ELUCIDATING SUM-OF-SINE EFFECTS ON THE LINEARITY OF THE COMPENSATORY EYE MOVEMENT SYSTEM 3291
T. Sibindi, P. Holland, M. Ginzburg, O. Donchin, M. Frens *(Rotterdam, The Netherlands)*

D056 **TUE 8/7/2014, 14:30 - FENS-1231**
EXPLORATORY ACTIVITY IN MICE WITH TSC1-, TSC2- AND TSC1/TSC2 NULL-MUTATION IN PURKINJE CELLS 3292
A. Slugocka, J.J. Barski *(Katowice, Poland)*

D057 **TUE 8/7/2014, 13:30 - FENS-2863**
INFERIOR OLIVE GLOMERULI SHAPE CELLULAR ENSEMBLES AT MULTIPLE TIMESCALES 3293
P. Sokol, J.R. De Gruijl, M. Negrello, C.I. De Zeeuw *(Rotterdam, The Netherlands)*

D058 **TUE 8/7/2014, 14:30 - FENS-0327**
MICROZONAL ORGANIZATION DURING SENSORIMOTOR ACTIVITIES IN RELATION TO ALDOLASE C/ZEBRIN II COMPARTMENT IN THE CEREBELLUM 3294
S. Tsutsumi, M. Yamazaki, T. Miyazaki, M. Watanabe, K. Sakimura, Y. Isomura, M. Matsuzaki, M. Kano, K. Kitamura *(Tokyo, Japan)*

D059 **TUE 8/7/2014, 13:30 - FENS-3738**
CEREBELLAR EYE MOVEMENTS CONTROL 'OUTPUT CHANNELS': PATHWAYS FROM FASTIGIAL, INTERPOSITUS POSTERIOR AND DENTATE NUCLEI TO LATERAL RECTUS MOTONEURONS IN PRIMATES 3295
G. Ugolini, V. Prevosto, W. Graf *(Gif Sur Yvette, France)*

D060 **TUE 8/7/2014, 14:30 - FENS-1390**
SPATIAL ORGANISATION OF CEREBELLAR GRANULE CELL INPUTS ON PURKINJE CELLS, GOLGI CELLS AND MOLECULAR LAYER INTERNEURONS, RELATED TO ZEBRIN PATTERN 3296
A. Valera, F. Binda, S.A. Pawlowski, J.F. Casella, B. Poulain, P. Isope *(Strasbourg, France)*

D061 **TUE 8/7/2014, 13:30 - FENS-3118**
CEREBELLAR SYNAPTOGENESIS IS COMPROMISED IN MOUSE MODELS OF DYT1 DYSTONIA 3297
V. Vanni, G. Ponterio, A. Tassone, G. Sciamanna, P. Bonsi, A. Pisani, G. Mandolesi *(Rome, Italy)*

D062 **TUE 8/7/2014, 14:30 - FENS-1160**
CEREBELLAR ZONAL PATTERNING RELIES ON PURKINJE CELL NEUROTRANSMISSION 3298
J. White, M.K.V. Arancillo, T. Stay, N.A. George-Jones, S.L. Levy, D.H. Heck, R.V. Sillitoe *(Houston, USA)*

D063 **TUE 8/7/2014, 13:30 - FENS-3573**
CEREBELLAR MODULES OPERATE AT DIFFERENT FREQUENCIES 3299
H. Zhou, Z. Lin, K. Voges, Z. Gao, C. Ju, L.W.J. Bosman, T.J. Ruigrok, F.E. Hoebeek, C.I. De Zeeuw, M. Schonewille *(Rotterdam, The Netherlands)*

D064 **TUE 8/7/2014, 14:30 - FENS-0796**
FUNCTION OF MDGA1 IN CEREBELLAR MOTOR CONTROL 3300
K. Zhou, M.F. Vinueza Veloz, C.I. De Zeeuw *(Rotterdam, The Netherlands)*

E14: NEUROENDOCRINE - CELLULAR SIGNALLING

E001 **TUE 8/7/2014, 13:30 - FENS-2576**
NEUROPEPTIDE Y STIMULATES AUTOPHAGY IN HYPOTHALAMIC NEURONS 3301
M. Botelho, C.A. Aveleira, J. Pascoal, S. Carmo-Silva, L. Cortes, J. Valero, L. Sousa-Ferreira, A.R. Álvaro, L. Pereira de Almeida, C. Cavadas *(Coimbra, Portugal)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E002 **TUE 8/7/2014, 14:30 - FENS-1922**

INHIBITORY ACTIONS OF SEROTONIN AND FLUOXETINE ON TUBEROINFUNDIBULAR DOPAMINE (TIDA) NEURONS: A MECHANISM FOR SEXUAL SIDE EFFECTS OF SSRIS? 3302

C. Broberger, D.J. Lyons *(Stockholm, Sweden)*

E003 **TUE 8/7/2014, 13:30 - FENS-0136**

PROLACTIN-MEDIATED SIGNALLING IN THE MOUSE MEDIAN EMINENCE 3303

S. Bunn, S. Kirk, D. Grattan *(Dunedin, New Zealand)*

E004 **TUE 8/7/2014, 14:30 - FENS-2820**

RECIPROCAL REGULATION OF VERY LOW DENSITY LIPOPROTEIN RECEPTORS IN NEURONS BY BRAIN-DERIVED NEUROTROPHIC FACTOR (BDNF) AND REELIN 3304

H. Do, C. Bruelle, T. Tselykh, L. Korhonen, D. Lindholm *(Helsinki, Finland)*

E005 **TUE 8/7/2014, 13:30 - FENS-0461**

EFFECTS OF BISPHENOL A ON THE EXPRESSION LEVEL OF ER AND TH RECEPTORS IN THE DEVELOPING CEREBELLUM 3305

G. Jocsak, I. Toth, V. Somogyi, T. Bartha, V.L. Frenyo, A. Zsarnovszky *(Budapest, Hungary)*

E006 **TUE 8/7/2014, 14:30 - FENS-3182**

THE EFFECT OF ENDURANCE TRAINING AND/OR TESTOSTERONE ON NO/SGC/CGMP PATHWAY, VEGF AND BDNF CONTENT IN THE RAT SPINAL CORD 3306

A. Malecki, K. Nierwinska, J. Bernacki, A. Pudelko, S. Jagsz, J. Langfort, M. Chalimoniuk *(Katowice, Poland)*

E007 **TUE 8/7/2014, 13:30 - FENS-0876**

EXPRESSION OF CD38 IN THE HYPOTHALAMUS AND PITUITARY AND UP-REGULATION OF CD38 IN ACTIVATED MICROGLIA 3307

M. Noda, Y. Kojima, N. Akimoto, S. Akther, S. Yokoyama, H. Higashida *(Fukuoka, Japan)*

E008 **TUE 8/7/2014, 14:30 - FENS-1085**

THE PLASMALEMMAL SODIUM-CALCIUM EXCHANGER SHAPES THE CALCIUM AND EXOCYTOTIC SIGNALS OF CHROMAFFIN CELLS AT PHYSIOLOGICAL TEMPERATURE 3308

J. Padín, J.C. Fernández-Morales, R. Olivares, S. Vestring, J.A. Arranz-Tagarro, E. Calvo-Gallardo, R. De Pascual, L. Gandía *(Madrid, Spain)*

E009 **TUE 8/7/2014, 13:30 - FENS-2509**

RISK FOR DEPRESSIVE-LIKE BEHAVIOR IS INCREASED FOLLOWING EXPOSURE TO PRE- AND POST-WEANING SATURATED FAT DIETS 3309

K. Page, E. Anday *(Lewisburg, USA)*

E010 **TUE 8/7/2014, 14:30 - FENS-3132**

ENDOCRINE DISRUPTORS AND NUCLEAR RECEPTORS IN THE CONTROL OF NEURAL PROGENITORS PROLIFERATION 3310

V. Pomatto, E. Cottone, F.A. Palermo, G. Mosconi, P. Bovolin *(Turin, Italy)*

E15: NEUROENDOCRINE - BEHAVIOURAL NEUROENDOCRINOLOGY

E011 **TUE 8/7/2014, 13:30 - FENS-3443**

SNAP-25B DEFICIENCY INCREASES THE VULNERABILITY TO DIET-INDUCED OBESITY AND MOOD DISORDERS 3311

I. Acebes, T. Daraio, K. Brismar, S. Ogren, T. Hökfelt, C. Bark *(Stockholm, Sweden)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E012 **TUE 8/7/2014, 14:30 - FENS-1673**

MCH-IMMUNOREACTIVE FIBERS IN THE INTERNAL LAYER OF THE MEDIAN EMINENCE AND PITUITARY DURING THE LACTATION PERIOD IN LONG-EVANS RATS 3312

J. Bittencourt, H.C. Costa, J. Martins-da-Silva, R. Da-Silva, G.B. Diniz, D.S. Batagello, M.M. França, L.V. Sita, C. De-Moraes Machado, J.A.C. Horta-Júnior *(São Paulo, Brazil)*

E013 **TUE 8/7/2014, 13:30 - FENS-3450**

OXYTOCIN AND MALE AGGRESSION: AN INTIMATE INVERSE RELATIONSHIP. 3313

F. Calcagnoli, S.F. De Boer, D.I. Beiderbeck, I.D. Neumann, J.M. Koolhass *(Groningen, The Netherlands)*

E014 **TUE 8/7/2014, 14:30 - FENS-1652**

PEPTIDERGIC NEURONAL CONNECTION BETWEEN THE POSTERIOR THALAMUS AND THE HYPOTHALAMUS IN LACTATING RATS 3314

M. Cservenak, E.R. Szabo, M. Palkovits, T.B. Usdin, A. Dobolyi *(Budapest, Hungary)*

E015 **TUE 8/7/2014, 13:30 - FENS-1828**

AMYLIN, INDUCED BY SUCKLING IN THE PREOPTIC AREA OF MOTHERS, MAY BE INVOLVED IN THE CONTROL OF MATERNAL MOTIVATION 3315

A. Dobolyi, M. Cservenak, T. Lutz, T.B. Usdin, E.R. Szabo *(Budapest, Hungary)*

E016 **TUE 8/7/2014, 14:30 - FENS-3622**

IMPAIRED SPATIAL MEMORY AND RESPONSE TO NOVELTY IN A RAT MODEL OF METABOLIC SYNDROME 3316

D. Cunha-reis, N. Gonçalves-Rosa, A. Amaro-Leal, C. Nunes-da-Silva, I. Rocha *(Lisboa, Portugal)*

E017 **TUE 8/7/2014, 13:30 - FENS-3442**

INSULIN RESISTANCE AND IMPAIRED ROTAROD PERFORMANCE IN SNAP-25B DEFICIENT MICE 3317

T. Daraio, T. Daraio, I. Valladolid-Acebes, K. Brismar, S. Ogren, T. Hökfelt, C. Bark *(Stockholm, Sweden)*

E018 **TUE 8/7/2014, 14:30 - FENS-0635**

THE SEXUALLY DIMORPHIC OXYTOCIN SYSTEM IN THE RAT BRAIN: IMPLICATIONS FOR SEX-SPECIFIC REGULATION OF SOCIAL BEHAVIOR 3318

K. Dumais, A.G. Alonso, M.A. Immormino, R. Bredewold, A.H. Veenema *(Chestnut Hill, USA)*

E019 **TUE 8/7/2014, 13:30 - FENS-0596**

SOCIAL ISOLATION IMPAIRS WHILE OXYTOCIN FACILITATES SOCIAL NOVELTY-SEEKING BEHAVIOR IN THE JUVENILE RAT 3319

C. Smith, K.B. Wilkins, J.N. Mogavero, A.H. Veenema *(Chestnut Hill, USA)*

E020 **TUE 8/7/2014, 14:30 - FENS-2746**

BENEFITS OF ENVIRONMENTAL ENRICHMENT ON NEURODEVELOPMENT OF EARLY MALNOURISHED RATS ARE ASSOCIATED WITH CHANGES IN GR EXPRESSION IN THE HIPPOCAMPUS 3320

R. Soares, R.C. Rorato, D. Padovan, J. Antunes-Rodrigues, L.L.K. Elias, S.S. Almeida, J.J. Lachat *(Ribeirão Preto, Brazil)*

E16: STRESS AND THE BRAIN - STRESS AND NEUROIMMUNOLOGY

E021 **TUE 8/7/2014, 13:30 - FENS-2598**

DIFFERENTIAL RESPONSE OF DORSAL AND VENTRAL RAT HIPPOCAMPUS TO RESTRAINT STRESS: EFFECT ON MRNA LEVELS OF PROTEINS RELATED TO NEUROPLASTICITY 3321

J. Fiedler, M. Muñoz, G. García, A. Pacheco, F. Aguayo, P. Rojas *(Santiago, Chile)*

E022 **TUE 8/7/2014, 14:30 - FENS-1167**

THE EFFECTS OF STRESS ON PHYSIOLOGY, ANXIETY AND SOCIAL HIERARCHY IN SOCIALLY-LIVING RATS 3322

D. Huzard, D.G. Mumby, G.L. Poirier, C. Sandi *(Lausanne, Switzerland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E023 **TUE 8/7/2014, 13:30 - FENS-1437**
EFFECT OF GLUCOCORTICOID RECEPTOR ABLATION IN ADRENERGIC CELLS ON INFLAMMATORY RESPONSE 3323
J. Kusmierczyk, A. Roman, E. Trojan, P. Chmielarz, G. Kreiner, I. Nalepa *(Krakow, Poland)*

E024 **TUE 8/7/2014, 14:30 - FENS-2825**
STIMULATION OF THE CENTRAL NUCLEUS OF THE AMYGDALA (CEA) INFLUENCES NATURAL KILLER CELL CYTOTOXICITY IN RATS 3324
D. Myslinska, Z. Ciepielewski, W. Glac, B. Grembecka, I. Majkutewicz, K. Plucinska, M. Podlacha, K. Ptaszek, A. Wadolowska *(Gdansk, Poland)*

E025 **TUE 8/7/2014, 13:30 - FENS-1018**
CHRONIC SOCIAL STRESS AND LPS-INDUCED INFLAMMATION HAVE A SYNERGISTIC INFLUENCE ON VEGF IN THE HYPOTHALAMUS AND PITUITARY OF FEMALE RATS 3325
M. Nowacka, M. Paul-Samojedny, A.M. Bielecka, E. Obuchowicz *(Katowice, Poland)*

E026 **TUE 8/7/2014, 14:30 - FENS-3409**
PROLONGED STRESS AND INFLAMMATION IN LUNG 3326
M. Pannacci, V. Lucini, R. Ciraci', S. Dugnani, A. Ballerini, F. Scaglione *(Milan, Italy)*

E027 **TUE 8/7/2014, 13:30 - FENS-1532**
THE EFFECT OF LIPOPOLYSACCHARIDE ON SIGNALING PATHWAYS REGULATING MELATONIN SYNTHESIS IN THE PINEAL GLANDS 3327
I. Svobodova, P. Terbova, Z. Bendova *(Jesenice-Zdimerice, Czech Republic)*

E028 **TUE 8/7/2014, 14:30 - FENS-0205**
ACUTE PSYCHOLOGICAL STRESS-INDUCED CIRCULATING AND CENTRAL CYTOKINE PRODUCTION 3328
H. Vecchiarelli, J.M. Gray, K. Hassan, C. Ghandi, V. Hill, M.N. Hill *(Calgary, Canada)*

E029 **TUE 8/7/2014, 13:30 - FENS-2492**
OXIDATIVE AND INFLAMMATORY STRESS IN THE SPLEENS OF YOUNG FEMALE RATS TREATED WITH A LEPTIN ANTAGONIST DURING THE NEONATAL PERIOD 3329
M.P. Viveros, O. Hernandez, V. Mela, A.B. Lopez-Rodriguez, A. Gertler, M. De La Fuente *(Madrid, Spain)*

F23: HUMAN COGNITION AND BEHAVIOUR - LANGUAGE

F001 **TUE 8/7/2014, 13:30 - FENS-3178**
WORD AND NON-WORD READING PROCESSES IN CHILDREN WITH AND WITHOUT DEVELOPMENTAL DYSLEXIA: AN ERP STUDY 3330
S. Aykan, I.P. Bekar, M. Oguzhan, B. Alpas, S. Ay, C.K. Gurkan, K. Buyukturkoglu, I. Ergenc, C. Kalaycioglu *(Ankara, Turkey)*

F002 **TUE 8/7/2014, 14:30 - FENS-2892**
REGIONAL DIFFERENCES IN DENDRITIC MORPHOLOGY OF MEDIUM SPINY STRIATAL NEURONS IN FOXP2 MICE ARE INFLUENCED BY SUBSTITUTION AT POSITION T302N 3331
I. Bicanic, U. Bornschein, W. Enard, W. Hevers, S. Paabo, Z. Petanjek *(Zagreb, Croatia)*

F003 **TUE 8/7/2014, 13:30 - FENS-0195**
CENTRAL AUDITORY PROCESSING DISORDER - DICHOTIC LISTENING 3332
O. Dlouha *(Prague, Czech Republic)*

F004 **TUE 8/7/2014, 14:30 - FENS-3343**
WHEN A DUCK IS NOT A DUCK: CONVERSION DISORDER MASQUERADING AS LANGUAGE IMPAIRMENT 3333
R. Jokel, U. Wolf *(Toronto, Canada)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F005 **TUE 8/7/2014, 13:30 - FENS-3198**

INSIGHTS INTO THE NEURAL BASIS OF DIGLOSSIA IN ARABIC: AN FMRI STUDY 3334

A. Khateb, M. Nevat, A. Prior *(Haifa, Israel)*

F006 **TUE 8/7/2014, 14:30 - FENS-2293**

THE PECULIARITIES OF ESTABLISHMENT OF SOME COLOR CATEGORICAL BOUNDARIES AMONG THE GEORGIAN SPEAKERS 3335

M. Khomeriki *(Tbilisi, Georgia)*

F007 **TUE 8/7/2014, 13:30 - FENS-0932**

NEURONAL DYNAMICS & LANGUAGE ATTRITION: OUTLINING A SYSTEMS-THEORETICAL APPROACH 3336

P. Trettenbrein, A. Peltzer-Karpf *(Graz, Austria)*

F24: ANIMAL COGNITION AND BEHAVIOUR - COGNITIVE LEARNING AND MEMORY SYSTEMS

F008 **TUE 8/7/2014, 14:30 - FENS-2421**

MOLECULAR TOPOGRAPHY OF THE MOUSE MEDIAL ENTORHINAL CORTEX REVEALED BY ISH AND RNA-SEQ ANALYSIS 3337

H. Ramsden, G. Sürmeli, S.G. McDonagh, M.F. Nolan *(Edinburgh, United Kingdom)*

F009 **TUE 8/7/2014, 13:30 - FENS-1799**

OLFACTORY-DRIVEN BEHAVIOUR AND OLFACTORY BULB VARIATIONS DURING MOUSE AGING 3338

M. Redaelli, E. Nicolato, M.J. Ricatti, C. Zancanaro, C. Mucignat *(Padova, Italy)*

F010 **TUE 8/7/2014, 14:30 - FENS-2727**

COGNITIVE AND CELLULAR DEFICITS PRODUCED BY VANDETANIB (KINASE INHIBITOR OF VEGFR-2) ARE REVERSED BY ENRICHED ENVIRONMENT 3339

I. Rico Barrio, N.O.M. Naiara Ortuzar Markes, H.C.B. Hodei Cepeda Berenguer, H.B.O. Harkaitz Bengoetxea Odriozola, E.G.A. Enrike G.-Argandoña, J.V.L.S. Jose Vicente Lafuente Sánchez *(Bilbao, Spain)*

F011 **TUE 8/7/2014, 13:30 - FENS-3249**

CORTICOSTERONE IMPAIRS COGNITIVE FLEXIBILITY IN A SPATIAL DECISION MAKING TASK IN RATS 3340

S. Rusu, M. Joëls, C.M. Pennartz *(Amsterdam, The Netherlands)*

F012 **TUE 8/7/2014, 14:30 - FENS-1389**

COGNITIVE IMPAIRMENT IN A YOUNG MARMOSET REVEALS HIPPOCAMPAL ATROPHY 3341

A. Sadoun, C. Fonta, K. Strelnikov, N. Vayssiere, J.M. Kamsu, M.G.P. Rosa, P. Girard *(Toulouse, France)*

F013 **TUE 8/7/2014, 13:30 - FENS-2049**

AGE-DEPENDENT EFFECTS OF ENVIRONMENTAL ENRICHMENT ON BRAIN NETWORKS AND SPATIAL MEMORY IN WISTAR RATS. 3342

P. Sampedro-Piquero, A. Begega, C. Zancada-Menendez, M. Cuesta, J.L. Arias *(Oviedo, Spain)*

F014 **TUE 8/7/2014, 14:30 - FENS-1098**

TOUCHSCREEN-BASED COGNITIVE TASKS REVEAL AGE-RELATED IMPAIRMENTS IN A PRIMATE AGING MODEL, THE GREY MOUSE LEMUR (MICROCEBUS MURINUS) 3343

D. Schmidtke, S. Ammersdörfer, M. Joly, E. Zimmermann *(Hannover, Germany)*

F015 **TUE 8/7/2014, 13:30 - FENS-0335**

BRAIN STRUCTURE AND BEHAVIOR IN OLD MONGOLIAN GERBILS UNDER INFLUENCE OF LONG-TERM 2-OXOGLUTARATE AND PANCREATIC-LIKE ENZYME SUPPLEMENTED DIET 3344

G. Skibo, T. Kovalenko, I. Osadchenko, K. Goncharova, S.G. Pierzynowski *(Kyiv, Ukraine)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F016 **TUE 8/7/2014, 14:30 - FENS-2433**
SEX DIFFERENCES IN BRAIN PLASTICITY: LESSONS FROM ENRICHED ENVIRONMENT 3345
I. Sotiropoulos, E. Tzouveka, N. Kokras, D. Bessinis, O.F.X. Almeida, N. Sousa, Z. Papadopoulou-Daifoti, C. Dalla *(Braga, Portugal)*

F017 **TUE 8/7/2014, 13:30 - FENS-3007**
A DEVELOPMENTAL TRAJECTORY OF IMPULSIVE CHOICE: KEY ROLES FOR D1 DOPAMINE AND ALPHA-2A ADRENERGIC RECEPTORS IN THE PREFRONTAL CORTEX 3346
J. Stanis, J. Lukkes, N. Freund, B. Thompson, N. Dhruv, K. Sonntag, S. Andersen *(Belmont, USA)*

F018 **TUE 8/7/2014, 14:30 - FENS-3001**
A MODEL FOR GRID CELLS IN THREE-DIMENSIONAL ENVIRONMENTS 3347
F. Stella, A. Treves *(Trieste, Italy)*

F019 **TUE 8/7/2014, 13:30 - FENS-3032**
ADDING NEW NEURONS ON THE TAIL OF A BINOMIAL 3348
A. Treves, Z. Kaya, C.B. Alme, K. Jezek, E. Cerasti *(Trieste, Italy)*

F020 **TUE 8/7/2014, 14:30 - FENS-2567**
SELF-ORGANIZED SPACE REPRESENTATION OF HYPERBOLIC GEOMETRY IN A GENERATIVE MODEL OF GRID CELLS 3349
E. Urdapilleta, F. Troiani, F. Stella, A. Treves *(Trieste, Italy)*

F021 **TUE 8/7/2014, 13:30 - FENS-0389**
EFFECTS OF BRAIN LESIONS, MUSCARINIC BLOCKADE AND NMDA ANTAGONISM ON VARIOUS TYPES OF SPATIAL MEMORY IN MOVING ENVIRONMENTS 3350
A. Stuchlik *(Prague, Czech Republic)*

F022 **TUE 8/7/2014, 14:30 - FENS-2568**
EXPLORING CORTICAL SUBSTRATE OF COGNITIVE COORDINATION AND FLEXIBILITY USING CAROUSEL MAZE TASK IN RATS 3351
J. Svoboda, A. Stankova, T. Petrasek, I. Vojtechova, A. Stuchlik *(Prague, Czech Republic)*

F023 **TUE 8/7/2014, 13:30 - FENS-1311**
THE PERFORMANCE OF NOVEL LOCATION RECOGNITION TASK IN RATS IS HIGHER DURING NIGHTTIME THAN DAYTIME 3352
Y. Takahashi, K. Sawa, T. Okada *(Sagamihara, Japan)*

F024 **TUE 8/7/2014, 14:30 - FENS-3514**
SOCIAL LEARNING AND THE CINGULATED CORTEX IN RATS 3353
Y. Takano, S. Nakashima, M. Ukezono *(Atsugi-shi Kanagawa, Japan)*

F025 **TUE 8/7/2014, 13:30 - FENS-2258**
FUNCTIONAL DISCONNECTION BETWEEN THE VENTRAL SUBICULUM AND THE VENTRAL STRIATUM IMPAIRS SPATIAL LEARNING AND MEMORY IN MICE 3354
G. Torromino, V. Perri, A. Cristofoli, A. Oliverio, A. Mele *(Rome, Italy)*

F026 **TUE 8/7/2014, 14:30 - FENS-2670**
DOES HPA AXIS REACTIVITY AFFECT SPATIAL PERFORMANCE IN MORRIS WATER MAZE IN LURCHER MICE? 3355
J. Tuma, D. Jelinkova, F. Vozeh, J. Cendelin *(Pilsen, Czech Republic)*

F027 **TUE 8/7/2014, 13:30 - FENS-3522**
DEVELOPMENT OF AN EXPERIMENTAL TASK FOR RAT'S MIRROR SYSTEM 3356
M. Ukezono, Y. Takano *(Tokyo, Japan)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F028 **TUE 8/7/2014, 14:30 - FENS-2792**
THE USE OF TS65DN-MICE FOR MODELLING MEMORY DEFICITS IN TOUCH SCREEN PARADIGMS 3357
P. Van Dorsselaer, J. Talpos, T. Steckler *(Beerse, Belgium)*

F029 **TUE 8/7/2014, 13:30 - FENS-2377**
RAT ORBITOFRONTAL CORTEX NEURONAL ACTIVITY DURING A DELAYED REWARD DECISION-MAKING TASK 3358
C. Villas-Boas, K. Sameshima, G.F. Xavier *(Sao Paulo, Brazil)*

F030 **TUE 8/7/2014, 14:30 - FENS-0106**
CGMP-DEPENDENT PROTEIN KINASE TYPE II KNOCKOUT MICE EXHIBIT WORKING MEMORY IMPAIRMENTS, DECREASED REPETITIVE BEHAVIOR, AND INCREASED ANXIETY-LIKE TRAITS 3359
C. Wincott, S. Abera, S.A. Vunck, Y. Choi, L.M. DeVito, F. Hofmann, C. Hoeffer *(New York, USA)*

F031 **TUE 8/7/2014, 13:30 - FENS-0224**
MOLECULAR ACTIVITY CHANGES IN THE RAT BRAIN AFTER A VISUAL CATEGORIZATION TASK 3360
E. Ytebrouck, C. Bossens, G. Van Den Bergh, H. Op De Beeck, L. Arckens *(Leuven, Belgium)*

F032 **TUE 8/7/2014, 14:30 - FENS-1972**
IMPULSIVENESS AND LEARNING ABILITY IN RATS 3361
M. Zaichenko, G.K. Merzhanova, D. Bazhenova *(Moscow, Russia)*

F033 **TUE 8/7/2014, 13:30 - FENS-1954**
C-FOS ACTIVATION PATTERNS INVOLVED IN PROACTIVE INTERFERENCE AND SPATIAL MEMORY IN WISTAR RATS 3362
C. Zancada-Menendez, P. Sampedro-Piquero, A. Begega, L. López, J.L. Arias *(Oviedo, Spain)*

F034 **TUE 8/7/2014, 14:30 - FENS-2340**
PATH INTEGRATION AND BORDER INFORMATION CONTRIBUTE TO STABILITY OF HIPPOCAMPAL PLACE FIELD IN DARKNESS 3363
S. Zhang, F. Schönfeld, L. Wiskott, D. Manahan-Vaughan *(Bochum, Germany)*

F25: ANIMAL COGNITION AND BEHAVIOUR - FEAR AND AVERSIVE LEARNING AND MEMORY

F035 **TUE 8/7/2014, 13:30 - FENS-1643**
KEY MOLECULAR CHANGES TRIGGERED BY LEARNING ARE REQUIRED FOR LONG-LASTING MEMORY STORAGE IN THE RETROSPLENIAL CORTEX 3364
C. Katche, C. Gonzalez, C.P. Kramar, J.H. Medina *(Buenos Aires, Argentina)*

F036 **TUE 8/7/2014, 14:30 - FENS-3728**
HIPPOCAMPAL PLACE CELLS ENCODE A DISTANCE GRADIENT OF FEAR IN FORAGING RATS 3365
J. Kim, E.J. Kim, M.S. Kong, M.J. Park, J. Cho *(Seattle, USA)*

F037 **TUE 8/7/2014, 13:30 - FENS-0329**
THE PARTIAL AGONIST OF THE DOPAMINE RECEPTOR 2, ARIPIPRAZOLE, FACILITATES EXTINCTION IN ADOLESCENT RATS 3366
J. Kim, R.W. Coulthard, I.C. Zbukvic, L. Lee-Kardashyan, A.J. Lawrence, D.E. Ganella *(Parkville, Australia)*

F038 **TUE 8/7/2014, 14:30 - FENS-0076**
CANNABINOIDS PREVENT THE EFFECTS OF A FOOTSHOCK FOLLOWED BY SITUATIONAL REMINDERS ON EMOTIONAL PROCESSING 3367
N. Korem, I. Akirav *(Haifa, Israel)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F039 **TUE 8/7/2014, 13:30 - FENS-1368**

TACTIVIN IMPACT ON PASSIVE AVOIDANCE AND THE C-FOS EXPRESSION IN THE BRAIN STRUCTURES OF RATS 3368

A. Kryuchkova, N. Loginova, O. Belova, I. Zimina, A. Inozemtsev, V. Arion, E. Loseva *(Moscow, Russia)*

F040 **TUE 8/7/2014, 14:30 - FENS-3588**

THE ROLE OF NEUROKININ B-EXPRESSING NEURONS IN THE BASOLATERAL AMYGDALA IN FEAR CONDITIONING AND EXTINCTION 3369

G. Lach, S. Weger, R. Heilbronn, P. Wulff, G. Sperk, R.O. Tasan *(Innsbruck, Austria)*

F041 **TUE 8/7/2014, 13:30 - FENS-0322**

CORTICAL DNA HYDROXYMETHYLATION IS ASSOCIATED WITH FEAR EXTINCTION LEARNING AND MEMORY 3370

X. Li, W. Wei, Q.Y. Zhao, D. Baker-Andresen, C.R. Flavell, J. Widago, A. D'Alesso, Y. Zhang, T.W. Bredy *(St Lucia, Australia)*

F042 **TUE 8/7/2014, 14:30 - FENS-1565**

HAEMODYNAMIC MEASUREMENTS OF FEAR-EVOKED AMYGDALA RESPONSES IN SEROTONIN TRANSPORTER KNOCKOUT MICE 3371

J. Lima, T. Sharp, D.M. Bannerman, S.B. McHugh *(Oxford, United Kingdom)*

F043 **TUE 8/7/2014, 13:30 - FENS-2938**

ROLE OF SOMATOSTATIN RECEPTOR SUBTYPES IN EMOTIONAL AND MEMORY PROCESSES 3372

G. Martel, P. Zizzari, U. Avdic, A. Simon, S. Kalainathan, J. Epelbaum, C. Viollet *(Paris, France)*

F044 **TUE 8/7/2014, 14:30 - FENS-2481**

EXPRESSION OF POST-SYNAPTIC DENSITY PROTEINS DURING ACQUISITION AND RETRIEVAL OF AN AUDITORY FEAR MEMORY 3373

B. Moraes, K. Nader, O. Hardt *(Edinburgh, United Kingdom)*

F045 **TUE 8/7/2014, 13:30 - FENS-0242**

DIFFERENTIAL INVOLVEMENT OF AMYGDALA AND CORTICAL NMDA RECEPTORS ACTIVATION UPON ENCODING IN ODOR FEAR MEMORY 3374

A. Mouly, S. Parrot, G. Ferreira, C. Hegoburu *(Lyon, France)*

F046 **TUE 8/7/2014, 14:30 - FENS-3347**

PHARMACOLOGICAL AND NEUROCHEMICAL MECHANISMS OF THE FLAVONOID-RICH FRACTION (FFB) IN THE ACQUISITION OF FEAR MEMORY 3375

D. Oliveira, C.R.Z. Zamberlam, G.M.R. Rêgo, A.J.C. Cavalheiro, J.M.C. Cerutti, S.M.C. Cerutti *(Monte sião ,Brazil)*

F047 **TUE 8/7/2014, 13:30 - FENS-2649**

CIRCUIT INTERACTIONS BETWEEN AMYGDALA AND PERIAQUEDUCTAL GRAY SET THE STRENGTH OF FEAR MEMORIES 3376

T. Ozawa, E.A. Ycu, J. Koivumaa, J.P. Johansen *(Saitama, Japan)*

F048 **TUE 8/7/2014, 14:30 - FENS-2039**

AMYGDALOID OXYTOCIN-DOPAMINE D2 RECEPTOR-RECEPTOR INTERACTIONS AND THEIR POSSIBLE RELEVANCE FOR ANXIETY 3377

M. Perez de la Mora, D. Pérez-Carrera, M. Crespo-Ramírez, K. Fuxe *(Mexico City, Mexico)*

F049 **TUE 8/7/2014, 13:30 - FENS-2486**

BASOLATERAL AMYGDALA-STRIATAL INTERACTIONS IN REGULATING GLUCOCORTICOID EFFECTS ON MEMORY RETRIEVAL OF A CUED WATER-MAZE TASK 3378

G.L. Quirarte, N.J. Parga-Martínez, N. Serafin, P. Atsak, R.A. Prado-Alcalá, B. Roozendaal *(Querétaro, Mexico)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F050 **TUE 8/7/2014, 14:30 - FENS-1126**
CHANGES IN ANXIETY RESPONSE INDUCED BY ENVIRONMENTAL ENRICHMENT IN MALE MICE EXPOSED TO CHRONIC SOCIAL STRESS 3379
R. Redolat, P. Mesa-Gresa, M. Ramos-Campos *(Valencia, Spain)*

F051 **TUE 8/7/2014, 13:30 - FENS-1156**
A ROLE FOR TAC2 AND NK3 RECEPTOR IN NORMAL AND DYSREGULATED FEAR MEMORY CONSOLIDATION 3380
R. Andero Gali, B.G.D. Dias, K.J.R. Ressler *(Atlanta, USA)*

F052 **TUE 8/7/2014, 14:30 - FENS-3571**
VULNERABILITY TO STRESS OF THE INJURED BRAIN: THE ROLE OF INSULIN-LIKE GROWTH FACTOR 1 3381
A. Santi Miño, I. Torres-Aleman *(Madrid, Spain)*

F053 **TUE 8/7/2014, 13:30 - FENS-0853**
THE RAT EXPOSURE TEST AS A POST-TRAUMATIC STRESS DISORDER (PTSD) MODEL IN MICE 3382
F.S. Guimaraes, S.F. Lisboa, A.L. Da Silva, L.H.A. Camargo, L.B.M. Resstel *(Ribeirão Preto, Brazil)*

F054 **TUE 8/7/2014, 14:30 - FENS-2964**
OREXIN SYSTEM IN FEAR MEMORY FORMATION 3383
S. Soya, H. Shoji, E. Hasegawa, T. Miyakawa, M. Mieda, M. Hondo, M. Yanagisawa, T. Sakurai *(Kanazawa, Japan)*

F055 **TUE 8/7/2014, 13:30 - FENS-0383**
LOCALIZATION OF RECENT AND REMOTE MEMORY TRACES FOR SUCCESSFUL AND IMPAIRED FEAR EXTINCTION. THE INVOLVEMENT OF THE AMYGDALA-HIPPOCAMPAL-PREFRONTAL CORTICAL CIRCUITRY 3384
W. Szadzinska, K. Rokosz, M. Mikosz, E. Knapska *(Warsaw, Poland)*

F056 **TUE 8/7/2014, 14:30 - FENS-0077**
GUT MICROBIOTA DETERMINES THE LEVEL OF ANXIETY IN TWO INBRED MOUSE STRAINS 3385
V. Szegedi, J. Horvath, I. Eszik, D. Virok, Z. Bihari, G. Muller *(Szeged, Hungary)*

F057 **TUE 8/7/2014, 13:30 - FENS-2710**
BLOCKING RECONSOLIDATION OF FEAR BY ß-ADRENERGIC RECEPTORS: EFFECT OF SEX AND TRAIT ANXIETY 3386
J. Ter Horst, M. Joëls, G.F. Meerhoff, H. Krugers, M. Kindt *(Amsterdam, The Netherlands)*

F058 **TUE 8/7/2014, 14:30 - FENS-1651**
LATERAL HABENULA DETERMINES LONG-TERM STORAGE OF AVERSIVE MEMORIES 3387
M. Tomaiuolo, C. Gonzalez, H.J. Medina, J. Piriz *(Buenos Aires, Argentina)*

F059 **TUE 8/7/2014, 13:30 - FENS-1142**
INHIBITION OF GABA(A)?5 RECEPTOR FUNCTION DOES NOT REVERSE IMPAIRED RECALL OF FEAR CONDITIONED MEMORY 3388
H. Van Craenendonck, R. Willems, L. Ver Donck *(Beerse, Belgium)*

F060 **TUE 8/7/2014, 14:30 - FENS-2034**
DOPAMINE D4 RECEPTOR IN THE PRELIMBIC AREA OF THE MEDIAL PREFRONTAL CORTEX INHIBITS INNATE FEAR BEHAVIOR 3389
M. Vergara, J.A. Fuentealba, K. Gysling *(Santiago, Chile)*

F061 **TUE 8/7/2014, 13:30 - FENS-3516**
MUTUAL INFLUENCE OF MICE IN SOCIAL CONTEXT 3390
J. Watanabe, S. Okabe, R. Yamada, T. Kubo, T. Kikusui, K. Ikeda, S. Komai *(Nara, Japan)*

F062 **TUE 8/7/2014, 14:30 - FENS-2857**
HDAC INHIBITION DURING EXTINCTION CONSOLIDATION RESCUES IMPAIRED FEAR EXTINCTION IN A PERSISTENT AND CONTEXT-INDEPENDENT MANNER 3391
N. Whittle, M. Hauschild, S.B. Sartori, V. Maurer, N. Singewald *(Innsbruck, Austria)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F063 **TUE 8/7/2014, 13:30 - FENS-2286**

BI-DIRECTIONAL CONTROL OF FEAR LEARNING BY AMYGDALA INTERNEURONS 3392

S. Wolff, J. Gründemann, P. Tovote, S. Krabbe, G. Jacobson, C. Herry, I. Ehrlich, R. Friedrich, J. Letzkus, A. Lüthi *(Basel, Switzerland)*

F064 **TUE 8/7/2014, 14:30 - FENS-1077**

SHORT AND LONG TERM EFFECTS OF OPTOGENETIC STIMULATION OF THE MEDIAN RAPHE NEURONES DURING FEAR CONDITIONING 3393

D. Zelena, D. Balázsfi, L. Farkas, I. Barna, C. Cserép, V. Takács, V. Varga, G. Nyíri, T.F. Freund, J. Haller *(Budapest, Hungary)*

F26: MOTIVATION AND EMOTION

F065 **TUE 8/7/2014, 13:30 - FENS-1184**

EMPATHY: THE INVOLVEMENT OF OPIOID SYSTEM 3394

A. Luchetti, F.R. D'Amato *(Rome, Italy)*

F066 **TUE 8/7/2014, 14:30 - FENS-3338**

AMYGDALAR ADENOSINE A2A RECEPTORS CONTROL MOOD-RELATED MODIFICATIONS IN RATS SUBJECTED TO REPEATED RESTRAINT STRESS 3395

N. Machado, N. Goncalves, C.M. Souza, R.A. Cunha *(Mealhada, Portugal)*

F067 **TUE 8/7/2014, 13:30 - FENS-1144**

NPYY1 /GALANIN 2 HETERODIMERS IN THE AMYGDALA: A PROXIMITY LIGATION ASSAY STUDY 3396

N. Manuel Alejandro, C. Millon, D. Borroto-Escuela, A. Flores, L. Santin, C. Parrado, B. Gago, A. Puigcerver, K. Fuxe, J.A. Narvaez, Z. Diaz-Cabiale *(Malaga, Spain)*

F068 **TUE 8/7/2014, 14:30 - FENS-0987**

GALANIN N-TERMINAL FRAGMENT (1-15) INDUCES A STRONGER EFFECT THAN GALANIN IN DEPRESSION- AND ANXIETY-LIKE RELATED BEHAVIOURAL TESTS IN RATS 3397

C. Millón Peñuela, M. Narváez, A. Flores-Burgess, C. Parrado, A. Puigcerver, R. Coveñas, L. Santín, D.O. Borroto-Escuela, K. Fuxe, J.A. Narváez, Z. Diaz-Cabiale *(Málaga, Spain)*

F069 **TUE 8/7/2014, 13:30 - FENS-3748**

A QUANTITATIVE META-ANALYSIS OF NEUROANATOMICAL CORRELATES OF TEMPERAMENTAL TRAITS 3398

A. Mincic *(Oradea, Romania)*

F070 **TUE 8/7/2014, 14:30 - FENS-1633**

MOTOR IMPAIRMENT AND SOCIAL RESPONSIVENESS REDUCTION AFTER CB1 AGONIST ADMINISTRATION IN MICE 3399

C. Mucignat, M.J. Ricatti, V. Pavan, M.J. Redaelli, G. Zagotto *(Padova, Italy)*

F071 **TUE 8/7/2014, 13:30 - FENS-1953**

SOCIAL SIGNALS IN THE VENTROMEDIAL HYPOTHALAMUS OF FEMALE MICE: INFLUENCE OF THE REPRODUCTIVE CYCLE 3400

K. Nomoto, S.Q. Lima *(Lisboa, Portugal)*

F072 **TUE 8/7/2014, 14:30 - FENS-1046**

LICKING, LIKING AND LIGHTS: OPTOGENETIC DISSECTION OF A HEDONIC FEEDING CIRCUIT 3401

E.C. O`Connor, C. Luscher *(Geneva, Switzerland)*

F073 **TUE 8/7/2014, 13:30 - FENS-1242**

SELF-STIMULATION OF VTA DA NEURONS IS SUFFICIENT TO MIMIC KEY FEATURES OF ADDICTION IN MICE 3402

J. Terrier, V. Pascoli, C. Lüscher *(Geneva, Switzerland)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F074 **TUE 8/7/2014, 14:30 - FENS-0949**

REDUCED ULTRASONIC VOCALIZATIONS IN RATS AFTER A KAINIC ACID-INDUCED LESION OF THE PV1-FOXB1 NUCLEUS 3403

D. Roccaro, A. Babalian, A. Mueller, M.R. Celio *(Fribourg, Switzerland)*

F075 **TUE 8/7/2014, 13:30 - FENS-0544**

ANTERIOR PALLIDUM IN NON-HUMAN PRIMATE ENCODE APPETITIVE AND AVERSIVE CONTEXT TO CONTROL ACTIVE AVOIDANCE BEHAVIOR 3404

Y. Saga, V. Sgambato-Faure, E. Hoshi, L. Tremblay *(Bron, France)*

F076 **TUE 8/7/2014, 14:30 - FENS-1793**

ANTIDEPRESSANT-LIKE EFFECT OF ANANDAMIDE ADMINISTRATION INTO THE VMPFC OF RATS-INVOLVEMENT OF CB1 AND TRPV1 RECEPTORS 3405

A. Sartim, F. Moreira, S.R.L. Joca *(Ribeirão Preto, Brazil)*

F077 **TUE 8/7/2014, 13:30 - FENS-2613**

DISTINCTIVE ACTIVITY ON A MODEL OF ANHEDONIA OF SOME WIDELY USED ANTIDEPRESSANTS, MOOD STABILIZERS AND ANTIPSYCHOTICS 3406

S. Scheggi, T. Pelliccia, A. Ferrari, C. Gambarana, M.G. De Montis *(Siena, Italy)*

F078 **TUE 8/7/2014, 14:30 - FENS-0108**

DYNORPHIN DEFICIENCY PREVENTS HORMONAL DEPENDENT ANXIETY IN FEMALE MICE 3407

C. Schwarzer, H. Herzog *(Innsbruck, Austria)*

F079 **TUE 8/7/2014, 13:30 - FENS-2233**

DISTINCT EFFECTS OF DRUGS ON 50-KHZ ULTRASONIC VOCALIZATIONS AND LOCOMOTION IN RATS: ROLE OF INDIVIDUAL SUSCEPTIBILITY, DRUG DOSE, AND TIME-COURSE 3408

N. Simola, M. Morelli *(Cagliari, Italy)*

F080 **TUE 8/7/2014, 14:30 - FENS-2462**

MESOLIMBIC REGULATION OF PREFRONTAL GLUTAMATE AND DOPAMINE RELEASE: LINKING MOTIVATION TO COGNITION 3409

V. Valentini, J.P. Bruno, V. Perra, G.P. Serra, G. Piras, G. Di Chiara *(Cagliari, Italy)*

F081 **TUE 8/7/2014, 13:30 - FENS-0789**

SOCIAL RANKING DEPENDS ON ANXIETY-PROFILE AND IS CONTROLLED BY THE MESOLIMBIC SYSTEM 3410

M. Van der Kooij, F. Hollis, L. Lozano, C. Sandi *(Lausanne, Switzerland)*

F082 **TUE 8/7/2014, 14:30 - FENS-0287**

NORADRENALINE AND DOPAMINE NEURONS INTEGRATE REWARD VALUE AND EFFORT COST: A DIRECT ELECTROPHYSIOLOGICAL COMPARISON IN MONKEYS 3411

C. Varazzani, A. San-Galli, S. Bouret *(Paris, France)*

F083 **TUE 8/7/2014, 13:30 - FENS-1159**

CONSUMMATORY AND ANTICIPATORY HEDONIC DEFICITS IN THE WISTAR KYOTO MODEL OF DEPRESSION 3412

R. Wright, D.M. Dwyer, G. Gilmour *(Cardiff, United Kingdom)*

F084 **TUE 8/7/2014, 14:30 - FENS-0274**

EFFECTS OF SEROTONIN PRECURSOR INJECTIONS ON DAILY SPONTANEOUS ACTIVITY IN PHYSICALLY ACTIVE RATS 3413

S. Yanagita, N. Kubota, Y. Takano, T. Matsuzawa, K. Takeda *(Chiba, Japan)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G11: MOLECULAR AND GENETIC TECHNIQUES

G001 **TUE 8/7/2014, 13:30 - FENS-3703**
INNOVATIVE REPORTER SYSTEMS FOR THE NON-INVASIVE DETECTION OF MICROGLIA POLARIZATION 3414
N. Rizzi, A. Villa, E. Vegeto, A. Maggi *(Lodi, Italy)*

G002 **TUE 8/7/2014, 14:30 - FENS-3665**
THE INFLUENCE OF SEX AND SEX HORMONES ON MICROGLIA PHENOTYPE: INSIGHTS FROM HIGH THROUGHPUT RNA SEQUENCING DATA 3415
A. Villa, E. Vegeto, A. Maggi *(Milano, Italy)*

G003 **TUE 8/7/2014, 13:30 - FENS-1066**
OVEREXPRESSION OF PROTEIN KINASE M ZETA IN RATS USING AAV-MEDIATED GENE TRANSFER 3416
S. Schuette, T. Lamla, B. Stierstorfer, J. Danner-Liskus, D. Mennerich, S. Hobson *(Biberach ad Riss, Germany)*

G004 **TUE 8/7/2014, 14:30 - FENS-2141**
BRIEF EXPOSURE TO SMALL MOLECULES ALLOWS CONVERSION OF FIBROBLASTS INTO NEURONS 3417
Y. Takayama, H. Kushige, Y. Shibuya, A. Nakasu, Y. Kida *(Ibaraki, Japan)*

G005 **TUE 8/7/2014, 13:30 - FENS-3464**
APOE-ENHANCED LIPID NANOPARTICLE DELIVERY OF RNA MODULATES NEURONAL GENE EXPRESSION IN VITRO AND IN VIVO 3418
J. Taylor, R. Rungta, D. Zwaenepoel, R. Ramsay, H. Choi, C. Walsh, P. Cullis, B. MacVicar *(Vancouver, Canada)*

G006 **TUE 8/7/2014, 14:30 - FENS-3415**
APPLICATION OF MESO SCALE DISCOVERY FOR DETECTION OF LRRK2-S935 PHOSPHORYLATION AS READOUT FOR LRRK2 KINASE INHIBITION 3419
K. Thirstrup, P.S. Garrick, G.K. Mikkelsen, L. Badolo, K.V. Christensen *(Copenhagen, Denmark)*

G007 **TUE 8/7/2014, 13:30 - FENS-1575**
FLUORESCENCE-BASED ASSAY DEVELOPMENT TO SCREEN DRUGS AGAINST AMYOTROPHIC LATERAL SCLEROSIS DISEASE 3420
P. Villace, D. Kortazar, M. Roura, R. Mella *(Derio, Spain)*

G008 **TUE 8/7/2014, 14:30 - FENS-3157**
DIFFERENTIATING HUMAN PLURIPOTENT STEM CELLS TO NEURONS- APPROACHES IN MEDIA DEVELOPMENT 3421
N. Watson, A. Hannay, S. Shin *(Glasgow, United Kingdom)*

G009 **TUE 8/7/2014, 13:30 - FENS-0444**
ESTABLISHING A FLOW CHAMBER CELL CULTURE SYSTEM WITH HIPPOCAMPAL NEURONS 3422
J. Wrosch, K. Ebert, J. Kornhuber, T. Grömer *(Erlangen, Germany)*

G010 **TUE 8/7/2014, 14:30 - FENS-3246**
THE LECTIN COMPLEMENT PATHWAY AS A THERAPEUTIC TARGET IN STROKE 3423
R. Zangari, E. Zanier, A. Bersano, B. Casolla, S. Lanfranconi, F. Denaro, S. Lattanzi, S. Beretta, C. De piazza, E. Picetti, N. Checcarelli, O. Zuffardi, G. Torgano, E. Beghi, M. Silvestrini, L. Provinciali, C. Ferrarese, G. Micieli, F. Orzi, M.G. De Simoni *(Milan, Italy)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G12: STAINING AND TRACING

G011 **TUE 8/7/2014, 13:30 - FENS-1207**
3D ANALYSIS OF NEUROGENESIS IN THE ADULT HIPPOCAMPUS 3424
N. Barykina, S. Shuvaev, A. Lazutkin, K. Anokhin, G. Enikolopov *(Moscow, Russia)*

G012 **TUE 8/7/2014, 14:30 - FENS-0776**
INPUT AND OUTPUT CONNECTIONS OF RAT PREFRONTAL CORTEX DISPLAY A NOVEL, ORDERED ARRANGEMENT 3425
S. Bedwell, E.E. Billett, J.J. Crofts, C.J. Tinsley *(Nottingham, United Kingdom)*

G013 **TUE 8/7/2014, 13:30 - FENS-2774**
LUMOS: OPTICAL MAPPING OF THE ENTIRE MOUSE BRAIN AT MICROSCOPIC RESOLUTION 3426
O. Efimova, K. Anokhin *(Moscow, Russia)*

G014 **TUE 8/7/2014, 14:30 - FENS-1197**
PRESYNAPTIC PLASTICITY AT HIPPOCAMPAL MOSSY FIBER SYNAPSE PROBED WITH RETROGRADE VIRAL TRACING AND PAIRED RECORDINGS 3427
B. Gonzalez i Llinares, M. Ginger, M. Carta, C. Blanchet, A. Frick, M. Verhage, C. Mulle *(Bordeaux, France)*

G015 **TUE 8/7/2014, 13:30 - FENS-3582**
PRECISE LABELING OF MICROELECTRODE POSITIONS BY ACCURATE NEURONAL TRACING BASED ON PEDOT-DYE COATINGS 3428
S. Heizmann, A. Kilias, P. Ringwald, S. Okujeni, C. Böhler, P. Ruther, U. Egert, M. Asplund *(Freiburg, Germany)*

G016 **TUE 8/7/2014, 14:30 - FENS-2547**
LARGE-VOLUME EN-BLOC IMAGING PROTOCOL FOR CORRELATED FUNCTIONAL AND STRUCTURAL ANALYSIS OF NEURONAL CIRCUITS 3429
Y. Hua, K. Boergens, V. Pawlak, J.N.D. Kerr, M. Helmstaedter *(Munich, Germany)*

G017 **TUE 8/7/2014, 13:30 - FENS-2515**
TOWARDS AND ANTIBODY BASED PROTEIN ATLAS OF THE MOUSE BRAIN 3430
T. Jiménez-Beristain, K. Kamuda, N. Mitsios, I. Parisi, T. Hökfelt, M. Uhlén, J. Mulder *(Stockholm, Sweden)*

G018 **TUE 8/7/2014, 14:30 - FENS-3623**
EVALUATION OF THE WGA TRACER TECHNOLOGY TO DETECT NEURONAL CONNECTIVITY BETWEEN DIFFERENT MOUSE BRAIN AREAS 3431
S. Libbrecht, C. Van den Haute, V. Baekelandt *(Leuven, Belgium)*

G019 **TUE 8/7/2014, 13:30 - FENS-2959**
FLUORESCENCE-ACTIVATED SORTING OF FIXED NUCLEI (FAST-FIN): A GENERAL METHOD TO STUDY NUCLEI FROM SPECIFIC CELL POPULATIONS THAT PRESERVES POST-TRANSLATIONAL MODIFICATIONS 3432
L. Marion-Poll, E. Montalban, A. Munier, D. Hervé, J.A. Girault *(Paris, France)*

G020 **TUE 8/7/2014, 14:30 - FENS-2296**
A STUDY ON THE DISTRIBUTION OF NEURONAL CALCIUM BINDING (NECAB) PROTEINS 1 AND 2 IN THE ADULT MOUSE BRAIN 3433
N. Mitsios, J. Bredenberg, A. Jimenez-Beristain, M. Uhlen, T. Hokfelt, J. Mulder *(Stockholm, Sweden)*

G021 **TUE 8/7/2014, 13:30 - FENS-3523**
BOUNDARY CAP NEURAL CREST STEM CELLS AS A CHOICE FOR BETTER ISLET TRANSPLANTATION 3434
A. Ngamjariyawat, S. Vasylovska, K. Turpaev, N. Welsh, E.N. Kozlova *(Uppsala, Sweden)*

G022 **TUE 8/7/2014, 14:30 - FENS-0244**
IMMUNOHISTOCHEMICAL TOOLKIT FOR TRACKING THE FATE OF XENOTRANSPLANTED HUMAN STEM CELLS 3435
C. Nicaise, J. Allard, K. Li, X. Molese Lopez, D. Bohl, R. Pochet, A.C. Lepore, I. Salmon *(Namur, Belgium)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G023 **TUE 8/7/2014, 13:30 - FENS-1127**
AN ELECTRO-OSMOTIC METHOD FOR IN VIVO SINGLE-NEURON RNA TRANSFECTION IN THE ADULT BRAIN 3436
J. Rodríguez Moreno, C. Porrero, M. Evangelio, C. Smerdou, J.I. Quetglas, F. Clascá *(Madrid, Spain)*

G024 **TUE 8/7/2014, 14:30 - FENS-0163**
STORE-OPERATED CALCIUM ENTRY MAINTAINS STEADY-STATE LEVELS OF ER CALCIUM IN NEURONS 3437
S. Samtleben, R. Blum *(Würzburg, Germany)*

G025 **TUE 8/7/2014, 13:30 - FENS-2802**
RIESZ TRANSFORM-ASSISTED DIFFERENTIAL INTERFERENCE CONTRAST IMAGING FOR THREE-DIMENSIONAL VISUALIZATION AND QUANTITATIVE ANALYSIS OF ASYMMETRIC NEURITE EXTENSION AND GROWTH CONE MOTILITY 3438
A. Tamada, M. Igarashi *(Niigata, Japan)*

G13: BIOINFORMATICS

G026 **TUE 8/7/2014, 14:30 - FENS-3592**
NEURITE-J: AN IMAGE-J PLUGIN FOR AXONAL GROWTH ANALISYS IN ORGANOTYPIC CULTURES 3439
N. De la Oliva Muñoz, A. Torres-Espín, D. Santos, F. González-Pérez, J. Del Valle, X. Navarro *(Cerdanyola del Vallès, Spain)*

G027 **TUE 8/7/2014, 13:30 - FENS-0305**
A DECADE OF THE JOURNAL IMPULSE: INTERNATIONAL GROWTH AND IMPACT 3440
L. Jones, A. Rossi, G. Kritzinger, S. Smith *(Boone, USA)*

G028 **TUE 8/7/2014, 14:30 - FENS-1306**
LONG-SCALE INFORMATION PROCESSING BY WAVE INTERACTION IN NEURONAL CHAINS 3441
V. Makarov, J.A. Villacorta-Atienza *(Madrid, Spain)*

G029 **TUE 8/7/2014, 13:30 - FENS-2077**
TRANSCRIPTOME AGE INDEX OF HUMAN BRAIN DEVELOPMENT 3442
L. Opasic *(Zagreb, Croatia)*

G030 **TUE 8/7/2014, 14:30 - FENS-1450**
SPATIAL REGULATION OF GENE EXPRESSION IN THE MEDICINAL LEECH CNS 3443
O. Shefi, D. Hibsh, H. Schori, S. Efroni *(Ramat Gan, Israel)*

13:30 - 15:30 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

9th FENS FORUM OF NEUROSCIENCE

Milan | Italy July 5 – 9, 2014

Organised by the Federation of European Neuroscience Societies | FENS

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SCIENTIFIC PROGRAMME

Wednesday, 9th July

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FENS Federation of European Neuroscience Societies

SCIENTIFIC PROGRAMME
WEDNESDAY, JULY 09, 2014

8:30 - 9:30 **Hall A**

PLENARY LECTURE:
PL08: Plenary Lecture

Introducer: M. Di Luca *(Italy)* 3444

BUILDING CONNECTIONS: RNA-BASED MECHANISM OF AXON GUIDANCE 3445
C. Holt *(Cambridge, United Kingdom)*

9:45 - 11:15 **Hall G**

SYMPOSIUM:
S49: Early cortical circuits.

Chair: Z. Molnár *(United Kingdom)* 3446

9:50 **ACTIVITY REGULATES A SWITCH IN THALAMOCORTICAL AXON GROWTH** 3447
G. López-Bendito *(Alicante, Spain)*

10:10 **HANDSHAKES, EMBRACES AND RENDEZVOUS IN THE INTERNAL CAPSULE** 3448
S. Garel *(Paris, France)*

10:30 **INPUT-SPECIFIC DIFFERENTIATION OF CORTICAL NEURONS AND CIRCUITS** 3449
D. Jabaudon *(Geneva, Switzerland)*

10:50 **EARLY THALAMOCORTICAL INTERPLAY** 3450
P. Kanold *(College Park, USA)*

9:45 - 11:15 **Hall J**

SYMPOSIUM:
S50: Epigenetic control of neuronal function.

Chairs: T. Pizzorusso *(Italy)* 3451
E. Battaglioli *(Italy)* 3452

9:50 **THE MOLECULAR BASIS OF RETT SYNDROME** 3453
J. Cholewa-Waclaw, J. Guy, M. Lyst, J. Selfridge, A.P. Bird *(Edinburgh, United Kingdom)*

10:10 **EPIGENETICS, NEURONAL METABOLISM AND THE CIRCADIAN CLOCK** 3454
P. Sassone-Corsi *(Irvine, USA)*

10:30 **REGULATION OF MIRNA METABOLISM AND FUNCTION IN RETINAL AND NON-RETINAL NEURONS** 3455
W. Filipowicz, J. Krol, V. Busskamp, B. Roska *(Basel, Switzerland)*

10:50 **ROLE OF EPIGENETIC MECHANISMS IN VISUAL CORTICAL PLASTICITY** 3456
T. Pizzorusso, P. Tognini, D. Napoli, J. Tola, E. Putignano, D. Silingardi, R. Mazziotti, G. Chelini *(Pisa, Italy)*

9:45 - 11:15 **Hall F**

SYMPOSIUM:
S51: Old but new synaptic organizers: diverse but common mechanisms.

Chair: M. Yuzaki *(Japan)* 3457

9:50 **THE MORE THE MERRIER: RECEPTOR CLUSTERING IN CELL SURFACE SIGNALLING** 3458
R. Aricescu *(Oxford, United Kingdom)*

10:10 **C1Q FAMILY PROTEINS: UNIQUE FUNCTIONAL AND MORPHOLOGICAL REGULATORS OF SYNAPSES** 3459
M. Yuzaki *(Tokyo, Japan)*

10:30 **CONTROL OF SYNAPTIC CONNECTIVITY BY ASTROCYTE-SECRETED SYNAPTIC ORGANIZERS** 3460
C. Eroglu *(Durham, USA)*

10:50 **DISSECTING INTEGRIN AND N-CADHERIN FUNCTIONS IN THE BRAIN: FROM SYNAPSES TO BEHAVIOR** 3461
Y. Goda, Y. Park *(Saitama, Japan)*

9:45 - 11:15 **Hall D**

SYMPOSIUM:
S52: Synaptic deficits in intellectual disability disorders.

Chairs: R. Meredith *(The Netherlands)* 3462
N. Nadif Kasri *(The Netherlands)* 3463

9:50 **PATHOPHYSIOLOGY OF COGNITIVE DISORDERS: LESSONS FROM MULTI-SCALE EXPERIMENTAL STUDIES IN CD MOUSE MODELS** 3464
Y. Humeau, C.L. Zhang, X. Houbaert, M. Lepleux, M. Deshors, E. Normand, F. Gambino, C. Martin, E. Herzog *(Bordeaux, France)*

10:10 **SYNAPTIC CONNECTIVITY AND EARLY DEVELOPMENT IN FMR1-KO CORTICAL NETWORKS** 3465
R. Meredith *(Amsterdam, The Netherlands)*

10:30 **CHROMATIN REMODELING PATHWAYS IN INTELECTUAL DISABILITY DISORDERS** 3466
N. Nadif Kasri *(Nijmegen, The Netherlands)*

10:50 **GLUTAMATE AND GABA RECEPTORS TRAFFICKING IN X-LINKED INTELLECTUAL DISABILITY** 3467
S. Bassani *(Milan, Italy)*

9:45 - 11:15 **Hall E**

SYMPOSIUM:
S53: Auditory cortical tuning to natural sounds.

Chair: E. Formisano *(The Netherlands)* 3468

9:50 **MUSIC IN OUR EARS: THE BIOLOGICAL BASES OF MUSICAL TIMBRE PERCEPTION** 3469
M. Elhilali, K. Patil, S. Shamma, D. Pressnitzer *(Baltimore, USA)*

10:10 **MECHANISMS SUBSERVING THE CODING OF NATURAL SOUNDS AND SCENES IN THE MAMMALIAN AUDITORY CORTEX** 3470
I. Nelken *(Jerusalem, Israel)*

10:30 **VOICE CELLS IN THE PRIMATE BRAIN: ARE THEY AN AUDITORY EQUIVALENT TO FACE CELLS?** 3471
C. Petkov *(Newcastle Upon Tyne, United Kingdom)*

10:50 **ENCODING OF NATURAL SOUNDS IN HUMAN AUDITORY CORTEX: ULTRA-HIGH FIELD FMRI INVESTIGATIONS** 3472
M. Moerel, F. De Martino, R. Santoro, K. Ugurbil, E. Yacoub *(Maastricht, The Netherlands)*

9:45 - 11:15 **Hall H**

SYMPOSIUM:
S54: Functional and anatomical heterogeneity in the midbrain dopamine system.

Chair: M. Ungless *(United Kingdom)* 3473

9:50 **DISSECTING THE DOPAMINE REWARD CIRCUIT: BEYOND STAMP COLLECTING** 3474
N. Uchida *(Boston, USA)*

10:10 **TRANSCRIPTION FACTORS REGULATING MIDBRAIN DOPAMINE NEURON DEVELOPMENT AND FUNCTION** 3475
S. Ang, S. Khan, A. Truckenbrodt, S. Stott, K. Nave, M.W. Bishop, M.A. Ungless *(London, United Kingdom)*

10:30 **FUNCTIONAL DIVERSITY OF CODING AND SYNAPTIC PLASTICITY IN DOPAMINE NEURONS** 3476
M. Ungless *(London, United Kingdom)*

10:50 **THE FUNCTIONAL DIVERSITY OF NIGRAL DOPAMINE NEURONS IN BEHAVIORAL CONTROL AND DISEASE** 3477
J. Roeper *(Frankfurt, Germany)*

9:45 - 11:15 **Hall I**

SYMPOSIUM:
S55: The stressed social brain.

Chairs: A. Chen *(Israel)* 3478
M.J.A.G. Henckens *(Israel)* 3479

9:50 **OXYTOCIN INVOLVEMENT IN SOCIAL PREFERENCE BEHAVIOR AND IN SOCIAL FEAR CONDITIONING: ROLE OF SOCIAL STRESS** 3480
I. Neumann *(Regensburg, Germany)*

10:10 **THE ROLE OF THE MEDIAL-AMYGDALA UCN3/CRFR2 SYSTEM IN TRANSLATING SOCIAL SIGNALS INTO SOCIAL BEHAVIOR IN MICE** 3481
A. Chen *(Rehovot, Israel)*

10:30 **ROLE OF THE GLUCOCORTICOID RECEPTOR ALONG THE DOPAMINE SYSTEM IN SOCIAL STRESS RESILIENCE** 3482
J. Barik *(Paris, France)*

10:50 **NEUROBIOLOGY OF INFANT SOCIAL BEHAVIOR AND ATTACHMENT** 3483
R. Sullivan, M. Rincon-Cortes *(New York, USA)*

9:45 - 11:15 **Hall C**

SYMPOSIUM:
S56: Generalization of emotional memories: from neural circuits to anxiety disorders.

Chair: A. Luthi *(Switzerland)* 3484

9:50 **FROM PERCEPTION TO ABNORMAL GENERALIZATION: AMYGDALA-PREFRONTAL INTERACTIONS IN PRIMATE-MODELS OF AVERSIVE LEARNING AND ANXIETY** 3485
R. Paz *(Rehovot, Israel)*

10:10 **AMYGDALA-PREFRONTAL DIRECTIONALITY DETERMINES AVERSIVENESS IN A DIFFERENTIAL FEAR CONDITIONING TASK** 3486
J. Gordon, E. Likhtik, J. Stujenske *(New York, USA)*

10:30 **CAUSAL DISSECTION OF NEURAL CIRCUITS UNDERLYING ANXIETY** 3487
K. Tye *(Cambridge, USA)*

10:50 **PREFRONTAL NEURONAL MECHANISMS OF FEAR GENERALIZATION** 3488
C. Herry *(Bordeaux, France)*

11:45 - 12:45 **Hall J**

SPECIAL LECTURE:
SL09: FENS-EJN Awards Lectures

Introducers: J. Fritschy *(Switzerland)* 3489
M. Sarter *(USA)* 3490

IN SEARCH OF THE HOLY GRAIL OF FLY MOTION VISION 3491
A. Borst *(Martinsried, Germany)*

STUDYING NEURAL CIRCUITS MEDIATING FEAR IN ZEBRAFISH BRAIN 3492
E. Yaksi, S.K. Jetti, N. Vendrell Llopis *(Leuven, Belgium)*

11:45 - 12:45 **Hall B**

SPECIAL LECTURE:
SL10: ERA NET NEURON / Excellent Papers in Neuroscience Awards 2013

Introducers: E. Raulo *(Finland)* 3493
M. Dorloechter *(Germany)* 3494

GLUCOCORTICOIDS CAN INDUCE PTSD-LIKE MEMORY IMPAIRMENTS IN MICE, IN SCIENCE 3495
N. Kaouane, Y. Porte, M. Vallée, L. Brayda-Bruno, N. Mons, L. Calandreau, A. Marighetto, P.V. Piazza, A. Desmedt *(Talence, France)*

13:00 - 14:00 **Hall A**

PLENARY LECTURE:
PL09: Hertie Foundation Lecture

Introducer: R. Costa *(Portugal)* 3496

OF NEANDERTALS, DENISOVANS AND MODERN HUMANS 3497
S. Pääbo *(Leipzig, Germany)*

14:15 - 16:15 **Hall E**

NETWORKING EVENT:
Educational Course on: Manuscript and Grant Writing, effective Poster or Talk preparation

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11:15 - 13:15

POSTER PRESENTATION VII

Wednesday, 9th July

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11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A25: NEUROGENESIS AND GLIOGENESIS - NEURONAL DIFFERENTIATION

A001 **WEDN 9/7/2014, 11:15 - FENS-2487**
ROLE OF TERMINAL SELECTORS IN ESTABLISHING AND RESTRICTING NEURONAL FATE 3498
T. Patel, O. Hobert *(New York, USA)*

A002 **WEDN 9/7/2014, 12:15 - FENS-0241**
EXPRESSION OF THE F3/CONTACTIN AXONAL GLYCOPROTEIN IN DEVELOPING CEREBELLUM IS REGULATED BY THE COE FAMILY EBF2 TRANSCRIPTION FACTOR 3499
S. Picocci, A. Bizzoca, D. Bici, P. Corsi, L. Croci, G. Consalez, G. Gennarini *(Bari, Italy)*

A003 **WEDN 9/7/2014, 11:15 - FENS-2501**
TRASCRIPTION FACTORS COOPERATE TO PROMOTE DOPAMINERGIC DIFFERENTIATION 3500
S. Pulcrano, F. Volpicelli, C. De Sanctis, C. Perrone-Capano, U. Di Porzio, G.C. Bellenchi *(Naples, Italy)*

A004 **WEDN 9/7/2014, 12:15 - FENS-0858**
DNA METHYLTRANSFERASE 3B DOWN-REGULATION AND SP1 ACTIVATION INDUCE BRAIN SPECIFIC KINASE 1 EXPRESSION IN A NEURONAL DIFFERENTIATION MODEL 3501
L. Ramirez, M. Vargas, J. Espadamala, N. Gomez, J.M. Lizcano, E. Lopez-Bayghen *(México, Mexico)*

A005 **WEDN 9/7/2014, 11:15 - FENS-3532**
INVESTIGATION OF A RHEPO THERAPY APPROACH ON PERINATAL ZNS LESIONS IN A MODEL OF ACUTE SYSTEMIC HYPOXIA IN THE NEONATAL MOUSE BRAIN 3502
M. Richter-Kraus, J. Dumler, G. Knop, A. Feigenspan, R. Trollmann *(Erlangen, Germany)*

A006 **WEDN 9/7/2014, 12:15 - FENS-0292**
EZRIN IN BRAIN DEVELOPMENT AND DISEASE - FUNCTIONS IN RAS REGULATION, INTELLECTUAL DISABILITY AND CEREBELLAR GRANULE CELL DIFFERENTIATION 3503
L. Riecken, S. Mayerl, C. Dornblut, A. Schulz, R. Abou Jamra, H. Morrison *(Jena, Germany)*

A007 **WEDN 9/7/2014, 11:15 - FENS-2826**
EXPRESSION OF HCN CHANNELS IN THE DEVELOPING CEREBELLUM: A ROLE IN GRANULE CELLS PROLIFERATION AND MATURATION 3504
M. Ripamonti, M. Ferro, G. Racchetti, A. Bucchi, V. Zimarino, D. DiFrancesco, A. Malgaroli *(Milano, Italy)*

A008 **WEDN 9/7/2014, 12:15 - FENS-2546**
THE COREST FAMILY: FEATURES AND EXPRESSION IN THE CENTRAL NERVOUS SYSTEM 3505
J. Saez, A. Barrios, M. González, A. Gómez, M. Andrés *(Santiago, Chile)*

A009 **WEDN 9/7/2014, 11:15 - FENS-1601**
EXPLORING THE ACTION OF MICROCEPHALY-ASSOCIATED GENE TBR2 DURING CORTICOGENESIS 3506
A. Sessa, E. Ciabatti, D. Drechsel, G. Colasante, G. Testa, F. Guillemot, V. Broccoli *(Milano, Italy)*

A010 **WEDN 9/7/2014, 12:15 - FENS-1221**
BCL6 IS A NOVEL PRONEURONAL FACTOR INVOLVED IN CORTEX AND CEREBELLUM DEVELOPMENT AND BRAIN ONCOGENESIS 3507
L. Tiberi, J. Bonnefont, J. Van den Ameele, A. Herpoel, A. Bilheu, P. Vanderhaeghen *(Brussels, Belgium)*

A011 **WEDN 9/7/2014, 11:15 - FENS-0733**
POTENTIAL ROLE OF BRAIN INJURY ASSOCIATED MIRNA-451 IN NEUROGENIC PROCESSES IN VITRO 3508
C. Trattnig, A. Steinberger, S. Patz, G. Gruenbacher, U. Fasching, I. Klymiuk, B. Rinner, M. Absenger, E. Papapetrou, U. Schaefer *(Graz, Austria)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A012 **WEDN 9/7/2014, 12:15 - FENS-0975**

EHMT1 (GLP) PROTEIN IS DISTRIBUTED THROUGHOUT THE MOUSE BRAIN, WITH RELATIVELY HIGH EHMT1 EXPRESSION IN THE ADULT NEUROGENESIS AREAS 3509

C. Van der Zee, M.C. Balemans, M. Benevento, C.G. Pauwels, E.M. Maliepaard, R. Sonneveld, J.M. Eeftens, N. Nadif Kasri, H. Bokhoven *(Nijmegen, The Netherlands)*

A013 **WEDN 9/7/2014, 11:15 - FENS-1551**

INACTIVATION OF NOTCH SIGNALING DISRUPTS NEUROGENSIS PATTERNING DURING EARLY EMBRYONIC DEVELOPMENT 3510

M. Ware, L. Ratié, V. David, V. Dupe *(Rennes, France)*

A014 **WEDN 9/7/2014, 12:15 - FENS-2238**

THE IMPACT OF TGF-BETA SIGNALLING ON THE NEUROVASCULAR DEVELOPMENT OF THE FOREBRAIN 3511

S. Weise, P.H. Kuhn, N. Hellbach, J. Schwarz, K. Thedieck, S. Lichtenthaler, T. Vogel *(Freiburg, Germany)*

A015 **WEDN 9/7/2014, 11:15 - FENS-0394**

N-MYC IS ESSENTIAL FOR NEUROGENESIS AND PROPER DEVELOPMENT OF THE OLFACTORY EPITHELIUM 3512

W. Wittmann, T. Schimmang, L. Gunhaga *(Umeå, Sweden)*

A016 **WEDN 9/7/2014, 12:15 - FENS-0787**

ROLE OF BDNF ON ENDOCANNABINOIDS-MODULATION OF NEUROGENESIS IN MURINE DENTATE GYRUS STEM/PROGENITOR CELL CULTURES 3513

S. Xapelli, F.F. Ferreira, F.F. Ribeiro, A.M. Sebastião *(Lisboa, Portugal)*

A26: AXON AND DENDRITE DEVELOPMENT - DENDRITIC GROWTH AND BRANCHING

A017 **WEDN 9/7/2014, 11:15 - FENS-1530**

ENHANCED SRF ACTIVITY INTERFERES WITH NEURITE GROWTH POLARITY AND CIRCUIT FORMATION 3514

M. Scandaglia, C. Morenilla-Palao, E. Benito, Y. Coca, A. Fiorenza, E. Herrera, A. Barco *(Alicante, Spain)*

A018 **WEDN 9/7/2014, 12:15 - FENS-1911**

THE PLASMA MEMBRANE CA2+-ATPASE2 (PMCA2) IS INVOLVED IN THE REGULATION OF PURKINJE CELL DENDRITIC GROWTH IN CEREBELLAR ORGANOTYPIC SLICE CULTURES 3515

P. Sherkhane, J.P. Kapfhammer *(Basel, Switzerland)*

A019 **WEDN 9/7/2014, 11:15 - FENS-0454**

CD44 - THE ADHESION MOLECULE AND ITS ROLE IN DENDRITIC TREE ARBORIZATION OF PYRAMIDAL NEURONS 3516

A. Skupien, A. Konopka, L. Swiech, M. Babraj, I. Figiel-Ozóg, J. Wlodarczyk, J. Jaworski, G. Wilczynski, J. Dzwonek *(Warsaw, Poland)*

A020 **WEDN 9/7/2014, 12:15 - FENS-0283**

NCOA3 - A NOVEL MEDIATOR OF MICRORNA-ACTIVITY INVOLVED IN NEURONAL DEVELOPMENT 3517

P. Störchel, J. Thümmler, G. Siegel, G.M. Schratt *(Marburg, Germany)*

A021 **WEDN 9/7/2014, 11:15 - FENS-3448**

THE SERINE/THREONINE KINASE NDR2 CONTROLS INTEGRIN TRAFFICKING AND INTEGRIN-DEPENDENT NEURITE GROWTH 3518

O. Stork, K. Rehberg, M. Thiere, D. Mazdencioglu, B.M. Meineke, C. Freund, E. Budinger, S. Kliche *(Magdeburg, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A022 **WEDN 9/7/2014, 12:15 - FENS-2622**

DEVELOPMENTAL EPIGENETIC MODIFICATION REGULATES STOCHASTIC EXPRESSION OF CLUSTERED PROTOCADHERIN GENES, GENERATING SINGLE NEURON DIVERSITY 3519

S. Toyoda, T. Yagi *(Suita, Osaka, Japan)*

A023 **WEDN 9/7/2014, 11:15 - FENS-2327**

REGULATION OF POSTNATAL NEOCORTICAL PYRAMIDAL CELL DENDRITIC ARCHITECTURE BY TYPE I TARPS 3520

P. Wahle, M.I.K. Hamad, A. Jack, O. Klatt, M. Hollmann *(Bochum, Germany)*

A27: SYNAPTOGENESIS AND ACTIVITY-DEPENDENT DEVELOPMENT - SYNAPSE FORMATION

A024 **WEDN 9/7/2014, 12:15 - FENS-0537**

NEUROLIGINS AND BDNF - TRANSSYNAPTIC TEAMWORK 3521

A. Petkova, A. Böning, N. Gödecke, M. Korte, T. Dresbach *(Göttingen, Germany)*

A025 **WEDN 9/7/2014, 11:15 - FENS-0956**

PROTEASOME ACTIVITY AS A DEVELOPMENTAL BRAKE ON PRESYNAPTIC DIFFERENTIATION 3522

M. Pinto, R.D. Almeida *(Coimbra, Portugal)*

A026 **WEDN 9/7/2014, 12:15 - FENS-3570**

SECRETED PRO-BRAIN-DERIVED NEUROTROPHIC FACTOR (PROBDNF) INHIBITS EXPRESSION AND FUNCTIONS OF GABAERGIC SYNAPTIC TRANSMISSION 3523

B. Riffault, I. Medina, N. Ferrand, J.L. Gaiarsa, C. Porcher *(Marseille, France)*

A027 **WEDN 9/7/2014, 11:15 - FENS-2177**

ALLOSTERIC ACTIVATION OF COLLYBISTIN DRIVES DIFFERENTIATION OF INHIBITORY POSTSYNAPSES 3524

D. Schneeberger, T. Soykan, N. Bader, C. Büchner, G. Tria, D. Svergun, I. Tessmer, N. Brose, H. Schindelin *(Würzburg, Germany)*

A028 **WEDN 9/7/2014, 12:15 - FENS-1807**

THE ADHESION-GPCR BAI3 AS A COORDINATOR OF DENDRITOGENESIS AND SYNAPTOGENESIS 3525

F. Selimi, K. Iyer, F. Binda, M. Talleur, P. Isope, S.M. Sigoillot *(Paris, France)*

A029 **WEDN 9/7/2014, 11:15 - FENS-2925**

NEGATIVE REGULATION OF PRESYNAPTIC ASSEMBLY BY A NON-CLASSICAL CADHERIN IN SEROTONERGIC NEURONS IN C. ELEGANS 3526

H. Taru *(Sapporo, Japan)*

A030 **WEDN 9/7/2014, 12:15 - FENS-2503**

NEUROPLASTINS INTERACT WITH TRAF6 TO INITIATE NEURONAL SIGNALING 3527

S. Vemula, R. Herrera-Molina, C. Seidenbecher, E.D. Gundelfinger, M. Naumann *(Magdeburg, Germany)*

A031 **WEDN 9/7/2014, 11:15 - FENS-1756**

DEVELOPING TOOLS AND APPROACHES TO STUDY GABAERGIC SYNAPTOGENESIS IN THE CEREBRAL CORTEX DURING THE EARLY POSTNATAL PERIOD 3528

M. Virtanen, C.M. Lacoh, J.M. Fritschy, S.K. Tyagarajan, M. Kosel, A. Dayer, L. Vutskits *(Geneva, Switzerland)*

A28: DEVELOPMENT OF NEURAL SYSTEMS - SENSORY SYSTEMS

A032 **WEDN 9/7/2014, 12:15 - FENS-3416**

POSTNATAL EMERGENCE OF TOPOGRAPHIC WHISKER MAP IN THE RAT BARREL CORTEX 3529

M. Minlebaev, D. Suchkov, O. Mitrukhina, R. Khazipov *(Marseille, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

A033 **WEDN 9/7/2014, 11:15 - FENS-1072**
DARKNESS DOES NOT PROMOTE RECOVERY OF VISION IN AMBLYOPIC ADULT CATS 3530
D. Mitchell, K. Holman, K.R. Duffy *(Halifax, Canada)*

A034 **WEDN 9/7/2014, 12:15 - FENS-1305**
LARGE-SCALE SOMATOTOPIC REFINEMENT BY SYNAPSE ELIMINATION IN THE WHISKER SENSORY THALAMUS OF DEVELOPING MICE 3531
M. Miyata, Y. Takeuchi *(Tokyo, Japan)*

A035 **WEDN 9/7/2014, 11:15 - FENS-0780**
CORTICAL NEUROPLASTICITY INDUCED BY EARLY SENSORY DEPRIVATION IS INTRINSICALLY REGULATED IN THE THALAMUS 3532
V. Moreno Juan, C. Mezzera, G. López-Bendito *(San Juan de Alicante, Spain)*

A036 **WEDN 9/7/2014, 12:15 - FENS-2027**
EARLY IMPOVERISHED ENVIRONMENT REDUCES IGF-1 LEVELS AND DELAYS VISUAL CORTEX DEVELOPMENT 3533
R. Narducci, L. Baroncelli, M.C. Cenni, N. Berardi, L. Maffei *(Pisa, Italy)*

A037 **WEDN 9/7/2014, 11:15 - FENS-3689**
IN SILICO SEARCH FOR MIGRAINE CANDIDATE GENES WITH EXPRESSION IN THE TRIGEMINAL SYSTEM 3534
A. Pilar, R. Corral-San Miguel, F. Marín *(Murcia, Spain)*

A038 **WEDN 9/7/2014, 12:15 - FENS-0127**
LOCALIZATION AND ACTIVITY-REGULATED EXPRESSION OF SYNAPTOPODIN IN THE DEVELOPING MOUSE VISUAL SYSTEM 3535
A. Schlueter, A. Gutzmann, C. Schultz, M. Engelhardt *(Mannheim, Germany)*

A039 **WEDN 9/7/2014, 11:15 - FENS-3320**
EPHAPTIC COUPLING OF PARALLEL AXONS IN MYELIN MATURATION PROCESS OF AUDITORY NERVE 3536
N. Takahashi, M. Yamada, H. Konno *(Hakodate, Japan)*

A040 **WEDN 9/7/2014, 12:15 - FENS-3657**
DEVELOPMENTAL SWITCH FROM ELECTRICAL TO SYNAPTIC COUPLING BETWEEN LAYER 4 EXCITATORY NEURONS IN THE NEONATAL RAT BARREL CORTEX 3537
F. Valiullina, R.N. Khazipov, A.V. Rozov *(Kazan, Russia)*

A041 **WEDN 9/7/2014, 11:15 - FENS-2631**
DEVELOPMENTAL CHANGES IN NEUROVASCULAR COUPLING IN BARREL CORTEX BETWEEN P7 AND P30 MICE 3538
J. Yang, C.M. Zehendner, S. Tsohataridis, H.L. Luhmann *(Mainz, Germany)*

A042 **WEDN 9/7/2014, 12:15 - FENS-2466**
GFRA1 SIGNALING PROMOTES OLFACTORY INTERNEURON DEVELOPMENT 3539
S. Zechel, C.F. Ibanez *(Stockholm, Sweden)*

B52: NEUROTRANSMITTERS AND SIGNALLING MOLECULES - OPIATES AND OTHER NEUROPEPTIDES

B001 **WEDN 9/7/2014, 11:15 - FENS-3756**
RELAXIN3 INDUCES ERK1-2 PHOSPHORILATION IN THE AMYGDALA OF RATS 3540
H. Albert Gascó, I. Arnal-Vicente, V. Gadea, A. García-Avilés, N. ElMlili, F.E. Olucha-Bordonau, A.M. Sánchez-Pérez *(Moncada, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B002 **WEDN 9/7/2014, 12:15 - FENS-0358**
FUNCTIONAL CHARACTERIZATION OF THE C-TERMINAL PDZ BINDING DOMAIN OF CRHR1 3541
J. Bender, M.S. Ederer, A. Kurz-Drexler, D. Vogt-Weisenhorn, J. Breu, M. Engeholm, W. Wurst, F. Holsboer, J.M. Deussing *(München, Germany)*

B003 **WEDN 9/7/2014, 11:15 - FENS-3088**
THE DAY-NIGHT DIFFERENCE IN RESPONSIVENESS OF VARIOUS BRAIN STRUCTURES TO ANALGESIC DOSE OF MORPHINE 3542
Z. Bendova, K. Cervena, D. Pacesova, V. Spiská, J. Novotn *(Prague, Czech Republic)*

B004 **WEDN 9/7/2014, 12:15 - FENS-3142**
NEW PHARMACOLOGICAL TOOLS TO INVESTIGATE OXYTOCIN RECEPTORS IN NEURODEVELOPMENTAL BRAIN DISORDERS 3543
M. Busnelli, L. Anelli, M. Leonzino, B. Silva, E. Donà, M. Manning, M. Muttenthaler, B. Chini *(Milan, Italy)*

B005 **WEDN 9/7/2014, 11:15 - FENS-1639**
HUMAN NPSR1-DEPENDENT CALCIUM SIGNALING IN A NEURONAL EXPRESSION SYSTEM 3544
F. Erdmann, H.C. Pape, K. Jüngling *(Münster, Germany)*

B006 **WEDN 9/7/2014, 12:15 - FENS-2300**
CALCITONIN GENE-RELATED PEPTIDE ACTS AS POSITIVE REGULATOR OF PRESYNAPTIC QUANTAL SIZE IN MOUSE NEUROMUSCULAR JUNCTION 3545
A. Gaydukov, O. Balezina *(Moscow, Russia)*

B007 **WEDN 9/7/2014, 11:15 - FENS-3073**
EXPRESSION LEVEL OF OXYTOCIN AND VASOPRESSIN RECEPTORS IN MICE MODELS OF SOCIAL DYSFUNCTION 3546
V. Gigliucci, M. Busnelli, H. Huang, F. Papaleo, B. Chini *(Milan, Italy)*

B008 **WEDN 9/7/2014, 12:15 - FENS-0978**
RESTORATION OF INFLAMMATION-REACTIVE ASTROCYTE NETWORKS WITH A THREE DRUG COMBINATION 3547
E. Hansson, L. Block, U. Björklund, B. Biber *(Göteborg, Sweden)*

B009 **WEDN 9/7/2014, 11:15 - FENS-1458**
STILL MORE ECTOMETALLOPEPTIDASES ATTACHED TO AXONAL ENDING OF NEURONS 3548
E. Kropotova, M.I. Mosevitsky *(Gatchina, Russia)*

B010 **WEDN 9/7/2014, 12:15 - FENS-0313**
EFFECTS OF AN AGONIST AND ANTAGONIST OF DELTA-OPIOID RECEPTORS ON THE FIRING ACTIVITY OF RAT HIPPOCAMPAL NEURONS IN PRIMARY CULTURE 3549
L. Lacinová, L. Lichvarova, E. Dremencov, D. Jezova *(Bratislava, Slovakia)*

B011 **WEDN 9/7/2014, 11:15 - FENS-1963**
DISREGULATION OF KCC2 EXPRESSION IN HIPPOCAMPAL NEURONS FROM THE OXTR-/- MOUSE MODEL OF AUTISM 3550
M. Leonzino, P. Tornese, I. Ceresini, M. Busnelli, B. Chini *(Milano, Italy)*

B012 **WEDN 9/7/2014, 12:15 - FENS-3745**
MU-OPIOID RECEPTORS PARTICIPATE TO CORTICAL NETWORK ACTIVITY IN VIVO 3551
A. Stephan, Y. Peterschmitt, F. Studer, C. Tatarau, B. Kieffer *(Illkirch, France)*

B013 **WEDN 9/7/2014, 11:15 - FENS-3628**
OPTOGENETIC ANALYSIS OF THE NOCICEPTOR NEURON ASH IN CAENORHABDITIS ELEGANS 3552
J. Watteyne, L. Frooninckx, P. Van der Auwera, I. Beets, L. Temmerman, S.J. Husson, L. Schoofs *(Leuven, Belgium)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B53: LIGAND GATED ION CHANNELS - GABA RECEPTORS

B014 **WEDN 9/7/2014, 12:15 - FENS-0288**

HIPPOCAMPAL GABAERGIC NEUROTRANSMISSION AND POSTSYNAPTIC GEPHYRIN CLUSTERING ARE ENHANCED BY THE ACTIVATION OF COLLYBISTIN THROUGH GTP-TC10 3553

S. Mayer, R. Kumar, M. Jaiswal, T. Soykan, M.R. Ahmadian, N. Brose, H. Betz, J.S. Rhee, T. Papadopoulos *(Goettingen, Germany)*

B015 **WEDN 9/7/2014, 11:15 - FENS-0418**

COMPARISON OF SALVIA MILTIORRHIZA AND SALVIA PRZEWALSKII EFFECTS ON MRNA EXPRESSION OF GABAA SUBUNITS IN BRAIN OF ALCOHOL PREFERRING RATS 3554

P. Mikolajczak, M. Szulc, E. Kaminska, R. Taqtaq, A. Bogacz, J. Bartkowiak-Wieczorek, R. Kujawski, W. Dyr, T. Bobkiewicz-Kozlowska, P.M. Mrozikiewicz *(Poznan, Poland)*

B016 **WEDN 9/7/2014, 12:15 - FENS-2201**

GABAA BETA3_ALPHA5 CONCATENATE: UTILITY FOR LIGAND-BINDING AND FUNCTIONAL ASSAYS 3555

A. Pálvölgyi, B. Mihalik, G. Kapus, M. Végh, K. Pallagi, L. Papp, F.A. Antoni *(Budapest, Hungary)*

B017 **WEDN 9/7/2014, 11:15 - FENS-1867**

DIFFERENTIAL FUNCTIONAL PROPERTIES OF 4-PIOL AT SYNAPTIC AND EXTRASYNAPTIC GABA-A RECEPTORS 3556

B. Patel, M. Mortensen, D.P. Bright, T.G. Smart *(London, United Kingdom)*

B018 **WEDN 9/7/2014, 12:15 - FENS-3558**

CHARACTERIZATION OF THE GABAA RECEPTOR AS AUTOANTIGEN OF A FORM OF EPILEPTIC ENCEPHALITIS WITH ANTIBODIES THAT REMOVE THE RECEPTORS FROM SYNAPSES 3557

M. Petit Pedrol, T. Armangué, X. Peng, E. Martinez-Hernandez, R. Balice-Gordon, F. Graus, J. Dalmau *(Barcelona, Spain)*

B019 **WEDN 9/7/2014, 11:15 - FENS-3663**

FAST REGULATION OF GLUTAMATE AND GABAA RECEPTORS LATERAL MOBILITY PROBED WITH OPTOGENETIC TOOLS 3558

A. Polenghi, E.M. Petrini, C. Rosillo, P. Gorostiza, F. Benfenati, A. Barberis *(Genova, Italy)*

B020 **WEDN 9/7/2014, 12:15 - FENS-3690**

CAMKII-DEPENDENT POSTSYNAPTIC POTENTIATION OF INHIBITION AT GABAERGIC SYNAPSES 3559

T. Ravasenga, E.M. Petrini, A. Barberis *(Genova, Italy)*

B021 **WEDN 9/7/2014, 11:15 - FENS-1861**

GLYCINE AND GABAA RECEPTORS SUB-SYNAPTIC DIFFUSION AND COMPETITION IN SPINAL CORD SYNAPSES 3560

M. Renner, Y. Cantaut-Belarif, L. Hennekinne, A. Triller *(Paris, France)*

B022 **WEDN 9/7/2014, 12:15 - FENS-0290**

ELECTROPHYSIOLODICAL AND MODELING STUDY OF THE MECHANISMS OF GABAA RECEPTOR BLOCK BY PENICILLIN 3561

A. Rossokhin, I. Sharonova *(Moscow, Russia)*

B023 **WEDN 9/7/2014, 11:15 - FENS-0435**

FLUORESCENT MONITORING OF GABAA RECEPTOR-MEDIATED CHANGES IN INTRACELLULAR CHLORIDE LEVELS 3562

T. Waseem, M. Mukhtarov, S. Buldakova, I. Medina, I. Jacob, P. Bregestovski *(Marseille, France)*

B024 **WEDN 9/7/2014, 12:15 - FENS-2512**

SELECTIVE REMOVAL OF GABA-A AND GABA-B RECEPTORS FROM THE VISUAL THALAMUS 3563

Z. Ye, X. Yu, A.Y. Zecharia, W. Wisden, S.G. Brickley *(London, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B54: ION CHANNELS - POTASSIUM CHANNELS

B025 **WEDN 9/7/2014, 11:15 - FENS-3221**
BUPIVACAINE BLOCK OF K CHANNELS - NO RESTING STATE BINDING? 3564
J. Nilsson, H. Zeberg, M. Madeja, P. Arhem *(Stockholm, Sweden)*

B026 **WEDN 9/7/2014, 12:15 - FENS-3127**
DISTRIBUTION, SURFACE EXPRESSION AND SUBUNIT COMPOSITION OF POTASSIUM CHANNELS OF THE SLO FAMILY IN MOUSE BRAIN 3565
S. Rizzi, C. Schwarzer, W. Kaufmann, R. Brenner, H.G. Knaus *(Innsbruck, Austria)*

B027 **WEDN 9/7/2014, 11:15 - FENS-3540**
ID UNDERLIES BOTH INTRINSIC AND HOMEOSTATIC PLASTICITY IN HIPPOCAMPAL CA3 NEURONS 3566
M. Zbili, L. Fronzaroli-Molinieres, D. Debanne *(Marseille, France)*

B028 **WEDN 9/7/2014, 12:15 - FENS-3451**
BKCA CHANNEL PORE-FORMING AND REGULATORY SUBUNIT EXPRESSIONS IN THE BRAIN MITOCHONDRIA OF DIABETES 3567
E. Noursadeghi, A. Jafari, A. Eliassi, R. Saghiri *(Tehran, Iran)*

B029 **WEDN 9/7/2014, 11:15 - FENS-2697**
A NOVEL DUAL MODULATOR OF KV7.2/3 AND TRPV1 CHANNELS PREVENTS INFLAMMATORY AND NEUROPATHIC PAIN 3568
A. Peretz, E. Patrich, P. Kornilov, N. Menaker, B. Attali *(Tel Aviv, Israel)*

B030 **WEDN 9/7/2014, 12:15 - FENS-2827**
FUNCTIONAL MOLECULAR EXPRESSION OF K2P CHANNELS IN MOTOR AND SENSITIVE GANGLIA 3569
A. Reboreda Prieto, A. Cadaveira - Mosquera, P. Rivas-Ramírez, N. Bertone, J.A. Lamas *(Vigo, Spain)*

B031 **WEDN 9/7/2014, 11:15 - FENS-0409**
EFFECT OF THE MODULATION OF KV3 POTASSIUM CHANNELS ON EXCITATORY SYNAPTIC TRANSMISSION IN THE MOUSE DORSAL COCHLEAR NUCLEUS, IN VITRO 3570
N. Pilati, M. Rosato Siri, C. Large *(Verona, Italy)*

B032 **WEDN 9/7/2014, 12:15 - FENS-1424**
PHARMACOLOGICAL MODULATION OF KV3 POTASSIUM CHANNELS REGULATES THE FIRING OF PARVALBUMIN-POSITIVE CORTICAL INTERNEURONS 3571
M. Rosato Siri, E. Zambello, C. Mutinelli, N. Garbati, R. Benedetti, C. Virginio, G.S. Alvaro, C.H. Large *(Verona, Italy)*

B033 **WEDN 9/7/2014, 11:15 - FENS-3259**
EPILEPSY-ASSOCIATED MUTATIONS IN KV7.2 INTERFERE WITH BINDING AND FUNCTIONAL CURRENT MODULATION BY CALMODULIN 3572
M.V. Soldovieri, P. Ambrosino, C. Gomis-Perez, A. Alaimo, M. De Maria, L. Manocchio, S. Di Sisto, A. Alberdi, G. Bernardo-Seisdedos, P. Areso, G. Lesca, A. Villarroel, M. Taglialatela *(Campobasso, Italy)*

B034 **WEDN 9/7/2014, 12:15 - FENS-2485**
BIOPHYSICAL CHARACTERIZATION OF KV3.1 CHANNEL ACTIVATING COMPOUNDS 3573
B. Taskin, N.L. Von Schoubye, J.F. Bastlund, M. Grunnet, T. Jespersen *(Copenhagen, Denmark)*

B035 **WEDN 9/7/2014, 11:15 - FENS-2176**
RELATIONSHIP BETWEEN INTRACELLULAR K+ CONCENTRATION INCREASE AND CELL DIFFERENTIATION 3574
T. Wada, M. Takechi, K. Sakai, K. Ueshiba, Y. Funakami, S. Yoshida, S. Ichida *(Higashi-Osaka, Japan)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B036 **WEDN 9/7/2014, 12:15 - FENS-0707**

MODULATION OF PACEMAKER CHANNEL ACTIVITY BY THE AUXILIARY SUBUNIT TRIP8B IN THE THALAMOCORTICAL SYSTEM 3575

M. Zobeiri, P. Bista, V.E.N.U. Narayanan, D. Chetkovich, H. Pape, T. Budde *(Nijmegen, Germany)*

B037 **WEDN 9/7/2014, 11:15 - FENS-3535**

AXONAL KV1 CHANNELS DETERMINE CA3 PYRAMIDAL CELL EXCITABILITY 3576

S. Rama, M. Zbili, A. Fekete, D. Debanne *(Marseille, France)*

B55: TRANSPORTERS - GLUTAMATE

B038 **WEDN 9/7/2014, 12:15 - FENS-1665**

VGLUT1 FUNCTIONS AS A GLUTAMATE/PROTON EXCHANGER WITH A CHLORIDE CHANNEL ACTIVITY 3577

M. Martineau, R. Guzman Castro, C. Fahlke, J. Klingauf *(Münster, Germany)*

B039 **WEDN 9/7/2014, 11:15 - FENS-1395**

GLT-1 AND GAT-1 AS HETEROTRANSPORTERS AT CORTICAL SYNAPSES 3578

M. Melone, F. Conti *(Ancona, Italy)*

B040 **WEDN 9/7/2014, 12:15 - FENS-3143**

VGLUT 1MEOS2 TAGGING FOR SUPER-RESOLUTION IMAGING OF SYNAPTIC VESICLES 3579

X. Zhang, S. Ouankpo, M. Mondin, Y. Humeau, N. Brose, E. Herzog *(Bordeaux, France)*

B56: TRANSPORTERS - INHIBITORY TRANSMITTERS

B041 **WEDN 9/7/2014, 11:15 - FENS-0856**

CHARACTERIZATION OF BDNF ROLE UPON GLYT2-MEDIATED GLYCINE UPTAKE IN BRAIN SYNAPTOSOMES 3580

R. Aroeira, A.M. Sebastião, C.A. Valente *(Lisboa, Portugal)*

B042 **WEDN 9/7/2014, 12:15 - FENS-3713**

ALTERATION OF CHLORIDE HOMEOSTAIS ALTERATION IN A RODENT MODEL OF TEMPORAL LOBE EPILPESY 3581

K. Nazim, C. Pellegrino, J.M. Renko, M. Vaha, G. Chazal, J.L. Gaiarsa, R. Tuominen, V. Crépel, C. Rivera *(Marseille, France)*

B57: TRANSPORTERS - MONOAMINES

B043 **WEDN 9/7/2014, 11:15 - FENS-0143**

NONGENOMIC, GLUCOCORTICOID RECEPTOR-MEDIATED REGULATION OF SEROTONERGIC NEUROTRANSMISSION IN EMBRYONIC STEM CELL DERIVED SEROTONERGIC NEURONS 3582

T. Lau, T. Weber, J. Ziegler, N. Paul, D. Bartsch, P. Schloss *(Mannheim, Germany)*

B58: SYNAPTIC PLASTICITY - LTP: POSTSYNAPTIC MECHANISMS

B044 **WEDN 9/7/2014, 12:15 - FENS-2052**

THE ANTICOAGULANT ACTIVATED PROTEIN C (APC) PROMOTES METAPLASTICITY IN THE HIPPOCAMPUS THROUGH AN EPCR-PAR1-S1P1 RECEPTORS DEPENDENT MECHANISM 3583

N. Maggio, Z. Itsekson, B. Ikenberg, A. Strehl, A. Vlachos, I. Blatt, D. Tanne, J. Chapman *(Ramat Gan, Israel)*

B045 **WEDN 9/7/2014, 11:15 - FENS-1235**

MOLECULAR MECHANISMS FOR COCAINE-EVOKED PROJECTION-SPECIFIC SYNAPTIC PLASTICITY IN THE LATERAL HABENULA 3584

M. Mameli, S. Lecca, K. Valentinova, L. Marion-Poll, S. Musardo, I. Moutkine, F. Gardoni, J.A. Girault, F.J. Meye *(Paris, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B046 **WEDN 9/7/2014, 12:15 - FENS-2403**

THE ROLE OF MEMBRANE-DELIMITED AKT IN REGULATION OF LTP EXPRESSION AND BASIC SYNAPTIC ACTIVITY 3585

I. Michaelevski, Y. Pen, A. Sheinin, N. Borovok *(Tel Aviv, Israel)*

B047 **WEDN 9/7/2014, 11:15 - FENS-0393**

ROLES FOR GROUP II METABOTROPIC GLUTAMATE RECEPTORS IN HIPPOCAMPAL LTP 3586

N. Rosenberg, U. Gerber, J. Ster *(Zurich, Switzerland)*

B048 **WEDN 9/7/2014, 12:15 - FENS-0904**

REPEATED NECK RESTRAINT STRESS-INDUCED MODIFICATIONS OF GLUTAMATERGIC TRANSMISSION IN THE MICE DENTATE GYRUS 3587

J. Spyrka, G. Hess *(Krakow, Poland)*

B049 **WEDN 9/7/2014, 11:15 - FENS-2773**

HORMONAL REGULATION OF SYNAPTIC TRANSMISSION AND STRUCTURE 3588

W. Timmermans, S. Lesuis, E.M. Manders, C.C. Hoogenraad, H.J. Krugers *(Amsterdam, The Netherlands)*

B050 **WEDN 9/7/2014, 12:15 - FENS-0249**

THE NEURAL CELL ADHESION MOLECULE-ASSOCIATED POLYSIALIC ACID AND LONG-TERM POTENTIATION IN THE MOUSE PREFRONTAL CORTEX 3589

H. Varbanov, G. Kochlamazashvili, H. Hildebrandt, A. Dityatev *(Bonn, Germany)*

B051 **WEDN 9/7/2014, 11:15 - FENS-0189**

LONG-TERM POTENTIATION AT CEREBELLAR PARALLEL FIBER-PURKINJE CELL SYNAPSES REQUIRES PRE- AND POSTSYNAPTIC SIGNALING CASCADES 3590

D. Wang, L. Su, Y. Wang *(Hangzhou, China)*

B052 **WEDN 9/7/2014, 12:15 - FENS-1593**

DIFFERENT IMPACT OF MMP-3 PROTEASE ON LTP IN THE MOSSY FIBER - CA3 AND CA3-CA1 HIPPOCAMPAL PROJECTIONS 3591

G. Wiera, J.W. Mozrzymas *(Wroclaw, Poland)*

B59: SYNAPTIC PLASTICITY - NEUROMODULATORS

B053 **WEDN 9/7/2014, 11:15 - FENS-0798**

CELLULAR MECHANISMS OF THE ANTIEPILEPTIC ACTIVITY OF THE KETOGENIC DIET 3592

N. Forte, L. Medrihan, P. Baldelli, F. Benfenati *(Genoa, Italy)*

B054 **WEDN 9/7/2014, 12:15 - FENS-2504**

ENDOGENOUS ACTIVATION OF IGF-1 RECEPTOR MODULATES SYNAPTIC TRANSMISSION AND PLASTICITY IN HIPPOCAMPAL SYNAPSES 3593

N. Gazit, I. Slutsky *(Tel Aviv, Israel)*

B055 **WEDN 9/7/2014, 11:15 - FENS-3303**

INHIBITION OF ECTO-5´-NUCLEOTIDASE ACTIVITY FACILITATES SHORT-TERM AND INHIBITS LONG-TERM PLASTICITY IN TWO DIFFERENT MOUSE BRAIN REGIONS 3594

F. Gonçalves, D. Rial, H. Silva, R. Cunha *(Coimbra, Portugal)*

B056 **WEDN 9/7/2014, 12:15 - FENS-2191**

THE METABOTROPIC GLUTAMATE RECEPTOR, MGLU5, IS REQUIRED FOR SYNAPTIC PLASTICITY AT MOSSY FIBER - CA3 AND COMMISSURAL/ASSOCIATIONAL - CA3 SYNAPSES IN VIVO 3595

H. Hagena, D. Manahan-Vaughan *(Bochum, Germany)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B057 **WEDN 9/7/2014, 11:15 - FENS-1058**

STIMULATION OF THE LOCUS COERULEUS FACILITATES LONG-TERM DEPRESSION IN THE DENTATE GYRUS OF FREELY BEHAVING RATS 3596

N. Hansen, D. Manahan-Vaughan *(Bochum, Germany)*

B058 **WEDN 9/7/2014, 12:15 - FENS-3655**

HISTAMINE H1 AND H2 RECEPTOR-MEDIATED MODULATION OF SPONTANEOUS GLUTAMATERGIC SYNAPTIC TRANSMISSION 3597

S. Magara, M. Lindskog *(Stockholm, Sweden)*

B059 **WEDN 9/7/2014, 11:15 - FENS-0168**

EEF2 ACTS AS A BIOCHEMICAL SENSOR DURING SYNAPTIC PLASTICITY, COUPLING DIVERSE ACTIVITY PATTERNS TO TRANSLATIONAL CONTROL 3598

P. McCamphill, C. Abi Farah, W. Sossin *(Montreal, Canada)*

B060 **WEDN 9/7/2014, 12:15 - FENS-3263**

PRE-SYNAPTIC INTERACTION BETWEEN ADENOSINE A2AR AND DR2 POTENTIATES COCAINE-INDUCED DEPRESSION OF SYNAPTIC PLASTICITY IN MICE PREFRONTAL CORTEX 3599

J. Real, F. Queiroz, D. Rial, R.A. Cunha *(Coimbra, Portugal)*

B60: NETWORK INTERACTIONS - OSCILLATIONS AND SYNCHRONY

B061 **WEDN 9/7/2014, 11:15 - FENS-2920**

HYALURONIDASE-INDUCED CA2+ SUPEROSCILLATIONS IN DISSOCIATED HIPPOCAMPAL CULTURES 3600

I. Mukhina, E. Mitrosina, T. Sakharnova, R. Socolov, M. Vedunova, A. Dityatev *(Nizhny Novgorod, Russia)*

B062 **WEDN 9/7/2014, 12:15 - FENS-1962**

SOLOISTS AND CHORISTERS IN A CORTICAL POPULATION 3601

M. Okun, L. Cossell, M.F. Iacaruso, H. Ko, S.B. Hofer, T.D. Mrsic-Flogel, M. Carandini, K.D. Harris *(London, United Kingdom)*

B063 **WEDN 9/7/2014, 11:15 - FENS-3209**

DYNAMIC INFORMATION ROUTING AT THE EDGE OF SYNCHRONY 3602

A. Palmigiano, F. Wolf, T. Geisel, D. Battaglia *(Goettingen, Germany)*

B064 **WEDN 9/7/2014, 12:15 - FENS-3636**

THE ROLE OF (SELF-)INHIBITION DURING ASYNCHRONOUS VS. OSCILLATORY NETWORK STATES IN CORTICAL EXCITATORY AND INHIBITORY NEURONS 3603

A. Pazienti, A. Bacci *(Rome, Italy)*

B065 **WEDN 9/7/2014, 11:15 - FENS-1713**

CORTICAL DOWNSTATES AND BREAKDOWN OF CAUSALITY WITHIN THE SLEEPING BRAIN: AN INTRACEREBRAL STUDY IN HUMANS 3604

A. Pigorini, S. Sarasso, P. Proserpio, C. Szymanski, G. Arnulfo, S. Casarotto, M. Fecchio, M.C.E. Rosanova, M. Mariotti, J.M. Palva, L. Nobili, M. Massimini *(Milan, Italy)*

B066 **WEDN 9/7/2014, 12:15 - FENS-3561**

USING SPIKE DISTANCE MEASURE TO REVEAL SLOW VARIATIONS IN ACTIVITY OF SUPERIOR COLLICULUS NEURONS 3605

J. Popiolkiewicz, G. Mochol, A. Foik, W.J. Waleszczyk *(Warszawa, Poland)*

B067 **WEDN 9/7/2014, 11:15 - FENS-1064**

LASTING EFFECTS OF DIRECT CURRENT STIMULATION ON GAMMA OSCILLATIONS IN-VITRO 3606

D. Reato, M. Bikson, L.C. Parra *(Bronx, USA)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B068 **WEDN 9/7/2014, 12:15 - FENS-3197**
ORGANIZATION OF HIPPOCAMPAL SHARP WAVE-RIPPLES 3607
D. Schlingloff, S. Káli, Z. Kohus, T.F. Freund, N. Hájos, A.I. Gulyás *(Budapest, Hungary)*

B069 **WEDN 9/7/2014, 11:15 - FENS-1998**
PHASE-LOCKING OF NEURONAL SPIKES TO THE LOCAL FIELD POTENTIAL IN CAT V1 3608
S. Schröder, K.A.C. Martin *(Zurich, Switzerland)*

B070 **WEDN 9/7/2014, 12:15 - FENS-3566**
EXPERIENCE ENHANCES GAMMA OSCILLATIONS AND INTERHEMISPHERIC ASYMMETRY IN THE HIPPOCAMPUS 3609
Y. Shinohara, A. Hosoya, H. Hirase *(Wako, Japan)*

B071 **WEDN 9/7/2014, 11:15 - FENS-0130**
PER2-VENUS: A NEW TOOL TO VISUALISE THE DYNAMICS OF CIRCADIAN PROTEIN EXPRESSION IN THE BRAIN 3610
N. Smyllie, V. Pilorz, Q. Meng, J. Chesham, E. Maywood, D. Spiller, R. Boot-Handford, Manchester Associated Collaborators, A. Loudon, M. Hastings *(Cambridge, United Kingdom)*

B072 **WEDN 9/7/2014, 12:15 - FENS-2505**
INFLUENCE OF NOISE ON DYNAMICS OF A GRID CELL ATTRACTOR NETWORK MODEL WITH FEEDBACK INHIBITION 3611
L. Solanka, M.C.W. Van Rossum, M.F. Nolan *(Edinburgh, United Kingdom)*

B073 **WEDN 9/7/2014, 11:15 - FENS-3770**
INFLUENCE OF NEUROMODULATION ON HIGHLY NON-LINEAR CORTICAL DYNAMICS 3612
K. Stiefel, A.V.S. Van Schaik *(Sydney, Australia)*

B074 **WEDN 9/7/2014, 12:15 - FENS-1099**
TETRODOTOXIN-RESISTANT METABOTROPIC GLUTAMATE RECEPTOR-DEPENDENT SPONTANEOUS SLOW CALCIUM OSCILLATIONS IN STRIATAL NEURONS AND ASTROCYTE 3613
A. Tamura, N. Yamada, Y. Yaguchi, N. Homma, M. Osanai *(Sendai, Japan)*

B075 **WEDN 9/7/2014, 11:15 - FENS-2694**
GAMMA OSCILLATION COUPLING OF RETINA AND VISUAL CORTEX IN FREELY MOVING RATS 3614
M. Todorov, L. Ravasz, Z.S. Albert, R. Galambos, G. Juhász *(Budapest, Hungary)*

B076 **WEDN 9/7/2014, 12:15 - FENS-1045**
SLOW-WAVE ACTIVITY IN THE AVIAN HIPPOCAMPUS AND 'PREFRONTAL CORTEX' 3615
J. Van der Meij, N.C. Rattenborg, T.V. Smulders, G.J.L. Beckers *(Seewiesen, Germany)*

B077 **WEDN 9/7/2014, 11:15 - FENS-2590**
THE BEATS OF DIFFERENT DRUMMERS: DIFFERENTIAL PHASE RELATIONSHIPS OF HIPPOCAMPAL PATHWAYS WITH THE CORTICAL SLOW OSCILLATION 3616
T. Whitten, T. Wolansky, C.T. Dickson *(Edmonton, Canada)*

B078 **WEDN 9/7/2014, 12:15 - FENS-0633**
PARVALBUMIN-POSITIVE INTERNEURONS IN THE PREFRONTAL CORTEX SUPPORT WORKING MEMORY AND COGNITIVE FLEXIBILITY 3617
M. WoloszynowskaFraser, A.J. Murray, B. Platt, P. Wulff, G. Riedel *(Aberdeen, United Kingdom)*

B079 **WEDN 9/7/2014, 11:15 - FENS-2672**
FIRING PATTERNS AND SYNAPTIC EVENTS IN THE DEEP CEREBELLAR NUCLEI 3618
Y. Yarden, Y. Yarom *(Jerusalem, Israel)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B080 **WEDN 9/7/2014, 12:15 - FENS-0092**

ALTERATIONS OF INFRASLOW BRAIN POTENTIAL OSCILLATIONS AND EEG IN BRAIN NEUROTRANSMITTER CENTERS INDUCED BY SILVER NANOPARTICLES 3619

E. Zyuzin, A.A. Krebs, K.S. Pugachev, I.V. Filippov *(Yaroslavl, Russia)*

B61: NETWORK INTERACTIONS - OTHER

B081 **WEDN 9/7/2014, 11:15 - FENS-1029**

NON SPECIFIC THALAMOCORTICAL INPUTS INDUCE SLOW FEEDFORWARD INHIBITION AND LONG-LASTING RECURRENT EXCITATION IN CORTICAL CIRCUITS 3620

A. Hay, J. Naudé, P. Faure, B. Lambolez *(Paris, France)*

B082 **WEDN 9/7/2014, 12:15 - FENS-2336**

COGNITIVE FLEXIBILITY AND PFC/HC NETWORK: HIPPOCAMPAL ACTIVITY MODULATION BY MEDIAL PREFRONTAL CORTEX ABLATION 3621

A. Hernandez, Z. Callaerts-Vegh, T. Ahmed, D. Shah, A. Van der Linden, D. Balschun, R. D'Hooge *(Leuven, Belgium)*

B083 **WEDN 9/7/2014, 11:15 - FENS-3216**

NEURONAL MECHANISMS UNDERLYING TRANSHEMISPHERIC DIASCHISIS FOLLOWING FOCAL CORTICAL INJURY 3622

B. Imbrosci, E. Ytebrouck, L. Arckens, T. Mittmann *(Mainz, Germany)*

B084 **WEDN 9/7/2014, 12:15 - FENS-3015**

UNILATERAL AMPHTAMINE INJECTION INTO PEDUNCULOPONTINE TEGMENTAL NUCLEUS ALTERS BEHAVIORAL RESPONSE ELICITED BY CONTRALATERAL STIMULATION OF THE MESOLIMBIC SYSTEM 3623

G. Jerzemowska, K. Plucinska, K. Ptaszek, M. Podlacha *(Gdansk, Poland)*

B085 **WEDN 9/7/2014, 11:15 - FENS-1438**

ANALYSIS OF THE HUMAN CORTICAL SPONTANEOUS SYNCHRONOUS POPULATION ACTIVITY IN VITRO BASED ON MULTIMODAL EXPERIMENTS 3624

B. Kerekes, K. Tóth, A. Kaszás, B. Chiovini, G. Szalay, Z. Szadai, D. Palfi, B. Rózsa, I. Ulbert, L. Wittner *(Budapest, Hungary)*

B086 **WEDN 9/7/2014, 12:15 - FENS-2240**

UP-STATES DYNAMICS MEASURED WITH MICRO-ELECTRODE ARRAYS IN THALAMOCORTICAL SLICES FROM A MIGRAINE MOUSE MODEL 3625

A. Locarno, R. Fesce, D. Pietrobon, L. Forti *(Padova, Italy)*

B087 **WEDN 9/7/2014, 11:15 - FENS-3423**

HIPPOCAMPUS, AMYGDALA AND PREFRONTAL CORTEX: DEFINING THE CIRCUITS THAT DRIVE FEAR LEARNING AND EXTINCTION 3626

R. Marek, P. Sah *(Brisbane, Australia)*

B088 **WEDN 9/7/2014, 12:15 - FENS-2339**

GENETIC DISSECTION OF NEUROPEPTIDE-CONTROLLED SEQUENTIAL BEHAVIOR 3627

W. Mena, J. Ewer *(Valparaiso, Chile)*

B089 **WEDN 9/7/2014, 11:15 - FENS-2875**

TARGET DISTRIBUTION OF THREE DISTINCT TYPES OF GABAERGIC INTERNEURONS IN THE BASOLATERAL AMYGDALA 3628

G. Nagy, J. Veres, A. Vikor, B. Rácz, N. Hájos *(Budapest, Hungary)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

B090 **WEDN 9/7/2014, 12:15 - FENS-2824**
FEAR CONDITIONING LEADS TO A SELECTION OF CELL ASSEMBLIES IN THE LATERAL AMYGDALA 3629
R. Niu, M. Abatis, R. Stoop *(Lausanne, Switzerland)*

B091 **WEDN 9/7/2014, 11:15 - FENS-0782**
CHARACTERIZATION OF THE ANATOMICAL PATHWAY CONNECTING THE CEREBELLUM TO THE HIPPOCAMPUS 3630
P. Obiang, P. Coulon, C. Rochefort, L. Rondi-Reig *(Paris, France)*

B092 **WEDN 9/7/2014, 12:15 - FENS-0629**
A LOCAL NETWORK THEORY OF QUALIA 3631
R. Orpwood *(Bath, United Kingdom)*

B093 **WEDN 9/7/2014, 11:15 - FENS-3612**
FUNCTIONAL SUBNETWORK STRUCTURE IN THE SUBICULUM OF MICE 3632
Y. Peng, C. Boehm, N. Maier, J. Poulet, D. Schmitz, J. Geiger *(Berlin, Germany)*

B094 **WEDN 9/7/2014, 12:15 - FENS-1109**
EFFECT OF UNILATERAL MK-801 INJECTION TO THE PEDUNCULOPONTINE TEGMENTAL NUCLEUS ON BEHAVIOUR ELICITED BY CONTRALATERAL STIMULATION OF THE MESOLIMBIC SYSTEM 3633
K. Plucinska, G. Jerzemowska, A. Herman, M. Podlacha *(Gdansk, Poland)*

B095 **WEDN 9/7/2014, 11:15 - FENS-1787**
A BIOPHYSICALLY REALISTIC COMPARTMENTAL MODEL OF A THICK-TUFTED LAYER 5 PYRAMIDAL CELL 3634
F. Schuler, J. Heinzle, K.A.C. Martin *(Zurich, Switzerland)*

B096 **WEDN 9/7/2014, 12:15 - FENS-0909**
LOCAL CONNECTIVITY OF STRIATAL SOMATOSTATIN EXPRESSING INTERNEURONS 3635
G. Silberberg, M. Zhou, S.K. Tai, K. Meletis *(Stockholm, Sweden)*

B097 **WEDN 9/7/2014, 11:15 - FENS-1362**
ESCITALOPRAM INCREASES FORMATION OF D2-SST5 HETERODIMERS - IN VITRO AND EX VIVO STUDIES 3636
K. Szafran, J. Solich, A. Faron-Gorecka, M. Kolasa, M. Kusmider, D. Zurawek, M. Dziedzicka-Wasylewska *(Krakow, Poland)*

B098 **WEDN 9/7/2014, 12:15 - FENS-0644**
THE CHARACTERISTICS OF ACTION POTENTIALS IN PRIMO-VESSELS AND THE EFFECTS OF ACETYLCHOLINE INJECTION 3637
S. Yeon, S. Cho, J. Lim, O. Kwon, K. Choi, S. Choi, Y. Ryu *(Daejeon, Korea)*

C51: ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - APP AND ABETA

C001 **WEDN 9/7/2014, 11:15 - FENS-1501**
NEPRILYSIN EXPRESSION IN ADULT NEUROGENESIS AND ITS REGULATION BY Aß 3638
S. Kraft, B. Heimrich, M. Kirsch, M. Maitre, C. Klein, A.G. Mensah-Nyagan, H.D. Hofmann *(Freiburg, Germany)*

C002 **WEDN 9/7/2014, 12:15 - FENS-1023**
SIRT1 AND PIN1 INVOLVEMENT IN ALZHEIMER'S DISEASE PATHOGENESIS: IN VITRO AND IN VIVO STUDIES 3639
F. Lattanzio, L. Carboni, D. Carretta, R. Rimondini, S. Candeletti, P. Romualdi *(Bologna, Italy)*

C003 **WEDN 9/7/2014, 11:15 - FENS-3726**
EARLY LIFE STRESS IN A PRECLINICAL MODEL FOR ALZHEIMER'S DISEASE 3640
S. Lesuis, H. Maurin, P. Borghgraef, P. Lucassen, F. Van Leuven, H. Krugers *(Amsterdam, The Netherlands)*

11:15 - 13:15 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
C004	**WEDN 9/7/2014, 12:15 - FENS-3441**	
	PRESENCE OF A NEO-EPITOPE IN DEGENERATIVE HIPPOCAMPAL GRANULES OF AGED MICE	3641
	G. Manich, I. Cabezon, J. Del Valle, A. Camins, M. Pallàs, C. Pelegrí, J. Vilaplana *(Barcelona, Spain)*	
C005	**WEDN 9/7/2014, 11:15 - FENS-1616**	
	EARLY ALTERATION OF HIPPOCAMPAL NEURONAL FIRING INDUCED BY ABETA42 OLIGOMERS IN ALZHEIMER'S DISEASE	3642
	A. Marcantoni, A. Allio, A. Scarano, C. Calorio, D. Gavello, C. Franchino, V. Carabelli, H. Marie, E. Carbone *(Torino, Italy)*	
C006	**WEDN 9/7/2014, 12:15 - FENS-1908**	
	SEEDED BETA-AMYLOIDOSIS IN LONG-TERM HIPPOCAMPAL SLICE CULTURES	3643
	R. Novotny, F. Langer, Y.S. Eisele, M. Staufenbiel, M. Jucker, B. Heimrich *(Tübingen, Germany)*	
C007	**WEDN 9/7/2014, 11:15 - FENS-2329**	
	HERPES SIMPLEX TYPE-1 VIRUS (HSV-1) INFECTION INDUCES ABETA- AND GSK-3BETA-MEDIATED SYNAPTIC ALTERATIONS IN IN VITRO MOUSE CORTICAL NEURONS	3644
	R. Piacentini, D.D. Li Puma, R. Cristian, G. De Chiara, M.E. Marcocci, L. Civitelli, A.T. Palamara, C. Grassi *(Rome, Italy)*	
C008	**WEDN 9/7/2014, 12:15 - FENS-1709**	
	ALZHEIMER'S DISEASE AND RAC1 ALTERATION: A POSSIBLE INTERESTING CORRELATION	3645
	V. Pontelli, S. Bolognin, E. Lorenzetto, G. Zanusso, M. Buffelli *(Verona, Italy)*	
C009	**WEDN 9/7/2014, 11:15 - FENS-0670**	
	SELECTIVE AGONIST OF SIGMA-1 RECEPTOR PRE-084 RESCUES HIPPOCAMPAL LONG-TERM POTENTION IMPAIRED BY BETA-AMYLOID PEPTIDE	3646
	O. Popova, N. Kapay, E. Solntseva, V. Skrebitsky *(Moscow, Russia)*	
C010	**WEDN 9/7/2014, 12:15 - FENS-2831**	
	AGE-DEPENDENT UPREGULATION OF MEMBRANE-TYPE 1-MATRIX METALLOPROTEINASE (MT1-MMP) IN A MOUSE MODEL OF ALZHEIMER'S DISEASE, AND ITS EFFECT ON APP/ABETA METABOLISM	3647
	N. Py, A. Bonnet, A. Bernard, Y. Marchaland, E. Charrat, C. Bauer, F. Checler, M. Krestchatisky, K. Baranger, S. Rivera *(Marseille, France)*	
C011	**WEDN 9/7/2014, 11:15 - FENS-1592**	
	DIFFERENTIAL EFFECTS OF FRAGMENTS OF THE AMYLOID BETA PEPTIDE ON PERSISTENT LONG-TERM POTENTIATION IN THE HIPPOCAMPUS OF FREELY BEHAVING RATS	3648
	V. Reijak, D. Manahan-Vaughan *(Bochum, Germany)*	
C012	**WEDN 9/7/2014, 12:15 - FENS-2032**	
	EXCITABILITY PROPERTIES OF HIPPOCAMPAL CELLS IN A TRANSGENIC MODEL OF ALZHEIMER'S DISEASE	3649
	E. Rizzello, D. Pimpinella, C. Marchetti *(Rome, Italy)*	
C013	**WEDN 9/7/2014, 11:15 - FENS-3025**	
	ELUCIDATING THE EARLY EVENTS OF BETA-AMYLOID PEPTIDE AGGREGATION USING TARGETED AND QUANTITATIVE MASS SPECTROMETRY	3650
	A. Schmid, N. Rudinskiy, D. Demurtas, C. Fuerer, M. Moniatte *(Lausanne, Switzerland)*	
C014	**WEDN 9/7/2014, 12:15 - FENS-1015**	
	SOLUBLE FORMS OF BETA-AMYLOID DEREGULATE MICRO-RNAS AFFECTING SYNAPTIC STRUCTURE	3651
	D. Siedlecki Wullich, V. Jiménez-Rodríguez, A. Ochoa de Amezaga, J. Català Solsona, L. Rodríguez, C.A. Saura, J. Rodríguez-Álvarez, A.J. Miñano-Molina *(Barcelona, Spain)*	

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C015 **WEDN 9/7/2014, 11:15 - FENS-3134**

DIFFERENT PROCESSING OF APP C-TERMINAL FRAGMENTS WITHIN THE AMYLOIDOGENIC AND THE NON-AMYLOIDOGENIC PATHWAY 3652

G. Siegel, L. Rajendran *(Schlieren, Switzerland)*

C016 **WEDN 9/7/2014, 12:15 - FENS-3400**

ALTERATION OF BETA-SECRETASE CLEAVAGE BY AN ALZHEIMER-ASSOCIATED APP GENE MUTATION 3653

W. Song, S. Zhang, Z. Wang, M. Zhang, Y. Wu, J. Zhang, F. Cai *(Vancouver, Canada)*

C017 **WEDN 9/7/2014, 11:15 - FENS-2540**

ROLE OF INSULIN/IGF-1 IN TRKA MODULATED APP METABOLISM. IMPLICATIONS FOR AD AND METABOLIC DISEASES 3654

V. Sposato, V. Triaca, T. Ciotti, P. Calissano *(Rome, Italy)*

C018 **WEDN 9/7/2014, 12:15 - FENS-1264**

NEUROPATHOLOGICAL AND CLINICAL COMPARISON BETWEEN SPORADIC ALZHEIMER'S DISEASE AND PS1-E280A MUTATION 3655

D. Trujillo, D. Sepúlveda-Falla, H. Arboleda Granados, F. Lopera, M. Glatzel *(Bogotá, Colombia)*

C019 **WEDN 9/7/2014, 11:15 - FENS-3751**

A PAIRED RNAI AND RABGAP OVEREXPRESSION SCREEN IDENTIFIES RAB11 AS A REGULATOR OF BETA-AMYLOID PRODUCTION 3656

V. Udayar, V. Buggia-Prévot, R.L. Guerreiro, M.A. Puthenveedu, J. Hardy, G. Thinakaran, L. Rajendran *(Schlieren, Switzerland)*

C020 **WEDN 9/7/2014, 12:15 - FENS-1718**

THE B-AMYLOID PROGRESSION EFFECT ON THE PROTEOME AND FUNCTION OF THE SYNAPTIC AND NON-SYNAPTIC MITOCHONDRIA IN APP/PS1 MICE BRAIN 3657

K. Völgyi, K. Háden, P. Gulyássy, A. Simor, B. Györffy, K.A. Kékesi, V. Kis, E.A. Tóth, T. Janáky, B. Penke, L. Drahos, L. Tretter, A. Dobolyi, G. Juhász *(Budapest, Hungary)*

C021 **WEDN 9/7/2014, 11:15 - FENS-2966**

MODELLING THE EFFECT OF INTRACELLULAR BETA-AMYLOID OLIGOMERS ON HIPPOCAMPAL CA1 NEURONS IN ALZHEIMER'S DISEASE 3658

J. Warburton, D.J. Whitcomb, K. Tsaneva-Atanasova, K. Cho *(Bristol, United Kingdom)*

C022 **WEDN 9/7/2014, 12:15 - FENS-3018**

MODULATING THE TRAFFICKING OF ENDOSOMAL BETA-AMYLOID/APP TO ELUCIDATE ITS EFFECT ON SYNAPSES IN ALZHEIMER'S DISEASE 3659

K. Willén, G.K. Gouras *(Lund, Sweden)*

C52: ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - CELLULAR DYSFUNCTION MECHANISMS

C023 **WEDN 9/7/2014, 11:15 - FENS-0794**

SAP97 DRIVES ADAM10 FROM GOLGI OUTPOSTS TO THE SYNAPSE THROUGH A PKC-DEPENDENT PHOSPHORYLATION PROCESS 3660

E. Marcello, C. Saraceno, D. Di Marino, S. Musardo, S. Pelucchi, B. Borroni, A. Padovani, A. Tramontano, F. Gardoni, M. Di Luca *(Milano, Italy)*

C024 **WEDN 9/7/2014, 12:15 - FENS-1957**

MOLECULAR AND BEHAVIORAL EFFECTS OF AMYLOID-BETA IN THE HIPPOCAMPUS 3661

J. Mayordomo, J.D. Navarro-López, A. Gruart, J.M. Delgado-García, J. Yajeya, L. Jiménez-Díaz *(Ciudad Real, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C025 **WEDN 9/7/2014, 11:15 - FENS-2322**
WHEN ARC MEETS ABETA: ACTIVITY-DEPENDENT SYNAPTIC ALTERATIONS IN A MOUSE MODEL OF ALZHEIMER DISEASE 3662
S. Middei, A. Pignataro, C. Giorgi, M. Ammassari-Teule *(Rome, Italy)*

C026 **WEDN 9/7/2014, 12:15 - FENS-0960**
AMYLOID-BETA DEPRESSES GIRK CONDUCTANCE IN THE FIMBRIA-CA3 HIPPOCAMPAL SYNAPSE 3663
J. Navarro-Lopez, M.O. Nava-Mesa, J. Yajeya, L. Jimenez-Diaz *(Ciudad Real, Spain)*

C027 **WEDN 9/7/2014, 11:15 - FENS-0999**
CHRONIC INFLAMMATION IMPAIRS THE REGENERATIVE CAPACITY OF THE LOCUS COERULEUS: RELEVANCE FOR AD-LIKE PATHOGENESIS 3664
T. Notter, J.M. Fritschy, I. Knuesel *(Zurich, Switzerland)*

C028 **WEDN 9/7/2014, 12:15 - FENS-2603**
ENDOPLASMIC RETICULUM, MITOCHONDRIA AND CROSSTALK BETWEEN CA2+ AND ROS IN THE SYNAPTIC DYSFUNCTION TRIGGERED BY AMYLOID-BETA PEPTIDE OLIGOMERS 3665
A. Paula-Lima, P. Barattini, C.D. SanMartín, C. Hidalgo *(Santiago, Chile)*

C029 **WEDN 9/7/2014, 11:15 - FENS-2375**
CAP2, A REGULATOR OF ACTIN FILAMENT DYNAMIC, IS A NOVEL ADAM10 INTERACTOR 3666
S. Pelucchi, S. Musardo, M. Passafaro, F. Gardoni, E. Marcello, M. Di Luca *(Milano, Italy)*

C030 **WEDN 9/7/2014, 12:15 - FENS-1675**
TRANSGENIC DROSOPHILA FOR AN AMYLODOGENIC MUTATION IN CYSTATIN C UPREGULATE DEFENSE MECHANISMS 3667
P.H. Petersen *(Reykjavik, Iceland)*

C031 **WEDN 9/7/2014, 11:15 - FENS-1990**
EARLY ALTERATIONS OF THE CORTICAL PYRAMIDAL CELLS IN THE 3XTG-AD MOUSE MODEL OF ALZHEIMER'S DISEASE 3668
J. Piquet, A. Lacroix, X. Toussay, E. Faivre, J. Le Douce, R. Lerchundi, R. Hepp, G. Bonvento, B. Cauli *(Paris, France)*

C032 **WEDN 9/7/2014, 12:15 - FENS-2843**
AMYLOID-BETA IMPAIRS SECRETION OF PEPTIDERGIC VESICLES IN NEURONS AND ASTROCYTES 3669
V. Plá Requena, V. Fagetti, E. Pozas, F. Aguado *(Barcelona, Spain)*

C033 **WEDN 9/7/2014, 11:15 - FENS-2030**
OXIDATIVE DAMAGE AND ANTIOXIDANT ENZYME EXPRESSION AND LOCALIZATION IN THE NEOCORTEX OF TG2576 MICE DURING THE PROGRESSION OF ALZHEIMER PATHOLOGY 3670
S. Porcellotti, F. Fanelli, A. Fracassi, S. Sepe, M.P. Cerù, S. Moreno *(Rome, Italy)*

C034 **WEDN 9/7/2014, 12:15 - FENS-2126**
HYPERTROPHY OF S100ß-POSITIVE ASTROCYTIC PROFILES IN THE MOUSE MODEL OF ALZHEIMER'S DISEASE 3671
J. Rodríguez Arellano, S. Terzieva, C.Y. Yeh, A. Verkhratsky *(Bilbao, Spain)*

C035 **WEDN 9/7/2014, 11:15 - FENS-0593**
DIFFERENTIAL DEREGULATION OF ASTROCYTIC CALCIUM SIGNALLING BY AMYLOID-BETA, TNF-ALPHA, IL-1BETA AND LPS 3672
V. Ronco, A.A. Grolla, T.N. Glasnov, P.L. Canonico, A. Verkhratsky, A.A. Genazzani, D. Lim *(Novara, Italy)*

C036 **WEDN 9/7/2014, 12:15 - FENS-0304**
THE ENHANCED ACTIVITY OF L-TYPE VOLTAGE-GATED AND STORE-OPERATED CALCIUM CHANNELS UNDER THE WRONG ER CONTROL IN FAMILIAL ALZHEIMER'S DISEASE 3673
M. Ryazantseva, K. Skobeleva, E. Kaznacheyeva *(St. Petersburg, Russia)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C037 **WEDN 9/7/2014, 11:15 - FENS-2408**

AMYLOID-BETA PEPTIDE DYSREGULATES TRKB RECEPTORS AND BDNF FUNCTION BY A CALPAIN-DEPENDENT MECHANISM 3674

A. Santos, S.H. Vaz, V. Buée-Scherrer, E. Castrén, C.A. Valente, D. Blum, A.M. Sebastião, M.J. Diógenes *(Lisboa, Portugal)*

C038 **WEDN 9/7/2014, 12:15 - FENS-2972**

SOLUBLE EPOXIDE HYDROLASE MODULATES ASTROCYTIC IMMUNE RESPONSES IN ALZHEIMER'S DISEASE 3675

F. Shie, Y.H. Lee, P.C. Hsu, T.S. Lee, H.J. Tsay *(Miaoli, Taiwan)*

C039 **WEDN 9/7/2014, 11:15 - FENS-0219**

AMYLOID-BETA-INDUCED IMPAIRMENT IN HIPPOCAMPAL SYNAPTIC PLASTICITY IS RESCUED BY MITOCHONDRIA-TARGETED PLASTOQUINONE ANTIOXIDANT SKQ1 3676

V. Skrebitsky, N.A. Kapay, O.V. Popova, R.V. Kondratenko, N.K. Isaev, D.B. Zorov, V.P. Skulachev *(Moscow, Russia)*

C040 **WEDN 9/7/2014, 12:15 - FENS-2168**

ADULT NEUROGENESIS IN STREPTOZOTOCIN INTRACEREBROVENTRICULARLY TREATED RATS, AN ANIMAL MODEL OF SPORADIC ALZHEIMER'S DISEASE 3677

P. Sun, A. Knezovic, M. Parlak, M. Lee, P. Riederer, M. Salkovic-Petrisic, A. Schmitt *(Würzburg, Germany)*

C041 **WEDN 9/7/2014, 11:15 - FENS-2229**

BETA-AMYLOID DISRUPTS CYTOSKELETAL STABILITY AND NEURONAL POLARITY 3678

H. Tsushima, F. Difato, E. Chieregatti *(Genoa, Italy)*

C042 **WEDN 9/7/2014, 12:15 - FENS-0310**

KNOCKDOWN OF CYTOCHROME C OXIDASE SUBUNIT 4 CAUSES COGNITIVE DEFICITS AND IMPAIRED CLUSTERING OF GEPHYRIN, AN ORGANIZER OF GABAERGIC SYNAPSES 3679

H. Volkmer, J. Ebel, M. Kriebel, N. Taub, E. Auer, R. Wronski *(Reutlingen, Germany)*

C043 **WEDN 9/7/2014, 11:15 - FENS-0603**

IMPACT OF MITOCHONDRIAL DNA VARIATIONS ON DENDRITIC SPINES IN A MOUSE MODEL OF BETA-AMYLOIDOSIS 3680

O. Von Bohlen und Halbach, M. Krohn, J. Pahnke, A. Bracke *(Greifswald, Germany)*

C044 **WEDN 9/7/2014, 12:15 - FENS-1022**

DENDRITIC IMPULSE PROPAGATION IS ALTERED IN LAYER II/III NEOCORTICAL PYRAMIDAL NEURONS OF HUMAN AMYLOID PRECURSOR PROTEIN OVEREXPRESSING TRANSGENIC (TG2576) MICE 3681

E. Wolf, A. Somogyi, Z. Katonai *(Debrecen, Hungary)*

C045 **WEDN 9/7/2014, 11:15 - FENS-1613**

TWO DISTINCT PATHWAYS TRIGGER CONNEXIN AND PANNEXIN HEMICHANNEL ACTIVITY IN ASTROCYTES OF A MURINE MODEL OF ALZHEIMER'S DISEASE 3682

C. Yi, C. Giaume, A. Koulakoff *(Paris, France)*

C046 **WEDN 9/7/2014, 12:15 - FENS-2814**

EFFECTS OF ACQUIRED SEIZURES ON ALZHEIMER'S DISEASE (AD)-LIKE PATHOLOGY IN MOUSE MODELS OF FAMILIAL AND SPORADIC AD 3683

M. Zaichuk, T. Gschwind, I. Knüsel, J.M. Fritschy *(Zürich, Switzerland)*

C047 **WEDN 9/7/2014, 11:15 - FENS-0071**

CELLULAR MECHANISMS OF AMYLOID-BETA -INDUCED DEGRADATION OF HIPPOCAMPAL GAMMA OSCILLATIONS 3684

M. Zilberter, F.R. Kurudenkandy, H. Biverstål, J. Presto, R. Strömberg, J. Johansson, A. Fisahn *(Stockholm, Sweden)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C53: PARKINSON'S DISEASE - HUMAN STUDIES AND THERAPIES

C048 **WEDN 9/7/2014, 12:15 - FENS-0119**

THYMOQUINONE PROTECTS CULTURED HIPPOCAMPAL AND HUMAN INDUCED PLURIPOTENT STEM CELLS-DERIVED NEURONS AGAINST ALPHA-SYNUCLEIN-INDUCED SYNAPSE DAMAGE 3685

A. Alhebshi, M. Gotoh, I. Suzuki *(Tokyo, Japan)*

C049 **WEDN 9/7/2014, 11:15 - FENS-3068**

HUMAN IPS CELL-DERIVED DOPAMINERGIC NEURONS REVEAL ROLE FOR D3R AND MTOR IN INDUCTION OF STRUCTURAL PLASTICITY BY ANTIPARKINSON DA AGONISTS 3686

G. Collo, L. Cavalleri, F. Bono, S. Fedele, M. Gennarelli, G. Piovani, M.J. Millan, T. Kunath, V. Taylor, P.F. Spano *(Brescia, Italy)*

C050 **WEDN 9/7/2014, 12:15 - FENS-0124**

THE ORIGIN OF PARKINSON'S DISEASE TREMOR 3687

C. Duval, J.F. Daneault, A.F. Sadikot *(Montreal, Canada)*

C051 **WEDN 9/7/2014, 11:15 - FENS-2237**

NEUROANATOMICAL CHANGES IN THE HUMAN AMYGDALA AND HIPPOCAMPUS IN PARKINSON'S DISEASE. 3688

A. Flores-Cuadrado, I. Ubeda-Bañon, D. Saiz-sanchez, C. De la Rosa-Prieto, A. Martinez-Marcos *(Ciudad Real, Spain)*

C052 **WEDN 9/7/2014, 12:15 - FENS-2473**

THE WAY HOW VARIOUS COGNITIVE TASKS ON THE ACTIVITY OF SUBTHALAMIC NUCLEI AND UPPER LIMB TREMOR 3689

K. Horváth, I. Balás, I. Hernádi, G. Deli, N. Kovács *(Pécs, Hungary)*

C053 **WEDN 9/7/2014, 11:15 - FENS-1363**

CIRCULATING LEVELS OF ADIPOKINES IN PARKINSON'S DISEASE 3690

H. Reis, P.L. Scalzo, I.G. Barbosa, M.S. Souza, I.B. Morato, E.L.M. Vieira, P.P. Christo, A.L. Teixeira, N.P. Rocha *(Belo Horizonte, Brazil)*

C054 **WEDN 9/7/2014, 12:15 - FENS-0259**

LEVODOPA-INDUCED ADVERSE EFFECTS AND GENETIC VARIANTS IN ADORA2A GENE IN PARKINSON'S DISEASE 3691

M. Rieck, A.F.S. Schuh, V. Altmann, C.R.M. Rieder, M.H. Hutz *(Porto Alegre, Brazil)*

C055 **WEDN 9/7/2014, 11:15 - FENS-2577**

THE HIGH-RISK GG ALLELE IN HLA-DRA ASSOCIATED WITH PARKINSON'S RISK IS A BIOMARKER OF IMMUNE HYPER-RESPONSIVENESS IN ANTIGEN PRESENTING CELLS 3692

M. Tansey, G.T. Kannarkat, D.A. Cook, J. Chang, J. Chung, J.K. Lee, E. Sandy, E. Sperin, S. Factor, J.M. Boss *(Atlanta, USA)*

C056 **WEDN 9/7/2014, 12:15 - FENS-1472**

A STUDY IN HUMAN FETUS BRAIN WITH TYROSINE HYDROXYLASE DEFICIENCY 3693

A. Tristán Noguero, C. Ortez, H. Díez, A. Ormazábal, M. Pineda, R. Artuch, A. García-Cazorla *(Esplugues Llobregat, Spain)*

C057 **WEDN 9/7/2014, 11:15 - FENS-2531**

GENERATION OF IPS CELLS FROM FIBROBLASTS OF PATIENTS HAVING PARKINSON'S DISEASE WITH GBA MUTATIONS 3694

C. Vicario Abejón, E. Rodríguez-Traver, E. Díaz-Guerra, F. Arenas, P. García-Sanz, J. Pignatelli, J. Kulisevsky, R. Moratalla *(Madrid, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C54: PARKINSON'S DISEASE - ANIMAL MODELS

C058 **WEDN 9/7/2014, 12:15 - FENS-0963**

EFFECTS OF BERBERINE ON 6-HYDROXYDOPAMINE-INDUCED NEUROTOXITY IN RAT MODEL OF PARKINSON'S DISEASE 3695

A.C.L. Nunes, P.M.G. Canas, M.R.S. Carmo, F.M.Q. Gonçalves, D. Pochmann, J.C.S. Neves, A.P. Fontenele, C.M. Souza, C. Palmeira, R.A. Cunha, G.M. Andrade *(Fortaleza, Brazil)*

C059 **WEDN 9/7/2014, 11:15 - FENS-1409**

EARLY TREATMENT WITH LEVODOPA DELAYS TIME OF ONSET AND CO-TREATMENT WITH RAPAMYCIN SUPRESSES LEVODOPA-INDUCED DYSKINESIA IN 6-HYDROXYDOPAMINE LESIONED RATS 3696

J. Okarmus, M. Masoumi, J.B. Gramsbergen *(Odense C, Denmark)*

C060 **WEDN 9/7/2014, 12:15 - FENS-2574**

ELTOPRAZINE ATTENUATES L-DOPA INDUCED DYSKINESIA ALONG WITH GABA AND GLUTAMATE RELEASE IN RAT SUBSTANTIA NIGRA 3697

P. G. Paolone, L. Arcuri, A. Brugnoli, M. Morari *(Ferrara, Italy)*

C061 **WEDN 9/7/2014, 11:15 - FENS-3316**

A-SYNUCLEIN STRAINS SHOW DISTINCT NEUROTOXIC PROPERTIES IN VIVO 3698

W. Peelaerts, L. Bousset, A. Van Der Perren, R. Melki, V. Baekelandt *(Leuven, Belgium)*

C062 **WEDN 9/7/2014, 12:15 - FENS-3722**

GLUCAGON LIKE PEPTIDE-1 AGONIST, EXENATID REVERSES BEHAVIORAL DEFICITS FOLLOWING ROTENON INDUCED PARKINSON'S DISEASE IN THE RAT 3699

G. Peker, V. Solmaz, T. Cavusoglu, O. Sumbul, D. Aksoy, O. Erbas *(Izmir, Turkey)*

C063 **WEDN 9/7/2014, 11:15 - FENS-3632**

HUMAN NEURAL STEM CELL THERAPY IN EXPERIMENTAL PARKINSON'S DISEASE: INFLUENCE OF THE RECIPIENT'S AGE ON THE OUTCOME 3700

M. Pereira, A. Nelke, B. Moreno, S. Garcia-Lopez, M. Ramos, A. Martinez-Serrano *(Madrid, Spain)*

C064 **WEDN 9/7/2014, 12:15 - FENS-0786**

NOVEL THERAPEUTIC STRATEGY FOR THE CONTROL OF DYSKINESIA IN THE THERAPY OF PARKINSON'S DISEASE 3701

A. Pinna, G. Costa, N. Simola, L. Frau, E. Tronci, M. Carta, M. Morelli *(Cagliari, Italy)*

C065 **WEDN 9/7/2014, 11:15 - FENS-3427**

LATE-ONSET PARKINSONISM AND PREMOTOR PATHOLOGY IN NF-KB/C-REL-DEFICIENT MICE 3702

M. Pizzi, C. Baiguera, A. Pinna, A. Bellucci, M.A. De Luca, L. Frau, M. Morelli, R. Ingrassia, M. Benarese, A. Porrini, A. Lanzillotta, M. Pellitteri, G. Bertini, P.F. Fabene, M.G. Spillantini, H.C. Liou, P.F. Spano *(Brescia, Italy)*

C066 **WEDN 9/7/2014, 12:15 - FENS-1997**

EFFICACY OF RASAGILINE ON PROGRESSIVE DOPAMINE NEURON DEGENERATION AND NEUROINFLAMMATION IN A CHRONIC MPTPP MODEL OF PARKINSON'S DISEASE 3703

P. Porceddu, A. Pinna, L. Frau, M. Morelli *(Cagliari, Italy)*

C067 **WEDN 9/7/2014, 11:15 - FENS-3116**

ROSTROCAUDAL DISTRIBUTION OF NEUROREGENERATIVE CHANGES AFTER COMBINED ADMINISTRATION OF VEGF AND GDNF IN A PARTIAL LESION MODEL OF PARKINSON'S DISEASE 3704

C. Requejo Rodríguez, A. García-Blanco, E. Herrán, A. Aristieta, J.A. Ruiz-Ortega, M. Igartua, L. Ugedo, J.L. Pedraz, R.M. Hernández, J.V. Lafuente *(Leioa, Vizcaya, Spain, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C068 **WEDN 9/7/2014, 12:15 - FENS-3438**

LIMITING GLUTAMATE TRANSMISSION IN A VGLUT2-EXPRESSING SUBPOPULATION OF THE SUBTHALAMIC NUCLEUS IN MICE IS SUFFICIENT TO CAUSE HYPERLOCOMOTION 3705

N. Schweizer, S. Pupe, E. Arvidsson, K. Nordenankar, C.J.A. Smith, S. Mahmoudi, A. Andrén, R.N. Leao, D. Lévesque, A. Wallén-Mackenzie *(Uppsala, Sweden)*

C069 **WEDN 9/7/2014, 11:15 - FENS-1552**

AGING-RELATED MILD GENOMIC INSTABILITY PERTURBS THE DOPAMINERGIC SYSTEM AND ELICITS SALIENT FEATURES OF PARKINSON'S DISEASE PATHOLOGY 3706

S. Sepe, C. Milanese, S. Gabriels, K. Derks, C. Payan Gomez, G. Battaglia, A. Niggs, F. Blandini, J.H. Hoeijmakers, P.G. Mastroberardino *(Rotterdam, The Netherlands)*

C070 **WEDN 9/7/2014, 12:15 - FENS-2187**

HIGH FREQUENCY ELECTRICAL STIMULATION OF THE SUBTHALAMIC NUCLEUS EXCITES TARGET STRUCTURES IN A MODEL USING C-FOS IMMUNOHISTOCHEMISTRY 3707

S. Shehab, C. D'souza, M. Ljubisavljevic, P. Redgrave *(Al-Ain, United Arab Emirates)*

C071 **WEDN 9/7/2014, 11:15 - FENS-1630**

NEUROPROTECTIVE EFFECT OF ESTROGENS IN A MURINE MODEL OF PARKINSON'S DISEASE 3708

F. Siani, G. Levandis, R. Greco, G. Ambrosi, C. Ghezzi, S. Cerri, F. Daviddi, M.T. Armentero, F. Blandini *(Pavia, Italy)*

C072 **WEDN 9/7/2014, 12:15 - FENS-2279**

OLFACTION INVOLVEMENT IN A MURINE MODEL OF PARKINSON DISEASE 3709

M. Simonetto, M.J. Ricatti, M. Redaelli, C. Mucignat *(Padova, Italy)*

C073 **WEDN 9/7/2014, 11:15 - FENS-1880**

LIVER X RECEPTORS ACTIVATION, THROUGH TO901317 BINDING, DECREASES NEUROINFLAMMATION IN PARKINSON'S DISEASE 3710

R. Siracusa, M. Campolo, I. Paterniti, M. Cordaro, R. Di Paola, C. Cornelius, M. Navarra, S. Cuzzocrea, E. Esposito *(Messina, Italy)*

C074 **WEDN 9/7/2014, 12:15 - FENS-1823**

RAS-GRF1 BUT NOT RAS-GRF2 STRIATAL MANIPULATION ATTENUATES L-DOPA INDUCED DYSKINESIA 3711

N. Solari, S. Bido, M. Indrigo, R. Brambilla, M. Morari, S. Fasano *(Milano, Italy)*

C075 **WEDN 9/7/2014, 11:15 - FENS-3568**

NOS INHIBITION ATTENUATES DEVELOPMENT AND EXPRESSION OF DYSKINESIAS IN THE PITX3-/- MICE MODEL OF PARKINSON'S DISEASE 3712

O. Solis, I. Espadas, R. Moratalla *(Madrid, Spain)*

C076 **WEDN 9/7/2014, 12:15 - FENS-2907**

RESPIRATORY IMPAIREMENT IN A RAT MODEL OF PARKINSON DISEASE 3713

A. Takakura, M.T. Cavalleri, B.F. Barna, T.S. Moreira *(São Paulo, Brazil)*

C077 **WEDN 9/7/2014, 11:15 - FENS-3258**

THE ROLE OF GEMININ IN THE FATE OF ADULT NEURAL STEM CELLS TRANSPLANTED IN A PARKINSONIAN MOUSE MODEL 3714

I. Taouki, E. Tasioudi, E. Skavatsou, A. Mitsacos, P. Giompres, S. Taraviras *(Patras, Greece)*

C078 **WEDN 9/7/2014, 12:15 - FENS-0695**

CIRCADIAN SYNCHRONIZATION IS ABSENT IN PARKINSON'S DISEASE MODELS WITH MITOCHONDRIAL DYSFUNCTION 3715

J. Valadas, G. Esposito, P. Verstreken *(Leuven, Belgium)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C079 **WEDN 9/7/2014, 11:15 - FENS-1670**

CHRONIC L-DOPA RESTORES HIPPOCAMPAL DYSFUNCTION IN PARKINSON'S DISEASE: ROLE OF THE NORADRENERGIC SYSTEM IN THE DENTATE GYRUS. 3716

A. Vannelli, V. Pendolino, V. Bagetta, V. Ghiglieri, E. Latagliata, T. Pascucci, S. Puglisi-Allegra, P. Calabresi, B. Picconi *(Rome, Italy)*

C080 **WEDN 9/7/2014, 12:15 - FENS-3630**

LOSS OF F-BOX ONLY PROTEIN 7 TRIGGERS EARLY-ONSET MOTOR DYSFUNCTION IN MICE 3717

S. Vingill, D. Brockelt, N. Schwedhelm-Domeyer, J. Stegmüller *(Göttingen, Germany)*

C55: REPEAT EXPANSION DISEASES - OTHERS

C082 **WEDN 9/7/2014, 12:15 - FENS-2117**

FMR1 INTRON 1 METHYLATION ANALYSIS: AN EPIGENETIC BIOMARKER FOR COGNITIVE IMPAIRMENT IN FMR1 EXPANSION CARRIERS 3718

M. Arpone, X. Li, L. Bretherton, Q.M. Bui, J. Elliot, C. Dissanayake, D. Amor, H. Slater, D. Godler *(Melbourne, Australia)*

C083 **WEDN 9/7/2014, 11:15 - FENS-1691**

THE PROGESTIN DESOGESTREL AUGMENTS PHOX2B TRANSCRIPTIONAL ACTIVITY: NEW THERAPEUTICAL APPROACHES IN CONGENITAL CENTRAL HYPOVENTILATION SYNDROME (CCHS) 3719

R. Benfante, S. Di Lascio, V. Corlianò, D. Fornasari *(Milan, Italy)*

C084 **WEDN 9/7/2014, 12:15 - FENS-0591**

HUMANIZED ATAXIN-3 KNOCK-IN MOUSE RECAPITULATES THE GENETIC FEATURES AND SCA3/MJD PATHOGENESIS OF NEURONS AND GLIA 3720

M. Figiel, P.M. Switonski, W.J. Krzyzosiak *(Poznan, Poland)*

C085 **WEDN 9/7/2014, 11:15 - FENS-2654**

ABNORMALITIES OF METABOTROPIC GLUTAMATE RECEPTOR (MGLUR)-MEDIATED SIGNALING AT CEREBELLAR PARALLEL FIBER-PURKINJE CELL SYNAPSES IN SPINOCEREBELLAR ATAXIA TYPE 1 (SCA1) MODEL MICE 3721

N. Hosoi, H. Hirai *(Maebashi, Japan)*

C086 **WEDN 9/7/2014, 12:15 - FENS-0692**

HMGB1 MODULATES THE PATHOGENESIS OF SCA17 THROUGH REDOX AND AUTOPHAGY SIGNALING PATHWAYS 3722

L. Lee, W. Wang, S. Su, C. Chang, L. Lee-Chen *(Taipei, Taiwan)*

C087 **WEDN 9/7/2014, 11:15 - FENS-0164**

THE ROLE OF GLIA IN THE PATHOGENESIS OF THE ATAXIC SYNDROME DENTATORUBROPALLIDOLUYSIAN ATROPHY (DRPLA) 3723

D. Mazaud, M. Fanto *(London, United Kingdom)*

C088 **WEDN 9/7/2014, 12:15 - FENS-1147**

MUSCARINIC LONG TERM DEPRESSION AND RESCUING STRATEGIES IN A MOUSE MODEL OF FRAGILE X SYNDROME 3724

D. Neuhofer, O. Lassalle, P.W. Gean, O. Manzoni *(Marseille, France)*

C089 **WEDN 9/7/2014, 11:15 - FENS-0425**

MOLECULAR MECHANISM OF ATAXIN-1 PROTEIN AGGREGATION IN THE POLYGLUTAMINE DISEASE SCA1 3725

S. Petrakis, M.H. Schaefer, M.A. Andrade-Navarro, E.E. Wanker *(Thessaloniki, Greece)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C090 **WEDN 9/7/2014, 12:15 - FENS-1071**

DIFFERENTIAL EXPRESSION OF PROTEIN QUALITY CONTROL GENES IN SPINAL CORD AND MUSCLE OF SPINAL AND BULBAR MUSCULAR ATROPHY MICE MODEL 3726

P. Rusmini, E. Giorgetti, V. Crippa, A. Boncoraglio, R. Cristofani, M. Pennuto, A. Poletti *(Milano, Italy)*

C091 **WEDN 9/7/2014, 11:15 - FENS-3030**

SCA1 GENE MUTATION IDENTIFIED IN A MALE PATIENT WITH TOURETTE SYNDROME AND OBSESSIVE-COMPULSIVE DISORDER 3727

H. Sarac, V. Sulentic *(Zagreb, Croatia)*

C092 **WEDN 9/7/2014, 12:15 - FENS-0638**

NEURONAL TOXICITY OF THE ALS/FTD-LINKED GGGGCC REPEAT EXPANSIONS WITHIN THE C9ORF72 GENE 3728

X. Wen, W. Tan, K. Krishnamurthy, L. Petrucelli, P. Pasinelli, D. Trotti *(Philadelphia, USA)*

C56: MOTOR NEURON DISEASES

C093 **WEDN 9/7/2014, 11:15 - FENS-1189**

EARLY MOTOR IMPAIRMENTS IN SOD1 MICE ARE RELIABLY DETECTED VIA HOME-CAGE VOLUNTARY WHEEL-RUNNING: EFFECT OF EXERCISE AND COMPARISON WITH ROTAROD 3729

S. Mandillo, L. Garbugino, I. Heise, E. Golini, S. Maggi, G.P. Tocchini-Valentini, V. Tucci, P.M. Nolan *(Monterotondo scalo, Italy)*

C094 **WEDN 9/7/2014, 12:15 - FENS-2545**

CSF1R CONTRIBUTES TO MICROGLIOSIS AND DISEASE PROGRESSION IN AMYOTROPHIC LATERAL SCLEROSIS 3730

A. Martínez Muriana, R. Mancuso, I. Francos-Quijorna, A. Olmos-Alonso, X. Navarro, V. Perry, D. Gómez-Nicola, R. López-Vales *(Bellaterra, Spain)*

C095 **WEDN 9/7/2014, 11:15 - FENS-2074**

MGLUR1 AND MGLUR5 KNOCK-DOWN IMPROVES SURVIVAL, MOTOR SKILLS AND DISEASE PROGRESSION IN AMYOTROPHIC LATERAL SCLEROSIS MOUSE MODEL 3731

M. Milanese, T. Bonifacino, M. Melone, F. Giribaldi, I. Musante, L. Vergani, A. Puliti, F. Conti, G. Bonanno *(Genova, Italy)*

C096 **WEDN 9/7/2014, 12:15 - FENS-2592**

PHOSPHORYLATION OF TDP-43 IS ASSOCIATED WITH TDP-43 INSOLUBILITY AND CAUSES THE NEURODEGENERATION IN MOUSE SPINAL CORD 3732

M. Nagai, A. Kawanami, T. Nihira, Y. Mizuno, K. Nishiyama *(Sagamihara, Japan)*

C097 **WEDN 9/7/2014, 11:15 - FENS-1445**

IMMUNOPROTEASOME INDUCTION AND LOCAL MHC CLASS I MOLECULES PRESENTATION IN MOTOR NEURONS OF A FAMILIAL ALS MOUSE MODEL 3733

G. Nardo, C. Bendotti *(Milan, Italy)*

C098 **WEDN 9/7/2014, 12:15 - FENS-0321**

ENERGY SUBSTRATES PROTECT SPINAL MOTOR NEURONS FROM DEGENERATION INDUCED BY EXCITOTOXICITY IN VIVO 3734

P.C. Netzahualcoyotzi, R. Tapia *(Mexico, Mexico)*

C099 **WEDN 9/7/2014, 11:15 - FENS-2216**

INHIBITION OF EXTRACELLULAR CYCLOPHILIN A AS A POSSIBLE THERAPEUTIC TARGET FOR AMYOTROPHIC LATERAL SCLEROSIS 3735

L. Pasetto, S. Pozzi, M. Castelnovo, M. Tortarolo, G. Fischer, M. Maleevic, C. Bendotti, V. Bonetto *(Milano, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C100 **WEDN 9/7/2014, 12:15 - FENS-3556**

PROTEIN ARGININE METHYLTRANSFERASE 6 IS A MODIFIER OF POLYGLUTAMINE-EXPANDED ANDROGEN RECEPTOR TOXICITY IN SPINAL AND BULBAR MUSCULAR ATROPHY 3736

M. Pennuto, C. Scaramuzzino, I. Casci, S. Parodi, P. Lievens, C. Milioto, F.O. Fackelmayer, J.P. Taylor, U.B. Pandey *(Trento, Italy)*

C101 **WEDN 9/7/2014, 11:15 - FENS-1509**

CELLULAR AND MOLECULAR CHANGES INVOLVED IN MOTONEURON DEGENERATION CAUSED BY SURVIVAL MOTOR NEURON PROTEIN REDUCTION 3737

A. Periyakaruppiah, S. Arumugam, N. Bahi, A. Garcera, R.M. Soler *(Lleida, Spain)*

C102 **WEDN 9/7/2014, 12:15 - FENS-2086**

THE ENTORHINO-HIPPOCAMPAL NEURONS OF PRE-SYMPTOMATIC SOD1(G93A) MICE 3738

E. Quarta, R. Bravi, E.J. Cohen, M. Franchini, D. Minciacchi *(Florence, Italy)*

C103 **WEDN 9/7/2014, 11:15 - FENS-3324**

RNA METABOLISM AND MITOCHONDRIAL FUNCTIONALITY IN FIBROBLASTS FROM FAMILIAL ALS PATIENTS 3739

A. Ratti, C. Colombrita, E. Onesto, V. Gumina, D. Capitanio, O. Borghi, F. Sassone, J. Sassone, C. Gelfi, V. Silani *(Milano, Italy)*

C104 **WEDN 9/7/2014, 12:15 - FENS-1124**

CHEMOGENETICS AND HIGH-SENSITIVITY PERFORMANCE TEST REVEAL NEW EXCITATION-DEPENDENT AND INTRINSIC VULNERABILITY MECHANISMS IN ALS MOUSE MODEL 3740

F. Roselli, P. Caroni *(Basel, Switzerland)*

C105 **WEDN 9/7/2014, 11:15 - FENS-2639**

DEVELOPING INNOVATIVE NEUROPROTECTIVE AGENTS FOR THE TREATMENT OF SPINAL MUSCULAR ATROPHY 3741

D. Rossi, F. Martorana, G. Guidotti, L. Brambilla *(Pavia, Italy)*

C106 **WEDN 9/7/2014, 12:15 - FENS-3099**

ALTERED STRESS GRANULE ASSEMBLY IN CULTURED FIBROBLASTS FROM ALS PATIENTS CARRYING A TARDBP MUTATION 3742

V. Sogos, C. Brancia, P. Coni, A. Floris, I. Bellini, S. Orrù *(Monserrato, Italy)*

C107 **WEDN 9/7/2014, 11:15 - FENS-1093**

TDP-43 DISRUPTS ER-MITOCHONDRIA ASSOCIATIONS 3743

R. Stoica, S. Paillusson, C.C. Miller *(London, United Kingdom)*

C108 **WEDN 9/7/2014, 12:15 - FENS-2937**

MICRORNAS IN ALS: FROM MOLECULAR MECHANISMS TO CLINICAL RELEVANCE 3744

L. Tremolizzo, A. Loffreda, A. Arosio, C. Lunetta, C. Ferrarese, S. Barabino *(Milan, Italy)*

C109 **WEDN 9/7/2014, 11:15 - FENS-3123**

METABOLOMIC APPROACH ON AN IN VITRO MODEL OF AMYOTROPHIC LATERAL SCLEROSIS: AN ASTROCYTES AND MOTONEURONS CO-CULTURE EXPOSED TO OXIDATIVE STRESS 3745

C. Veyrat-Durebex, P. Corcia, P. Emond, A. Dangoumau, P. Vourc'h, E. Piver, F. Laumonnier, A. Jonneaux, D. Devos, P. Marchetti, C.R. Andres, G. Garçon, H. Blasco *(Tours, France)*

C110 **WEDN 9/7/2014, 12:15 - FENS-0525**

GENE EXPRESSION PROFILING IN MOTOR NEURONS IN A MODEL OF AMYOTROPHIC LATERAL SCLEROSIS COMBINING OXIDATIVE STRESS AND MUTATIONS IN SOD1 3746

P. Vourc`H, A. Dangoumau, S. Marouillat, C. Boyce, R. Coelho, F. Wurmser, H. Blasco, P. Corcia, C.R. Andres *(Tours, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C111 **WEDN 9/7/2014, 11:15 - FENS-0496**

L-LEUCINE AMELIORATES DEFECTIVE AUTOPHAGY THROUGH INVOLVEMENT OF CATHEPSIN D ACTIVATION 3747

H. Yanagisawa, D. Yamamoto, E. Kawakami, K. Endo, M. Komatsu, K. Watabe *(Tokyo, Japan)*

C112 **WEDN 9/7/2014, 12:15 - FENS-0302**

MTOR-INDEPENDENT, AUTOPHAGIC ENHANCER TREHALOSE PROLONGS MOTOR NEURON SURVIVAL AND AMELIORATES THE AUTOPHAGIC FLUX DEFECT IN A MOUSE MODEL OF ALS 3748

X. Zhang, S. Chen, W. Le *(Shanghai, China)*

C57: EPILEPSY - ANIMAL MODELS

C113 **WEDN 9/7/2014, 11:15 - FENS-0379**

ELECTROPHYSIOLOGICAL CHARACTERIZATION OF A CONDITIONAL PTEN KNOCKOUT MOUSE MODEL OF TEMPORAL LOBE EPILEPSY 3749

C. LaSarge, R.Y.K. Pun, S.C. Danzer *(Cincinnati, USA)*

C114 **WEDN 9/7/2014, 12:15 - FENS-2070**

ADULT NETWORK ACTIVITY IN THE CA3-MEC CIRCUITRY, IN THE 4-AMINOPYRIDINE MODEL, FOLLOWING IMMATURE STATUS EPILEPTICUS 3750

C. Lisgaras, C. Psarropoulou *(Ioannina, Greece)*

C115 **WEDN 9/7/2014, 11:15 - FENS-0903**

THE ROLE OF SRF (SERUM RESPONSE FACTOR) IN A MURINE MODEL OF EPILEPSY 3751

P. Lösing, B. Knöll *(Ulm, Germany)*

C116 **WEDN 9/7/2014, 12:15 - FENS-1187**

ELECTROCORTICOGRAPHY DEMONSTRATES BENEFICIAL EFFECTS OF EP-80317 IN A MODEL OF STATUS EPILEPTICUS 3752

C. Lucchi, G. Curia, A. Torsello, G. Biagini *(Modena, Italy)*

C117 **WEDN 9/7/2014, 11:15 - FENS-2463**

CHANGES IN SEROTONIN EXPRESSION IN THE INFRALIMBIC CORTEX OF EPILEPTIC RATS 3753

G. Maia, J. Soares, N. Pereira, J.L. Quesado, N. Lukoyanov *(Porto, Portugal)*

C118 **WEDN 9/7/2014, 12:15 - FENS-2448**

LICL/PILOCARPINE INDUCED STATUS EPILEPTICUS IN IMMATURE RATS AFFECT SOCIABILITY/SOCIAL NOVELTY PREFERENCE LATTER IN LIFE 3754

A. Mikulecka, H. Kubova *(Prague, Czech Republic)*

C120 **WEDN 9/7/2014, 12:15 - FENS-1042**

CHANGES IN MMP-9 ACTIVITY IN ANIMAL MODEL OF POST-TRAUMATIC EPILEPSY 3756

B. Pijet, M. Stefaniuk, L. Kaczmarek *(Warsaw, Poland)*

C121 **WEDN 9/7/2014, 11:15 - FENS-0792**

SINGLE SEIZURE INCREASES THE EVOKED RESPONSE BY DEEP BRAIN ELECTRICAL STIMULATION 3757

L. Raspante, D. Medeiros, M. Moraes *(Belo Horizonte, Brazil)*

C122 **WEDN 9/7/2014, 12:15 - FENS-2054**

SMALL NUMBERS OF PTEN KO DENTATE GRAUNULE CELLS ARE CAPABLE OF DRIVING EPILEPTOGENESIS 3758

I. Rolle, N. Bakshi, B. Kestler, K. Holland, R. Pun, S. Danzer *(Cincinnati, USA)*

C123 **WEDN 9/7/2014, 11:15 - FENS-1692**

INFLUENCE OF NORADRENERGIC SUBSTANCE ON HIPPOCAMPAL AND NEOCORTICAL EPILEPTOGENIC THRESHOLD 3759

E. Saralidze, L. Khuchua *(Batumi, Georgia)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C124 **WEDN 9/7/2014, 12:15 - FENS-0319**
CROSS-FOSTERING ACTIVATES THE MESOLIMBIC DOPAMINE BRAIN SYSTEM AND REDUCES DEPRESSION-LIKE COMORBIDITY IN THE WAG/RIJ RAT MODEL OF GENETIC GENERALIZED EPILEPSY 3760
K. Sarkisova, K. Tanaeva, Y. Dobryakova, M. Kulikov, V. Kudrin *(Moscow, Russia)*

C125 **WEDN 9/7/2014, 11:15 - FENS-2489**
POSSIBLE ROLE OF CHOLINERGIC SPROUTING IN EPILEPTOGENESIS 3761
J. Soares, P.A. Andrade, G.H. Maia, M.B. Canha, N.M. Pereira, N.V. Lukoyanov *(Porto, Portugal)*

C126 **WEDN 9/7/2014, 12:15 - FENS-2452**
PARADOXICAL CARDIAC HYPEREXCITABILITY IN A DRAVET SYNDROME MOUSE MODEL 3762
B. Terragni, G. Bechi, M. Abeßer, S.G. Kaufmann, S.K. Maier, L. De Cecco, S. Canevari, S. Franceschetti, M. Mantegazza *(Milan, Italy)*

C127 **WEDN 9/7/2014, 11:15 - FENS-0859**
CEREBRAL DEVELOPMENTAL TRACE IN A RAT MODEL OF CRYPTOGENIC INFANTILE SPASMS 3763
M. Tsuji, A. Watabe, F. Kato *(Tokyo, Japan)*

C128 **WEDN 9/7/2014, 12:15 - FENS-1059**
A YOUNG PILOCARPINE MODEL FOR EPILEPSY 3764
C. Wormuth, A. Papazoglou, K. Broich, M. Weiergräber *(Bonn, Germany)*

C129 **WEDN 9/7/2014, 11:15 - FENS-0196**
ACTIVATION OF KAPPA OPIOID RECEPTORS REDUCES SEIZURE-LIKE ACTIVITY IN A MOUSE MODEL OF TEMPORAL LOBE EPILEPSY 3765
L. Zangrandi, J. Burtscher, C. Schwarzer *(Innsbruck, Austria)*

C130 **WEDN 9/7/2014, 12:15 - FENS-1719**
DOES VALPROIC ACID HAVE A DISEASE-MODIFYING EFFECT ON EPILEPSY IN A MOUSE MODEL OF ALZHEIMER'S DISEASE? 3766
S. Ziyatdinova, H. Tanila, A. Pitkänen *(Kuopio, Finland)*

C58: MENTAL DISORDERS - AFFECTIVE DISORDERS

C131 **WEDN 9/7/2014, 11:15 - FENS-1107**
ISOFLURANE RAPIDLY ACTIVATES BRAIN TRKB RECEPTOR SIGNALING, FACILITATES SYNAPTIC PLASTICITY AND PRODUCES ANTIDEPRESSANT-LIKE EFFECTS IN ADULT MICE 3767
T. Rantamäki, H. Antila, P. Sipilä, D. Popova, R. Guirado, J. Lindholm, M. Kislin, L. Khiroug, T. Taira, E. Castrén *(Helsinki, Finland)*

C132 **WEDN 9/7/2014, 12:15 - FENS-0161**
PATTERN RECOGNITION ANALYSES OF GRAY MATTER VOLUMES TO CLASSIFY DEPRESSION POLARITY 3768
R. Redlich, P. Dannlowski, M.R. Opel, M.R. Grotegerd, P.H.D. Almeida Jorge, M. Phillips Mary *(Muenster, Germany)*

C133 **WEDN 9/7/2014, 11:15 - FENS-0685**
EFFECT OF CO-TREATMENT WITH MIRTAZAPINE AND RISPERIDONE ON EXTRACELLULAR MONOAMINES LEVELS IN RAT FRONTAL CORTEX 3769
Z. Rogoz, K. Golembiowska, K. Kaminska *(Krakow, Poland)*

C134 **WEDN 9/7/2014, 12:15 - FENS-1930**
STRESS-INDUCED ANHEDONIA IN RATS IS ASSOCIATED WITH THE ACTIVATION OF THE INFLAMMATORY SYSTEM: EFFECT OF PHARMACOLOGICAL INTERVENTION 3770
A. Rossetti, F. Macchi, G. Racagni, M. Papp, M.A. Riva, R. Molteni *(Milan, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C135 **WEDN 9/7/2014, 11:15 - FENS-0338**

NEUROPEPTIDE S AND MANIA - A PHARMACOLOGICAL STUDY IN MICE 3771

C. Ruzza, L. Asth, E.C. Gavioli, C. Trapella, R. Guerrini, G. Calo' *(Ferrara, Italy)*

C136 **WEDN 9/7/2014, 12:15 - FENS-3291**

NEUROCAN RISK VARIANT FOR BIPOLAR DISORDER IS ASSOCIATED WITH REWARD DEPENDENCE AND ALTERED VENTRAL STRIATAL REWARD PROCESSING 3772

B. Schott, A. Assmann, A. Barman, S. Richter, J. Soch, T. Wüstenberg, C. Seidenbecher *(Magdeburg, Germany)*

C137 **WEDN 9/7/2014, 11:15 - FENS-0577**

CONDITIONALLY-REGULATED ENHANCED ADENOSINE A1 RECEPTOR EXPRESSION IN FOREBRAIN NEURONS MEDIATES ANTIDEPRESSIVE-LIKE BEHAVIOUR IN MICE 3773

T. Serchov, D. Van Calker, K. Biber *(Freiburg, Germany)*

C138 **WEDN 9/7/2014, 12:15 - FENS-0515**

BRAIN EXPRESSION OF GLUCOCORTICOID RECEPTORS (GRS), TRYPTOPHAN HYDROXYLASE-2 (TPH) AND ANTI-APOPTOTIC PROTEIN BCL-XL AFTER SHORT-TERM AND CHRONIC FORCED SWIM STRESS 3774

G. Shishkina, E.V. Babluk, V.V. Bulygina, N.N. Dygalo *(Novosibirsk, Russia)*

C139 **WEDN 9/7/2014, 11:15 - FENS-1594**

ACCUMULATION OF GLUCOCORTICOID RECEPTOR IN CYTOPLASM AS A POSSIBLE MECHANISM OF REDUCED GLUCOCORTICOID SIGNALING IN LYMPHOCYTES OF DEPRESSED PATIENTS 3775

I. Simic, M. Mitic, N. Bozovic, J. Djordjevic, N. Maric, M. Jovicic, M. Mihaljevic, S. Andric, Z. Pavlovic, M. Adzic *(Belgrade, Serbia)*

C140 **WEDN 9/7/2014, 12:15 - FENS-1441**

CHRONIC TREATMENT WITH DEXAMETHASONE INDUCES BEHAVIOURAL AND MOLECULAR MARKERS OF DEPRESSION IN MICE 3776

U. Skupio, M. Sikora, M. Tertil, S. Golda, A. Wawrzczak-Bargiela, R. Przewlocki *(Krakow, Poland)*

C141 **WEDN 9/7/2014, 11:15 - FENS-0257**

INTERACTIONS OF FRACTALKINE-FRACTALKINE RECEPTOR SYSTEM IN AN ANIMAL MODEL OF DEPRESSION IN ADULT BRAIN. 3777

J. Slusarczyk, K. Glombik, E. Trojan, E. Szczesny, A. Basta-Kaim *(Cracow, Poland)*

C142 **WEDN 9/7/2014, 12:15 - FENS-1876**

ANTIDEPRESSANT TREATMENTS EXERT TIME-DEPENDENT EFFECTS ON MIRNOME EXPRESSION PROFILE IN HIPPOCAMPUS OF RATS 3778

D. Tardito, M. Seguini, A. Mallei, I. Merelli, D. Corrada, L. Milanesi, G. Racagni, M. Popoli *(Milan, Italy)*

C143 **WEDN 9/7/2014, 11:15 - FENS-0191**

CB1 RECEPTORS MODULATE SOCIAL INTEREST IN A SEX-DEPENDENT MANNER IN MICE 3779

A. Terzian, V. Micale, C.T. Wotjak *(Munich, Germany)*

C144 **WEDN 9/7/2014, 12:15 - FENS-3625**

ANTIDEPRESSANT-LIKE ACTIVITY OF FINGOLIMOD IN MICE 3780

C. Tognoli, L. Di Nuzzo, R. Orlando, P. Di Pietro, D. Bucci, E. Moscardo, M. Pellitteri, M. Motolese, G. Bertini, F. Nicoletti, P.F. Fabene *(Verona, Italy)*

C145 **WEDN 9/7/2014, 11:15 - FENS-2209**

A MULTIVARIATE COMPARISON OF INTRINSIC BRAIN NETWORKS IN MAJOR DEPRESSION 3781

E. Visintin, F. Sambataro, N. Doerig, J. Brakowski, M. GrosseHoltforth, E. Seifritz, S. Spinelli *(Genova, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

C146 **WEDN 9/7/2014, 12:15 - FENS-0097**

ANTIDEPRESSANT-LIKE EFFECT OF 1-METHYL-1,2,3,4-TETRAHYDROISOQUINOLINE IN THE FORCED SWIMMING TEST IN C57/BL MICE IN COMPARISON WITH DESIPRAMINE 3782

A. Wasik, J. Michaluk, E. Mozdzen, I. Romanska, L. Antkiewicz-Michaluk *(Cracow, Poland)*

C59: MENTAL DISORDERS - ADDICTION AND DRUGS OF ABUSE

C147 **WEDN 9/7/2014, 11:15 - FENS-3515**

DOPAMINE D4 RECEPTOR COUNTERACTS MORPHINE-INDUCED CHANGES IN μ OPIOID RECEPTOR SIGNALING IN THE STRIOSOMES OF THE RAT CAUDATE PUTAMEN 3783

A. Rivera, D. Suárez-Boomgaard, B. Gago, A. Valderrama-Carvajal, R. Roales-Buján, K. Van Craenenbroeck, J. Duchou, D.O. Borroto-Escuela, J. Medina-Luque, K. Fuxe *(Malaga, Spain)*

C148 **WEDN 9/7/2014, 12:15 - FENS-3465**

METHAMPHETAMINE CAUSES DEGENERATION OF DOPAMINE CELL BODIES AND FIBERS OF THE NIGROSTRIATAL PATHWAY EVIDENCED BY SILVER STAINING 3784

M. Rosario, N. Granado, S. Ares-Santos, J.M. Carames, I. Espadas *(Madrid, Spain)*

C149 **WEDN 9/7/2014, 11:15 - FENS-0390**

COCAINE-INDUCED ARC EXPRESSION IN STRIATAL NEURONS: IMPLICATIONS FOR MOLECULAR AND BEHAVIORAL ADAPTATIONS 3785

M. Salery, M. Dos Santos, C. Pagès, V. Kappès, L. Moumné, N. Heck, J. Caboche, P. Vanhoutte *(Paris, France)*

C150 **WEDN 9/7/2014, 12:15 - FENS-2058**

DEVELOPMENT OF AN ANIMAL MODEL AND TREATMENTS FOR COMORBID PTSD AND COCAINE ADDICTION 3786

M. Schwendt, L. Knackstedt *(Gainesville, USA)*

C151 **WEDN 9/7/2014, 11:15 - FENS-0590**

DIFFERENT INFLUENCE OF ADOLESCENT EXPOSURE TO HEROIN AND DELTA9-THC ON HEROIN SELF-ADMINISTRATION BEHAVIOR IN ADULTHOOD 3787

A. Scifo, D. Lecca, C. Cadoni, A. Pisanu, V. Valentini, G. Piras, G. Di Chiara *(Cagliari, Italy)*

C152 **WEDN 9/7/2014, 12:15 - FENS-2409**

MIRNAS EXPRESSION PROFILE IN HEROIN SELF-ADMINISTRATION 3788

G. Serra, V. Valentini, P. Sulas, V. Perra, D. Lecca, G. Piras, G. Di Chiara *(Cagliari, Italy)*

C153 **WEDN 9/7/2014, 11:15 - FENS-0681**

FUNCTIONAL CONNECTIVITY OF NEURONAL CIRCUITS INVOLVED IN COCAINE ADDICTION 3789

A. Simonnet, P. Renault, J. Courtin, J.F. Fiancette, P.V. Piazza, C. Herry, V. Deroche-Gamonet *(Bordeaux, France)*

C154 **WEDN 9/7/2014, 12:15 - FENS-2101**

CRF-BP AND CRF-R2 CO-EXIST IN NERVE TERMINALS OF THE RAT VENTRAL TEGMENTAL AREA 3790

P. Slater, V. Noches, M.E. Andrés, K. Gysling *(Santiago, Chile)*

C155 **WEDN 9/7/2014, 11:15 - FENS-2855**

BEHAVIORAL AND MOLECULAR ENDOPHENOTYPES OF OPIOID ADDICTION SUSCEPTIBILITY 3791

W. Solecki, J. Kubik, M. Korostynski, R. Przewlocki *(Krakow, Poland)*

C156 **WEDN 9/7/2014, 12:15 - FENS-0459**

BEHAVIORAL INFLEXIBILITY PREDICTS ESCALATION OF METHAMPHETAMINE INTAKE AFTER LONG, BUT NOT SHORT, PERIODS OF SELF-ADMINISTRATION 3792

M. Solinas, M. Istin, C. Nicolas, N. Thiriet *(Poitiers, France)*

11:15 - 13:15 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
C157	**WEDN 9/7/2014, 11:15 - FENS-0846**	
	MMP-9 AFFECTS MOTIVATION IN ANIMAL MODEL OF ALCOHOL ADDICTION	3793
	M. Stefaniuk, O. Sakharchuk, K. Radwanska, B. Pijet, L. Kaczmarek *(Warsaw, Poland)*	
C158	**WEDN 9/7/2014, 12:15 - FENS-1365**	
	THE ROLE OF PSD-95 IN FORMATION AND PERSISTENCE OF COCAINE-RELATED MEMORIES	3794
	A. Suska, O. Schlüter *(Warsaw, Poland)*	
C159	**WEDN 9/7/2014, 11:15 - FENS-2185**	
	MODULATION OF ALCOHOL CONSUMPTION USING AN OPERANT SELF-ADMINISTRATION PARADIGM: EFFECTS OF A NEW DOPAMINE AMINOACIDIC CONJUGATE, PHENYLALANINE-BETA(3,4DIHYDROXYPHENYL)-ETILAMIDE.	3795
	F. Sutera, G. Incandela, V. De Caro, L.I. Giannola, C. Cannizzaro *(Palermo, Italy)*	
C160	**WEDN 9/7/2014, 12:15 - FENS-2536**	
	CHRONIC NICOTINE MODIFIES ALCOHOL-INDUCED RESPONSES OF DOPAMINERGIC NEURONS: INVOLVEMENT OF NICOTINIC ACETYLCHOLINE RECEPTORS	3796
	S. Tolu, P. Faure *(Paris, France)*	
C161	**WEDN 9/7/2014, 11:15 - FENS-1238**	
	ALTERED INTAKE OF ETHANOL IN ALCOHOL-PREFERRING AA RATS INDUCED BY VIRAL VECTOR-MEDIATED μ-OPIOID RECEPTOR OVEREXPRESSION	3797
	J. Uhari-Väänänen, A. Raasmaja, M. Airavaara, P. Piepponen, K. Kiianmaa *(Helsinki, Finland)*	
C162	**WEDN 9/7/2014, 12:15 - FENS-0122**	
	NICOTINE AND ALCOHOL INDUCE INHIBITION OF MEDIAL VTA DOPAMINERGIC NEURONS	3798
	S. Valverde, R.E. Eddine, S.T. Tolu, A.H. Hay, C.M. Morel, F.M. Marti, B.L. Lambolez, P.F. Faure *(Paris, France)*	
C163	**WEDN 9/7/2014, 11:15 - FENS-0246**	
	GABAB RECEPTORS INVOLVEMENT IN THE BEHAVIORAL AND NEUROCHEMICAL CONSEQUENCES INDUCED BY NICOTINE REWARDING PROPERTIES IN MICE: PHARMACOLOGICAL AND GENETIC APPROACHES	3799
	A. Varani, V. Pedrón, B. Bettler, G. Balerio *(Buenos Aires, Argentina)*	
C164	**WEDN 9/7/2014, 12:15 - FENS-2522**	
	USING INTELLICAGE TO STUDY OF ALCOHOL DRINKING BEHAVIOR	3800
	M. Veremieva, V. Voikar, M. Airavaara *(Helsinki, Finland)*	
C165	**WEDN 9/7/2014, 11:15 - FENS-3503**	
	RXFP3 DELETION REDUCES MOTIVATIONAL STRENGTH TO SEEK SUCROSE AND STRESS-RELATED ALCOHOL CONSUMPTION IN MICE	3801
	A. Walker, B.E. Chua, C.M. Smith, A.L. Gundlach, A.J. Lawrence *(Melbourne, Australia)*	
C166	**WEDN 9/7/2014, 12:15 - FENS-2793**	
	OPIATE ADDICTION: CHANGES IN CUE-REACTIVITY AND BRAIN STRUCTURE REVEALED BY META-ANALYSES	3802
	C. Winlove, C. Chan, J.R. Yates *(Exeter, United Kingdom)*	
C167	**WEDN 9/7/2014, 11:15 - FENS-2658**	
	ACUPUNCTURE REDUCES SEVERITY OF BEHAVIORAL SIGNS IN ETHANOL-WITHDRAWN RATS VIA ACTIVATION OF THE ENDOGENOUS OPIOID SYSTEM	3803
	C. Yang, S. Chang, H. Kim, B. Lee, J. Lee *(Daegu, Korea)*	
C168	**WEDN 9/7/2014, 12:15 - FENS-0479**	
	CONDITIONED PLACE PREFRENCE FOR DYADIC SOCIAL INTERACTION VS COCAINE IN C57BL/6 MICE	3804
	G. Zernig, J.M. Prast, K.K. Kummer *(Innsbruck, Austria)*	

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D28: VISUOMOTOR PROCESSING

D001 **WEDN 9/7/2014, 11:15 - FENS-0986**

INVOLVEMENT OF THE MACAQUE PREFRONTAL AREA 46D IN A CORTICAL NETWORK FOR CONTROLLING VISUALLY GUIDED REACHING-GRASPING MOVEMENTS 3805

G. Luppino, M. Gerbella, V. Giorgetti, S. Rozzi, E. Borra *(Parma, Italy)*

D002 **WEDN 9/7/2014, 12:15 - FENS-0549**

RESPONSE FOR OBSERVATION OF OWN HAND ACTION IN PARIETAL AREA AIP AND PFG OF MACAQUES 3806

K. Maeda, H. Ishida, M. Inase, K. Nakajima, A. Murata *(Osaka-sayama, Japan)*

D003 **WEDN 9/7/2014, 11:15 - FENS-3620**

VISUAL RESPONSE PROPERTIES OF ON MOTION SENSITIVE ELEMENTS IN DROSOPHILA 3807

M. Maisak, J. Haag, A. Borst *(Martinsried, Germany)*

D004 **WEDN 9/7/2014, 12:15 - FENS-1958**

FUNCTIONAL CORTICO-CORTICAL INTERACTIONS BETWEEN MONKEY PARIETAL REACH REGION AND DORSAL PREMOTOR CORTEX IN MEMORY GUIDED REACHING MOVEMENTS 3808

P. Martinez-vazquez, A. Gail *(Goettingen, Germany)*

D005 **WEDN 9/7/2014, 11:15 - FENS-2021**

ACTION OBSERVATION ELICITED RESPONSES IN THE DORSAL PREMOTOR CORTEX (AREA F2) OF THE MACAQUE MONKEY 3809

V. Papadourakis, V. Raos *(Heraklion, Greece)*

D006 **WEDN 9/7/2014, 12:15 - FENS-3130**

FRONTAL CONNECTIONS OF THE MEDIAL POSTERIOR-PARIETAL CORTEX IN THE MACAQUE 3810

L. Passarelli, M. Gamberini, S. Bakola, P. Fattori, C. Galletti *(Bologna, Italy)*

D007 **WEDN 9/7/2014, 11:15 - FENS-1249**

CHARACTERISTICS OF EEG OSCILLATIONS IN SENSORIMOTOR AREAS DURING KINESTHETIC ILLUSION INDUCED BY VISUAL STIMULATION 3811

E. Shibata, F. Kaneko, K. Okuyama, T. Kimura *(Sapporo, Japan)*

D008 **WEDN 9/7/2014, 12:15 - FENS-1642**

OBJECT-CENTERED SPATIAL ENCODING IN MONKEY PARIETAL REACH REGION AND DORSAL PREMOTOR CORTEX 3812

B. Taghizadeh, A. Gail *(Goettingen, Germany)*

D009 **WEDN 9/7/2014, 11:15 - FENS-2696**

RHYTHMIC OSCILLATIONS OF VISUAL CONTRAST SENSITIVITY GENERATED BY VOLUNTARY ACTION 3813

A. Tomassini, M. Jacono, G. Sandini, D. Spinelli, M.C. Morrone *(Genova, Italy)*

D010 **WEDN 9/7/2014, 12:15 - FENS-0083**

LONGITUDINAL DEVELOPMENT OF VISUAL LOOMING: INCREASING SENSITIVITY, ATTENTIVENESS AND THE FORMING OF SMART PERCEPTUAL DEVICES 3814

D. Van der Weel - van der Meer *(Trondheim, Norway)*

D011 **WEDN 9/7/2014, 11:15 - FENS-2785**

CEREBRAL NETWORKS CORRELATING WITH REACTION TIME AND REWARD VALUE DURING A SIMPLE DETECTION TASK IN THE NON-HUMAN PRIMATE 3815

C. Wardak, O. Guipponi, P. Boulinguez, S. Ben Hamed *(Bron, France)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D29: PAIN - THALAMIC AND CORTICAL PROCESSING

D012 **WEDN 9/7/2014, 12:15 - FENS-0084**

NOVEL VISTAS ON ACUTE PAIN SENSATION IN THE THALAMIC VENTROBASAL COMPLEX: THE ROLE OF KCNQ CHANNELS 3816

M. Cerina, H.J. Szkudlarek, P. Coulon, P. Meuth, T. Kanyshkowa, K. Goebel, S.G. Meuth, H.C. Pape, T. Budde *(Münster, Germany)*

D013 **WEDN 9/7/2014, 11:15 - FENS-1348**

NITROGLYCERIN-INDUCED ENHANCEMENT OF OROFACIAL FORMALIN PAIN: A MODEL OF TRIGEMINAL HYPERALGESIA RELEVANT FOR MIGRAINE 3817

R. Greco, F. Siani, P. Giovannone, C. Demartini, F. Blandini, G. Nappi, G. Sandrini, C. Tassorelli *(Pavia, Italy)*

D014 **WEDN 9/7/2014, 12:15 - FENS-2753**

EFFECTS OF SHORT LASTING TRANSCRANIAL DIRECT CURRENT STIMULATION OF THE MOTOR CORTEX ON TEMPERATURE AND PAIN PERCEPTION 3818

L. Mordillo Mateos, Y. Pérez Borrego, V. Soto Leòn, M. Dileone, G. Foffani, A. Oliviero *(Toledo, Spain)*

D015 **WEDN 9/7/2014, 11:15 - FENS-0821**

MODULATION OF SCALP SOMATOSENSORY EVOKED POTENTIALS INDUCED BY PAINFUL AND NON PAINFUL ELECTRICAL STIMULATION DURING HETEROTOPIC NOXIOUS COUNTER-STIMULATION 3819

J. Tessier, B. Provencher, M. Piché *(Repentigny, Canada)*

D30: PAIN - NEUROPATHIC PAIN

D016 **WEDN 9/7/2014, 12:15 - FENS-3432**

EARLY INTENSE EXERCISE ACTIVITY REDUCES NEUROPATHIC PAIN BY PREVENTING NOCICEPTOR COLLATERAL SPROUTING AND SPINAL KCC2 DOWN-REGULATION AFTER PERIPHERAL NERVE INJURY 3820

V. Lopez Alvarez, L. Modol, X. Navarro, S. Cobianchi *(Barcelona, Spain)*

D017 **WEDN 9/7/2014, 11:15 - FENS-1258**

THE ROLE OF SEZ-6 IN NEUROPATHIC PAIN 3821

M. Lovric, H.J. Daykin, C.E. Wright, K. Teng, C.E. Eroglu *(Melbourne, Australia)*

D018 **WEDN 9/7/2014, 12:15 - FENS-1343**

INVOLVEMENT OF P/Q-TYPE CALCIUM CHANNELS IN NERVE REGENERATION AFTER PERIPHERAL NERVE INJURY IN MICE 3822

S. Luvisetto, S. Marinelli, V. Vacca, C. Eleuteri, F. Pavone *(Rome, Italy)*

D019 **WEDN 9/7/2014, 11:15 - FENS-2880**

ROLE OF IKD CURRENT IN PAINFUL HYPERSENSITIVITY TO COLD INDUCED BY CHRONIC PERIPHERAL NERVE INJURY 3823

R. Madrid, G. Ugarte, C. Restrepo, A. González, R. Piña, G. Herrera, P. Orio, M. Pertusa *(Santiago, Chile)*

D020 **WEDN 9/7/2014, 12:15 - FENS-0198**

DUAL EFFECTS OF B-NATRIURETIC PEPTIDE ON P2X3 AND TRPV1 MEDIATED RESPONSES OF MOUSE TRIGEMINAL SENSORY NEURONS 3824

A. Marchenkova, S. Vilotti, A. Nistri *(Trieste, Italy)*

D021 **WEDN 9/7/2014, 11:15 - FENS-0066**

CALCINEURIN ANALGESIA IN NEUROPATHIC PAIN IS ASSOCIATED WITH DEPHOSPHORYLATION OF AMPA RECEPTORS IN THE PSD OF SPINAL DORSAL HORN NEURONS 3825

G. Miletic, J.L. Hermes, G.L. Bosscher, B.M. Meier, V. Miletic *(Madison, USA)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D022 **WEDN 9/7/2014, 12:15 - FENS-2845**

PREVENTION OF NKCC1 PHOSPHORYLATION IN PRIMARY SENSORY NEURONS AVOIDS KCC2 DOWNREGULATION IN CENTRAL AREAS AND REDUCES NEUROPATHIC PAIN AFTER INJURY 3826

L. Modol Vidal, S. Cobianchi, X. Navarro *(Barcelona, Spain)*

D023 **WEDN 9/7/2014, 11:15 - FENS-1286**

MOLECULAR CHARACTERIZATION OF SPINAL MICROGLIA AFTER PERIPHERAL NERVE INJURY USING SINGLE-CELL ANALYSIS 3827

S. Oh, H. Jeong, Y. Kim, Y. Na, J. Kim *(Seoul, Korea)*

D024 **WEDN 9/7/2014, 12:15 - FENS-2916**

EFFECT OF STANDARD ANALGESICS OF TRPV1 AND CGRP EXPRESSION IN A RAT MODEL OF BORTEZOMIB-INDUCED PERIPHERAL NEUROPATHY 3828

L. Poddighe, M. Quartu, M.P. Serra, M. Boi, T. Melis, C. Picci, M. Del Fiacco, C. Meregalli, A. Canta, A. Chiorazzi, B. Sala, N. Oggioni, G. Cavaletti, V. Carozzi *(Monserrato, Italy)*

D025 **WEDN 9/7/2014, 11:15 - FENS-0867**

A NOVEL RAT MODEL MIMICKING TRIGEMINAL AUTONOMIC CEPHALALGIAS BY FORMALIN PAIN TEST IN THE FACIAL-CHEEK 3829

M. Ren Wang, C.J. Tseng, J.S. Kuo *(Kaohsiung, Taiwan)*

D026 **WEDN 9/7/2014, 12:15 - FENS-3153**

GENERATION OF A NOVEL MOUSE MODEL OF THE NEURONAL ISOFORM KIF1A/25B TO STUDY HEREDITARY SENSORY & AUTONOMIC NEUROPATHY TYPE II 3830

J. Schmouth, D. Rochefort, P. Hince, J.S. Mogil, P.A. Dion, G.A. Rouleau *(Montreal, Canada)*

D31: TACTILE/SOMATOSENSORY - BRAIN STEM, THALAMUS, CORTEX

D027 **WEDN 9/7/2014, 11:15 - FENS-2969**

FUNCTIONAL CHANGES IN LONG-RANGE PROJECTION NEURONS IN MOUSE BARREL CORTEX DURING TASK LEARNING 3831

F. Helmchen, D.J. Margolis, B.L. Schneider, J.L. Chen *(Zurich, Switzerland)*

D028 **WEDN 9/7/2014, 12:15 - FENS-1312**

INACTIVATION OF CORTICAL TOP-DOWN INPUT TO PRIMARY SENSORY AREA MODULATES SENSORY PERCEPTION 3832

C. Homma, T. Suzuki, A. Kamoshida, S. Manita, T. Matsumoto, K. Yamada, M. Odagawa, C. Matsubara, A. Inutsuka, A. Yamanaka, M. Murayama *(Saitama, Japan)*

D029 **WEDN 9/7/2014, 11:15 - FENS-1569**

ASSOCIATIVE LEARNING AND NETWORK PLASTICITY IN THE MOUSE BARREL CORTEX 3833

S. Hugues, I. Bureau *(Marseille, France)*

D030 **WEDN 9/7/2014, 12:15 - FENS-3069**

FUNCTIONAL CHANGES IN THE SOMATOSENSORY THALAMUS IMMEDIATELY AFTER SPINAL CORD INJURY 3834

A. Juan de los Reyes, E. Alonso-Calviño, I. Martínez-Camero, E. Fenández-López, E. Fenández-López, G. Foffani *(Toledo, Spain)*

D031 **WEDN 9/7/2014, 11:15 - FENS-2869**

WHISKER DEPRIVATION INDUCES EXPERIENCE-DEPENDENT SYNAPTIC PLASTICITY IN CROSS-COLUMNAR L2/3 PROJECTIONS OF THE RAT BARREL CORTEX IN VIVO 3835

K. Kole, T. Celikel, W.J.J.M. Scheenen *(Nijmegen, The Netherlands)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D032 **WEDN 9/7/2014, 12:15 - FENS-2166**

FUNCTIONAL CONNECTIVITY IN HUMAN EEG DURING TACTILE DISCRIMINATION AND NONDISCRIMINATION TASKS 3836

E. Krugliakova, I. Zubarev, E. Galperina *(Saint-Petersburg, Russia)*

D033 **WEDN 9/7/2014, 11:15 - FENS-0935**

ALTERED GLUTAMATE/GABA EQUILIBRIUM IN AGED MICE CORTEX INFLUENCES CORTICAL PLASTICITY. 3837

M. Liguz-Lecznar, M. Lehner, A. Kaliszewska, R. Zakrzewska, A. Sobolewska, M. Kossut *(Warsaw, Poland)*

D034 **WEDN 9/7/2014, 12:15 - FENS-0520**

EFFECTS OF EPIDURAL COMPRESSION ON STELLATE CELLS AND BLOOD-BRAIN BARRIER 3838

P. Liu, T. Yeh *(Hualien, Taiwan)*

D035 **WEDN 9/7/2014, 11:15 - FENS-0611**

CELL AUTONOMOUS MECHANISMS FOR DENDRITIC REFINEMENT OF BARREL CELLS IN THE POSTNATAL MOUSE SOMATOSENSORY CORTEX 3839

W. Luo, H. Mizuno, S. Itohara, T. Iwasato *(Mishima, Japan)*

D036 **WEDN 9/7/2014, 12:15 - FENS-1399**

ORTHOGONAL ADAPTATION PROPERTIES IN TWO MAJOR PATHWAYS OF THE SOMATOSENSORY SYSTEM INCREASE THE DYNAMIC RANGE OF INTENSITY CODING 3840

B. Mohar, I. Lampl *(Rehovot, Israel)*

D037 **WEDN 9/7/2014, 11:15 - FENS-1138**

VIP EXPRESSING INTERNEURONS IN MOUSE BARREL CORTEX 3841

A. Prönneke, M. Möck, J.F. Staiger *(Göttingen, Germany)*

D038 **WEDN 9/7/2014, 12:15 - FENS-0762**

LARGE-SCALE MULTINEURONAL SPIKE SEQUENCES EVOKED BY SENSORY STIMULATION IN THE ADULT RAT BARREL CORTEX IN VIVO 3842

V. Reyes-Puerta, J.J. Sun, S. Kim, W. Kilb, H.J. Luhmann *(Mainz, Germany)*

D039 **WEDN 9/7/2014, 11:15 - FENS-1430**

PARVALBUMIN-IMMUNOREACTIVE AXON TERMINALS DENSITY IN ADULT MOUSE BARREL CORTEX WERE INCREASED FOLLOWING LEARNING-DEPENDENT PLASTICITY 3843

E. Siucinska, T. Bernas *(Warsaw, Poland)*

D040 **WEDN 9/7/2014, 12:15 - FENS-2591**

A COMPREHENSIVE STUDY OF INHIBITION IN THE MOUSE BARREL CORTEX DURING BEHAVIOR 3844

K. Vervaeke, S. Peron, J. Magee, K. Svoboda *(Ashburn, USA)*

D041 **WEDN 9/7/2014, 11:15 - FENS-1176**

INTEGRATION OF MARTINOTTI CELLS IN INHIBITORY CIRCUITS OF THE RODENT BARREL CORTEX 3845

F. Walker, J.F. Staiger, M. Witte *(Göttingen, Germany)*

D042 **WEDN 9/7/2014, 12:15 - FENS-1397**

EXPLORING BRAIN CONNECTIVITY DURING FORCE PRODUCTION WHILE PERTURBING THE WRIST 3846

Y. Yang, T. Solis-Escalante, M.P. Vlaar, A.C. Schouten, F.C.T. Van der Helm *(Delft, The Netherlands)*

D32: RHYTHM AND PATTERN GENERATING CIRCUITS - CELLULAR AND NETWORK PROPERTIES

D043 **WEDN 9/7/2014, 11:15 - FENS-2805**

SLEEP SPINDLES ARE MODULATED BY NETWORK STATE 3847

L. Faradzs-zade, F. Mátyás, L. Acsády, P. Barthó *(Budapest, Hungary)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D044 **WEDN 9/7/2014, 12:15 - FENS-1400**
SPINAL CORD SLICES IN CULTURE FUNCTIONALLY CONNECT VIA PROPRIOSPINAL PATHWAYS 3848
M. Heidemann, J. Streit, A. Tscherter *(Bern, Switzerland)*

D045 **WEDN 9/7/2014, 11:15 - FENS-0884**
DEVELOPMENTAL PLASTICITY OF THE POSTURAL MOTOR SYSTEM OF XENOPUS LAEVIS DURING METAMORPHOSIS 3849
D. Le Ray, C. Leroy, F. Alcaraz, J. Simmers *(Bordeaux, France)*

D046 **WEDN 9/7/2014, 12:15 - FENS-2958**
THE EFFECT OF ANESTHESIA ON NEURONAL COMMUNICATION 3850
J. Mapelli, E. Giuliani, D. Gandolfi, L. Congi, A. Barbieri, E. D'angelo, A. Bigiani *(Modena, Italy)*

D047 **WEDN 9/7/2014, 11:15 - FENS-2586**
DIFFERENTIAL MODES OF SYNAPTIC TRANSMISSION WITHIN FAST SPINAL LOCOMOTOR CIRCUITRY 3851
E. Menelaou, D.L. McLean *(Evanston, USA)*

D048 **WEDN 9/7/2014, 12:15 - FENS-2579**
CHOLINERGIC NEUROTRANSMISSION IN THE PARAFACIAL RESPIRATORY GROUP MODULATES ACTIVE EXPIRATION 3852
S. Pagliardini, Z. Alsahafi, S. Boutin *(Edmonton, Canada)*

D049 **WEDN 9/7/2014, 11:15 - FENS-3262**
ROLE OF EPHA4 IN WIRING SPINAL CORD CIRCUITS 3853
S. Paixao, A. Balijepalli, N. Serradj, J. Niu, F. Memic, K. Kullander, W. Luo, J.H. Martin, R. Klein *(Martinsried, Germany)*

D050 **WEDN 9/7/2014, 12:15 - FENS-3750**
LOGNORMAL DISTRIBUTION OF FIRING RATES OBSERVED IN SPINAL NETWORKS DURING RHYTHMIC MOTOR PATTERNS 3854
P. Petersen, R.W. Berg *(Copenhagen, Denmark)*

D051 **WEDN 9/7/2014, 11:15 - FENS-3604**
COMMON SOURCE SYNAPTIC INPUT TO MOTONEURONS DURING MOTOR PATTERN GENERATION 3855
M. Radosevic, R.W. Berg *(Copenhagen, Denmark)*

D052 **WEDN 9/7/2014, 12:15 - FENS-0151**
CHAIN PATTERN GENERATION: THE PHENOMENON OF POST-SCRATCHING LOCOMOTION 3856
A. Trejo Cisneros, J.A. Tapia, E. Manjarrez *(Puebla, Mexico)*

D053 **WEDN 9/7/2014, 11:15 - FENS-1803**
THE ROLE OF CALCIUM-ACTIVATED NON-SELECTIVE CATION CURRENTS FOR RHYTHM GENERATION IN SPINAL CORD CULTURES 3857
A. Tscherter, M. Heidemann, J. Streit *(Bern, Switzerland)*

D33: BRAIN-MACHINE INTERFACE

D054 **WEDN 9/7/2014, 12:15 - FENS-0925**
DOPAMINERGIC MODULATION OF MOTOR CORTICAL ACTIVATION INDUCED BY TRANSCRANIAL DCS DETECTED BY NEAR-INFRARED SPECTROSCOPY 3858
S. Obayashi, Y. Hara *(Inzai, Japan)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

D055 **WEDN 9/7/2014, 11:15 - FENS-1783**

DISSECTING CORTICAL CIRCUIT DYNAMICS UNDERLYING NEUROPROSTHETIC LEARNING WITH A NOVEL OPTICAL BRAIN-MACHINE INTERFACE 3859

M. Prsa, F. Hubner, G. Galinanes, C. Bonardi, D. Huber *(Geneva, Switzerland)*

D056 **WEDN 9/7/2014, 12:15 - FENS-0572**

USE OF A PSYCHOLOGICAL LEARNING TECHNIQUE TO IMPROVE BRAIN-COMPUTER INTERFACE (BCI) CONTROL 3860

R. Ron-Angevin, L. Da Silva-Sauer, L. Valero-Aguayo, F. Velasco-Álvarez *(Malaga, Spain)*

D057 **WEDN 9/7/2014, 11:15 - FENS-2428**

MODULATION OF MACAQUE INTRA-CORTICAL LFP DURING ACTION EXECUTION AND OBSERVATION 3861

S. Waldert, R. Philipp, G. Vigneswaran, J. Kilner, R. Lemon, A. Kraskov *(London, United Kingdom)*

D058 **WEDN 9/7/2014, 12:15 - FENS-2906**

ELECTROPHYSIOLOGICAL OBSERVATIONS FROM A NEWLY CONCEIVED CHRONICALLY-IMPLANTED WIRELESS ELECTROCORTICAL DEVICE 3862

A. Zippo, S. Nencini, P. Romanelli, N. Torres-Martinez, G. Biella *(Milan, Italy)*

E17: CARDIOVASCULAR REGULATION

E001 **WEDN 9/7/2014, 11:15 - FENS-0462**

HYPERTENSION ALTERS THE NEUROTROPHIC FACTOR PROFILE IN THE CAROTID BODY OF ADULT RATS 3863

D. Atanasova, N. Lazarov *(Sofia, Bulgaria)*

E002 **WEDN 9/7/2014, 12:15 - FENS-3350**

MEDIOLATERAL DIFFERENCES IN THE NUMBER OF OREXIN NEURONS BETWEEN SPONTANEOUSLY HYPERTENSIVE RATS AND NORMOTENSIVE WISTAR AND WISTAR KYOTO RATS 3864

P. Carrive, L. Clifford *(Sydney, Australia)*

E003 **WEDN 9/7/2014, 11:15 - FENS-0729**

BRAIN ACTIVITY AT HEART RATE VARIABILITY BIOFEEDBACK TRAINING IN ADOLESCENTS 3865

D. Demin, L. Poskotinova *(Arkhangelsk, Russia)*

E004 **WEDN 9/7/2014, 12:15 - FENS-1248**

FUNCTIONAL INTERACTION BETWEEN MEDIAL PARABRACHIAL REGION AND THE HYPOTHALAMIC DEFENCE AREA: ROLE OF ANGIOTENSIN II. 3866

A. Díaz-Casares, M.V. López-González, C.A. Peinado-Aragonés, M.S. Dawid-Milner *(Málaga, Spain)*

E005 **WEDN 9/7/2014, 11:15 - FENS-1261**

THE OPIOID SYSTEM OF THE MEDIAL AMIGDALOID NUCLEUS MODULATES AUTONOMIC RESPONSES CAUSED BY RESTRAINT STRESS IN RATS 3867

A. Fassini, L.B.M. Resstel, F.M.A. Corrêa *(Ribeirão Preto, Brazil)*

E006 **WEDN 9/7/2014, 12:15 - FENS-0505**

THE OREXIN NEURONS THAT PROJECT TO ROSTRAL VENTROLATERAL MEDULLA MAY BE REGULATED BY M3 MUSCARINIC RECEPTORS 3868

L.L. Hwang, Y.H. Li, Y.W. Dai, T.L. Li, S.C. Huang *(Taipei, Taiwan)*

E007 **WEDN 9/7/2014, 11:15 - FENS-1638**

A5 ANGIOTENSIN RECEPTORS IN THE CARDIORESPIRATORY RESPONSES EVOKED FROM HYPOTHALAMIC DEFENCE AREA IN THE RAT 3869

M. López-González, A. Díaz-Casares, C.A. Peinado-Aragonés, M.A. Barbancho-Fernández, M.S. Dawid-Milner *(Málaga, Spain)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E008 **WEDN 9/7/2014, 12:15 - FENS-0568**

A SEROTONIN SERUM LEVEL AND EEG PATTERNS IN PATIENTS WITH HYPERTENSION DURING SINGLE SESSION OF HRV BIOFEEDBACK 3870

L. Poskotinova, E. Krivonogova, O. Stavinskaya, D. Demin, N. Khasanova, M. Dieva *(Archangelsk, Russia)*

E18: RESPIRATORY REGULATION

E009 **WEDN 9/7/2014, 11:15 - FENS-0206**

DUAL AND CONDITIONAL HSV-1 TRANSYNAPTIC NEURONAL TRACING OF HIGHER BRAIN SENSORY CIRCUITS ARISING FROM THE UPPER AND LOWER AIRWAYS 3871

A. McGovern, N. Davis-Poynter, D.G. Simmons, S.B. Mazzone *(Brisbane, Australia)*

E010 **WEDN 9/7/2014, 12:15 - FENS-2420**

LONG TERM CHANGES OF THE PHRENIC NERVE ACTIVITY DUE TO EXPOSURE TO HYPERCAPNIC STIMULUS 3872

M. Valic, I. Pavlinac Dodig, R. Pecotic, Z. Dogas *(Split, Croatia)*

E19: THERMOREGULATION

E011 **WEDN 9/7/2014, 11:15 - FENS-2212**

AUTONOMIC EFFECTS OF THE INJECTION OF OREXIN IN THE RAPHE PALLIDUS IN THE FREE BEHAVING RAT 3873

F. Del Vecchio, R. Amici, M. Cerri, A. Di Cristoforo, M. Luppi, G. Zamboni *(Bologna, Italy)*

E012 **WEDN 9/7/2014, 12:15 - FENS-0064**

EFFECT OF L-GLUTAMATE APPLICATION IN THE GUT AND PREOPTIC AREA ON THERMOREGULATION IN RATS 3874

T. Sengupta, A.K. Jaryal, H.N. Mallick *(New Delhi, India)*

E20: GASTROINTESTINAL AND UROGENITAL REGULATION

E013 **WEDN 9/7/2014, 11:15 - FENS-0340**

THE EFFECTS OF PANCREATIC-LIKE ENZYMATIC REPLACEMENT THERAPY (PERT) ON THE BRAIN FUNCTION IN EPI PIGS 3875

K. Goncharova, S.G. Pierzynowski, T. Kovalenko, I. Osadchenko, G. Ushakova, G. Skibo *(Kyiv, Ukraine)*

E014 **WEDN 9/7/2014, 12:15 - FENS-3684**

OPTIMIZATION OF NUTRITIONAL SUPPORT FOR THE PATIENTS WITH CEREBRAL STROKE IN THE EARLY PERIOD OF REHABILITATION 3876

M. Safonicheva, S.V. Arshakyan, O.G. Safonicheva *(Moscow, Russia)*

E015 **WEDN 9/7/2014, 11:15 - FENS-2073**

RADIOIMMUNOASSAY EXAMINATION OF PACAP-LIKE IMMUNOREACTIVITY IN DIFFERENT PATHOLOGICAL CLINICAL SAMPLES 3877

A. Tamás, A. Javorhazy, D.P. Sarlos, Z. Sarszegi, I. Zapf, Z. Szanto, B. Faludi, T. Molnar, J. Nemeth, B. Lelesz, G. Reman, D. Reglodi *(Pécs, Hungary)*

E016 **WEDN 9/7/2014, 12:15 - FENS-3041**

CHARACTERIZATION OF THE ENTERIC PLEXUSES OF TWO CHOLINE-ACETYLTRANSFERASE TRANSGENIC MOUSE LINES 3878

M. Wilhelm, J.J. Lawrence, R. Gabriel *(Pecs, Hungary)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

E21: STRESS AND THE BRAIN - EARLY LIFE EXPERIENCE

E017 **WEDN 9/7/2014, 11:15 - FENS-0720**

EFFECTS OF AN EARLY EXPERIENCE INVOLVING REWARD THROUGH MATERNAL CONTACT OR ITS DENIAL ON RAT BRAIN NORADRENERGIC FUNCTION 3879

T. Kalpachidou, A. Stamatakis, A. Raftogianni, P. Melissa, F. Stylianopoulou *(Athens, Greece)*

E018 **WEDN 9/7/2014, 12:15 - FENS-0714**

AN EARLY EXPERIENCE INVOLVING REWARD OR ITS DENIAL THROUGH MATERNAL CONTACT AFFECTS NMDA RECEPTOR COMPOSITION IN THE RAT BRAIN 3880

V. Manatos, F. Stylianopoulou, A. Stamatakis *(Athens, Greece)*

E019 **WEDN 9/7/2014, 11:15 - FENS-2434**

SOCIAL ISOLATION DURING PUBERTY AFFECTS FEMALE SEXUAL BEHAVIOR IN MICE 3881

J. Kercmar, S.A. Tobet, G. Majdic *(Ljubljana, Slovenia)*

E020 **WEDN 9/7/2014, 12:15 - FENS-3151**

MATERNAL HIGH FAT CONSUMPTION PROTECTS OFFSPRING AGAINST NEUROBIOLOGICAL AND EMOTIONAL ALTERATIONS INDUCED BY MATERNAL SEPARATION 3882

A. Lépinay, P. Delage, M. Rincel, S. Layé, M. Darnaudéry *(Bordeaux, France)*

E021 **WEDN 9/7/2014, 11:15 - FENS-0258**

EFFECT OF ACUTE CORTICOSTERONE ON BASAL SYNAPTIC TRANSMISSION AND LTP PROCESSES IN THE MEDIAL PREFRONTAL CORTEX OF MATERNALLY-SEPARATED ADOLESCENT RATS 3883

I. Majcher-Maslanka, A. Chocyk, D. Dudys, A. Przyborowska, K. Wedzony *(Krakow, Poland)*

E022 **WEDN 9/7/2014, 12:15 - FENS-2326**

THE GLUTAMATERGIC BASIS OF ANXIOUS/DEPRESSIVE-LIKE BEHAVIOR IN PRENATALLY STRESSED RATS 3884

J. Marrocco, M.L. Reynaert, E. Gatta, C. Gabriel, E. Mocaër, A. Pittaluga, F. Nicoletti, S. Maccari, S. Morley-Fletcher, J. Mairesse *(Villeneuve D Ascq, France)*

E023 **WEDN 9/7/2014, 11:15 - FENS-0740**

PRENATAL MATERNAL STRESS AFFECTS SYNAPTIC TRANSMISSION AND PLASTICITY IN THE FRONTAL CORTEX OF ADOLESCENT RATS 3885

J. Sowa, B. Bobula, K. Glombik, J. Slusarczyk, E. Trojan, G. Hess, A. Basta-Kaim *(Krakow, Poland)*

E024 **WEDN 9/7/2014, 12:15 - FENS-3541**

UNPREDICTABLE MATERNAL SEPARATION INDUCES RESILIENCE IN WISTAR RATS 3886

G. Szabó, J. Szakács, Z. Bagosi, K. Csabafi *(Szeged, Hungary)*

E025 **WEDN 9/7/2014, 11:15 - FENS-2527**

EFFECTS OF MATERNAL SEPARATION AND NEONATAL HYPOXIA-ISCHEMIA ON MARKERS OF BRAIN DAMAGE AND PLASTICITY IN ADULT RATS 3887

D. Tata, I. Markostamou, A. Ioannidis, E. Dandi, E. Kostopoulou, C. Simeonidou, E. Spandou *(Thessaloniki, Greece)*

F27: HUMAN COGNITION AND BEHAVIOUR - ATTENTION

F001 **WEDN 9/7/2014, 11:15 - FENS-1610**

IMPROVING MULTIPLE-CHOICE QUESTIONS READING AND SOLVING BY VOLUNTARY CONTROLLING THE DISPLAY OF CONTEXT, STEM, AND OPTIONS 3888

S. Lions, P. Franco, M. Peña *(Valparaiso, Chile)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F002 **WEDN 9/7/2014, 12:15 - FENS-2828**

MALINGERED DELAY OF REACTION-TIME: CORRELATES IN NIRS AND EEG IN HEALTHY SUBJECTS AND SUBJECTS WITH AN EPISODE OF DEPRESSION 3889

B. Liske, P.H. Ackermann, D. Münch, F. Häußinger, A.C. Ehlis, A. Stevens, A.J. Fallgatter, C. Frischholz *(Tübingen, Germany)*

F003 **WEDN 9/7/2014, 11:15 - FENS-1759**

ATTENTIONAL CONTROL GUIDES THE COSTLY FILTERING OF POTENTIAL DISTRACTION 3890

F. Marini, L. Chelazzi, A. Ravagli, A. Maravita *(Verona, Italy)*

F004 **WEDN 9/7/2014, 12:15 - FENS-3506**

EFFECT OF POSITIVE VS. NEGATIVE FACIAL EXPRESSION ON PROCESSING OF ATTENTION AND EMOTIONAL PROCESS RELATED NETWORKS 3891

E. Matsumoto, T. Naito, T. Kawashima *(Kobe, Japan)*

F005 **WEDN 9/7/2014, 11:15 - FENS-2435**

AROUSING AUDITORY STIMULUS MODULATES PERFORMANCE DURING A DISCRIMINATIVE REACTION TIME TASK 3892

P. Mauri, C. Miniussi, M. Balconi, D. Brignani *(Brescia, Italy)*

F006 **WEDN 9/7/2014, 12:15 - FENS-0199**

COUPLING BETWEEN EEG DELTA PHASE AND GAMMA AMPLITUDE CONTINUES DURING MEMORY RETENTION PERIOD 3893

C. Nakatanii *(Leuven, Belgium)*

F007 **WEDN 9/7/2014, 11:15 - FENS-1024**

INVOLUNTARY AUDITORY ATTENTION IN WORK RELATED BURNOUT: AN EVENT-RELATED POTENTIAL (ERP) STUDY 3894

S. Pakarinen, L. Sokka, M. Leinikka, A. Henelius, J. Korpela, J. Lukander, M. Huotilainen *(Helsinki, Finland)*

F008 **WEDN 9/7/2014, 12:15 - FENS-0703**

ANTICIPATORY BETA-BAND OSCILLATIONS IN SENSORIMOTOR CORTEX DISSOCIATE TEMPORAL ORIENTING AND INTERSENSORY VISUO-TACTILE ATTENTION 3895

U. Pomper, J. Keil, D. Senkowski *(Berlin, Germany)*

F009 **WEDN 9/7/2014, 11:15 - FENS-2035**

CAPTURE OF ATTENTION FOR EMOTIONAL STIMULI IS INFLUENCED BY NEUTRAL DISTRACTORS 3896

L. Righi, H. Haddad, G.F. Xavier *(São Caetano do Sul, Brazil)*

F010 **WEDN 9/7/2014, 12:15 - FENS-3314**

NEURAL DYNAMICS OF THE ATTENTIONAL "ZOOM-LENS" AS REVEALED BY DENSE-ARRAY EEG 3897

L. Ronconi, L. Vignali, S. Gori, G. Mento, A. Facoetti *(Padova, Italy)*

F011 **WEDN 9/7/2014, 11:15 - FENS-3166**

HOW ATTENTION MODULATES BINOCULAR RIVALRY? 3898

D. Saint-Amour, A. Doualot, E. Léveillé, M. Simard *(Montreal, Canada)*

F012 **WEDN 9/7/2014, 12:15 - FENS-1205**

ABSENCE OF PLACEHOLDERS ABOLISHES ATTENTIONAL CAPTURE EFFECTS ELICITED BY A PERIPHERAL CUE IN A VISUAL DISCRIMINATION TASK 3899

F. Sais, E. Seiss, L.E. Ribeiro-do-Valle *(Guildford, United Kingdom)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F013 **WEDN 9/7/2014, 11:15 - FENS-3485**

EFFECTS OF PRISM ADAPTATION AND LOW-FREQUENCY REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION ON VISUOSPATIAL PERCEPTION IN THE HEALTHY BRAIN 3900

A. Salatino, F. Gontero, M. Poncini, M. Caldano, R. Ricci *(Turin, Italy)*

F014 **WEDN 9/7/2014, 12:15 - FENS-2171**

EXECUTIVE FUNCTIONS AND AD/HD RELATED BEHAVIOURS IN SCHOOL CHILDREN 3901

S. Salkicevic, M. Tadinac, I. Hromatko *(Zagreb, Croatia)*

F015 **WEDN 9/7/2014, 11:15 - FENS-0688**

SPATIALLY DIRECTING ATTENTION MODULATES THE NEURAL PATTERNS OF CONFLICT PROCESSING IN A FLANKER TASK - AN FMRI STUDY 3902

J. Siemann, M. Herrmann, D. Galashan *(Bremen, Germany)*

F016 **WEDN 9/7/2014, 12:15 - FENS-1270**

LANGUAGE AND COMMUNICATION OUTCOMES IN CHILDREN WITH AGENESIS OF THE CORPUS CALLOSUM 3903

V. Siffredi, A. McIlroy, V. Anderson, A. Wood, R. Leventer, M. Spencer-Smith *(Parkville, Melbourne, Australia)*

F017 **WEDN 9/7/2014, 11:15 - FENS-2410**

MODULATORY EFFECTS OF CAFFEINE ON HUMAN VISUAL ATTENTION INDEXED BY THE N200 EVENT RELATED POTENTIAL 3904

A. Trunk, N. Zentai, A. Csathó, I. Hernádi *(Pécs, Hungary)*

F018 **WEDN 9/7/2014, 12:15 - FENS-0480**

MANIPULATING THE RHYTHMICAL STRUCTURE OF AUDITORY STIMULI - EFFECTS ON THE COMPLEX AUDITORY BRAINSTEM RESPONSES AND LOW-FREQUENCY NEURONAL OSCILLATIONS 3905

K. Zarnowiec, J. Costa-Faidella, C. Escera *(Barcelona, Spain)*

F019 **WEDN 9/7/2014, 11:15 - FENS-2844**

INVESTIGATION OF POSSIBLE COGNITIVE EFFECTS OF WI-FI ELECTROMAGNETIC FIELDS ASSESSED BY SPONTANEOUS EEG AND PSYCHOMOTOR VIGILANCE MEASURES 3906

N. Zentai, A. Trunk, A. Csatho, P. Juhasz, S. Fiocchi, G.Y. Thuroczy, I. Hernadi *(Pécs, Hungary)*

F28: HUMAN COGNITION AND BEHAVIOUR - DECISION MAKING AND REASONING

F020 **WEDN 9/7/2014, 12:15 - FENS-2255**

CONCEPT COMBINATION WITH LOGICAL CONNECTIVES 3907

G. Baggio, P. Cherubini, D. Pischedda, K. Goergen, A. Blumenthal, J.D. Haynes, C. Reverberi *(Trieste, Italy)*

F021 **WEDN 9/7/2014, 11:15 - FENS-0514**

EEG DINAMICS IN A MODEL OF VIRTUAL SOCIAL INTERACTIONS 3908

A. Bocharov, G.G. Knyazev, J.Y. Slobodskoj-Plusnin, L.V. Pylkova *(Novosibirsk, Russia)*

F022 **WEDN 9/7/2014, 12:15 - FENS-3299**

EFFECTS OF WEIGHT-LOSS SURGERY IN GUSTATORY FUNCTION 3909

M. Camacho, A.B. Fernandes, C. Castro, T. Branco, S. Martins, R.M. Costa, A. Oliveira-Maia *(Mexilhoeira Grande, Portugal)*

F023 **WEDN 9/7/2014, 11:15 - FENS-3240**

DISTINCT VISUAL AND INSULAR NETWORKS UNDERLIE DIFFERENT GAMMA OSCILLATORY PATTERNS DURING THE SAME PERCEPTUAL DECISION-MAKING TASK: A SIMULTANEOUS EEG/FMRI STUDY 3910

M. Castelo-Branco, J.M. Castelhano, I.C. Duarte, E. Rodriguez *(Coimbra, Portugal)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F024 **WEDN 9/7/2014, 12:15 - FENS-3749**
CHANGES IN RESPONSE TIME AFTER ANODAL TDCS PRECONDITIONING OVER THE HUMAN ORBITOFRONTAL CORTEX AND EMOTIONAL STIMULATION IN MORAL DECISION-MAKING 3911
I. Chicchi Giglioli, C. Lucchiari, I. Cutica, R. Ferrucci, A. Priori, G. Pravettoni *(Milan, Italy)*

F025 **WEDN 9/7/2014, 11:15 - FENS-3203**
RESTING STATE BRAIN ACTIVITY (EEG) AS A PREDICTOR OF BENEFITS OF ACTION VIDEO GAMES TRAINING: PILOT STUDY 3912
J. Dreszer-Drogorób, K. Finc, J. Nikadon, J. Gorgol, A. Szymaszek *(Torun, Poland)*

F026 **WEDN 9/7/2014, 12:15 - FENS-3059**
ELECTROPHYSIOLOGICAL CORRELATES OF INTELLIGENCE - EVIDENCE FROM THE FRACTAL ANALYSIS OF THE EEG SIGNAL 3913
J. Nikadon, J. Gorgol, M. Lewandowska, J. Dreszer-Drogorób *(Torun, Poland)*

F027 **WEDN 9/7/2014, 11:15 - FENS-0314**
EFFECTS OF METHAMPHETAMINE ADMINISTRATION ON INFORMATION GATHERING DURING PROBABILISTIC REASONING IN HEALTHY HUMANS 3914
A. Ermakova, P. Ramachandra, P.R. Corlett, P.C. Fletcher, G.K. Murray *(Cambridge, United Kingdom)*

F028 **WEDN 9/7/2014, 12:15 - FENS-1805**
ENDOGENOUS VS. EXOGENOUS ACTION INHIBITION: A TMS-EEG STUDY 3915
S. Ficarella, L. Battelli *(Rovereto, Italy)*

F029 **WEDN 9/7/2014, 11:15 - FENS-3270**
DOES IMPROVEMENT IN TEMPORAL INFORMATION PROCESSING UNDERLIE COGNITIVE BENEFITS AFTER ACTION VIDEO GAME TRAINING? 3916
K. Finc, A. Szymaszek, J. Dreszer-Drogorob *(Torun, Poland)*

F030 **WEDN 9/7/2014, 12:15 - FENS-3639**
NEURAL SIGNALS FOR EXPECTED VALUE AND RISK IN THE MEDIAL PREFRONTAL CORTEX 3917
R. Guido, N. Canessa, G. Baud-Bovy, C. Crespi, A. Falini, S. Cappa *(Milano, Italy)*

F031 **WEDN 9/7/2014, 11:15 - FENS-0346**
ACTIVATIONAL EFFECTS OF SEX HORMONES ON LATERALITY OF 2D VS. 3D MENTAL ROTATION TASKS 3918
I. Hromatko, M. Tadinac *(Zagreb, Croatia)*

F032 **WEDN 9/7/2014, 12:15 - FENS-0269**
SMOKING OR NON-SMOKING: A NEUROMARKETING APPROACH 3919
P. Javadi, S. Zangenehpour, J.C. Chebat, M. Ptito *(Montreal, Canada)*

F033 **WEDN 9/7/2014, 11:15 - FENS-3505**
INCREASED RISK AVERSION AND LOSS AVERSION IN DEPRESSED PATIENTS WITH SUICIDE ATTEMPT 3920
J. Jeong, K. Baek, J. Kwon, J. Chae, Y. Chung *(Daejeon, Korea)*

F034 **WEDN 9/7/2014, 12:15 - FENS-2618**
EXECUTIVE IMPAIRMENT AND FUNCTIONAL OUTCOME FOLLOWING STROKE WITH BASAL GANGLIA LESION 3921
H. Jung, K.L. Joa, E.J. Kim, W.K. Lee *(Incheon, Korea)*

F035 **WEDN 9/7/2014, 11:15 - FENS-1488**
SPEED ACCURACY TRADE-OFF UNDER RESPONSE DEADLINES 3922
H. Karsilar, P. Simen, S. Papadakis, F. Balci *(Istanbul, Turkey)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F036 **WEDN 9/7/2014, 12:15 - FENS-2272**

NEURAL SYNCHRONY DUE TO AUTOBIOGRAPHICAL FACT VIOLATION IN RESPONSE TO SELF-REFERENTIAL QUESTIONS 3923

K. Kim, J.W. Choi, K. Cha *(Wonju, Korea)*

F037 **WEDN 9/7/2014, 11:15 - FENS-3739**

THE ROLE OF LOCUS COERULEUS-NOREPINEPHRINE SYSTEM IN SOLVING THE TRADEOFF BETWEEN SEARCH AND USE OF INFORMATION DURING VALUE-BASED DECISION MAKING 3924

T. Oleksy, S. Wichary, M. Magnuski *(Warsaw, Poland)*

F038 **WEDN 9/7/2014, 12:15 - FENS-1820**

DIFFERENTIAL EFFECT OF A CHRONIC SLEEP DEBT ON COGNITIVE PROCESSES: VULNERABILITY OF YOUNGER PEOPLE 3925

A. Rabat, C. Bougard, L. Roca-Paixao, P. Van Beers, C. Drogou, G. Dispersyn, P.J. Arnal, F. Sauvet, D. Léger, M. Chennaoui *(Brétigny sur Orge , France)*

F039 **WEDN 9/7/2014, 11:15 - FENS-2583**

IMPULSIVE RESPONSE STYLES ARE ASSOCIATED WITH IMPAIRMENTS IN RESPONSE PREPARATION AND RESPONSE EVALUATION 3926

M. Ribeiro, I.R. Violante, M. Castelo-Branco *(Coimbra, Portugal)*

F040 **WEDN 9/7/2014, 12:15 - FENS-2081**

DOPAMINERGIC MECHANISMS UNDERLYING EGALITARIAN BEHAVIOR 3927

I. Saez, D. Wallace, E. Set, S. Zhong, R. Ebstein, S. Chew, A. Kayser, M. Hsu *(Berkeley, USA)*

F041 **WEDN 9/7/2014, 11:15 - FENS-0345**

FUNCTIONAL HEMISPHERIC ASYMMETRIES IN GENDER-BIASED VS. NEUTRAL VERBAL TASKS 3928

M. Tadinac, I. Hromatko *(Zagreb, Croatia)*

F042 **WEDN 9/7/2014, 12:15 - FENS-2630**

EFFECT OF CEREBRAL ACTIVITY ON THE SUCCESS OR FAILURE OF RESPONSE INHIBITION DURING A STOP-SIGNAL TASK: AN ERD/ERS AND ERP STUDY 3929

M. Takayose, A. Mori, R. Koshizawa, K. Oki *(Narashino, Japan)*

F043 **WEDN 9/7/2014, 11:15 - FENS-3419**

COGNITIVE BIAS IN PREFERENCES FOR TEMPORALLY EXTENDED OUTCOME 3930

M. Vestergaard, W. Schultz *(Cambridge, United Kingdom)*

F044 **WEDN 9/7/2014, 12:15 - FENS-1984**

CONDITIONAL PROBABILITY ANALYSIS MEASURED IN A REPEATED BINARY CHOICE TASK REVEALS A SHIFT FROM EXPLORATIVE TO EXPLOITATIVE DECISION-MAKING BEHAVIOUR WITH AGING 3931

C. Victorino, C.F. Da Silva, E. Seiss, M.V.C. Baldo *(Guildford, United Kingdom)*

F045 **WEDN 9/7/2014, 11:15 - FENS-1578**

GENERALIZED COGNITIVE MAPS FOR SOCIAL NAVIGATION IN COOPERATIVE AND NON-COOPERATIVE ENVIRONMENTS 3932

J. Villacorta, V. Makarov *(Madrid, Spain)*

F046 **WEDN 9/7/2014, 12:15 - FENS-0225**

SENSORY EVOKED POTENTIALS AND THE REPRESENTATION OF CORRECT AND INCORRECT IN THE HUMAN ANTERIOR CINGULATE CORTEX 3933

A. Weiss, M. Gillies, A. Green, T. Aziz *(Oxford, United Kingdom)*

F047 **WEDN 9/7/2014, 11:15 - FENS-2543**

MPFC ACTIVITY VARIES WITH DIFFERENCES IN SOCIAL CONFORMITY: MEG STUDY 3934

I. Zubarev, A. Shestakova, A. Ossadtchi, O. Bogolubova, V. Klucharev *(Saint-Petersburg, Russia)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F29: ANIMAL COGNITION AND BEHAVIOUR - MEMORY MODULATION, CONSOLIDATION, AND RECONSOLIDATION

F048 **WEDN 9/7/2014, 12:15 - FENS-2439**
SINGLE-TRIAL MODEL OF ODOR FEAR CONDITIONING FOR CELLULAR STUDIES OF OLFACTORY MEMORY IN MICE 3935
A. Kedrov, K. Anokhin *(Moscow, Russia)*

F049 **WEDN 9/7/2014, 11:15 - FENS-3559**
CORTICOSTEROID REGULATION OF AMPA RECEPTOR MEDIATED SYNAPTIC FUNCTION 3936
H. Krugers, H. Xiong, F. Casse, M. Joëls, S. Martin *(Amsterdam, The Netherlands)*

F050 **WEDN 9/7/2014, 12:15 - FENS-2816**
PREFRONTAL CORTICAL NOREPINEPHRINE DELAYS EXTINCTION OF AMPHETAMINE-INDUCED CONDITIONED PLACE PREFERENCE 3937
E. Latagliata, P. Saccoccio, C. Milia, S. Puglisi-Allegra *(Rome, Italy)*

F051 **WEDN 9/7/2014, 11:15 - FENS-0432**
ROLE OF NF-KB ACETYLATION IN HIPPOCAMPAL GENE EXPRESSION AND MNEMONIC CAPABILITIES 3938
J. Lopez-Atalaya, M. Alcaraz-Iborra, M. Scandaglia, M. Lipinski, A. Barco *(Sant Joan d'Alacant, Spain)*

F052 **WEDN 9/7/2014, 12:15 - FENS-3525**
D-CYCLOSERINE IN THE HIPPOCAMPUS REVERSES RELATIONAL MEMORY DEFICITS IN AGED RATS 3939
M. Martí-Nicolovius, M. Tarrés-Gatius, G. Guillazo-Blanch, M. Portero-Tresserra, A. Vale-Martínez *(Barcelona, Spain)*

F053 **WEDN 9/7/2014, 11:15 - FENS-0940**
ACUTE RESTRAINT STRESS DIFFERENTIALLY MODULATES EPISODIC-LIKE MEMORY DEPENDING ON THE TIME INTERVAL BETWEEN STRESS AND THE MEMORY TASK 3940
J. Micheau, J. David *(Talence, France)*

F054 **WEDN 9/7/2014, 12:15 - FENS-1870**
LINKING MEMORY-RELATED FIRING OF PREFRONTAL NEURONS TO THEIR ENTRAINMENT TO THETA OSCILLATIONS IN THE RHINAL CORTEX AND VENTRAL HIPPOCAMPUS 3941
M. Morrissey, K. Takehara-Nishiuchi *(Toronto, Canada)*

F055 **WEDN 9/7/2014, 11:15 - FENS-2666**
DYNAMIC REGULATION OF MIRNA'S FOLLOWING RESCUE OF IMPAIRED FEAR EXTINCTION 3942
C. Murphy, R. Gstir, V. Maurer, S. Schafferer, N. Whittle, A. Hüttenhofer, N. Singewald *(Innsbruck, Austria)*

F056 **WEDN 9/7/2014, 12:15 - FENS-1143**
DNMT3A2 IS CRITICAL FOR COGNITIVE FUNCTIONS 3943
A. Oliveira, T.J. Hemstedt, H.E. Freitag, H. Bading *(Heidelberg, Germany)*

F057 **WEDN 9/7/2014, 11:15 - FENS-0835**
LONG TERM HIGH-FAT/HIGH-CARBOHYDRATE DIET (HFCD) IMPROVES MEMORY IN RATS 3944
J. Osoba, K. Karwowska, K. Gzielo-Jurek, S. Gazdzinski, Z. Setkowicz *(Krakow, Poland)*

F058 **WEDN 9/7/2014, 12:15 - FENS-1263**
ELIMINATION OF THE VESICULAR ACETYLCHOLINE TRANSPORTER IN THE HIPPOCAMPUS CAUSES DEFICITS IN BEHAVIORAL FLEXIBILITY AND WORKING MEMORY IN MICE 3945
G. Parfitt, M. Al-Onaizi, B. Kolisnyk, D.M. Barros, V. Prado, M. Prado *(London, Canada)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F059 **WEDN 9/7/2014, 11:15 - FENS-2812**

PERINEURONAL NETS DEGRADATION PROMOTES FEAR MEMORY ERASURE THROUGH DISRUPTION OF MEMORY-DRIVEN SPINES ENLARGEMENT IN BASOLATERAL AMYGDALA 3946

A. Pignataro, S. Middei, R. Pagano, M. Ammassari-Teule *(Rome, Italy)*

F060 **WEDN 9/7/2014, 12:15 - FENS-2426**

ANODAL TRANSCRANIAL DIRECT CURRENT STIMULATION ENHANCES HIPPOCAMPAL PLASTICITY, LEARNING AND MEMORY IN MICE: INVOLVEMENT OF EPIGENETIC MODIFICATION OF BDNF PROMOTERS 3947

M. Podda, S. Cocco, A. Mastrodonato, C. Ripoli, S. Fusco, S.A. Barbati, L. Leone, C. Grassi *(Rome, Italy)*

F061 **WEDN 9/7/2014, 11:15 - FENS-0209**

VOLUNTARY PHYSICAL EXERCISE ATTENUATES HIGH FAT / HIGH SUGAR DIET INDUCED SPATIAL DEFICITS IN RATS 3948

A. Reichelt, M.J. Morris, R.F. Westbrook *(Sydney, Australia)*

F062 **WEDN 9/7/2014, 12:15 - FENS-0632**

BRAIN-DERIVED NEUROTROPHIC FACTOR PROMOTES CONDITIONED TASTE AVERSION EXTINCTION 3949

L. Rodriguez-Serrano, B. Ramirez, M.L. Escobar *(Mexico City, Mexico)*

F063 **WEDN 9/7/2014, 11:15 - FENS-3498**

CP55,940 PREVENTS RECONSOLIDATION OF AN AVERSIVE CONTEXTUAL MEMORY WHEN INFUSED BOTH INTO RAT DORSAL HIPPOCAMPUS AND INFRALIMBIC CORTEX 3950

F. Santos, L. De Oliveira Alvares, J. Haubrich, R.O. Sierra, A.P. Crestani, Q.K. Zanona, J.M. Duran, F.D. Dutra, F.Z. Boos, J.A. Quillfeldt *(Porto Alegre, Brazil)*

F064 **WEDN 9/7/2014, 12:15 - FENS-0188**

PHASE II DETOXIFYING ENZYME SYSTEM OF THE HIPPOCAMPUS DISRUPTED IN STRESS-INDUCED MEMORY IMPAIRMENT 3951

M. Sardari, A. Rezayof, F. Khodagholi *(Tehran, Iran)*

F065 **WEDN 9/7/2014, 11:15 - FENS-0716**

HIPPOCAMPAL PYRAMIDAL NEURONS FOLLOW DIFFERENT LEARNING RULES IN A DOSE-DEPENDENT MANNER DURING D1/D5 RECEPTOR-MEDIATED ASSOCIATIVE MEMORY FORMATION 3952

M. Shetty, S. Gopinadhan, S. Sreedharan *(Singapore, Singapore)*

F066 **WEDN 9/7/2014, 12:15 - FENS-2692**

THE HIPPOCAMPAL INMATURE NEURONS IS INVOLVED IN THE DIFFERENT PHASES OF LEARNING AND MEMORY PROCESSES 3953

I. Suarez Pereira, S. Bachiller, S. Canals, A.M. Carrion *(Sevilla, Spain)*

F067 **WEDN 9/7/2014, 11:15 - FENS-1357**

DOPAMINERGIC MODULATION OF AUDITORY DISCRIMINATION MEMORY 3954

W. Tischmeyer, N. Reichenbach, T. Kähne, H. Schicknick, K.H. Smalla *(Magdeburg, Germany)*

F068 **WEDN 9/7/2014, 12:15 - FENS-0295**

MICRORNA-19B ASSOCIATES WITH AGO2 IN THE AMYGDALA FOLLOWING CHRONIC STRESS AND REGULATES THE ADRENERGIC RECEPTOR BETA 1 3955

N. Volk, S. Haramati, E.D. Paul, C. Eitan, B.K.K. Fields, R. Zwang, S. Gil, C.A. Lowry, A. Chen *(Rehovot, Israel)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F30: ANIMAL COGNITION AND BEHAVIOUR - LEARNING AND MEMORY: PHARMACOLOGY

F069 **WEDN 9/7/2014, 11:15 - FENS-1322**

REPEATED ADMINISTRATION OF MEPHEDRONE INDUCES HYPERTHERMIA AND SEROTONINERGIC IMPAIRMENT IN RAT BRAIN 3956

J. Martinez Clemente, R. Lopez-Arnau, D. Pubill, E. Escubedo, J. Camarasa *(Barcelona, Spain)*

F070 **WEDN 9/7/2014, 12:15 - FENS-1403**

MEDIAL PREFRONTAL CORTEX IS NOT REQUIRED FOR, BUT CAN MODULATE, HIPPOCAMPUS-DEPENDENT BEHAVIOUR ON WATERMAZE DELAYED-MATCHING-TO-PLACE TEST 3957

S. Mcgarrity, S. Somerled, C. Eaton, R. Mason, T. Bast, M. Pezze *(Nottingham, United Kingdom)*

F071 **WEDN 9/7/2014, 11:15 - FENS-0201**

EFFECTS OF ASENAPINE AND PALIPERIDON ON MK-801-INDUCED MEMORY DETERIORATION IN RADIAL ARM MAZE IN MICE 3958

O. Mutlu, G. Ulak, E. Bektas, I. Komsuoglu Celikyurt, F. Akar, P. Tanyeri, F. Erden *(Kocaeli, Turkey)*

F072 **WEDN 9/7/2014, 12:15 - FENS-2059**

EFFECT OF TIBOLONE IN THE HIPPOCAMPUS OF AGING MOUSE 3959

T. Neri-Gomez, J. Espinosa-Raya, S. Diaz-Cintra, A. Aguilar-Vazquez, C.H. Guerra-Araiza *(Distrito Federal, Mexico)*

F073 **WEDN 9/7/2014, 11:15 - FENS-1182**

LONG-TERM CONSEQUENCES OF THE CHRONIC ADMINISTRATION OF COCAINE ON BRAIN VASCULAR STRUCTURE 3960

C. Nicolas, M. Francheteau, P.O. Fernagut, M. Solinas *(Poitiers, France)*

F074 **WEDN 9/7/2014, 12:15 - FENS-0395**

ROLIPRAM POTENTIATES NMDA-DEPENDENT LTP AND PREVENTS LTP DEFICIT MEDIATED BY MK-801 IN RAT HIPPOCAMPAL SLICE 3961

I. Niespodziany, S. Tempesta, E. Hanon, C. Wolff *(L'Alleud, Belgium)*

F075 **WEDN 9/7/2014, 11:15 - FENS-3560**

DOPAMINE MODULATES NUMERICAL RULE CODING IN THE PRIMATE PREFRONTAL CORTEX 3962

T. Ott, S.N. Jacob, A. Nieder *(Tübingen, Germany)*

F076 **WEDN 9/7/2014, 12:15 - FENS-3599**

EFFECT OF DONEPEZIL AND MEMANTINE ON SLEEP DEPRIVATION-INDUCED MEMORY IMPAIRMENTS IN THE NON-HUMAN PRIMATE GREY MOUSE LEMUR 3963

F. Pifferi, A. Rahman, Y. Lamberty, E. Schenker, R. Bordet, J. Richardson, F. Aujard *(Brunoy, France)*

F077 **WEDN 9/7/2014, 11:15 - FENS-2346**

PI3K-AKT-GSK3B PATHWAY ACTIVATION IS A REQUISITE FOR ACETHYLCHOLINESTERASE INHIBITOR- AND H3R ANTAGONIST/INVERSE AGONIST-INDUCED PROCOGNITIVE EFFECT IN THE OBJECT RECOGNITION TEST 3964

G. Provensi, M.B. Passani, P. Blandina *(Florence, Italy)*

F078 **WEDN 9/7/2014, 12:15 - FENS-3555**

ETHANOLIC EXTRACT OF ZIZYPHUS JUJUBA VAR. SPINOSA AND ITS ACTIVE COMPOUND SPINOSIN, AMELIORATES MEMORY IMPAIRMENT INDUCED BY SCOPOLAMINE IN MICE 3965

Y. Jo, I. Jung, H. Kim, H. Lee, Y. Lee, Q. Gao, S. Ko, B. Kim, Y. Lee, **J. Ryu**, D. Jang *(Seoul, Korea)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

F079 **WEDN 9/7/2014, 11:15 - FENS-2014**

CAFFEINE MODULATION OF ALCOHOL INTAKE IN MICE: DIFFERENTIAL EFFECTS DEPENDING ON ACCESS CONDITION AND INDIVIDUAL DIFFERENCES OF BASELINE CONSUMPTION 3966

N. San Miguel, L. López-Cruz, P. Bayarri, Y. Baqi, C.E. Müller, J.D. Salamone, M. Correa

(Castellón de la Plana, Spain)

F080 **WEDN 9/7/2014, 12:15 - FENS-2775**

LEARNING AND MEMORY IMPAIRMENT IN MK-801-TREATED RATS WAS IMPROVED BY CLOZAPINE THROUGH A 5-HT1A DEPENDENT MECHANISM 3967

M. Scorza, M.X. López Hill *(Montevideo, Uruguay)*

F081 **WEDN 9/7/2014, 11:15 - FENS-1414**

EFFECTS OF OPIOID ANTAGONISTS ON OPERANT SENSATION SEEKING IN MICE. 3968

M. Sikora, K. Lopata, J. Rodriguez Parkitna, R. Przewlocki *(Krakow, Poland)*

F082 **WEDN 9/7/2014, 12:15 - FENS-1294**

INHIBITORY EFFECTS OF THE EXTRACT FROM THE FRUIT HULL OF MANGOSTEEN ON ACETYLCHOLINESTERASE ACTIVITY IN ADULT MALE RAT BRAINS 3969

R. Srisawat, W. Tongjaroenbuangam, N. Nontamart *(Nakhon Ratchasima, Thailand)*

F083 **WEDN 9/7/2014, 11:15 - FENS-1519**

HISTONE DEACETYLASE INHIBITION HINDERS ACUTE STRESS-INDUCED IMPAIRMENT ON SPATIAL MEMORY AND INCREASED RETRIEVAL-RELATED CORTICOSTERONE RELEASE 3970

V. Vargas-López, M. Lamprea R, A. Múnera *(Bogotá, Colombia)*

F084 **WEDN 9/7/2014, 12:15 - FENS-2080**

OBJECT-IN-CONTEXT LONG-TERM MEMORY FORMATION REQUIRES DORSAL HIPPOCAMPUS AND MEDIAL PREFRONTAL CORTEX ACTIVITY AND IT IS INTERFERED BY ANOTHER OBJECT-IN-CONTEXT EXPERIENCE 3971

M. Villar, M.C. Martinez, F. Ballarini, H. Viola *(Buenos Aires, Argentina)*

F085 **WEDN 9/7/2014, 11:15 - FENS-3617**

NEURONAL MECHANISMS REFLECTING ALTERED ANXIETY-LIKE BEHAVIOUR IN TPH2 DEFICIENT MICE 3972

J. Waider, S. Popp, M. Lange, H.C. Pape, K.P. Lesch *(Würzburg, Germany)*

G14: PHYSIOLOGICAL METHODS - OPTICAL METHODS

G001 **WEDN 9/7/2014, 11:15 - FENS-0069**

PET-LIKE MOLECULAR MRI IN MICRO-RESOLUTION 3973

T. Nakada, K. Suzuki, I.L. Kwee *(Niigata, Japan)*

G002 **WEDN 9/7/2014, 12:15 - FENS-1586**

IMAGING SUBCELLULAR CA2+ DYNAMICS OF NEURONS WITH A HIGHLY RESPONSIVE GENETICALLY ENCODED CA2+ INDICATOR 3974

M. Ohkura, C. Kobayashi, J. Sadakari, T. Sasaki, Y. Ikegaya, J. Nakai *(Saitama, Japan)*

G003 **WEDN 9/7/2014, 11:15 - FENS-0616**

DEVELOPMENT OF A CORRELATION TECHNIQUE BETWEEN SYNCHROTRON X-RAY MICROTOMOGRAPHY AND TEM FOR INVESTIGATION OF NERVOUS SYSTEM DISEASES. STUDYING OF KRABBE DISEASE 3975

P. Parlanti, V. Cappello, G. Tromba, S. Mohammadi, I. Tonazzini, M. Cecchini, V. Piazza, M. Gemmi *(Pisa, Italy)*

G004 **WEDN 9/7/2014, 12:15 - FENS-3597**

ROTATING-POLARIZATION COHERENT-RAMAN MICROSCOPY: IMAGING DEMYELINATION IN REAL-TIME 3976

V. Piazza, G. De Vito, I. Tonazzini, M. Cecchini *(Genova, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

G005 **WEDN 9/7/2014, 11:15 - FENS-1702**
STUDY OF THE INHIBITION OF AMPA RECEPTORS IN PRIMARY CULTURES OF RAT CEREBELLUM NEURONS 3977
L. Pirona, E. Callegari, A. Cilia, D. Graziani, F. Mangiarotti, E. Poggesi *(Milano, Italy)*

G006 **WEDN 9/7/2014, 12:15 - FENS-1538**
BRAIN-WIDE 3D IMAGING OF NEURONAL ACTIVITY IN CAENORHABDITIS ELEGANS WITH SCULPTED LIGHT 3978
R. Prevedel, T. Schrödel, K. Aumayr, M. Zimmer, A. Vaziri *(Vienna, Austria)*

G007 **WEDN 9/7/2014, 11:15 - FENS-1136**
SIMULTANEOUS IMAGING AND PATCH CLAMP RECORDINGS IN LIVE CELLS TO VISUALISE AND INTERFERE WITH ENDOCYTIC VESICLE FORMATION 3979
M. Rosendale, D. Grillo-Bosch, I. Gauthereau, D. Choquet, M. Sainlos, D. Perrais *(Bordeaux, France)*

G008 **WEDN 9/7/2014, 12:15 - FENS-0713**
SINGLE-CELL REAL-TIME IMAGING OF ENERGETIC METABOLITES USING GENETICALLY ENCODED FRET-BASED NANOSENSORS IN ORGANOTYPIC MOUSE HIPPOCAMPAL SLICES 3980
I. Ruminot, J. Schmälzle, A. San Martin, S. Ceballo, L.F. Barros, J.W. Deitmer *(Kaiserslautern, Germany)*

G009 **WEDN 9/7/2014, 11:15 - FENS-0450**
GENETICALLY ENCODED FRET-BASED BIOSENSOR FOR IMAGING MMP-9 ACTIVITY 3981
M. Stawarski, I. Rutkowska, A. Zeug, M. Bijata, H. Madej, L. Kaczmarek, J. Wlodarczyk *(Warsaw, Poland)*

G010 **WEDN 9/7/2014, 12:15 - FENS-3524**
QUANTITATIVE IMAGING OF VARIOUS NEUROCHEMICALS IN THE HUMAN BRAIN 3982
D. Sutoo, K. Akiyama, K. Yabe *(Tsukuba, Japan)*

G011 **WEDN 9/7/2014, 11:15 - FENS-3553**
3D NEURONAL CULTURES COUPLE TO MULTI-ELECTRODE ARRAYS: A NEW EXPERIMENTAL MODEL FOR IN VITRO ELECTROPHYSIOLOGY 3983
M. Tedesco, M. Frega, P. Massobrio, M. Pesce, S. Martinoia *(Genova, Italy)*

G012 **WEDN 9/7/2014, 12:15 - FENS-0406**
QUANTIFYING SURFACE AND VOLUME CHANGES OF CULTURED NEURAL CELLS WITH SCANNING ION CONDUCTANCE MICROSCOPY 3984
D. Thatenhorst, A. Gesper, H. Leßlich, I.D. Dietzel, P. Happel *(Bochum, Germany)*

G013 **WEDN 9/7/2014, 11:15 - FENS-1288**
HIGH SENSITIVITY DIFFUSION-WEIGHTED FUNCTIONAL MRI DETECTS THE ALCOHOL-INDUCED NEURONAL ACTIVITY IN THE NUCLEUS ACCUMBENS IN RATS 3985
T. Tsurugizawa, A. Kitamura, H. Uneyama, L. Ciobanu, D. Le Bihan *(Kanagawa, Japan)*

G15: COMPUTATION, MODELLING, DATA ANALYSIS AND SOFTWARE

G014 **WEDN 9/7/2014, 12:15 - FENS-1266**
A COMPUTATIONAL EXPLORATION OF CONNECTIVITY IN THE CEREBELLAR GRANULAR LAYER 3986
I. Raikov, S. Kumar S, B. Torben-Nielsen, E. De Schutter *(Onna-son, Japan)*

G015 **WEDN 9/7/2014, 12:15 - FENS-2776**
THE ISOTROPIC FRACTIONATOR AS A TOOL FOR QUANTITATIVE ANALYSIS IN CNS DISEASES 3987
I. Repetto, R. Monti, R. Lent, C.H. Andrade-Moraes, A. Vercelli *(Orbassano, Italy)*

G016 **WEDN 9/7/2014, 12:15 - FENS-3377**
RECORDING NEURONAL ACTIVITY FROM SUBCELLULAR COMPARTMENTS BY CA(2+) IMAGING: AN INNOVATIVE ANALYTICAL APPROACH IN TIME-FREQUENCY DOMAIN 3988
F. Ruffinatti, D. Lovisolo, M. Ferraro, A. Gilardino *(Torino, Italy)*

11:15 - 13:15 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
G017	**WEDN 9/7/2014, 12:15 - FENS-2196**	
	BRAIN DYNAMICS ESTIMATION USING A LINEARLY CONSTRAINED MINIMUM NORM SPATIAL FILTER	3989
	J. Sanchez De Lucio, D.M.H. Halliday *(York, United Kingdom)*	
G018	**WEDN 9/7/2014, 12:15 - FENS-1044**	
	MATHEMATICAL MODELING OF CHEMOTAXIS AND GLIAL SCARRING AROUND ELECTRODES	3990
	A. Silchenko, P.A. Tass *(Juelich, Germany)*	
G019	**WEDN 9/7/2014, 12:15 - FENS-1469**	
	HOW CAN A NOVEL ALGORITHM GROUP DIFFERENT TYPES OF CNS NEURONS BASED ON THEIR MORPHOFUNCTIONAL PROPERTIES?	3991
	A. Somogyi, E. Wolf *(Debrecen, Hungary)*	
G020	**WEDN 9/7/2014, 12:15 - FENS-1732**	
	A CLOSE-LOOP EXPERIMENTAL SYSTEM TO INVESTIGATE COMPUTATIONAL PROPERTIS OF NEURAL NETWORKS	3992
	J. Tessadori, M. Chiappalone *(Genova, Italy)*	
G021	**WEDN 9/7/2014, 12:15 - FENS-3241**	
	EFFECTS OF SEROTONIN AGONIST (ESCITALOPRAM) ON INTRINSIC FUNCTIONAL CONNECTIVITY: A PLACEBO-CONTROLLED WITHIN-SUBJECT RESTING-STATE FMRI STUDY	3993
	V. Van de Ven, K.P.C. Kuypers, J.G. Ramaekers, E. Formisano *(Maastricht, The Netherlands)*	
G022	**WEDN 9/7/2014, 12:15 - FENS-1108**	
	LIMITATIONS OF PERTURBATIVE TECHNIQUES IN THE ANALYSIS OF RHYTHMS AND OSCILLATIONS	3994
	K. Wedgwood, K.K. Lin, R. Thul, S. Coombes *(Nottingham, United Kingdom)*	
G023	**WEDN 9/7/2014, 12:15 - FENS-1086**	
	A SPARSE REFORMULATION OF THE GREEN'S FUNCTION FORMALISM ALLOWS EFFICIENT SIMULATIONS OF MORPHOLOGICAL NEURON MODELS	3995
	W. Wybo, D. Boccalini, B. Torben-Nielsen, M.O. Gewaltig *(Lausanne, Switzerland)*	
G024	**WEDN 9/7/2014, 12:15 - FENS-2621**	
	THE TRANSIENT DYNAMICS OF NEURONS AFFECT THE NEURAL CODING	3996
	T. Yamanobe *(Sapporo, Japan)*	
G025	**WEDN 9/7/2014, 12:15 - FENS-3114**	
	UNCOVERING CAUSAL PATHWAYS IN THE CORTEX THROUGH DYNAMIC PERTURBATIONS OF THE HUMAN CONNECTOME USING AN IMMERSIVE MIXED REALITY SPACE	3997
	R. Zucca, X.D. Arsiwalla, A. Betella, E. Martinez, P. Omedas, P.M.F.J. Verschure *(Barcelona, Spain)*	

MISCELLANEOUS

BO99	**WEDN 9/7/14, 11:15 – FENS–3786**	
	DIVERSIFICATION OF A FORM OF GABAB-DEPENDENT SHORT-TERM SYNAPTIC PLASTICITYALONG THE SEPTOTEMPORAL AXIS OF THE HIPPOCAMPUS	3998
	C. Papatheodoropoulos *(Rion, Greece)*	
C169	**WEDN 9/7/14, 11:15 - FENS-2909**	
	INTERICTAL MANIFESTATIONS INTERFERE WITH SPONTANEOUS ACTIVITY AND SENSORY PROCESSING IN MOUSE VISUAL CORTEX	3999
	M. Brondi, **S. Landi**, S. Sulis-Sato, G. Ratto *(Pisa, Italy)*	

11:15 - 13:15 **Poster Area**

BOARD NO	DATE - PRESENTATION TIME – ABSTRACT NUMBER	INDEX NUMBER
C170	**WEDN 9/7/14 – 12:15, FENS-3783**	
	REVERBERATING ACTIVITY IN EXCITATORY SPINAL CIRCUITS AND MOTONEURON PLATEAU POTENTIALS AS MECHANISMS FOR SPASTICITY FOLLOWING SPINAL CORD INJURY	4000
	C. Bellardita, A. Fuchs, O. Kiehn *(Stockholm, Sweden)*	
C171	**WEDN 9/7/14 – 11:15, FENS-3784**	
	THE ROLE OF NEUROGENIN 2 IN APP-STIMULATED NEURAL PROGENITOR STEM CELL (NPSC) DIFFERENTATION	4001
	M. Bolos Jurado, Y. Hu, K. Young, L. Foa, D.H. Small *(Hobart, Australia)*	
C172	**WEDN 9/7/14 – 12:15, FENS-0352**	
	THE ACTION OF CITRUS FLAVONOID - NOBILETIN ON SOME ASPECTS OF BRAIN MITOCHONDRIAL BIOENERGETICS	4002
	N. Sharikadze, N. Jojua, E. Zhuravliova, N. Narmania, T. Barbakadze, D.G. Mikeladze *(Tbilisi, Georgia)*	
D061	**WEDN 9/7/14 – 11:15, FENS-3785**	
	BETA-ADRENERGIC MODULATION OF PLASTICITY IN THE VENTRAL VS. DORSAL HIPPOCAMPUS AFTER JUVENILE STRESS	4003
	G. Grigoryan *(Rehovot, Israel)*	
D059	**WEDN 9/7/14 – 11:15, FENS-3787**	
	LONG-LASTING EFFECTS INDUCED BY REPETITIVE WHISKER STIMULATION ON TACTILE RESPONSES OF RAT BARREL CORTICAL NEURONS	4004
	N. Barros Zulaica, A. Núñez Molina, C.C. Castejón *(Madrid, Spain)*	
D060	**WEDN 9/7/14 – 12:15, FENS-1299**	
	INDUCTION OF INTRACORTICAL PLASTICITY FOR RECIPROCAL MUSCLES BY PAIRED ASSOCIATIVE STIMULATION	4005
	M. Watanabe, M. Suzuki, K. Sugawara, T. Kawaguchi, K. Takahashi, S. Shimizu, A. Matsunaga, M. Fukuda, H. Onishi *(Sagamihara, Japan)*	
G026	**WEDN 9/7/14 – 12:15, FENS-3544**	
	COMPARISON BETWEEN THE ELECTROPHYSIOLOGICAL ACTIVITY OF 2D AND 3D HIPPOCAMPAL NEURAL NETWORKS COUPLED TO MICRO-ELECTRODE ARRAYS	4006
	S. Martinoia, M. Frega, M. Tedesco, P. Massobrio *(Genova, Italy)*	

11:15 - 13:15 **Poster Area**

BOARD NO **DATE - PRESENTATION TIME – ABSTRACT NUMBER** **INDEX NUMBER**

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AUTHOR INDEX

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Aagten-Murphy, D. 3.260
Abad Florensa, S. 1.939
Abad Rodríguez, J. 1.308
Abate, G. 2.573
Abatis, M. 282, 3.629
Abbate, C. 3.144
Abbiati, F. 2.017
Abbracchio, M.P. 1.816, 1.819
Abdelgabar, A. 530
Abe, M. 2.513, 2.760
Abe, Y. 3.149
Abebe, D. 860
Abel, T. 46, 2.265
Abera, S. 3.359
Abeßer, M. 3.762
Abghari, S. 2.970
Abi Farah, C. 3.598
Abiega, O. 129
Abou Jamra, R. 3.503
Abraham, W.C. 1.396, 2.504
Abramov, A.Y. 880
Abramowicz, M. 1.807
Abreu, G. 2.430
Abrous, N. 1.375
Absalom, N. 241
Absenger, M. 3.508
Abushik, P. 294
Abushik, P.A. 2.983
Acatrinei, C. 1.507, 1.688
Acebes, I. 3.311
Aceti, A. 2.915
Aceti, M. 2.213
Achappa, B.P. 2.041
Achaval, M. 2.640
Achsel, T. 135, 463
Ackermann, P.H. 3.889
Ackermann, W. 2.054
Acker-Palmer, A. 2.537
Acosta, C.M.R. 2.012
Acquas, E. 969
Acsady, L. 2.838, 1.429, 3.847
Acton, B. 765
Acton, B.A. 764
Acuna, M. 1.252
Adachi, Y. 1.258
Adamantidis, A. 1.075
Adamantidis, A.R. 1.076
Adamczak, J. 1.492
Adamek, P. 3.283
Adami, R. 1.513
Adams, D. 16, 2.111
Adasme, T. 586, 2.485
Adelman, J.P. 1.357
Adermark, L. 217
Adesida, A. 1.538
Adi, A. 860
Adler, A. 1.273
Ádori, C. 2.812
Adrian, M. 1.887
Adrian, T. 3.036
Adriani, W. 465
Adrien, J. 1.207
Adrienn, K. 295
Ady, V. 540, 2.500
Adzic, M. 3.775
Aebersold, M.J. 1.169
Aebischer, P. 346, 936
Aerts, J. 2.446
Aerts, S. 1.797
Afthinos, M. 861
Afzali, A. 2.774
Agarwal, A. 37
Agasse, F. 470
Aggleton, J. 1.724
Aggleton, J.P. 650, 1.115, 1.740, 2.855
Aghajanian, G.K. 1.591
Aghajanov, M. 1.456
Aghamohammadi-Sereshki, A. 2.300
Agin, V. 1.736
Agnati, L.F. 676, 1.164
Agnese, A.M. 930
Agostinho, P. 2.593
Agostinho, P.M. 2.094
Aguado, F. 3.669
Aguayo, F. 3.321
Aguayo, L.G. 2.515
Agüera, E. 2.026
Aguiar Jr, A. 1.038
Aguiar, D.C. 2.707
Aguiar, W.R. 352
Aguilar Ayala, Y. 992
Aguilar, J. 1.032, 2.560
Aguilar-Vazquez, A. 3.959
Aguilera, J. 1.340, 1.343, 1.993, 2.978
Aguinaga, D. 721
Aguirre, A.I. 614
Aguirre, D. 1.431
Ágústdóttir, A. 1.069
Agustí Feliu, A. 582
Ágústsdóttir, A.B. 1.068
Aharoni, R. 405
Ahissar, E. 30, 3.272
Ahmad, A. 2.087
Ahmadalipour, A. 970
Ahmadian, M.R. 3.553
Ahmaidi, S. 2.157
Ahmed, S. 2.523
Ahmed, S.H. 2.880, 2.887
Ahmed, T. 2.539, 3.024, 3.621
Ahn Jo, S. 2.093, 2.587
Ahn, Y. 2.944
Ahnaou, A. 218, 2.972
Ahonen, L. 1.091
Ahtoniemi, T. 1.962, 2.304
Ahumada, J. 771
Aid, S. 1.940
Aidi-Knani, S. 815
Aiello, R. 2.095
Aigner, L. 1.544, 2.996
Aigner, L.A. 1.492
Aigner, S. 453
Ail, D. 1.615
Aime, M. 3.014
Aina, O.O. 1.538
Airaksinen, M.S. 764
Airavaara, M. 3.111, 3.797, 3.800
Aittomäki, K. 2.286
Ajuria, L. 1.862
Aka, A. 1.964
Akar, F. 3.958
Akasaka, K. 702
Akashi, K. 2.513
Akassoglou, K. 3.163
Akbarian, S. 44
Akbarov, E. 369
Akdogan, B. 1.077
Akerman, C. 389
Akimoto, N. 3.307
Akirav, I. 3.367
Akita, T. 210
Akiyama, K. 718, 3.982
Akkad, D.A. 964
Aksenov, V. 927
Aksoy, D. 3.699
Aktas, O. 398, 2.024
Akther, S. 3.307
Akula, A. 2.523
Akula, A.K. 2.127
Akyuez, L. 1.983
Al Tassan, N. 860
Alabed, S. 583
Alaburda, A. 1.927
Alagrund, K. 2.286
Alahmadi, A. 683
Alaimo, A. 3.572
Alamia, A. 1.689
Alania, M. 719
Alarcón, D. 347
Alarcon, G. 2.007
Alarcón, M. 338
Alasia, S. 866
Alba-Delgado, C. 1.033
Albayram, O. 1.950, 2.250
Albera, R. 787
Alberdi, A. 3.572
Albergaria, C. 522
Alberghina, L. 307
Alberi, L. 607, 1.727
Albert Gascó, H. 1.421, 2.834, 3.540
Albert, Z.S. 3.614
Alberti, M. 2.170
Alberto, M. 1.366
Albillos, A. 749, 1.858
Albiol, S. 576
Alboni, S. 3.025
Albrecht, S. 409, 2.014
Albutt, D. 2.925
Alcacer, C. 3.071
Alcantara, S. 1.770
Alcaraz Iborra, M. 548, 3.938
Alcaraz, F. 3.849
Alcázar, A. 766
Alé, A. 915
Alekhina, T.A. 2.705
Aleksandrova, E.A. 701
Alenina, N. 1.754, 2.474
Alessandrini, F. 426
Alessi, C. 1.865
Alexander, D. 662
Alexandre, B.S. 2.478
Alexandre, C. 2.192
Alexandru Calin, A.C. 1.502
Alexandru Stoian, A.S. 1.502
Alfano, C. 1.288, 2.960
Alfaro Sanchis, J. 3.046
Alfaro-Cervello, C. 190
Alferink, J. 1.950
Alfiero, T. 2.162, 2.918
Alfonso, J. 193
Algeo, M.P. 1.720
Alhebshi, A. 3.685
Alho, A.T.L. 3.288
Ali, A. 1.796
Ali, A.B. 3.095
Ali, M. 2.211
Aliane, V. 444
Aliyarbayova, A. 369
Alkalaeva, E. 1.418
Alkass, K. 1.718
Alkuraya, F. 3.212
Allain, A.E. 685
Allaman, I. 296, 647, 1.541
Allard, J. 3.435
Allard, L. 2.625
Allegra Mascaro, A.L. 1.776
Allegra, M. 403
Allen, A. 1.690
Allen, A.E. 1.621, 2.147
Allen, K. 1.426
Allen, N. 1.201
Allen, N.D. 1.467
Aller, M.A. 1.559
Allerborn, M. 1.734
Allio, A. 3.642
Alloisio, S. 1.180
Almansa, I. 2.059
Al-Masmudi Martin, M. 585
Alme, C.B. 3.348
Almeida, A. 513
Almeida, O.F.X. 587, 2.191, 2.674, 3.345
Almeida, R.D. 1.832, 3.522

Almeida, S.S. 3.320
Al-Moyed, H. 1.003
Almudena Capilla, A. 571
Alnaemi, F. 860
Al-Odat, I. 237
Aloe, L. 1.633
Aloe, R. 1.514
Aloisi, E. 449
Al-Onaizi, M. 3.945
Alonso Y Gregorio, S. 749
Alonso, A.G. 3.318
Alonso, J.R. 2.598, 2.643
Alonso-Calviño, E. 1.032, 3.834
Alpar, A. 1.311, 782, 1.289
Alpas, B. 3.330
Alquicer Barrera, G. 1.160
Alsahafi, Z. 3.852
Altaweel, K. 2.012
Althof, D. 750
Altmann, P. 1.525
Altmann, V. 3.691
Alural, B. 923
Alva, P. 1.490
Alvarez Ferradas, C. 3.047
Alvarez Herrero, S. 363
Alvarez Palomo, A. 1.528
Alvarez Sánchez, M. 1.727
Alvarez, A. 2.182, 3.145
Alvarez, S. 918, 2.022
Alvarez-Bolado, G. 1.424
Alvarez-Sanchez, M. 1.759
Álvaro, A.R. 3.301
Alvaro, G.S. 3.571
Alzheimer, C. 258, 514
Amadeo, A. 823, 1.839
Amadio, M. 854
Amador-Campos, J.A. 3.257
Amairi, B. 790
Amalric, M. 815, 3.072, 3.076
Amano, I. 2.107
Amano, M. 2.180
Amano, T. 1.392
Amar, M. 252, 451
Amaral, D.G. 865
Amaral, J. 1.941
Amaro-Leal, A. 3.316
Amat, J. 1.152
Amato, D. 2.719
Amato, G. 1.446
Ambrosecchia, M. 432, 482
Ambrosi, A. 2.139
Ambrosi, G. 816, 3.708
Ambrosino, P. 521, 1.364, 1.365, 3.572
Ambrósio, A.F. 1.618
Ambrosio, E. 2.074
Ambrozek-Latecka, M. 3.045
Amedee, T. 264, 3.031
Amedi, A. 1.608, 1.613, 2.400
Amelchenko, E. 2.212
Ameloot, M. 394
Amemori, T. 1.453, 2.652
Amendola, E. 466, 868, 3.224
Amendola, J. 1.926
Amici, R. 1.601, 3.873
Amigó, J. 1.583
Amin, E. 650
Amin, H. 1.170
Ammann, C. 1.173
Ammar, M.R. 252
Ammassari-Teule, M. 110, 1.944, 2.213, 3.662, 3.946
Ammendrup, K.E. 1.069
Ammer, G. 1.419
Ammersdörfer, S. 1.660, 3.343
Amor, D. 3.718
Amore, M. 3.199
Amoroso, D. 2.293
Amrein, I. 1.803, 1.810
Amschl, D. 1.999
Ana Gomez Soria, A.G. 2.603
Analía, B. 347
Anastasia, A. 722, 729
Anastasiades, P. 2.312
Anastasiadou, S. 392
Anbalagan, S. 1.197
Andanson, S. 1.757
Anday, E. 3.309
Anderberg, R. 549
Anderegg, A. 177
Andero Gali, R. 3.380
Andersen, H.H. 510
Andersen, J.P. 819
Andersen, P.M. 2.613
Andersen, S. 3.346
Andersen, S.L. 1.595
Anderson, A.E. 129
Anderson, D. 249
Anderson, J. 2.736
Anderson, M. 798
Anderson, V. 3.903
Andersson, M. 1.478, 2.910
Anderzhanova, E. 2.680
Ando, N. 1.972
Andolina, D. 2.645, 2.689, 2.798
Andrade Talavera, Y. 1.896
Andrade, G. 348
Andrade, G.M. 349, 359, 2.260, 3.081, 3.121, 3.695
Andrade, P.A. 3.761
Andrade-Moraes, C.H. 3.288, 3.987
Andrade-Navarro, M.A. 3.725
Andrásfalvy, B.K. 1.779
Andrási, T. 259
Andratsch, M. 514, 920
Andrè, S. 1.308
Andre, V. 1.312, 2.173
Andrea Raballo, A.R. 3.199
Andreev, Y. 519
Andreeva, E. 2.831
Andreeva, T. 339
Andréll, P. 3.162
Andrén, A. 3.705
Andreoni, M. 2.915
Andres, C. 462
Andres, C.R. 468, 858, 3.745, 3.746
Andrés, M. 3.505
Andres, M.E. 723, 2.105, 971, 2.182, 3.790
Andres-Alonso, M. 1.368
Andressoo, J.O. 1.988
Andreu, A. 688
Andrews, J. 428
Andrews, W. 2.928
Andrews-Zwilling, Y. 1.432
Andriambao, N. 1.375
Andric, S. 3.775
Andrieu, P. 1.703, 2.725
Andrieux, A. 869
Andrioli, A. 1.567, 2.644
Andrione, M. 3.247
Anefors, C. 549
Anelli, L. 3.543
Ang, S. 3.475
Angelatou, F. 355, 356, 357, 1.333, 1.997, 2.986
Angelats, E. 721
Angeles, D.C. 817
Angelica, V. 1.476
Angenstein, F. 2.903
Angerilli, A. 2.221
Angliker, N. 1.846
Ango, F. 2.929
Angulo, M.C. 3.061
Angulo-López, J.M. 1.758
Anikeeva, P. 1.185
Aniol, V. 1.477
Anisimova, M. 283
Aniszewska, A. 1.133, 2.799
Ankersmit, H.J. 1.525
Ankri, L. 523
Anna, C. 429
Annunziato, L. 767, 880, 883, 894, 905, 2.595, 3.116, 3.139
Anobile, G. 862
Anokhin, K. 703, 1.134, 1.135, 2.212, 2.959, 3.424, 3.426, 3.935
Anokhin, K.V. 1.136, 1.137
Anrather, J. 3.138
Ansado, J. 689
Ansoleaga, B. 2.568
Anstey, J.E. 86
Ansuini, C. 2.748
Antal, A. 1.110
Antal, K. 448
Antal, M. 295, 1.318, 2.941, 3.276, 3.279
Antaramian, A. 2.861
Antila, H. 3.767
Antkiewicz-Michaluk, L. 1.572, 2.686, 3.782
Antolini, R. 3.247
Anton, F. 2.801
Anton, S. 3.238
Antón-Bolaños, N. 1.317
Antonelli, A.R. 1.251
Antonelli, R. 1.883
Antón-Fernández, A. 1.366
Antoni, F. 430, 2.584
Antoni, F.A. 3.555
Antonietti, A. 531
Antonios, J. 1.824
Antoniou, A. 2.092
Antoniou, D. 1.290
Antoniou, K. 2.674, 2.703
Antonov, S.M. 294, 2.983
Antonova, I. 431
Antonucci, F. 224, 1.889, 1.905, 2.526, 2.535
Antopolskiy, S. 1.023
Antri, M. 1.033
Anttila, J. 3.111
Antunes, A.M.M. 2.262
Antunes-Rodrigues, J. 3.320
Anuncibay Soto, B. 898, 3.112
Anwar, M. 2.759
Anzilotti, S. 2.595, 3.116
Aourz, N. 384
Aparicio, S. 2.255
Aperia, A. 1.773
Appledorn, D. 1.770
Appleton, B. 2.857
Aprile, D. 207
Arab, A. 1.986
Aracri, P. 1.839
Aradi, M. 646
Arai, Y. 183
Arakawa, H. 1.034
Arakawa, M. 702
Arama, J. 1.822
Arancillo, M.K.V. 3.298
Arancio, O. 644
Araneda Hinrichs, N. 1.094
Araneda, R. 960, 1.078
Arango-Gonzalez, B. 1.637
Aranha, M. 2.275
Araque, A. 32, 220, 3.048
Araujo, J.F. 485, 1.610
Araújo, P.R. 2.260
Arbat Plana, A. 911
Arber, S. 90, 1.187, 1.658, 2.159
Arbo, B.D. 1.533
Arboleda Granados, H. 3.655
Arboleda, H. 2.690
Arbones, M.L. 1.964
Archens, L. 2.446
Archer, N. 478
Arckens, L. 488, 2.742, 2.860, 2.902, 3.360, 3.622

Arcos-Diaz, D. 1.140
Arcuri, L. 350, 3.697
Ardizzi, M. 432, 482
Arena, A. 1.380, 1.420, 2.139, 3.106
Arenas, F. 3.694
Arendt, T. 782
Arendt-Nielsen, L. 510
Areso, P. 3.572
Ares-Santos, S. 3.784
Argandona, E.G. 1.742
Argandoña, E.G. 1.727, 3.339
Argentini, C. 1.558
Argyri, L. 1.942
Arhem, P. 3.564, 2.927, 3.195
Arias, A. 586
Arias, C. 1.679
Arias, J. 1.559
Arias, J.L. 926, 1.559, 2.235, 3.342, 3.362
Arias, N. 926, 1.559
Arias, P. 2.203
Arican, R.Y. 917
Aricescu, R. 3.458
Arico', E. 983
Arida, R.M. 608
Arieli, A. 3.272
Arion, V. 3.368
Aristieta, A. 3.704
Arlotti, M. 2.919
Armangué, T. 3.557
Armario, A. 1.767
Armengol, J.A. 1.374
Armentano, M. 186, 187
Armentero, M.T. 361, 3.708
Armida, M. 222
Armstrong, J. 870
Arnal, I. 2.439
Arnal, P.J. 3.925
Arnal-Vicente, I. 1.421, 2.834, 3.540
Arnardóttir, H. 1.069
Árnason, B.B. 1.070
Arnese, R. 842
Arnoldussen, I. 625
Arnon, R. 405
Arnott, G. 2.051
Arnoux, I. 132
Arnulfo, G. 663, 2.194, 3.604
Aroca, P. 178
Aroeira, R. 3.580
Arola, L. 1.117
Aronica, E. 1.487, 2.591
Arosio, A. 3.744
Arp, M. 730
Arpone, M. 3.718
Arranz Tagarro, J.A. 757, 853, 3.308
Arrazola, M. 407
Arredondo, C. 971
Arredouani, S. 115
Arrighi, R. 496
Arshakyan, S.V. 3.876
Arsiwalla, X.D. 3.997
Artacho, E. 1.693
Arthaud, S. 2.816
Arthur, S. 1.327
Artigas, F. 429
Artola, A. 1.033, 2.695
Artuch, R. 3.693
Artusi, R. 987
Arumugam, S. 841, 3.737
Arvidsson, E. 3.705
Arzt, M.E. 1.417
Asada, A. 3.256
Asai, M. 2.246
Asai, N. 2.246
Asan, E. 515
Asato, M. 3.043
Aschauer, D. 993
Aschrafi, A. 215, 1.668, 2.970, 3.039
Ascoli, G. 2.214
Aseyev, N. 1.597
Asher, T.E. 120
Aslam, M. 734
Aslani, S. 587
Aso, Y. 2.276
Asplund, M. 3.428
Assali, A. 2.368
Assis, A.L.C. 3.081
Assmann, A. 3.772
Assmann, J. 393
Asth, L. 2.684, 3.771
Astikainen, P. 2.210
Astiz, M. 550
Astori, S. 731, 732
Astrand, E. 2.832
Aswendt, M.A. 1.492
Atacho, D. 928
Atanasova, B. 3.246
Atanasova, D. 3.863
Atangan, J. 2.145
Ates, H. 925
Atlasz, T. 929, 1.630, 2.042
Atona, A. 1.138
Atsak, P. 2.215, 2.216, 3.378
Attali, B. 3.568
Attie, A. 1.824
Attwood, L. 1.493
Atucha, E. 2.216
Aubert, E. 1.835
Aubry, F. 933, 1.968
Audano, M. 2.017
Audige, M. 2.854
Audinat, E. 132
Auer, E. 3.679
Auerbach, B. 2.544
Auguadri, L. 1.252
Augustin, O.A. 2.640
Augustin, T. 323
Aujard, F. 637, 3.963
Aumayr, K. 3.978
Auregan, G. 933
Auwerx, J. 1.304
Avagliano, C. 3.202
Avagliano, L. 209
Avaliani, N. 1.478
Avanzini, M.A. 361
Avdic, U. 3.372
Aveleira, C.A. 3.301
Avenanti, A. 2.793
Avendaño, C. 1.035
Avendaño-Guzman, E. 682
Averkin, R. 7
Averkin, R.G. 2.914
Avignone, E. 3.064
Avila, C.L. 668
Avila, J. 2.690, 2.439
Avila, M. 338
Ávila-Martín, G. 2.658
Ávila-Rodriguez, M.A. 2.804
Aviles, A. 1.421
Awatramani, R. 177, 1.161
Ay, S. 3.330
Ayad, A. 180
Ayala, A. 2.582
Ayata, C. 3.002
Ayaz, A. 1.024, 2.405
Aykan, S. 3.330
Ayuso, M.I. 766
Azarias, G. 314
Azcoitia, I. 2.017
Azeez, I.A. 1.567
Azieva, A. 1.162
Aziz, A. 972
Aziz, T. 3.933
Aznar-Casanova, J. 3.257
Azzinnari, D. 1.576, 1.665
Azzouz, M. 2.623
Ba, W. 3.039, 1.395
Baatout, S. 2.296, 3.167
Babaev, O. 1.884
Babalian, A. 3.403
Babapoor-Farrokhran, S. 3.258
Babayan, B. 588
Babic, M. 315
Babicola, L. 2.798
Babilodze, M. 2.097, 2.100
Babiloni, C. 1.971, 2.198, 2.915
Babits, B.R. 1.909
Babluk, E.V. 3.774
Babraj, M. 780, 3.516
Babu Gona, K. 907
Baby Chakrapani, P.S. 2.945
Bacalum, M. 394
Baccei, M. 2.186
Bacci, A. 2.374, 2.376, 3.603
Bachatene, L. 2.138
Bachi, A. 724, 1.382
Bachiller Sánchez- Arévalo, S. 1.393
Bachiller, S. 1.374, 3.953
Bachman, J.l. 2.225
Bachmann, A. 1.748
Bachor, H.A. 1.780
Bachy, I. 2.929
Baciak, L. 2.467
Bäckström, T. 248
Bacmeister, L. 1.848
Bacq, A. 434
Badaloni, A. 693, 842, 2.602
Baddeley, D. 1.893
Bader, M. 590, 1.527, 1.754, 2.474, 3.017
Bader, N. 3.524
Badia, J. 1.181
Bading, H. 1.344, 1.903, 2.505, 3.943
Badolo, L. 3.419
Badoud, S. 2.169
Badouna, M. 1.333
Badran, B. 1.977
Badstübner, K. 351
Bae, B.I. 1.193
Bae, S. 3.270
Bae, Y.C. 1.923
Bae, Y.S. 3.207
Baehr, M. 2.015
Baehrens, D. 750
Baek, K. 3.920
Baekelandt, V. 3.431, 3.698
Baez, M.V. 614
Baéz, X. 1.371
Bagdasarian, K. 30
Bagdy, G. 2.812
Bagetta, V. 3.716
Baggio, G. 3.907
Baglivo, F. 573
Bagni, C. 135, 463
Bagnoli, C. 2.198
Bagó, A. 3.107
Bagosi, Z. 1.052, 3.886
Bagur, S. 627
Bahi, N. 841, 3.737
Bahi-Buisson, N. 2.932
Bahl, A. 2.749, 2.761
Bahmer, A. 1.174
Bähr, M. 822, 839, 1.518, 3.178
Bähring, R. 1.875
Bai, X. 1.817
Baier, H. 146, 674
Baier-Bitterlich, G. 908, 910
Baiguera, C. 3.702
Bailey, J. 1.771
Bailey, K. 687
Bair, H. 1.706
Baj, G. 450, 467, 657, 939, 2.486, 2.496, 2.696
Bajjalieh, S.M. 2.537

Bakalkin, G. 1.718
Baker, K. 203
Baker, S. 759
Baker-Andresen, D. 1.412, 2.062, 3.370
Bakk, E. 3.276, 3.279
Bakkum, D.J. 31
Bakola, S. 2.737, 2.755, 3.810
Bakoyiannis, I. 930
Bakshi, N. 3.758
Bal, N. 1.404, 1.418
Balaban, P. 1.404, 2.217
Balaban, P.M. 1.597
Balanca, B. 1.677
Balás, I. 3.689
Balayssac, S. 385
Balázs, A. 1.318, 2.941
Balazsfi, D. 1.752, 3.393
Balbi, P. 664
Balci, F. 1.077, 3.922
Balconi, M. 3.892
Baldassarro, V.A. 874, 2.569
Baldelli, P. 207, 274, 1.400, 1.450, 2.533, 3.592
Baldessarelli, S. 684
Baldo, M.V.C. 3.931
Balducci, C. 1.433, 1.970, 1.973
Baldy, C. 690
Balea, P. 626
Balemans, M.C. 3.509
Balerio, G. 3.799
Balestrieri du-Marteau, E. 464
Balestrin, N.T. 3.044
Balestrucci, P. 2.750
Balezina, O. 3.545
Bali, Z. 2.247
Bali, Z.K. 2.248
Balice-Gordon, R. 3.557
Balijepalli, A. 3.853
Balik, A. 2.498
Ballarin, C. 1.606
Ballarini, E. 965
Ballarini, F. 3.971
Balleine, B. 2.882
Ballerini, A 3.326
Ballif, B.B. 2.943
Ballini, M. 31
Ballotta, D. 1.691, 2.002
Ballout, N. 710, 712
Bally-Cuif, L. 2.318
Balog, G. 720
Balog, M. 1.053
Balogh, M. 929
Balogova, Z. 994
Balschun, D. 2.539, 3.024, 3.621
Balsevich, G. 551, 1.674, 2.680
Bamber, J. 995
Bamji, S.X. 1.213
Bammann, R.R. 2.479
Banasik, T. 669
Bandin, S. 176, 1.352
Bando, Y. 2.029
Bandtlow, C.E. 920
Banfi, T. 677, 1.079
Bani, D. 2.068
Banks, S. 2.070
Bannerman, D.M. 3.371
Banni, S. 1.498
Banta Lavenex, P. 574, 865, 1.692, 1.699
Bao, G. 665
Bao, S.Y. 3.201
Baqi, Y. 2.488, 3.966
Baquer, N. 321
Bär, J. 1.952
Barabino, S. 3.744
Baracskay, P. 387, 628
Baranauskas, G. 497
Baranger, K. 1.943, 3.647
Baranyi, M. 3.086
Barattini, P. 3.665
Barbakadze, T. 4.002
Barbakadze, T. 4.002
Barbancho-Fernández, M.A. 3.869
Barbano, M.F. 2.879
Barbati, C. 1.661
Barbati, S.A. 2.848, 3.947
Barber, M. 183
Barberis, A. 1.248, 3.558, 3.559
Barbic, M. 1.779
Barbier, E.L. 869
Barbierato, M. 1.558
Barbieri, A. 3.850
Barbieri, M. 1.491
Barbiero, I. 2.633
Barbizan, R. 2.779
Barbon, A. 1.529, 3.033
Barbosa Jr, F. 2.208
Barbosa, F. 570, 1.082
Barbosa, I.G. 3.690
Barbosa, L.S. 668
Barbosa, R.M. 2.590
Barbosa, S. 2.640
Barbry, P. 1.292
Barbuti, A. 2.004
Barcal, J. 932
Barco, A. 41, 45, 1.461, 1.472, 3.514, 3.938
Bardoni, B. 2.486
Bardoni, B.B. 481
Bardy, C. 1.175
Barger, Z. 2.971
Bari, F. 1.499
Barik, J. 3.482
Barilani, M. 1.514
Barini, E. 325
Bariselli, S. 3.016
Barjola, P. 1.082
Bark, C. 3.311, 3.317
Barkai, E. 774, 3.022
Barlati, S. 3.033
Barman, A. 2.824, 3.772
Barmashenko, G. 3.017
Barna, B.F. 3.713
Barna, I. 1.752, 3.393
Barnabé-Heider, F. 2.466
Barnier, J. 451
Barnier, J.V. 252, 470
Barnstedt, O. 996
Baroncelli, L. 3.533
Barone, I. 565
Barone, L. 951
Barone, P. 1.573
Barral, S. 1.297
Barraviera, B. 2.775, 2.779
Barre, A. 1.853
Barreiro-Iglesias, A. 1.521, 2.663
Barrese, V. 1.364, 1.365
Barrett, D.A. 2.189
Barrios, A. 3.505
Barrios, V. 550
Barrós Millàs, P. 589
Barros Zulaica, N. 4.004
Barros, D.M. 3.945
Barros, L.F. 3.980
Barski, J. 634
Barski, J.J. 876, 3.292
Barski, L. 822
Barta, B. 3.280
Bartelik, A. 2.873
Bartesaghi, R. 466, 873
Bartha, T. 2.181, 3.305
Barthelemy, C. 468
Barthet, G. 2.570
Barthó, P. 3.847
Bartkowiak-Wieczorek, J. 3.554
Bartkowska, K. 204
Bartlett, C. 3.165
Bartoli, M. 862
Bartolini, G. 2.930, 3.233
Bartolomucci, A. 563, 1.748
Bartos, M. 2.377
Bartres Faz, D. 2.198
Bartsch, D. 3.582
Bartsch, J. 435
Barygin, O. 733, 2.992
Barykina, N. 3.424
Barzago, C. 846
Barzegaran, E. 2.000
Basaure, P. 2.267, 2.822, 2.839
Bashiardes, S. 1.569
Bashir, Z.I. 585
Basi, G. 873
Baskaran, P. 1.258
Bas-Orth, C. 1.344
Bassani, S. 473, 474, 3.214, 3.467
Bassareo, V. 2.061, 2.863
Bassi, S. 2.525
Basso, M. 1.523
Basso, N.R.S. 2.786
Bast, T. 3.957
Basta-Kaim, A. 1.574, 1.575, 2.060, 2.670, 3.777, 3.885
Bastianini, S. 2.197
Bastlund, J.F. 3.573
Bastos, F. 2.524
Bastos, F.M.C. 1.885
Batagello, D.S. 3.312
Batalha, V. 590
Batalha, V.L. 832, 2.262, 2.488
Bathellier, B. 2.124
Bathellier, B.B. 993
Bathgate, R.A.D. 2.292
Bator, E. 436, 3.180
Battaglia, D. 1.422, 3.602
Battaglia, F. 80
Battaglia, G. 3.706
Battaglioli, E. 3.102, 3.452
Battefeld, A. 297
Battelli, L. 3.915
Batti, L. 2.039
Battista, N. 224
Battonyai, I. 720
Baud-Bovy, G. 999, 2.151, 3.917
Baudet, M.L. 2.430
Baudonnat, M. 2.864, 2.866
Bauer, C. 3.647
Bauer, M. 1.364
Bauer, S. 3.221
Baufreton, J. 3.049
Baum, P. 452
Bauman, A. 2.265
Baumann, A. 1.358
Baumann, B.B. 3.229
Baumann, U. 1.174
Baumeister, J. 1.702
Baumeister, S. 1.833
Bäumer, B.E. 920
Baumuratov, A. 715
Bauza, M. 2.129
Bavassano, C. 2.596, 2.599
Bayarri, P. 3.966
Bayer, S. 2.597
Bazelot, M. 260
Bazhenov, M. 1.895
Bazhenova, D. 3.361
Bazovkina, D. 1.753
Bazovkina, D.V. 2.261
Bear, M.F. 2.544
Beattie, R. 1.291
Beauchamp, M. 689
Beaudet, G. 591
Becamel, C. 1.853
Beccari, S. 129
Becchetti, A. 1.839

Becchi, S. 2.049
Becchio, C. 2.748, 3.190
Becerra, J. 1.694
Bechert, J. 2.894
Bechi, G. 1.872, 2.001, 3.218, 3.762
Beck, D.M. 3.268
Beck, H. 291, 636, 1.929, 3.101
Becker, C.M. 3.074
Becker, C.M.B. 2.624
Becker, D. 778, 1.394, 2.055
Becker, J. 973
Becker, J.A.J. 3.209
Becker, K. 1.778
Becker, L. 2.597
Becker, T. 552
Beckers, G.J.L. 3.615
Beclin, C. 1.292, 1.297
Bedenk, B. 598, 2.680
Bedford, C. 753
Bedford, R. 2.147
Bedini, G. 3.141
Bednarczyk, J. 376
Bedogni, F. 461
Bedwell, S. 3.425
Beeg, M. 1.433
Beesley, P.W. 791
Beets, I. 3.552
Begega, A. 3.342, 3.362
Beggiato, S. 222, 874
Beghi, E. 3.423
Behl, C. 3.154
Behr, J. 435
Behr, K. 453
Beiderbeck, D.I. 3.313
Beier, C. 1.264
Beier, K. 23
Beierlein, M. 1.350
Beining, M. 1.812
Beique, J.C. 1.830, 2.511
Beiranvand, F. 1.864
Beis, D. 1.754
Bekar, I.P. 3.330
Bekiari, C. 185
Bekinschtein, T.A. 573
Bekisz, M. 1.025
Bekku, Y. 1.680
Bektas, E. 3.958
Belan, P. 240, 957
Belchior, H. 592
Beldjoud, H. 593
Beldzik, E. 2.751, 2.754
Bele, T. 511
Belelli, D. 430
Belenguer, G. 2.956
Beletsky, I. 909
Beleza, R.O. 2.045
Belfiore, M. 2.139
Belghazi, M. 1.943
Belinskaya, D. 733
Bellak, T. 1.511
Bellamy, T.C. 288
Bellani, S. 818
Bellardita, C. 4.000
Bellardita, C. 4.000
Bellenchi, G.C. 694, 1.915, 3.500
Bellés, M. 594, 597
Bellesi, G. 1.095, 1.104
Bellesi, M. 2.808
Belletti, D. 3.170
Belliart-Guérin, G. 2.276
Bellini, I. 3.742
Bellisario, V. 1.661
Bellistri, E. 2.560
Bello, L. 2.161, 2.162, 2.918
Bellocchio, L. 945
Bellon, A. 2.430
Bellone, C. 68, 69, 3.016
Belluardo, N. 1.164
Bellucci, A. 3.083, 3.092, 3.702
Belluzzi, E. 341
Belluzzi, O. 1.360
Belova, O. 3.368
Beltram, F. 922, 2.487
Beltramo, R. 292
Belzung, C. 2.677, 1.588, 2.682, 3.246
Ben Hamed, S. 484, 2.832, 3.815
Benaki, D. 1.442
Benani, A. 555, 564
Benarese, M. 1.443, 2.036, 3.132, 3.702
Benati, D. 2.049
Benazzouz, A. 353
Benchenane, K. 627, 2.223, 2.224
Benchoua, A. 1.165, 2.090
Bencsik, R. 1.298
Benda, J. 2.917
Bender, F. 799, 802
Bender, J. 3.541
Bender, R. 1.875
Bendini, M. 3.267
Bendotti, C. 843, 849, 856, 3.733, 3.735
Bendova, Z. 3.327, 3.542, 1.662, 2.813
Bene, R. 558
Benecke, R. 351
Benedek, G. 446, 1.046
Benedetti, B. 406
Benedetti, F. 1.210
Benedetti, H. 462
Benedetti, L. 364
Benedetti, R. 3.571
Benedetto, A. 498
Benetatos, J.B. 3.153
Benetti, F. 2.218, 2.219
Benevento, M. 3.509, 1.395
Benfante, R. 457, 1.382, 3.719
Benfante, R.b. 1.861
Benfenati, F. 207, 274, 476, 713, 1.400, 1.450, 1.870, 2.293, 2.436, 2.463, 2.469, 2.533, 2.536, 2.943, 3.213, 3.558, 3.592
Bengtson, C.P. 2.505
Bengtsson-Gonzales, C. 2.709
Bengtzon, J. 1.478
Benhaim, L. 933
Benítez-Temiño, B. 2.618, 2.619
Benito Garagorri, E. 1.434
Benito, E. 3.514
Benito, N. 2.565, 2.566
Ben-Jacob, E. 301
Benlloch-Navarro, S. 934, 2.059
Bennaï, S. 2.578
Benner, S. 2.794
Bennetau-pelissero, C. 583
Bennett, C.F. 2.609
Bennett, J. 2.337, 2.338
Bennett, M.A. 3.206
Bennett, S. 599
Bennett, S.H. 1.747
Bennis, M. 2.368
Benoist, M. 3.018
Benoit-Marand, M. 711, 1.976, 2.482
Benotmane, M.A. 2.296, 3.167
Bensaid, M. 354
Bensalem, J. 600
Bentivoglio, M. 54, 1.552, 1.567, 1.971, 2.037, 2.058, 2.644
Benton, C. 377, 3.106
Benton, M. 976
Benucci, A. 2.745, 2.908
Benuzzi, F. 1.691, 2.002
Beppu, K. 2.528
Bera, S. 1.163
Berardi, N. 565, 1.139, 3.533
Berbotto, S. 2.850
Berditchevskaia, A. 2.868
Berdondini, L. 1.170, 1.171, 1.172, 2.563, 2.564
Beregszászi, P. 1.183
Berengeno, A. 3.168
Berenguer, H.C. 3.339
Beretta, L. 1.420
Beretta, S. 3.423
Berezhnoy, D. 616
Berezin, V. 1.430, 1.546, 2.656, 2.973, 3.027
Berg, B. 1.760
Berg, B.M. 649
Berg, R.W. 3.854, 3.855
Bergami, M. 2.444
Bergamini, G. 693, 1.576
Bergeron, R. 2.511
Bergersen, L. 1.386
Bergersen, L.H. 1.485
Bergese, S. 2.054
Berggren, P.O. 546
Bergles, D. 37
Bergman, H. 26, 1.273
Bergquist, F. 549
Berlin, S. 11
Berlucchi, G. 989, 1.109
Bernacchia, A. 1.938, 2.562
Bernacki, J. 3.306
Bernard, A. 1.943, 3.647
Bernard, C. 247
Bernard, J.F. 3.277
Bernard, K. 584
Bernard, V. 1.345
Bernardi, M.M. 2.897
Bernardi, M.M. 1.638
Bernardi, N.F. 494
Bernardi, R.E. 2.721
Bernardo, A. 395, 396, 397
Bernardo, M. 438
Bernardo-Seisdedos, G. 3.572
Bernareggi, A. 467
Bernas, T. 3.843
Bernasconi, P. 846
Berndt, C. 398
Berner, S. 1.008
Bernert, C. 406
Berney, X. 547
Berninger, B. 1.296, 1.799
Bernocchi, G. 2.627
Beros, V. 416
Berro, L. 2.713
Berrocoso, E. 2.769, 2.770
Berrone, E. 192
Berry, A. 1.661
Berry, H. 301
Bersano, A. 3.141, 3.423
Bershadsky, G. 489
Bert, B. 2.702
Berta, G. 1.320
Bertalot, T. 298
Bertani, I. 319
Bertaso, F. 1.892
Berteotti, C. 2.197
Bertherat, J.F. 1.029
Berthier, A. 3.100
Bertholet, L. 2.862
Berthommé, H. 1.491
Berthoux, C. 1.853
Berti, A. 486
Bertini, E. 671
Bertini, G. 1.971, 2.049, 3.702, 3.780
Berto, G.E. 2.962
Bertocchi, I. 1.140, 1.748, 2.850
Bertoglio, L.J. 1.142, 1.143
Bertolini, G. 861
Bertollini, C. 242, 1.423
Berton, V. 400, 1.512
Bertone, C. 2.748
Bertone, N. 3.569
Bertot, C. 2.625
Bertotti, G. 2.922

Bertozzi, F. 2.753, 2.757
Berzsenyi, S. 2.661
Bes, S. 1.757
Besalduch, N. 1.373
Beselia, G. 1.744
Besio, R. 2.627
Besnard, A. 790
Bessinis, D. 3.345
Betances, D. 1.457
Betella, A. 3.997
Bethge, P. 1.929
Bettayeb, K. 555
Bettini, L.r. 681
Bettinsoli, P. 864
Bettler, B. 299, 1.846, 3.799
Betz, H. 3.553
Betzer, C. 819, 836
Beurrier, C. 1.375, 3.072
Beutel, T. 812
Beverley, J. 2.725
Bevilaqua, L.R. 1.131
Bezard, E. 350
Bezerra, S.B. 1.335
Bezzi, P. 878
Bhan, J.J. 1.464
Bharmauria, V. 2.138
Bhatia, H. 935
Bhatia, H.S. 1.551
Bhatia, K. 821
Bhattacharya, A. 136
Bhavsar, M. 997
Bi, K. 820
Bi, M. 3.088, 3.089
Biagi, L. 496, 1.319
Biagini, G. 2.027, 3.752
Biala, G. 2.249
Bialowas, A. 454
Biamonte, F. 1.530
Bianchi, F. 678
Bianchi, F.T. 2.962
Bianchi, R. 965
Biber, B. 3.547
Biber, K. 2.027, 3.773
Bicanic, I. 3.331
Bicca, M. 1.996
Bici, D. 3.499
Bicker, G. 1.353
Bicker, S. 1.833
Bido, S. 350, 3.711
Bielarczyk, H. 336, 2.056
Bielawski, A. 1.577
Bielecka, A.M. 3.325
Bielecki, M. 1.089
Bielefeld, P. 2.931
Biella, G. 804, 1.814, 1.920, 3.862
Bienboire-Frosini, C. 200, 201
Bieri, K. 601
Biermans, R. 218
Biesemann, C. 1.383
Bieth, E. 3.227
Biever, A. 974, 2.732
Bifari, F. 400, 1.512
Bifone, A. 475
Bigand, E. 1.695
Bigiani, A. 3.850
Bihari, Z. 3.385
Bijata, M. 781, 788, 3.981
Bikbaev, A. 3.046
Bikson, M. 3.606
Bilbao, A. 2.064
Bilella, A. 1.424
Bilheu, A. 3.507
Bilkei-Gorzo, A. 1.950, 2.672, 2.250
Bill, E. 398
Billett, E.E. 3.425
Billot, P. 1.703
Billuart, P. 3.227
Billwiller, F. 1.334
Bilonozhko, V.G. 892
Bimbi, M. 490
Bina, L. 1.920
Binart, A. 1.764
Binaschi, A. 1.491
Binda, F. 772, 3.296, 3.525
Binda, P. 498
Binder, E. 2.384, 2.387
Bindocci, E. 35
Binini, N. 804
Biondi, A. 681
Biran, J. 1.197
Bird, A.P. 3.453
Biro, I. 287, 2.906
Biro, T. 295
Biro, Z.S. 2.042
Birolo, L. 3.194
Birsa, N. 821
Bischofberger, J. 453, 1.831, 1.841, 1.847
Biscola, N. 2.775
Bishop, M.W. 3.475
Bista, P. 3.575
Bitiktas, S. 2.091
Bitow, F. 839
Bittencourt, J. 3.312
Bittencourt, J.C. 1.676
Bittner, S. 2.016, 2.774
Bittolo, T. 467, 939
Bitzenhofer, S. 805
Biverstål, H. 3.684
Bizy, A. 2.956
Bizzoca, A. 1.731, 3.499
Bizzotto, S. 2.932
Bjerknes, T.L. 1.123
Björklund, A. 714
Björklund, U. 3.547
Black, A. 2.882
Blaetic, S. 1.053
Blahna, K. 629
Blahovcová, E. 1.563
Blakemore, C. 106, 1.233, 1.798
Blanchet, C. 3.427
Blanchet-Godbout, S. 1.604
Blanda, C. 1.532
Blandina, P. 2.218, 3.964
Blandini, F. 361, 816, 3.706, 3.708, 3.817
Blank, S. 1.008
Blasco, H. 468, 858, 3.745, 3.746
Blasi, V. 2.161
Blasiak, A. 559, 566, 1.309
Blasko, J. 1.516, 1.519, 2.659, 2.940, 3.248
Blatt, G. 863
Blatt, I. 3.583
Blättler, F. 2.898
Blau, A. 666, 2.429, 2.911
Blázquez, C. 945
Blazquez, J. 749
Blechman, J. 1.197
Blehaut, H. 1.964
Blesa, J. 1.995
Blin, O. 2.198
Blizzard, C. 844
Block, L. 3.547
Blockus, H. 1.310
Blom, H. 1.773
Blomqvist, A. 1.155, 1.765
Blomqvist, E. 1.881
Blondeau, N. 561, 3.114
Bloomfield, S. 929
Blum, D. 329, 590, 3.674
Blum, R. 3.437
Blumenthal, A. 3.907
Blumer, K.J. 1.854
Blumer, R. 1.525
Bo, A. 1.505
Bo, E. 562
Boadas-Vaello, P. 961
Bobadilla, A. 975
Bobak, N. 2.016
Bobbitt, K. 601
Bobela, W. 936
Bobkiewicz-Kozlowska, T. 3.554
Bobrov, M. 229
Bobula, B. 3.885
Bocca, C. 468
Bocca, M.L. 2.836
Boccalini, D. 3.995
Boccara, C. 630
Bocchio, M. 275
Bocchio-Chiavetto, L. 1.584, 2.688
Bocharov, A. 3.908
Bochynska, A. 3.259
Bocian, R. 2.553, 2.556
Bock, E. 1.546
Bockaert, J. 1.853, 2.450
Böckers, T. 3.219
Bockor, L. 937
Boda, E. 1.816, 3.251
Boddeke, H.W.G.M. 2.027
Bodner, M. 378
Bodogan, T. 2.933
Bodzeta, A. 1.376
Boeckers, T. 3.232
Boeckers, T.M. 3.170
Boeckers, T.M.B. 477, 3.229
Boehm, C. 3.632
Boehm, U. 1.226, 1.230
Boele, H.J. 2.241
Boergens, K. 3.429
Boesch, S. 2.596, 2.599
Bogacz, A. 3.554
Bogdanova, N. 1.354
Bogeas, A. 410, 709, 1.262
Bogo, M.R. 1.543, 2.786
Bogodvid, T. 2.217
Bogolubova, O. 3.934
Bohacek, I. 3.122
Bohár, Z. 1.646
Bohl, D. 3.435
Böhler, C. 3.428
Bohrer, C. 3.142, 3.163
Bohuslavova, B. 1.463
Boi, M. 1.498, 2.772, 2.773, 3.828
Boido, M. 365, 1.470, 1.522, 2.616, 375
Boikess, S. 1.591
Boire, D. 488, 1.604
Boissart, C. 2.090
Boissonade, F. 236
Boissy, A. 1.757
Boizet-Bonhoure, B. 1.821
Bojarski, A.J. 3.179
Bokhoven, H. 3.509
Bokor, H. 1.429, 2.838
Bola, M. 2.143
Bolam, J.P. 1.045, 1.462
Bold, C. 2.122
Boldog, E. 3.056
Boleti, H. 1.442
Bollati, F. 2.439
Bolognin, S. 3.645
Bolos Jurado, M. 4.001
Bols, J. 2.257
Bolshakov, K. 2.992
Boly, M. 286, 2.920
Bolz, J. 2.133
Bolzoni, F. 2.152, 2.153, 2.154, 2.155
Bombau, G. 1.467
Bombeiro, A. 912
Bomont, P. 373
Bona, M. 3.113
Bonaccorso, C.M. 459
Bonaconsa, M. 845
Bonafede, R. 845

Bonan, C.D. 2.786
Bonandrini, B. 965
Bonanni, E. 677
Bonanno, G. 850, 3.731
Bonanno, S. 846
Bonansco, C. 771, 3.047
Bonardi, C. 620, 3.859
Boncoraglio, A. 847, 848, 2.789, 3.726
Boncoraglio, G.B. 3.141
Bonetti, B. 845, 1.436
Bonetti, P. 684
Bonetto, G. 399
Bonetto, V. 849, 3.735
Bonfanti, L. 187, 192, 2.951
Bonheur, B. 1.720
Bonifacino, T. 850, 2.108, 3.731
Bonin, M. 2.613
Bonin, V. 3.266
Böning, A. 3.015, 3.521
Bonini, D. 1.529, 3.033
Bonini, J.S. 2.219
Bonini, L. 2.344, 2.752
Bonini, S. 864
Bonito Oliva, A. 1,405
Bonito-Oliva, A. 1.985, 2.847
Bonizzi, A. 361
Bonneau, N. 2.233
Bonnefont, J. 1.797, 3.507
Bonnet Brilhault, F. 462
Bonnet, A. 1.943, 3.647
Bonnet, M. 560
Bonnet-Brilhault, F. 468
Bonnet-Wersinger, D. 1.620
Bonnin, A. 118
Bono, F. 984, 985, 3.686
Bonova Kravcukova, P. 3.113
Bonova, P. 3.117
Bonsi, P. 1.044, 1.050, 3.297
Bontempi, B. 2.263
Bontempi, L. 851
Bonvento, G. 933, 3.668
Bony, G. 455
Bonzano, S. 186
Boos, F.Z. 3.950
Boot-Handford, R. 3.610
Boraso, M. 239, 938
Boraso, M.S. 238
Bordás, C. 1.355
Bordet, R. 2.198, 3.963
Borello, U. 183
Borger Rasmussen, H. 1.362
Börgers, C. 803
Borges, G. 2.770
Borges, S. 691, 1.328
Borgese, N. 1.855, 2.621
Borghgraef, P. 3.640
Borghi, O. 3.739
Borgland, S. 1.213
Borgognon, S. 2.169
Borhegyi, Z. 602, 605, 2.552
Borin, M. 276, 1.360
Borisyuk, A. 240, 957
Bormuth, I. 212
Bornia, N. 1.406, 1.407
Bornschein, U. 3.331
Bornstein, J.C. 478
Borovecki, F. 315
Borovok, N. 3.585
Borra, E. 3.805
Borreca, A. 1.944, 2.213
Borrell, V. 2.932
Borroni, B. 1.447, 3.660
Borroni, P. 2.162
Borroto-Escuela, D. 1.164, 3.396
Borroto-Escuela, D.O. 676, 3.397, 3.783
Borsello, T. 2.576, 2.580
Borst, A. 1.419, 2.749, 2.761, 3.269, 3.491, 3.807
Borst, A.B. 2.758
Bortolotto, J.W. 2.786
Bortolotto, V. 947, 1.578, 1.951
Bortolotto, Z. 2.540
Bortolussi, G. 937, 939, 3.172
Bortz, D. 437
Borzymowska, Z. 1.026
Bosch, J. 1.835
Bosch, P. 976
Boschen, K.E. 1.545
Boscia, F. 894, 1.364, 1.553
Bosco, A. 2.757
Bosikova, E. 2.467
Bosio, A. 1.823
Bosman, C.A. 2.134
Bosman, L. 525, 533
Bosman, L.M.J. 526
Bosman, L.W.J. 527, 3.299
Bosone, C. 693
Bospoort vd, R. 281
Bosque, M. 372
Boss, J.M. 3.692
Bosscher, G.L. 3.825
Bossens, C. 3.360
Bossert, J.M. 2.715
Bossi, S. 1.181
Bostancioglu, R. 199
Botelho, M. 3.301
Both, M. 6, 291
Botsakis, K. 355, 356, 357, 1.997
Botta, M. 1.814
Botta, P. 1.140
Bottai, D. 1.513
Botter, A. 856
Bottlaender, M. 1.964
Bottone, M.G. 2.627
Bou Dib, P. 1.998
Bouali-Benazzouz, R. 959
Bouchard, J.F. 1.616, 1.617
Boudier, T. 790
Bougard, C. 3.925
Bougie, J.K. 1.412
Bouilloux, F. 1.325
Boulay, V. 1.062
Boulinguez, P. 3.815
Boulling, A. 871
Boulouard, M. 591, 2.836
Bouquier, N. 1.892
Bouras, C. 1.965
Bourboula, M.T. 233
Bourdey, M. 1.588
Bourdieu, L. 1.029
Bouret, S. 94, 99, 3.411
Bourgeron, T. 1.165, 3.232
Bourgoin, S. 2.764
Bourinet, E. 756
Bourne, K. 2.504
Bourourou, M. 3.114
Boury Jamot, B. 2.869
Bousiges, O. 329
Bouskila, J. 1.616, 1.617
Bousquet, A. 528
Bousset, L. 3.698
Boutillier, A. 42, 329
Boutillier, A.L. 1.728
Boutin, S. 3.852
Boutrel, B. 560, 2.869
Bouvier, D. 2.571
Boveroux, P. 286
Bovetti, S. 186, 1.772
Bovi, M. 2.037
Bovolenta, P. 2.366
Bovolin, P. 3.310
Bowdridge, J.C. 502
Bowes, A.L. 2.668
Bowling, H. 136
Boyce, C. 3.746
Boyce, R. 1.076
Boyden, E. 107
Boyden, E.S. 1.782
Boyer, L. 1.175
Boyle, R. 1.597
Boza-Serrano, A. 1.566
Bozorg Nia, S. 3.237
Bozovic, N. 3.775
Bozsó, Z. 1.958
Bozza, A. 189
Bozzi, Y. 189, 456
Bozzoni, I. 949, 1.663
Bozzuto, G. 420, 1.261
Brack, A. 515
Bracke, A. 3.680
Bradman, M. 3.273
Braga, A. 400, 1.512
Braggio, S. 1.587
Bragina, L. 2.525
Brai, E. 607
Braida, D. 457, 1.382, 1.905, 2.729, 2.840, 3.102
Brakowski, J. 3.781
Brambilla, L. 3.741
Brambilla, R. 279, 458, 1.539, 1.889, 2.065, 2.721, 3.711
Bramham, C.R. 1.906
Branca, C. 1.443, 2.036
Brancato, A. 235, 977, 978, 979, 980
Branchereau, P. 685
Branchi, I. 3.025
Branchu, J. 852
Brancia, C. 3.742
Branco, T. 3.909
Brand, A. 3.192
Brand, G. 3.242
Brandalise, F. 1.356
Brandi, R. 2.577
Brandi, S. 618
Brandner, C. 574
Brandon, M.P. 2.406
Bras, H. 2.653
Brauner, J.M. 258
Braunewell, K.H. 3.017
Bravi, R. 2.156, 3.738
Bray, N.J. 439
Brayda-Bruno, L. 583, 584, 3.495
Brecht, M. 2.236
Brecht, W.J. 1.432
Bredenberg, J. 3.433
Bredewold, R. 3.318
Bredy, T. 1.154, 2.062
Bredy, T.W. 47, 3.370
Bregant, S. 1.943
Bregestovski, P. 242, 2.516, 3.562
Breiderhoff, T. 2.541
Breillat, C. 268
Brekk, O. 1.678
Brenachot, X. 564
Brendecke, S. 2.027
Brennan, K. 2.733
Brenner, R. 3.565
Breschi, G. 379
Bresciani, E. 545
Bresgen, N. 1.092
Bresseleers, M. 115
Bretherton, L. 3.718
Breu, J. 3.541
Breveglieri, R. 2.753, 2.757
Brewster, A.L. 129
Brice, A. 852
Brickley, S.G. 245, 2.196, 3.563
Bridge, H. 2.136, 3.265
Brierley, S.M. 514
Brigadski, T. 2.490, 2.494
Brigham, B.E.T.H. 873
Bright, D. 1.840
Bright, D.P. 3.556

Brignani, D. 2.204, 3.892
Briner, A. 2.933
Brismar, H. 1.773
Brismar, K. 3.311, 3.317
Brito, I. 676, 1.164
Britz, J. 667
Brizard, B. 1.588, 2.682
Broberger, C. 3.302
Brocard, J. 869
Broccoli, V. 713, 2.463, 2.465, 2.963, 3.506
Brocka, M. 2.903
Brockelt, D. 3.717
Brockhaus, J. 3.001
Brockhaus-Dumke, A. 3.189
Brockmann, M. 205
Brockmann, M.D. 1.495
Brody, D. 1.947, 3.143
Brody, D.L. 3.153
Broersen, R. 530
Broetzner, C. 1.080
Broggini, A. 1.479
Broich, K. 1.017, 3.005, 3.764
Brom, C. 1.054
Bronchti, G. 1.604
Brondi, M. 3,999
Brosda, J. 2.702
Brose, N. 1.383, 1.884, 3.524, 3.553, 3.579
Brosig, A. 1.425
Brostek, L. 2.756
Brot, S. 712
Brothers, S. 972
Brotons, J. 3.233
Brotons-Mas, J.R. 2.558, 2.559
Brötzner, C.P. 1.092
Brouillet, E. 933
Brouwer, N. 2.027
Brown, C. 1.945
Brown, G. 130
Brown, J. 104, 806
Brown, L. 1.856
Brown, L.E. 1.822
Brown, M. 645
Brown, P. 2.867
Brown, R. 330
Brown, R.M. 2.870
Brown, S. 2.365
Brown, T.M. 2.147
Bruce, F. 2.365
Bruckner, M. 3.159
Bruelle, C. 940, 3.304
Brugnoli, A. 3.697
Bruijn, L. 1.254
Bruinenberg, V.M. 2.265
Bruining, H. 3.233
Bruinsma, B. 2.220
Brulé, C. 2.495
Brunamonti, E. 1.721, 1.722, 2.168, 2.199
Brunello, N. 3.025
Brunet, J.F. 90
Brunet, N. 2.134
Bruni Ercole, B. 1.446
Bruni, S. 2.752
Brunini, T.M.C. 1.503
Bruno, J. 437
Bruno, J.P. 3.409
Bruno, M.A. 2.920
Bruno, O. 644
Bruns, D. 250
Brunton, P.J. 2.803
Brunton, P.J.B. 596
Bruschetta, G. 1.526, 3.161
Brusco, S. 1.839
Brust, R.D. 120
Brüstle, O. 1.478
Bruszt, N. 2.247, 2.248
Bruttini, C. 2.152, 2.153, 2.154, 2.155
Bruzzone, S. 2.025
Bucchi, A. 3.504
Bucchia, M. 2.611
Bucchioni, G. 2.157
Bucci, D. 3.780
Buchin, A. 380
Büchner, C. 3.524
Buchthal, B. 1.903
Buchtová, M. 1.054
Buck, A.H. 2.974
Buck, F. 2.937
Buck, L.B. 139
Buckley, N. 1.799
Budai, D. 2.247
Budakova, A. 635
Budde, T. 1.358, 1.482, 1.860, 3.575, 3.816
Budinger, E. 3.518
Budziszewska, B. 1.574, 1.575, 2.060
Budzynska, B. 2.249
Buée, L. 329
Buée-Scherrer, V. 3.674
Bueno, E. 1.651
Buetfering, C. 1.426
Buffelli, M. 276, 3.645
Buffo, A. 1.294, 1.300, 1.816, 3.251
Bugaiska, A. 1.695
Bugajski, A.J. 1.672
Bugajski, J. 1.672
Bugeon, S. 1.823
Buggia-Prévot, V. 3.656
Bugi, A. 1.460
Bui, Q.M. 3.718
Bukanova, J. 2.520
Buldakova, S. 2.516, 3.562
Bulfamante, G. 209
Bullitta, S. 2.009
Bullmann, T. 782
Bulygina, V. 2.795, 2.805
Bulygina, V.V. 3.774
Bunik, V. 877, 1.550
Bunn, S. 3.303
Buonaguro, E.F. 3.202
Buratta, L. 432
Burda, J. 895, 3.113, 3.117, 3.118, 3.119
Burdakov, D. 1.076
Bureau, I. 3.833
Burenkova, O. 701
Bures, Z. 1.016
Burgalossi, A. 4
Bürgisser, D. 1.890
Burguiere, A. 742
Burianova, J. 998
Burin, D. 486
Burjanadze, G. 2.184
Burjanadze, M. 1.744
Burkhalter, A. 487
Burkhardt, S. 1.434
Burman, K.J. 2.737
Burr, D. 2.401, 3.234, 3.260
Burr, D.C. 862, 2.136
Burtscher, J. 941, 3.765
Burtscher, V. 751
Burtsev, M. 1.162
Buscemi, L. 878
Busciglio, J. 1.964
Busetto, G. 552
Busi, C. 2.480
Busnelli, M. 3.543, 3.546, 3.550
Busse, L. 504, 2.149
Busserolles, J. 1.640
Bussey, T. 441, 2.349, 2.351
Busskamp, V. 3.455
Bustamante Garcia, R. 1.138
Bustamante, D. 900
Bustos, B. 338
Butcher, J. 1.398
Butt, A.M. 2.011
Butt, S. 2.312
Buttgereit, J. 3.017
Büttner, U. 2.756
Buyukturkoglu, K. 3.330
Buzás, P. 1.636, 2.130
Bystron, I. 1.798
Bywalez, W.G. 1.866
Caba, M. 2.806
Caba-Gonzalez, J. 749
Cabaj, A. 2.667, 2.776, 2.782
Caballero, M. 1.694
Caban, B. 2.556
Cabelguen, J.M. 2.176
Cabello, V. 2.086
Caberlotto, L. 2.572
Cabet, E. 2.578
Cabezon, I. 3.641
Cabib, S. 983, 1.675
Caboche, J. 72, 790, 1.405, 2.063, 3.785
Caboni, P. 969
CABRAL, F. 608
Cabre, M. 2.822, 2.267
Cabrera-Muñoz, E. 2.714
Cabrera-Pastor, A. 609, 1.535
Cacace, F. 1.982
Cacciatori, C. 684
Cadaveira - Mosquera, A. 3.569
Cadeddu, R. 1.579
Cadilhac, C. 2.929
Cadoni, C. 2.875, 3.787
Cador, M. 1.756, 2.233
Caetano, G. 1.704
Caffino, L. 299, 981, 2.067, 2.069, 2.712, 2.722
Caflisch, J. 2.630
Cagalinec, M. 2.993
Cahill, E. 72
Cai, F. 3.653
Caiazzo, M. 713, 2.463
Caillé-Garnier, S. 2.233
Caimari, A. 1.117
Cakici, I. 917
Calabrese, F. 1.580
Calabrese, R. 3.285
Calabresi, P. 1.982, 2.580, 3.080, 3.716
Calamandrei, G. 464
Calamante, F. 3.289
Calandreau, L. 3.495
Calatrava-Ferreras, L. 2.600
Calcagno, E. 783, 868, 3.012, 3.216
Calcagno, M. 350
Calcagnoli, F. 3.313
Caldano, M. 3.900
Caldarelli, A. 742, 2.512
Caldeira, M.V. 902
Caldera, V. 1.475
Calderazzi, G. 313
Caldinelli, L. 3.194
Caleo, M. 403, 2.391
Caley, A. 2.521
Calin, A. 1.507, 1.688, 2.926
Caliskan, G. 2.522
Calissano, P. 1.815, 3.654
Callado, L.F. 658
Callaerts-Vegh, Z. 3.621
Callaghan, C.K. 2.676
Callaly, F. 666
Callaway, E. 19
Callaway, E.M. 500
Callebert, J. 2.883
Callegari, E. 3.977
Calletti, R. 1.081
Calo, G. 2.684, 350
Calo', G. 3.771
Calo´, G. 1.981
Calogero, A. 826
Calore, E. 1.083
Calorio, C. 3.642
Calou, E.B.F. 352, 1.335, 2.478

Calou, I. 352
Calou, I.B.F. 1.335, 2.478
Calun-Nadulska, P. 581, 581
Calvello, M. 2.487
Calvente, R. 1.326
Calvigioni, D. 1.311
Calvo Gallardo, E. 853
Calvo-Gallardo, E. 3.308
Calvo-Ochoa, E. 1.679
Calzà, L. 466, 874, 1.443, 2.569
Camacho, M. 3.909
Camaleonti, L. 402
Camarasa, J. 1.557, 1.939, 3.956
Camargo, L.H.A. 3.382
Camats Perna, J. 610
Cambiaghi, M. 402, 458, 1.141
Cambray, S. 208
Cambridge, S. 1.774
Cambridge, S.B. 291
Camelia Acatrinei, C.A. 1.502
Camera, P. 3.012
Camilloni, G. 2.221
Camins, A. 1.939, 3.641
Cammarota, M. 1.131
Camon, J. 2.259, 3.072
Campa, L. 2.839
Campanella, M. 880
Campanelli, D. 958
Campbell, A. 1.701
Campbell, H.A. 2.171
Campiglio, M. 3.000
Campisciano, G. 942
Campolo, M. 1.437, 3.161, 3.710
Campolongo, P. 2.215
Campos, A. 1.581
Campos, M.M. 1.543
Campo-Urriza, N. 2.234
Campus, P. 1.675
Canafoglia, L. 2.004
Canale, C. 818
Canales, A. 1.185
Canals, J.M. 1.467
Canals, S. 3.953
Canas, P.M. 359
Canas, P.M.G. 3.695
Cancedda, L. 867, 1.450, 2.436, 2.437, 2.943, 2.968
Cancino, G. 2.182
Candal, E. 2.456
Candalija, A. 1.993
Candeias, E. 1.435, 1.454, 2.178
Candeletti, S. 3.639
Candelise, N. 1.632
Candiani, S. 2.469
Canduela, M.J. 230
Canela, E.I. 721, 2.980
Canepari, M. 1.775
Canesi, M. 823
Canessa, N. 3.917
Canevari, S. 3.762
Canevini, M. 433
Canha, M.B. 3.761
Cannas, S. 316, 1.800
Cannizzaro, C. 235, 977, 978, 979, 980, 3.795
Canonico, P.L. 947, 1.578, 2.503, 2.512, 3.672, 742
Canopoli, A. 2.898
Canossa, M. 2.444
Canta, A. 3.828
Cantaut-Belarif, Y. 3.560
Cantelli Forti, G. 1.561
Canterini, S. 1.804, 2.573
Canto, C. 2.220
Canu, N. 316
Canzi, A. 1.905
Canzoniero, L. 902
Canzoniero, L.M.T. 881, 1.364, 1.553
Cao, Q. 1.125
Capdevila, L. 1.117, 1.767
Capece, V. 1.434
Capell, A. 327
Capelli, P. 2.159
Capello, L. 1.910
Capitanio, D. 3.739
Capitano, F. 2.221
Capitolo, E. 402
Capoccia, S. 1.661
Capogna, M. 260, 275
Capozzo, A. 1.051
Cappa, S. 3.917
Cappagli, G. 999
Cappelletti, G. 823, 826, 3.082
Cappello, V. 401, 3.975
Caprile, T. 2.441
Capsoni, S. 1.446
Capuani, C. 752
Capuano, A. 1.641
Caputi, F. 982
Carabelli, V. 1.361, 1.390, 1.871, 3.642
Caracci, M. 3.007
Caramelli, P. 2.208
Caramello, A. 188
Carames, J.M. 3.784
Carandini, M. 501, 2.142, 2.378, 2.405, 2.745, 2.908, 3.601
Caravagna, C. 692
Carbonari, L. 1.721
Carbone, A.L. 268
Carbone, E. 1.361, 1.390, 1.871, 3.642
Carbone, I. 337
Carboni, E. 822, 969, 1.579
Carboni, L. 3.639
Card, J.P. 24
Carda, C. 1.535
Cárdenas, A. 3.145
Cárdenas, A.M. 1.371
Cardinale, F. 663
Cardinaux, J. 1.582
Cardobi, N. 684
Cardoso, A. 2.574
Cardoso, A.M. 2.574
Cardoso, C. 207
Cardoso, F.J.A. 1.885
Cardoso, G. 2.219
Cardoso, S. 1.082
Carelli, S. 358, 1.523
Caremoli, F. 358
Caretta, A. 427
Carey, M. 3.286
Carey, M.R. 522, 532
Cariboni, A. 1.312, 2.173
Carl, T. 3.246
Carlén, M. 2.230
Carlessi, L. 2.001
Carleton, A. 142
Carletti, R. 1.587
Carli, M. 479, 722
Carlino, D. 657
Carlo Maggini, C.A. 3.199
Carmeli, C. 1.966, 2.000
Carmena, J. 29
Carmignoto, G. 3.054
Carmo, M. 359
Carmo, M.R. 348
Carmo, M.R.S. 349, 3.081, 3.121, 3.695
Carmom, M.R.S. 2.268
Carmona, A. 822
Carmona, M. 834
Carmona-Hidalgo, B. 1.858, 749
Carmo-Silva, S. 3.301
Carnevale, N.T. 613
Carnevali, L. 1.705
Caro Martín, C. 611
Carola, V. 983, 1.675, 2.683
Caron, G. 2.777
Caron, I. 1.514, 1.515
Caron, M. 2.099
Caroni, P. 154, 3.740
Caronia-Brown, G. 177
Carozzi, V. 965, 3.828
Carra, S. 847
Carracedo, L. 2.809
Carrard, A. 1.293
Carraro, M. 470
Carrasco, M. 1.176
Carrasco, M.C. 1.326
Carratalá, A. 1.535
Carrera-Gonzalez, M.P. 418, 423
Carretta, D. 3.639
Carricondo, E. 1.638
Carrillo de Sauvage, M.A. 933, 3.070
Carrillo, R. 531
Carrion, A.M. 3.953, 595, 1.374, 1.393
Carrive, P. 3.864
Carro, J. 1.651
Carrodus, N.L. 1.828
Carroll, P. 1.324
Carta, A.R. 1.989
Carta, G. 1.498
Carta, M. 261, 1.888, 1.980, 2.512, 3.427, 3.701
Cartelli, D. 823, 826
Cartwright, S. 2.778
Carulli, D. 784, 787, 2.850
Carus-Cadavieco, M. 800
Caruso, A. 3.213
Caruso, D. 2.017
Carvajal, F. 548
Carvalho da Silva, A. 277
Carvalho Neto, S. 257
Carvalho, A. 3.018
Carvalho, A.L. 738, 1.399, 1.397
Carvalho, C. 2.178
Carvalho, M.M. 691, 1.328
Carvalho, R.A. 2.094
Casadó, V. 721, 2.980
Casagrande, E. 2.088
Casagrande, F. 823, 826
Casal, M.Z. 2.164
Casali, A. 1.715
Casali, A.G. 1.427
Casali, S. 539, 1.963
Casalone, C. 192, 856
Casamenti, F. 1.448
Casano, G. 977
Casanova, C. 1.616, 1.617
Casarejos Fernández, M.J. 2.600
Casarejos, M.J. 2.603
Casarosa, S. 189
Casarotti, A. 2.918
Casarotto, S. 286, 1.427, 1.505, 2.920, 3.144, 3.604
Casas, D. 1.030
Casazza, S. 367, 2.021
Casci, I. 3.736
Cascio, C. 1.532, 2.607
Casella, G. 1.568
Casella, J.F. 3.296
Casellato, C. 531
Casolla, B. 3.423
Casoni, F. 2.174
Caspani, O. 1.021
Casse, F. 3.936, 1.377
Casse.F, C.F. 481
Cassel, J.C. 329, 1.728, 2.211, 2.874
Cassel, R. 329
Cassella, S. 2.186
Cassidy, J. 2.995
Cassina, C. 987, 2.067, 2.722
Castaldi, E. 3.260
Castejón, C.C. 4.004
Castel, H. 2.495
Castelhano, J.M. 3.910
Castelhano-Carlos, M. 1.755
Castellani, C. 2.152

Castellani, V. 64
Castellano, A. 2.161
Castellazzi, G. 1.963, 3.289
Castelnovo, A. 433
Castelnovo, L. 299
Castelnovo, M. 3.735
Castelo, A.O.C. 3.121
Castelo-Branco, M. 1.704, 3.910, 3.926
Castiglioni, V. 1.467, 1.920
Castilho, A. 1.618
Castilla, A. 2.290
Castillo Ramirez, L. 2.796
Castillo Ramirez, L.A. 147
Castoldi, V. 402, 3.157
Castren, E. 793, 3.057, 3.674, 3.767
Castrezzati, S. 3.092
Castro, C. 3.909
Castro, D. 1.799
Castro, E. 2.702
Castro-González, C. 194
Català Solsona, J. 3.651
Catalanotto, C. 775
Cataldi, M. 767
Catalin, B. 1.593
Catanese, J. 612
Catania, M. 459
Catania, M.V. 449, 859
Catarino, T. 3.018
Catelluccio, P. 3.213
Cattan, S. 2.138
Cattaneo, A. 775, 880, 1.382, 1.446, 1.584, 2.096, 2.487, 2.577, 2.688
Cattaneo, E. 161, 1.295, 1.467, 1.471, 1.475, 1.920
Cattaneo, Z. 494, 1.098, 1.110
Cauli, B. 3.668
Cauli, O. 582, 1.535
Cavaccini, A. 278, 279, 2.372
Cavadas, C. 3.301
Cavalcante, A. 1.335
Cavalcante, A.L.C. 352, 2.478
Cavalcante, J.C. 1.610, 1.981
Cavalcante, J.S. 1.610
Cavalcante, P. 846
Cavaletti, G. 2.047, 3.828
Cavalheiro, A.J.C. 3.375
Cavallari, C. 2.152
Cavallari, P. 2.153, 2.154, 2.155
Cavallaro, S. 2.942
Cavalleri, L. 984, 985, 3.686
Cavalleri, M.T. 3.713
Cavallo, A. 2.748
Cavallotti, S. 433
Cavani, E. 896
Cavarretta, F. 613, 3.243
Cavé-Lopez, S. 1.000
Cavusoglu, T. 3.699
Cawley, S. 666
Cazé, R. 1.408
Cazé, R.D. 2.868
Cazettes, F. 1.001
Cebada-Sanchez, S. 1.693
Ceballo, S. 3.980
Cebrian-Silla, A. 190
Ceccarelli, M. 1.800, 2.942
Ceccarini, G. 565
Cecchetto, C. 1.031
Cecchini, M. 401, 403, 922, 3.975, 3.976
Cecconello, A.L. 1.533
Ceci, A. 1.665, 2.678
Ceci, C. 986
Ceci, M. 1.944
Celeghin, A. 499, 3.267
Celia Moreira Borella, V. 2.460
Celikel, T. 3.835
Celio, M.R. 1.424, 1.719, 3.164, 3.403
Cellai, L. 3.115
Cellot, G. 460
Celluzzi, A. 671
Celsi, F. 942
Celsis, P. 1.968
Cendelin, J. 196, 1.683, 3.355
Céni, C. 1.375
Cenis, J.L. 2.031
Cenni, M.C. 3.533
Centonze, D. 949, 2.009
Cepeda-Prado, E. 1.894, 1.897
Cepko, C.L. 23
Cerasa, A. 2.239
Cerasti, E. 612, 3.348
Cercato, M. 614
Cerda, G. 2.965
Cereda, A. 681
Cereda, C. 854, 2.608
Ceresini, I. 3.550
Cerina, M. 1.482, 3.816
Cerini, R. 684
Cerino, M. 2.429
Cermenati, G. 2.017
Cerny, J. 2.498
Ceroni, M. 854, 2.608
Cerovic, M. 279, 458
Cerpelloni, M. 2.049
Cerqueira, G.S. 2.478
Cerqueira, J. 2.853
Cerqueira, J.J. 306
Cerrada-Gimenez, M. 1.962
Cerrato, V. 1.294
Cerri, C. 403
Cerri, G. 2.161, 2.162
Cerri, M. 1.601, 3.873
Cerri, S. 361, 3.708
Cerù, M.P. 3.670
Cerullo, P. 3.116, 3.139
Cerutti, J.M.C. 3.375
Cerutti, S. 3.030
Cerutti, S.M.C. 3.375
Cervantes, L.C. 1.071
Cervellini, I. 2.025
Cervena, K. 3.542, 1.662
Cervetto, C. 855
Cervo, L. 987, 2.067, 2.718, 2.722
Cesana, E. 1.920
Cesari, P. 1.002
Cesca, F. 1.870, 2.293
Céspedes, I.C. 1.676
Cespedes-Nava, V.R. 1.176
Cestari, V. 316, 1.800
Ceyzeriat, K. 933
Cha, J. 37
Cha, K. 3.923
Chaabane, L. 402, 3.157
Chachua, M. 2.184
Chacón, A. 1.598
Chad, J.E. 1.771
Chadderton, P. 645
Chae, J. 3.920
Chahinian, H. 1.946
Chai, C.L. 3.086
Chai, G. 1.313
Chai, S.Y. 384
Chaillou, E. 1.757
Chakrabarti, L. 2.189
Chakrabarti, L.I.S.A. 2.604
Chakrabarti, R. 1.003
Chalimoniuk, M. 3.306
Chalkiadaki, K. 3.023
Challagundla, M. 1.518
Cham, W.C. 777, 1.603
Chamma, I. 1.824
Chamoun, M. 3.271
Chan Tchi Song, P. 1.589
Chan, C. 3.802
Chan, T. 1.801
Chan, Y. 237
Chan, Y.S. 777, 1.307, 1.603, 2.454, 2.470
Chand, A. 1.921
Chandola, C. 2.633
Chang, C. 280, 3.722
Chang, E.H. 1.537
Chang, H. 2.592
Chang, J. 3.692
Chang, M. 1.106
Chang, Q. 3.090
Chang, R.C.C. 1.801
Chang, S. 1.829, 2.534, 2.538, 3.803
Chang, S.C. 2.084
Chang, W. 1.639
Chang, W.C. 2.452
Chang, W.J. 3.103
Chang, W.T. 696
Chang, Y. 331
Chang, Y.J. 678
Chang-Azancot, L. 828
Channon, S. 1.095, 1.104, 1.113
Chaouch, A. 2.630
Chapados Noreau, C. 568
Chapman, J. 2.055, 3.583
Chara, J.C. 907
Charalampopoulos, I. 355, 1.997, 2.092
Charbonnier-Beaupel, F. 3.071
Chard, D. 3.289
Chareyron, L. 865
Chariot, A. 2.969
Charrat, E. 3.647
Charrier, C. 1.192
Charrière, E. 1.103
Charvériat, M. 2.764
Chase, K.A. 3.193, 3.200
Chase, L. 827
Chassain, C. 3.055
Chassefeyre, R. 1.892
Chastukhin, D. 879
Chatagny, P. 2.169
Chatelain, C. 2.635
Chatterjee, S. 329
Chatton, J.Y. 310, 311, 314, 1.074
Chaudun, F. 1.144, 1.148, 1.149
Chaudy, S. 555, 564
Chauhan, D. 179
Chaumont-Dubel, S. 2.450
Chaussenot, R. 1.150
Chauveau, N. 1.968
Chauvet, S. 869, 1.312
Chauvière, L. 2.132
Chaves, I. 483
Chavez, C. 827
Chavushyan, V. 1.456
Chay, F. 1.667
Chazal, G. 3.581
Chazalon, M. 3.049
Chazot, P.L. 2.778
Che Has, A. 241
Che Mohamad, C.A. 1.524
Cheaha, D. 615, 1.746
Chebat, J.C. 3.919
Chebib, M. 241
Checcarelli, N. 3.423
Chece, G. 411
Chechik, G. 1.402
Checler, F. 3.647
Chedotal, A. 1.310
Cheer, J. 2.370
Cheer, J.F. 2.369
Chehin, R. 668
Chelazzi, L. 1.081, 2.841, 3.890
Chelini, G. 868, 1.327, 3.456
Chelly, J. 2.932, 3.227
Chen, A. 1.157, 1.674, 2.693, 2.870, 3.478, 3.481, 3.955
Chen, C. 1.399, 2.792
Chen, H. 237, 393, 3.125

Chen, H.J. 1.258
Chen, I. 1.004
Chen, J. 1.895
Chen, J.F. 3.065
Chen, J.L. 3.831
Chen, L. 1.959, 2.231, 3.076
Chen, N. 2.870
Chen, R. 1.852
Chen, S. 3.748
Chen, T. 2.251
Chen, T.F. 331
Chen, W. 48
Chen, X. 734
Chen, Y. 31, 943
Chenaux, S. 1.103
Cheng, L. 2.507
Cheng, P. 280
Cheng, S. 2.691
Cheng, S.H. 2.792
Cheng, Z. 2.957
Chennaoui, M. 3.925
Chenu, A. 2.934
Cheon, S.Y. 3.128
Cheong, E. 807
Chern, Y. 280, 2.991
Chernykh, A.I. 1.743
Cherubini, C.E. 1.251
Cherubini, E. 454, 460, 1.883
Cherubini, P. 3.907
Chesham, J. 3.610
Chesters, R. 1.921
Chetkovich, D. 3.575
Cheung, M.P. 2.662
Chevaleyre, V. 2.331
Chevalier, M. 1.922
Chevallier, S. 2.625
Chever, O. 3.051
Chevy, Q. 760
Chevy, Q.C. 762
Chew, S. 3.927
Chi, P. 944
Chiamulera, C. 984, 985, 2.720
Chiappalone, M. 3.992
Chiara, R. 685
Chiarlone, A. 945
Chibukhchyan, R.G. 1.178
Chicchi Giglioli, I. 3.911
Chiechio, S. 3.285
Chien, C. 280, 2.991
Chieppa, M.N. 856
Chieregatti, E. 724, 818, 830, 3.082, 3.678
Chiesa, R. 319
Chigladze, M. 2.849
Chijavadze, E. 2.097, 2.100
Chikhladze, M. 381
Chin, J.H. 1.411
Chini, B. 1.195, 3.543, 3.546, 3.550
Chino, Y. 2.738
Chiocchetti, A.G. 1.808
Chiodi, V. 222
Chiorazzi, A. 965, 3.828
Chiou, L. 219, 2.273
Chiovini, B. 1.220, 1.336, 1.337, 3.624
Chirico, G. 534
Chisari, M. 1.854
Chistiakova, M. 1.895
Chivet, M. 2.974
Chizhov, A. 380
Chkhartishvili, E. 2.097, 2.100
Chkhikvishvili, N. 621
Chkonia, E. 3.192
Chlodzinska, N. 669, 1.133, 2.799
Chmielarz, P. 2.175, 3.323
Chmykhova, N. 1.378
Chneiweiss, H. 410, 414, 709, 1.260, 1.262
Ch'ng, T.H. 2.321
Cho, A. 1.106
Cho, C.H. 946
Cho, E. 1.967, 2.575
Cho, H. 191
Cho, I. 1.480
Cho, J. 3.365
Cho, K.82, 1.413, 1.671, 1.945, 2.543, 2.546, 2.547, 3.035, 3.658
Cho, K.H. 246
Cho, K.J. 3.128
Cho, S. 946, 2.207, 2.588, 3.637
Cho, Y. 2.263
Cho, Y.J. 1.480
Chocyk, A. 2.797, 3.883
Chodkowska, D. 785
Chodounska, H. 2.498
Choi, E. 1.411
Choi, H. 2.944, 3.418
Choi, I. 2.205, 3.136
Choi, J. 1.151, 2.587
Choi, J.H.K. 2.265
Choi, J.M. 2.575
Choi, J.S. 1.411
Choi, J.W. 3.923
Choi, J.Y. 946
Choi, K. 2.207, 3.637
Choi, S. 2.207, 3.637
Choi, S.M. 1.945
Choi, S.W. 2.711
Choi, S.Y. 1.416
Choi, W. 1.714
Choi, Y. 3.359
Chojnacka, D. 2.888
Cholewa-Waclaw, J. 3.453
Cholvin, T. 2.211
Chometton, S. 553
Choo, M. 1.834
Chopek, J. 2.782
Chopovska, V.V. 2.594
Choquet, D. 268, 735, 736, 737, 3.010, 3.979
Chow, T.C. 3.201
Chowen, J.A. 1.063
Christen, Y. 2.354
Christensen, A. 3.197
Christensen, K.V. 3.419
Christiaens, J.F. 2.892
Christiansen, G. 2.541
Christiansen, G.B. 745
Christiansen, K. 1.115
Christin, M. 1.640
Christo, P.P. 3.690
Christodoulou, C. 1.569
Christou, A. 1.706
Chrobok, L. 382, 2.988
Chroni, A. 1.942
Chronowska, E. 2.522
Chrousos, G.P. 1.065
Chrusch, M. 1.116
Chu, K. 1.464
Chua, B.E. 3.801
Chua, Y. 670
Chuang, B.H.A. 184
Chumak, T. 958
Chung, G. 1.923
Chung, J. 366, 3.692
Chung, J.Y. 1.464
Chung, S.K. 2.484
Chung, Y. 3.920
Churilov, L. 478
Ciabatti, E. 3.506
Ciammola, A. 1.458, 3.082
Ciani, E. 466, 873
Ciaraffa, F. 3.141
Ciardelli, G. 2.282
Cicanic, M. 1.680
Cicchetti, F. 1.161
Cicchini, G. 3.261
Ciccocioppo, R. 554, 2.715
Ciceri, G. 1.925
Cid, E. 2.558, 2.560
Ciepielewski, Z. 3.324
Cieslak, P. 2.871
Cieslak, P.E. 2.872, 2.873
Cifani, C. 554, 2.715
Cifuentes, M. 953, 954
Cigarroa, I. 1.117
cignarella, F. 824
Cilia, A. 3.977
Cimadevilla, J.M. 2.201
Cimini, S. 2.576
Cimino, I. 2.472, 3.251
Cinà, I. 1.800
Cingolani, L. 272
Cinti, S. 557
Ciobanu, L. 3.985
Ciocchi, S. 603, 606
Ciofi, P. 2.176
Cioni, G. 862
Cioni, J. 1.314
Ciotti, M.T. 316, 775
Ciotti, T. 3.654
Cipriani, C. 464
Cipriani, E. 2.282
CIRACI', R. 3.326
Ciraolo, C. 573
Cirelli, C. 2.808, 2.810
Cirillo, C. 882, 1.179
Cirillo, G. 307
Cirillo, R. 2.851
Cirnaru, M. 825
Cirnaru, M.D. 341, 2.437
Ciruela, F. 1.357
Cirulli, F. 1.661, 2.096
Cisternino, S. 2.288
Citraro, R. 2.095
Cittaro, D. 2.963
Ciubotariu, D. 2.252
Ciusani, E. 3.141
Civitelli, L. 3.644
Cizek, M. 1.516
Cizkova, D. 1.516, 1.519, 2.659
Cladière, A. 3.055
Clancy, C. 863
Claramonte, B. 1.974
Clark, J.A. 844
Clarke, G. 1.690
Clarkson, A. 241
Clarkson, C. 2.981
Clasca, F. 1.610, 485, 503, 1.030, 3.436
Classen, J. 1.099
Claudepierre, T. 1.619
Clausen, D. 441
Clea Florenço De Sousa, F. 2.460
Clegg, D.O. 2.340
Clément, K. 561
Clement, O. 1.334
Clemente, G. 438
Clementi, F. 1.855, 1.857, 1.863
Clerici, M. 457
Clery, J. 484
Clesse, D. 3.209
Clifford, L. 3.864
Clopath, C. 1.408
Clough, R.L. 340
Clovis, Y. 2.961
Cmejla, R. 3.093
Coates, E.E. 189
Coatti, A. 851
Cobelli, F. 1.920
Cobianchi, S. 3.820, 3.826
Cobo-Aceituno, M. 407
Cobolli Gigli, C. 461
Coca, Y. 3.514
Cocchi, E. 2.401
COCCO, S. 880, 242, 3.947

Cocito, C. 866
Cocks, G. 3.211
Coco, S. 1.438
Coderre, T.J. 1.415
Codita, A. 2.058
Coelho De Souza, G. 2.460
Coelho, B.P. 1.681
Coelho, J.E. 590, 832
Coelho, R. 3.746
Coffey, A. 666
Coge, F. 1.165
Cogoni, C. 775
Cohen Kadosh, R. 2.823
Cohen, E.J. 3.738
Cohen, I. 290, 1.933
Cohen, L. 2.400
Cohen, N. 2.240
Coimbra, B. 691, 1.328
Colangelo, A. 307
Colasante, G. 713, 2.463, 2.963, 3.506
Colavito, V. 1.971, 2.058
Colby-Milley, J. 1.075
Colettis, N. 614
Colgin, L. 81
Colgin, L.L. 78, 151, 601
Colibaba, A. 1.780
Colic, L. 1.585
Colino Matilla, A. 1.937
Collantes, M. 1.995
Colletti, T. 2.607
Collina, S. 851
Collingridge, G.L. 2.540
Collins, L. 689
Colliva, A. 2.486
Collo, G. 984, 985, 3.686
Collu, M. 1.498, 1.586
Colombi, M. 1.529
Colombo, F. 1.568, 1.699
Colombo, S. 1.855
Colombrita, C. 3.739
Colomina, M.T. 2.822, 2.839
Colonius, H. 491
Colovic, O. 2.433
Combeau, G. 451
Combs, C. 1.452
Comella, J.X. 896, 2.442
Comes Franchini, M. 425
Comi, A. 2.918
Comi, G. 402
Cominelli, M. 408, 420, 1.261, 2.650
Commins, S. 643
Compagnucci, C. 671
Comte, A. 1.703
Concepcion, C.P. 2.689
Conconi, M.T. 298
Condliffe, S. 753
Conejo, N. 2.235
Conforti, P. 1.475
Congi, L. 3.850
Coni, P. 3.742
Conicella, F. 1.283
Conidi, A. 115
Connell, B.J. 1.504
Connor, M. 226
Connor, T. 2.020
Connor, T.J. 1.057
Consalez, G. 1.814, 2.602, 3.499
Consalez, G.G. 693, 842
Constals, A. 735
Constantin, C. 754
Constantin, G. 1.436
Constantinescu, A.O. 2.926
Constantinidis, C. 1.118
Constantinou, C. 931
Conte, A. 2.595
Contestabile, A. 724, 867, 1.400, 1.450, 2.953
Conti, F. 2.526, 3.578, 3.731
Conti, L. 426
Conti, V. 408
Contractor, A. 84
Conversi, D. 2.798
Cook, D.A. 3.692
Coolen, L. 1.211, 1.214
Coolen, M. 2.216
Cools, T. 2.892
Coombes, S. 1.153, 3.994
Coombs, I.D. 741
Coppens, J. 384
Coppola, C. 2.010
Coras, R. 213
Corbani, M. 1.062
Corbett, D. 2.222
Corbo, M. 849
Corceiro, V. 1.885
Corcia, P. 858, 3.745, 3.746
Corcoles, M. 1.693
Corcoran, A.E. 120
Cordaro, M. 1.437, 3.161, 3.710
Cordero, M.D. 595
Cordero-Erausquin, M. 3.274
Cordoba-Claros, M. 485
Córdoba-Claros, M.A. 1.610
Cordone, S. 2.198
Cordova, J. 2.182
Coré, N. 1.292, 1.297
Corlett, P.R. 3.914
Corlianò, V. 3.719
Corlier, F. 1.964
Corna, S. 2.696
Corne, H. 1.964
Cornelius, C. 3.710
Cornish, J. 988
Corona, C. 192, 856, 2.951
Coronas, V. 470
Corrada, D. 3.778
Corradi, A. 2.536
Corradini, I. 425, 457, 1.889, 3.014
Corral San Miguel, R. 178, 3.534
Corral-Bergantiños, Y. 2.202, 2.203
Corrales, F. 1.164
Corrêa, F.M.A. 3.867
Correa, M. 3.966
Correia, J. 306
Correia, P. 2.899
Correia, S. 2.178
Correia-Neves, M. 1.725
Corsaro, A. 1.949, 3.171
Corsi, M. 1.587
Corsi, P. 3.499
Corsini, G.U. 358
Corsini, S. 857
Cortés, A. 721, 2.980
Cortes, C. 2.012
Cortes, L. 3.301
Cortés-Campos, C. 2.187
Corti, F. 3.115
Corti, S. 2.611
Corvaglia, V. 2.577
Corvino, V. 1.530
Corvol, J.C. 3.071, 3.079
Cosette, P. 2.635
Coskun, P. 1.964
Coslovich, T. 1.351, 1.648
Cosquer, B. 1.728, 2.211
Cossart, R. 1.851, 2.313
Cossell, L. 3.601
Costa, C. 404, 2.580, 3.080
Costa, G. 362, 3.701
Costa, H.C. 3.312
Costa, I. 2.158
Costa, K.M. 1.543
Costa, M. 1.015
Costa, M.S.M.O. 1.981
Costa, P. 2.853
Costa, P.S. 587, 1.755
Costa, R. 3.496
Costa, R.M. 2.371, 3.909
Costa, R.O. 1.832
Costa, T. 1.974
Costa, V. 453
Costa-Faidella, J. 3.905
Costa-Mattioli, M. 134
Costantini, I. 1.776
Costanzi, M. 316, 1.800
Costanzo, F. 2.199
Costato, F. 1.438
Costentin, J. 1.589
Cotelli, F. 681
Cotrufo, T. 2.442
Cottet, J. 2.169
Cottone, E. 3.310
Cottrell, J.E. 2.243
Couillard-Despres, S. 1.544, 2.996
Couillard-Despres, S.C.D. 1.492
Coull, J. 569
Coulon, M. 1.757
Coulon, P. 2.653, 3.096, 3.630, 3.816
Coulthard, R.W. 3.366
Coura, R. 1.039
Couraud, F. 685
Coureaud, G. 617
Courtet, P. 1.062
Courtin, J. 1.144, 1.145, 1.146, 1.148, 3.789
Courtine, G. 1.658
Cousin, M.A. 2.531, 2.585
Cousins, J. 1.696
Coussen, F. 1.888
Coussen-Choquet, F. 736
Coutinho, R.A. 3.288
Couto De Oliveira, J. 1.924
Coutureau, E. 1.751, 1.756
Covelo Fernánde<, A. 220
Covelo, A. 3.048
Coveñas, R. 3.397
Coynel, D. 1.700
Cozzi, A. 200, 201, 824
Cozzi, B. 1.606
Cracchiolo, M. 979
Craig, A.M. 51, 738
Craig, T. 249
Cramer, T. 2.183
Cravezic, A. 1.589
Creau, N. 2.578
Cremer, H. 1.292, 1.297, 1.375, 1.823, 2.315, 2.317
Crépel, V. 3.581
Crespi, A. 1.855
Crespi, C. 3.917
Crespi, S. 1.319
Crespo-Ramírez, M. 3.377
Crestani, A.P. 3.950
Crestani, M. 938, 2.017
Crippa, V. 847, 848, 2.789, 3.726
Criscuolo, S. 2.293
Crispino, M. 1.915
Cristian, R. 3.644
Cristino, L. 221, 552, 1.552
Cristofani, R. 847, 848, 2.789, 3.726
Cristofari, C. 1.100
Cristofaro, I. 426
Cristofoli, A. 3.354
Cristóvão-Ferreira, S. 3.049
Croci, L. 693, 1.814, 2.602, 3.499
Crociara, P. 192, 856, 2.951
Crofts, J.J. 3.425
Croquelois, A. 2.932
Crosby, J. 880
Crosio, A. 913
Crouch, B. 1.119
Crovella, S. 942
Cruces Solis, H. 1.005
Cruciani, C. 396

Crupi, R. 1.526, 2.087, 2.095
Crusio, W. 1.720
Crusio, W.E. 3.215
Cruz de Souza, L. 1.964
Cruz, A. 570
Cruz, G.M.P. 2.478
Cruz, T. 385
Cruz-Martin, A. 500, 2.145
Cryan, J.F. 1.690
Csaba, Z. 384, 1.345
Csabafi, K. 1.052, 3.886
Csatho, A. 3.906, 3.904
Cserép, C. 1.752, 3.393
Cserpan, D. 672
Cservenak, M. 3.314, 3.315
Csicsvari, J. 79, 628, 629, 630, 631, 632, 633
Csölle, C. 448
Csurgyók, R. 2.247, 2.248
Cuadros, M.A. 1.326
Cubero, I. 548
Cuberos, H. 462
Cubinkova, V. 320, 324
Cucca, F. 2.061, 2.863
Cuccurazzu, B. 1.578
Cudeiro, J. 2.141, 2.202, 2.203, 3.264
Cuell, S. 2.864
Cuello, A.C. 1.961
Cuesta, A. 1.693
Cuesta, M. 3.342
Cui, L. 1.899
Cui, N. 1.072
Culig, L. 1.588
Cull-Candy, S.G. 741
Cullis, P. 3.418
Culotta, L. 3.217
Cummings, L. 1.760
Cunha, C. 1.328, 2.574
Cunha, I.F. 608
Cunha, R. 3.019, 264, 269, 3.594
Cunha, R.A. 277, 359, 832, 2.045, 2.094, 2.593, 2.726, 3.395, 3.599, 3.695
Cunha, R.D. 3.065
Cunha-Reis, D. 3.316
Cunningham, M. 5
Cuomo, O. 883, 894, 3.116
Cuomo, V. 554
Cupello, A. 243
Cupido, A. 1.593
Cupolillo, D. 784
Curcio, M. 881, 902
Curia, G. 3.752
Cursi, M. 402
Curti, D. 851
Curtis, M.A. 1.802, 2.642, 2.949
Curzytek, K. 1.057
Custo, A. 673
Cutica, I. 3.911
Cutrone, A. 1.181
Cutsuridis, V. 1.902
Cuturi, L. 1.599
Cuzzocrea, S. 1.437, 1.526, 2.087, 2.095, 3.161, 3.710
Cvijetic, S. 947
Cybulska-Klosowicz, A. 1.089, 2.833
Cyrille, O. 1.494
Czarkowska-Bauch, J. 2.781
Czarnecka, A. 1.990, 1.991
Czarnecki, A. 685
Czech, C. 1.970, 1.973
Czibere, L. 2.701
Czisch, M. 2.680, 2.700
Czurkó, A. 387, 1.384, 1.596
D'souza, C. 3.707
Da Sacco, L. 671
da Silva, A.L. 3.382
Da Silva, C.F. 3.931
da Silva, R.S.M. 1.681
Da Silva, W. 2.219
da Silva-Sauer, L. 3.860
Dachanidze, N. 2.184
Dacre, J. 2.791
Dada, S. 344
Dadak, S. 2.500
D'Adamo, P. 476, 1.814, 3.214
D'Addario, C. 554
Dadsetan, S. 609
Daffertshofer, A. 1.002
Dafnis, I. 1.942
Daghsni, M. 2.003
Dagna, F. 787
Dagnino-Subiabre, A. 1.055
D'Agostino, A. 433
Dahl, A. 713
Dahmen, J.C. 996, 2.110, 2.125
Dai, Y. 2.662
Dai, Y.W. 3.868
Dakwar, O. 2.400
Dal Bo, G. 2.753
Dal Maschio, M. 674, 1.772
DalBen, M. 948
Dalby, N.O. 1.874
Daldrup, T. 228
Dale, E. 1.342
Dale, T. 1.770
D'Alessandro, F. 1.800
D'Alessandro, G. 411
D'Alesso, A. 3.370
Dalla, C. 2.092, 2.674, 2.675, 3.345
Dallel, R. 1.033, 2.695
Dalley, J.W. 2.089
Dalmau, J. 3.557
Dalrymple-Alford, J. 2.211
Dalton, J. 2.900
Daly, F. 1.998
D'Amato, F. 2.798
D'Amato, F.R. 3.394
Damholdt, A. 2.281
Damiano, M. 2.239
Damico, F.M. 1.625
Dan, Y. 1.188
Dandi, E. 3.887
D'Andrea, G. 2.942
D'Andrea, L. 463
Daneault, J.F. 3.687
Dangel, B.J. 1.087
D'Angelo, A. 856
D'Angelo, E.531, 533, 534, 535, 536, 537, 538, 539, 542, 683, 1.963, 3.289, 3.850, 3.287
Dangoumau, A. 858, 3.745, 3.746
Dang-Quynh, H. 1.401
Danielewicz, J. 2.542
Danielisova, V. 895, 3.113, 3.117, 3.118, 3.119
Danko, J. 700
Danková, M. 3.118, 3.119
Dannenberg, H. 636
Danner-Liskus, J. 3.416
Dannlowski, P. 3.768
Dannlowski, U. 2.698
D'Antoni, S. 449, 459, 859
Danuta, M.H. 1.523
Danyadi, B. 1.630
Danzer, K.M. 2.613
Danzer, S. 3.758
Danzer, S.C. 3.749
Daoduc, K. 2.549
D'Apolito, L.I. 2.798
Daprati, E. 2.750
Darabid, H. 1.202
Daraio, T. 3.311, 3.317, 3.317
Daria, V. 1.777
Daria, V.R. 1.780
Darios, F. 852
Darlington, L.G. 2.985
Darlot, F. 1.756
Darmohray, D. 532, 3.286
Darmopil, S. 2.451
Darnaudéry, M. 3.882
Darnet, L. 2.894
Darovic, S. 1.258
D'Arrigo, C. 1.949
D'arrigo, G. 309
Darville, H. 1.165
d'Ascanio, P. 677
Dashniani, M. 621, 1.744
Da-Silva, R. 3.312
Datiche, F. 555, 564, 617
Datunashvili, M. 1.358
Daubigney, F. 2.578
Daut, R. 1.152
Dautan, D. 1.045
Davaux, S. 1.516
Davenport, E.C. 3.223
Davey, N. 1.490
David, A. 974, 2.732
David, J. 3.940
David, M. 2.288
David, V. 3.510
Daviddi, F. 3.708
Davide, P. 461
Davidovic, L. 2.486
Davidowitz, E.J. 326
Davidson, K. 1.312, 2.928
Davies, A.M. 1.315
Davies, H.A. 795
Davies, M. 1.517, 2.668
Dávila-García, M. 158, 1.856
Davis, K.E. 1.621
Davis-López de Carrizosa, M.A. 3.037
Davis-Poynter, N. 3.871
Davtyan, T. 1.456
Dawid-Milner, M.S. 3.866, 3.869
Daxnerova, Z. 1.818
Dayer, A. 117, 119, 2.933, 2.934, 2.935, 3.528
Daykin, H.J. 3.821
De Amicis, E. 365, 1.522, 375
De Andrade, G.M.A. 360
De Angelis, F.L. 2.645
De Barry, J. 637
de Bartolomeis, A. 3.202
De Blasio, D. 3.131
de Boer, M.W. 1.850
de Boer, S.F. 3.313
De Bundel, D. 384, 1.853, 2.732
De Camilli, P. 1.232
de Campo, D. 1.760
De Caro, V. 3.795
de Castro, F. 2.419
de Castro, M. 2.779
de Ceballos, M.L. 2.177
De Cecco, L. 3.762
de Chevigny, A. 1.292, 1.823
De Chiara, G. 3.644
de Curtis, I. 1.814
De Curtis, M. 379, 3.108
de Diego, A.G. 757
De Donatis, D. 2.447
De Fabiani, E. 2.017
De Felice, A. 464
De Felice, M. 894
De Feo, V. 1.495, 205
De Ferrari, G. 338, 3.007
De Filippis, B. 465
De Filippo, R. 1.883
de Fraga, L. 1.681
De Franceschi, M. 466
de Gelder, B. 1.709
De Giorgio, A. 2.447
De Graaff, E. 2.936
de Graan, P.N.E. 1.066
De Gregorio, C. 826
De Gregorio, R. 694

De Groef, L. 950
De Gruijl, J.R. 3.293
de Guzman, G. 223
de Hoz García-Bellido, L. 300
de Hoz, L. 1.005
De Iure, A. 3.080, 404, 2.580
De Jaco, A. 471, 2.645
de Juan, C. 2.932
De Kerchove D'Exaerde, A. 1.043
de Kloet, E. 1.056
de la Barreda Manso, M.A. 3.175
De la Casa, L.G. 3.187
de la Cruz, R.R. 2.057, 2.618, 2.619, 3.037
De La Fuente, M. 3.329
de la Oliva Muñoz, N. 3.439
DE la Rosa-Prieto, C. 3.688
De Lavilleon, G. 2.223
De Leonibus, E. 2.225
De Lima, R.R.M. 485, 1.610
De Luca, C. 307
De Luca, E. 2.953
De Luca, M.A. 3.702
de Maglie, M. 364
De Marchis, S. 186, 3.251
De Marco, D. 1.096
De Marco, R. 147
De Marco, R.J. 2.796
De Maria, M. 521, 3.572
De Martino, F. 2.118, 3.472
de Mattos, R.R. 1.638
De Mauro, A. 666
De Meester, L. 2.892
De Mesquita, T.V.M. 360
De Montis, M.G. 3.406
De Nadai, T. 2.487
De Nicolò, S. 986
DE Nuccio, C. 396, 397
De Oliveira Alvares, L. 3.950
de Oliveira, A.C.P. 935, 1.551
de Oliveira, S. 1.088
de Pablos, R.M. 1.566, 2.582
De Paola, M. 1.515
De Paola, V. 645
de Pascual, R. 853, 3.308
De piazza, C. 3.423
De Pietri Tonelli, D. 1.172, 2.316, 2.953, 2.961
De Pittà, M. 301
De Pretto, M. 3.146
De Propris, L. 526, 533
de Quervain, D. 1.700
de Quervain, D.J.F. 2.216
De Roo, M. 3.008
De Saedeleer, L. 2.163
de Saint-Georges, L. 3.167
De Sanctis, C. 694, 3.500
De Santana, C.N. 2.158
De Sarro, G. 2.095
de Sars, V. 3.061
De Schutter, E. 1.924, 2.448, 3.986
De Simone, R. 395, 396
De Simoni, M.G. 3.131, 3.423
De Souza, C.M.S. 360
De Stasi, A. 383
De Stefani, E. 1.096
De Stefano, M. 1.663
De Stefano, M.E. 1.632, 1.915
De Tauzia, M.L. 462
de Toledo Ribas, V. 1.518
De Vidania Ballesteros, S. 2.177
De Virgiliis, F. 1.663
de Visser, L. 2.272
De Vitis, A. 1.420
De Vitis, L.A. 3.157
De Vito, F. 949, 2.009
de Vito, G. 3.976
De Vivo, L. 2.810
De Vocht, N. 1.520
De Volder, A. 960
De Volder, A.G. 1.078, 2.398
De Vos, K. 2.623
De Vries, T.J. 1.212
De Weerd, P. 1.794
de Wit, H. 1.367
De Wit, J. 1.824
de Yébenes, J.G. 2.603
De Zeeuw, C.I. 525, 526, 527, 530, 533, 1.428, 1.490, 2.220, 3.293, 3.299, 3.300, 1.481
Dean, C. 2.491, 2.523
Dean, J.M. 1.802
Dean, P. 3.290
Deans, P. 439
Debanne, D. 3.566, 3.576
Debarbieux, F. 712
Debowska, W. 1.698
Debs, L. 2.242
Debski, K. 3.099
Debyser, Z. 2.902
Dechant, G. 920, 2.596, 2.599
Decherchi, P. 2.777
Dechterenko, F. 1.054
Decimo, I. 400, 1.512
Deckert, M. 2.923
Deco, G. 808, 1.422, 2.238
DeCurtis, I. 2.471
Dedic, N. 2.693
DeFelipe, J. 675
Defilippi, P. 1.390, 1.889, 2.472, 3.012
Defranchi, E. 1.180
deGelder, B. 499
Degen, J.L. 3.163
Deggouj, N. 960, 1.078
Deguchi, T. 518
Dehaene, S. 2.400
Dehorter, N. 1.925
Deiana, C. 450, 467
Deidda, G. 867, 1.450
Deidda, I. 1.532, 2.607
Deighton, R.F. 2.585
Deisig, N. 3.238
Deisseroth, K. 1.045, 1.129, 1.132, 1.478, 3.072
Deitmer, J. 768, 3.050
Deitmer, J.W. 3.980
Dejanovic, B. 1.886
Dejanovic, N. 315
Dejean, C. 1.144, 1.146, 1.148
Dekeyster, E. 950, 2.902
Del Arco, A. 2.704
del Bas, J.M. 1.117
Del Fiacco, M. 1.498, 2.772, 2.773, 3.828
Del Giacco, L. 364
Del Giudice, P. 808
del Giudice, R. 1.707
Del Negro, C. 1.006, 1.010
Del Percio, C. 1.971, 2.198
Del Pino, I. 1.925
Del Rio, J.A. 2.442
Del Río-Bermúdes, C. 1.069
Del Tongo, C. 2.156
Del Valle, J. 3.641, 916, 1.181, 2.626, 3.439
Del Vecchio, F. 1.601, 3.873
Del Zotto, M. 1.708, 3.262
Dela Cruz, J. 345
Delabar, J. 1.964, 2.578
Delage, P. 3.882
Delaunay, V. 591
DeLaura, S. 827
DelBel, E. 2.032
Del-Bel, E. 1.593
Delehanty, J.B. 1.779
D'Eletto, M. 816
Delettre, C. 1.620
Delgado García, J.M. 1.738
Delgado, G. 585
Delgado, T. 2.780
Delgado-Garcia, J.M. 1.733, 611, 1.173, 3.661
Deli, G. 3.689
Delia, D. 2.001
Deliano, M. 2.856
Delis, F. 2.703
Della Bianca, V. 1.436
Della Libera, C. 1.081
Della Rosa, P.A. 3.261
Della Sala, G. 868
Della Sala, S. 573
Dell'Albani, P. 459
Dell'Anno, M.T. 2.463
Dellarole, A. 1.951
Deller, T. 778, 1.394, 2.055
Delli Carri, A. 1.920
Dello Russo, C. 417
Dell'Orco, M. 854, 2.608
Delmas, P. 1.640
Delorme, R. 1.165
Delotterie, D. 2.874
Deloulme, J. 869
Delprat, B. 956
Delprato, A. 1.720
Deltheil, T. 3.076
Demartini, C. 3.817
Dembitskaya, Y. 773
Demenescu, L.R. 1.585
Demeter, K. 2.933
Demic, S. 2.691
Demidova, I.A. 480
Demin, D. 3.865, 3.870
Demir, N. 917
Demko, L. 1.166, 1.182, 1.169
de-Moraes Machado, C. 3.312
Demurishvili, M. 2.849
Demurtas, D. 3.650
den Ouden, H. 105
DeNardo, L. 1.824, 2.145
Denaro, F. 3.423
Denaxa, M. 2.471
Dendoba, A.A. 464
Dénes, A. 3.131
Denes, V. 1.320
Dengjel, J. 3.142
Denise Zahiu, D.Z. 1.502
Denisova, N. 803
Denti, M. 322
Deparis, A. 869
Depiets, B. 1.757
Depré, M. 2.862
Derambure, C. 2.635
Dérangeon, M. 3.051
Derdikman, D. 639
Derin, N. 917
Derks, K. 3.706
Dermentzaki, G. 340
Dermon, C.R. 1.594, 2.939, 3.166
Dermutz, H. 1.166, 1.169, 1.182
Deroche-Gamonet, V. 3.789
DeSalvo, M. 2.321
Désarmenien, M. 3.221
Deshors, M. 3.464
Désir, J. 1.807
Desire, H. 1.032
Desmedt, A. 3.495
Desmet, A. 882
de'Sperati, C. 1.083, 2.088
Detka, J. 1.574
Detours, V. 2.967
Deumens, R. 1.655
Deusser, J. 1.975
Deussing, J. 1.666
Deussing, J.M. 598, 3.541
Dev, K.K. 1.565, 2.020, 2.023
Devadoss, T. 2.681
Devalle, G. 1.427, 3.144
Devaux, S. 1.519, 2.659

Devilliers, M. 1.640
DeVito, L.M. 3.359
Devos, D. 3.745
Dhanasobhon, D. 3.274
Dhande, O.S. 500
Dhara, M. 250
Dheen, S. 2.030
Dhenain, M. 933
D'Hooge, R. 3.024, 3.621, 2.860, 1.941
Dhruv, N. 3.346
Dhungana, H. 3.126
Di Angelantonio, S. 2.039, 242
Di Bari, M. 426
Di Bello, F. 1.721, 1.722
Di Benedetto, B. 293
Di Campli, F. 2.915
Di Certo, M.G. 316
Di Cesare, G. 1.097
Di Chiara, G. 2.061, 2.727, 2.728, 2.863, 2.875, 3.409, 3.787, 3.788
Di Chio, M. 985
Di Clemente, A. 722, 729, 987, 2.067, 2.718, 2.722
Di Cristoforo, A. 3.873
Di Cunto, F. 1.390, 2.962, 3.012
Di Dio, C. 1.097
Di Donato, S. 1.471
Di Fabio, R. 1.587
Di Filippo, A. 1.723
Di Filippo, M. 404, 3.080
Di Fonzo, A. 2.919
Di Galante, M. 677
Di Giulio, A.M. 358, 1.513, 1.523
Di Lascio, S. 3.719
Di Lauro, R. 894
Di Liddo, R. 298
Di Luca, M. 238, 742, 1.447, 2.412, 2.503, 2.512, 2.591, 3.444, 3.660, 3.666
Di Marco, B. 459
Di Marco, S. 1.171
Di Maria, S. 1.816
Di Maria, V. 1.530
Di Marino, D. 1.447, 3.660
Di Marzo, V. 221, 552
Di Nuzzo, L. 3.780
Di Palma, M. 676, 1.164
Di Paola, R. 3.161, 3.710
Di Paolo, E. 1.471
Di Pietro, P. 3.780
Di Porzio, U. 1.915, 3.500, 694
Di Prisco, S. 367, 2.021, 2.979
Di Renzo, G. 767, 883, 894, 1.553, 2.595, 3.116, 3.139
Di Renzo, G.f. 905
Di Rienzo, C. 2.487
Di Santo, S. 717, 2.952
Di Sanza, C. 949
Di Scala, C. 1.946
Di Segni, M. 2.689, 2.798
Di Sisto, S. 521, 3.572
Diabira, D. 1.827
Diamanti, L. 2.608
Diamond, B. 1.537
Diamond, M. 1.750
Diamond, M.E. 1.023, 1.723
Diana, M.A. 2.838
Diano, M. 1.709
Dias Cristino, E. 2.460
Dias, B.G.D. 3.380
Dias, C. 2.590
Dias, S. 2.275
Dias-Morais, A. 709
Diaz Gil, J.J. 2.600
Diaz Martinez, E. 1.138
Diaz, A. 2.702, 1.583
Diaz, D. 2.598, 2.643
Díaz, E. 2.842
Diaz-Cabiale, Z. 3.396, 3.397
Díaz-Casares, A. 3.866, 3.869
Diaz-Cintra, S. 3.959
Díaz-Guerra, E. 3.694
DiBello, F. 2.168
DiBraccio, M. 243
Dibué, M. 2.999
Dick, A. 2.062
Dick, A.L.W. 1.338
Dickerson, I.M. 2.018
Dickson, C.T. 3.616
Dickson, T.C. 844
DiCostanzo, S. 3.212
DiCunto, F. 678
Didonet, J.J. 1.981
Didriksen, M. 441
Diederich, A. 491
Dieme, B. 468
Diepenbrock, J. 1.007
Diepold, R.P. 2.701
Dieriks, B.V. 2.642
Dieriks, V. 1.802
Dierks, T. 431
Dierssen, M. 556, 2.413, 2.638
Dieterich, D.C. 652, 655
Dietz, B. 1.409
Dietzel, I.D. 3.984
Dieudonne, S. 2.838, 1.842
Dieva, M. 3.870
Diez, H. 870, 3.693
Díez-Revuelta, N. 1.308
Difato, F. 2.429, 3.678
DiFrancesco, D. 2.004, 3.504
DiFrancesco, J. 2.004
Dijk, D.J. 2.687
Dijk, R. 1.803
Dilaghi, A. 1.878
Dileone, M. 3.818
DiLeone, R. 1.590
DiLeone, R.J. 1.591
Dillingham, C. 1.724, 1.726
DiLuca, M. 1.979
Dimarco, T. 980
Dimas, P. 1.820
Dina, G. 402, 1.821
Dinamarca, M.C. 742
Dinan, T.G. 1.690
Ding, S. 1.415
Ding, Y. 2.794
Dingu, N. 1.655
Dinis, T. 1.619
Diniz, G.B. 3.312
Dinnyés, A. 2.661
Dinse, H.R. 1.611
Diogenes, M. 2.488
Diogenes, M.J. 2.489, 3.674
Dioli, C. 2.092
Dion, P.A. 3.830
Dionisio, J.C. 1.885, 2.524
Dionisio, P.A. 1.941
Dipoppa, M. 501
Dirks, A.D. 2.530
Dispersyn, G. 3.925
Dissanayake, C. 3.718
Disterhoft, J. 2.231
Dityatev, A. 773, 1.388, 2.432, 2.463, 3.027, 3.219, 3.589, 3.600
Dityatev, A.E. 3.067
Dive, V. 1.943, 2.288
Dix, S. 637, 1.970, 1.971, 1.973
Diz-Chaves, Y. 550
Djavadian, R. 1.133, 2.799
Djavadian, R.L. 204, 669
Djelti, F. 637
Djordjevic, J. 3.775
Djuric, D. 1.486
Dlouha, O. 3.332
Do Carmo, M.R.S.C. 360
do Rego, J. 1.589, 1.664
do Rego, J.C. 1.664
do Rego, J.L. 1.589
Do, H. 3.304
Dobolyi, A. 387, 1.384, 1.596, 3.314, 3.315, 3.657
Dobrota, D. 899
Dobryakova, Y. 3.020, 3.021, 3.760
Dócs, K. 1.318
Dodge, J.C. 2.792
Dodson, P. 1.687
Dodt, H. 1.778
Doerig, N. 3.781
Dogan, A. 199
Dogas, Z. 2.821, 3.872
Dogbevia, G. 1.140
Dolan, R. 59
Dolci, W. 547
Doleal, V. 1.160
Dolejsi, E. 1.346, 1.349
Dolen, G. 2.295
Dolenec, P. 3.147
Dolezal, V. 1.346, 1.349, 1.790
Dolgorukova, T.A. 635
Dolius, L. 1.968
Doller, D. 1.342
Dolmetsch, R.E. 2.295
Dolphin, A. 1.245
Dolphin, A.C. 1.242, 2.995
Domagalik, A. 2.751
Domagalik-Pittner, A. 2.754
Domanska-Janik, K. 3.137
Domanski, A. 469
Domanskyi, A. 3.078
Domenichini, F. 451, 470
Domenici, M. 222
Domercq, M. 907
Domingo, J. 2.267
Domingo, J.L. 594, 597, 2.822, 2.839
Domingues, F. 1.476
Domínguez-del-Toro., E. 2.455
Domínguez-Prieto, M. 412, 413, 2.579
Domínguez-Riscart, J. 194
Dominique Kessel, D.K. 571
Domnick, N. 1.495
Domoráková, I. 3.118, 3.119
Donà, E. 3.543
Donadieu, M. 569
Donchin, O. 3.291
Donegá, V. 2.464
Donini, M. 2.037
Donkels, C. 195
Donnari, S. 432
Donnelly, C. 2.609
Donnerer, J. 3.275
D'Onofrio, M. 880
Donovan, J.C. 146
Donzelli, E. 1.560
Doods, H. 2.762
Dooley, D. 1.520, 2.666
Dopeso-Reyes, I. 828
Dorado-Siles, I. 3.187
Dore, R. 1.072
Dori, A. 2.634
D'orio, B. 951
Dorloechter, M. 3.494
Dornblut, C. 3.503
Dorner-Ciossek, C. 2.874
Doronin, M. 773
Dorseuil, O. 3.227
Dorszewska, J. 342
dos Santos, F.P. 2.780
Dos Santos, M. 790, 3.785
Dose, F. 1.648
DosSantos, M. 2.063
Dossi, E. 3.051
Dotson, N. 2.226
Doualot, A. 3.898

Doucet, E. 975
Doucet-Beaupre, H. 829
Dougherty, K. 92
Dournaud, P. 384, 1.345
Dournes, C. 1.674
D'Ovidio, A.R. 1.441
Dowker, A. 2.823
Doyle, J.P. 697
Doze, V. 37
Draffehn, A. 2.250
Drago, F. 449, 459
Dragotto, J. 1.804
Draguhn, A. 2, 6, 291, 1.953
Dragunow, M. 2.642
Drahos, L. 3.657
Drazanova, E. 1.986
Drechsel, D. 1.799, 3.506
Drela, K. 3.137
Dremencov, E. 3.549
Dreosti, E. 15
Dresbach, T. 2.127, 2.523, 3.015, 3.521
Dreszer-Drogorob, J. 3.916, 1.710, 3.912, 3.913
Drexel, M. 390
Drgová, A. 3.129
Dricot, L. 960
Drinkenburg, W.H.I.M. 218
Drinnenberg, A. 508
Drisaldi, B. 2.227
Drogou, C. 3.925
Droguerre, M. 712, 1.976
Droit-Volet, S. 569
Drori, Y. 1.157
Drouin-Ouellet, J. 1.161
Drucker-Colín, R. 2.026
Druid, H. 1.718
Druzin, M. 1.880, 1.881
Duarte, A. 1.435, 2.178, 2.489
Duarte, A.I. 1.454
Duarte, C.B. 881, 902
Duarte, E.P. 881
Duarte, F.V. 359
Duarte, I.C. 3.910
Dubayle, D. 540
Dublin, P. 302
Dubois, L.G. 1.262, 410
Dubos, A. 1.774
Dubovyk, V. 444
Duch, C. 2.449, 2.998
Duchene, J. 1.527
Duchi, R. 856
Duchon, A. 2.578
Duchou, J. 676, 3.783
Ducza, L. 3.276
Duda, W. 1.057
Dudek, S. 2.332
Dudman, J. 2.881
Dudys, D. 2.797, 3.883
Duffy, K. 502
Duffy, K.R. 3.530
Dufour, M. 1.926
Dugladze, T. 2.522
Dugnani, S. 3.326
Dugovic, B. 1.150
Dugué, G. 529
Dugué, G.P. 2.905
Duguid, I. 544, 2.791
Duhr, F. 2.450
Duke, P.A. 3.206
Dumais, K. 3.318
Duman, C. 1.591
Duman, R. 1.590
Duman, R.S. 1.591
Dumbacher, M. 317
Dumitru, I. 193
Dumler, J. 3.502
Dumont, M. 852
Dumurgier, J. 1.965
Dunay, I.R. 2.103
Duncan, J. 1.338
Duncan, J.R. 2.062
Dunn, B. 1.120
Dupe, V. 3.510
Dupret, D. 631, 2.234
Dupuis, D. 2.450
Dupuy, F. 3.238
Duque Feria, P. 1.896
Duque, A. 2.852
Duran, J. 952
Duran, J.M. 3.950
Duran-Moreno, M. 190
Durante, V. 404, 2.580, 3.080
Durão, A.C.C.S. 3.044
Duric, V. 1.591
Durif, F. 1.992, 3.055
During, M.J. 2.251
Durka, P. 1.084
Duro, S.O. 3.044
Durroux, T. 1.198
D'Urso, D. 1.284
Dürst, C. 35
Durst, M. 2.812
Dusart, I. 2.500
Dusi, S. 2.037
Dusonchet, A. 2.462
Duszczyk, M. 1.535
Duszkiewicz, A. 1.129
Duszkiewicz, A.J. 1.132
Duszyk, A. 1.084
Dutheil, S. 1.591
Dutra, F.D. 3.950
Dutta, A. 2.889
D'Uva, S. 2.259
Duval, C. 3.687
Düzel, E. 2.824
Dvir-Ginzberg, M. 2.250
Dvoretskova, E. 2.463, 3.219
Dvorkin, R. 786
Dvorzhak, A. 1.473
Dwivedy, A. 1.314
Dwyer, D.M. 3.412
Dwyer, J. 1.590
Dyakonova, V. 2.890
Dyck, R.H. 1.116
Dygalo, N. 679, 2.795, 2.805
Dygalo, N.N. 3.774
Dymecki, S. 120
Dyr, W. 3.554
Dys, A. 2.056
Dzadzamia, S.H. 2.097, 2.100
Dzaja, D. 206
Dzaye, O. A. 406, 415
Dziedzicka-Wasylewska, M. 1.673, 3.636
Dzwonek, J. 780, 781, 1.548, 3.516
Dzyubenko, E. 1.379
Eames, T.J. 1.175
Easton, C. 2.971
Eaton, C. 3.957
Ebel, J. 3.679
Ebert, K. 3.422
Ebert, S. 1.886
Ebstein, R. 3.927
Echevarría, D. 688
Eckelt, K. 2.900
Eckenstaler, R. 2.490
Ed Dami, T. 1.448
Edamatsu, M. 1.680
Edbauer, D. 327
eddine, R.E. 3.798
Edel, M. 1.528
Edelmann, E. 1.894, 1.897
Ederer, M.S. 3.541
Edgar, D.M. 2.814
Edry, E. 1.889
Edson, J. 2.062
Eduardo, D. 1.758
Edwards, R. 70
Eeftens, J.M. 3.509
Eelkman Rooda, O.H.J. 1.490
Eelkman Rooda, O. 1.481
Efimova, O. 3.426
Efroni, S. 3.443
Egawa, T. 3.038
Egea Navarro, J. 179
Egea, J. 208
Egebjerg, J. 745
Egert, U. 391, 3.428
Eggen, B.J.L. 2.027
Egger, V. 1.866
Eggert, T. 443
Egles, C. 1.619
Egloff, K. 2.630
Egorov, A.V. 291
Eguchi, K. 262
Ehling, P. 1.482, 2.014
Ehlis, A.C. 1.087, 3.197, 3.889
Ehninger, D. 651
Ehrlich, I. 3.392
Eichler, E. 2.967
Eichmann, M. 1.860
Eickenscheidt, M. 2.922
Eickholt, B. 1.387
Eickholt, B.J. 1.425, 2.297, 2.428
Eigentler, A. 2.596, 2.599
Eijssen, L.M.T. 706
Eikermann-Haerter, K. 3.002
Eikmeier, K. 409
Eilam, R. 405
Einarsson, E. 1.147
Einoch, R. 440
Eisele, Y.S. 3.643
Eisenhardt, M. 2.064
Eitan, C. 3.955
Ekstrand, M. 1.076, 1.167, 1.168
El Assawi, N. 678
El Hady, A. 25
El Hajj, N. 706
El Hajj, Z. 2.581
El Mlili, N. 2.834
El-Agnaf, O. 3.080
El-Danaf, R.N. 500
Eleftheriou, C. 1.621
Eleftheriou, C.G. 2.147
Elekes, K. 720, 3.252
Eleuteri, C. 3.822
Elezgarai, I. 230
El-Fakahany, E.E. 1.346, 1.349, 1.790
Elgersma, Y. 922
El-habr, E. 410
El-Habr, E.A. 1.262
El-Hachimi, K.H. 852
El-Hage, W. 3.246
Elhilali, M. 3.469
Elia, C. 1.438
Elias, C. 1.227
Elias, L.L.K. 3.320
Eliassi, A. 3.567
Eliav, T. 638
Eligert, V. 1.592
Elkhoueiry, C. 1.033
Ellenbroek, B. 2.699
Eller, J. 2.522
Elliot, J. 3.718
Ellis, M. 478
ElMlili, N. 3.540, 1.421
Elsayed, M. 1.592
Elster, L. 2.281
Ely, C.C. 2.164
Emadi Andani, M. 1.099
Emanuele, M. 830
Embrechts, S. 2.253
Emeline, J. 2.090

Emiliani, V. 90, 3.061
Emir, U. 2.136
Emmanouilidou, E. 3.073
Emond, P. 468, 3.745
Emptage, N.J. 3.032
Emri, Z. 448
Enard, W. 3.331
Encinas, J.M. 129
Endo, F. 2.610
Endo, K. 3.747
Endo, N. 2.891
Endo, S. 1.706
Endrényi, M. 2.170
Endres, M. 884
Engblom, D. 1.155, 1.765
Engdahl, A. 1.960
Engeholm, M. 3.541
Engelhard, K. 3.154
Engelhardt, M. 291, 3.535
Engelke, D.S. 2.066
Engelmann, M. 610
Engert, F. 1.657
Engler, S. 1.803
Enguita, F.J. 344
Enikolopov, G. 3.424
Enomoto, A. 2.246
Enquist, L.W. 24
Entz, L. 3.107
Eom, K. 1.876, 1.882
Epelbaum, J. 3.372
Epelde, G. 666
Epplen, J.T. 964
Eramo, A. 3.202
Eramo, S.L.M. 1.020
Erard, M. 252
Erb, I. 556
Erbas, O. 3.699
Erdei, O. 3.284
Erden, F. 3.958
Erdmann, F. 3.544
Erdmann, I. 652
Eren, E. 924, 925
Ergenc, I. 3.330
Erice, C. 1.315
Erichsen, J. 1.724
Erichsen, J.T. 1.740
Erickson, R.P. 2.573
Ericson, M. 217
Erisken, S. 2.149
Erlykina, E. 3.120
Ermakova, A. 3.914
Ermentrout, B. 378
Ermine, C. 1.978
Ermolyuk, Y. 272
Eroglu, C. 1.828, 3.460
Eroglu, C.E. 3.821
Eron, J. 1.600
Eross, L. 3.107
Erskine, L. 2.365
Ertl, R. 1.322
Ertl, T. 1.630
Erxlebe, E. 2.734
Erzurumlu, R. 1.034
Escartin, C. 33, 933
Escayg, A. 1.869
Escera, C. 2.116, 3.905
Eschalier, A. 1.640
Eschenko, O. 98, 966, 2.843
Escher, P. 871
Esclapez, M. 206, 247
Escobar, A. 723, 2.105
Escobar, M.L. 3.949
Escorihuela, R.M. 1.117, 1.767
Escubedo, E. 1.557, 1.939, 3.956
Escudero, M. 1.071
Esculpi, D. 1.082
Esipenko, E.A. 635
Esir, P. 3.110
Esmar, D. 3.130
Espa, E. 2.875
Espadamala, J. 3.501
Espadas, I. 3.712, 3.784
Espallergues, J. 1.040, 1.042, 2.724
Espana, A. 268
España, R.A. 723
Esparza, T. 1.947
Espina-Marchant, P. 3.130
Espinet, C. 179, 208
Espinosa, A.M. 1.566
Espinosa, N. 2.202, 2.203
Espinosa-Carrasco, J. 556
Espinosa-Oliva, A.M. 2.582
Espinosa-Raya, J. 3.959
Espinoza, S. 724, 728, 2.807
Esposito, A. 905, 1.553
Esposito, E. 1.437, 1.526, 2.087, 3.161, 3.710
Esposito, G. 3.715
Esposito, M. 2.159
Esposito, R. 694
Esposti, R. 2.152, 2.153, 2.154, 2.155
Esser, K.H. 1.660
Esteban, A. 2.598
Esteban, C.E. 1.749
Esteban, J.A. 3.018, 3.026, 3.214
Esteban, S. 2.254, 2.255, 2.256
Estebanez, L. 1.029, 2.160
Esteky, H. 2.740
Esteves da Silva, M. 1.887
Esteves, I.M. 1.479
Estrada, C. 1.635
Estrada, F.S. 2.958
Eszik, I. 3.385
Etchamendy, N. 584
Ethans, K. 2.012
Etherington, L. 430
Etkin, A. 1.713
Eto, T. 2.555
Etocinová, J. 1.081
Ettle, B. 831
Ettorre, M. 276
Etzerodt, A. 3.087
Etzion, T. 2.173
Eugene, E. 760
Eulalia, B. 2.600
Eva, C. 563, 1.748, 2.850
Evangelio, M. 503, 3.436
Evans, A. 689
Everitt, B. 2.356
Everling, S. 3.258
Evsyukov, V. 3.078
Ewer, J. 3.627
Eybrard, S. 3.183
Eysel, U.T. 1.785
Ezan, J. 3.215
Ezquerro, M.T.H. 1.974
Ezra, G. 541
Fabbretti, E. 511
Fabbrini, F. 2.168
Fabel, K. 2.953
Fabene, P. 2.049
Fabene, P.F. 3.702, 3.780
Fabian, E. 1.622
Fabianova, K. 2.940, 3.248
Fabre, V. 1.207
Fabri, M. 989, 1.109
Facci, L. 1.558
Fackelmayer, F.O. 3.736
Facoetti, A. 2.088, 3.897
Factor, S. 3.692
Fadda, M. 207
Fado, R. 896
Faedo, A. 1.295
Fafouri, A. 384, 1.345
Fafrowicz, M. 2.751, 2.754
Fagan, E. 1.057
Fagerberg, L. 182
Fagetti, V. 3.669
Faggiani, E. 353
Fagiolini, M. 2.641
Fagni, L. 742, 1.892, 2.500
Fähling, M. 406
Fahlke, C. 3.577
Fahnestock, M. 3.222
Faideau, M. 304, 1.960
Faisal, A. 2.426, 2.468
Faisal, A.A. 1.685
Faissner, A. 1.379
Fait, E. 2.204
Faivre, E. 933, 3.668
Faivre-Sarrailh, C. 308
Fajardo Serrano, A. 1.359
Fakler, B. 750, 754
Falace, A. 207
Falcicchia, C. 1.491
Falini, A. 2.161, 3.917
Fallgatter, A.J. 1.087, 3.197, 3.889
Faludi, B. 3.877
Fan, X. 1.412
Fanale, A. 979
Fanarioti, E. 232
Fandel, D. 2.658
Fanelli, F. 951, 3.214, 3.670
Fanti, A. 2.161
Fantin, A. 1.312
Fantini, J. 1.946
Fanto, M. 3.723
Farace, M.G. 463
Faradzs-zade, L. 3.847
Faraguna, U. 677, 1.079
Faralli, A. 784, 787
Faravelli, I. 2.611
Farazifard, R. 835
Farbáková, J. 318
Fareh, M. 410
Fariello, R. 365
Farina, M. 281
Fariñas, I. 347, 2.956
Farinazzo, A. 845
Farinetti, A. 1.301, 2.179
Farioli-Vecchioli, S. 316, 1.800, 2.942
Farisello, P. 292
Farkas, C.D. 1.984
Farkas, E. 1.499
Farkas, J. 1.009
Farkas, L. 1.752, 3.393
Farkas, T. 887, 888, 2.266
Farombi, E.O. 1.538
Faron-Gorecka, A. 1.673, 3.636
Faroni, A. 299
Farooq, R. 2.677
Farrant, M. 741
Farries, M. 1.041
Farrow, P.A. 734
Fasano, S. 1.539, 2.065, 3.711
Fasching, U. 3.508
Fasoli, F. 1.857, 1.863, 2.729
Fasolo, A. 187, 3.251
Fasquelle, L. 956
Fassbender, K. 1.445, 2.038
Fassihi, A. 1.750
Fassini, A. 3.867
Fassio, A. 207, 2.533, 2.536
Fastenrath, M. 1.700
Fath, T. 1.500
Fato, M.M. 663, 2.194
Fattori, P. 2.737, 2.753, 2.755, 2.757, 3.810
Fattorini, G. 2.526
Faull, R.L.M. 1.802, 2.642, 2.949
Faure, C. 1.039
Faure, P. 3.620, 3.796
Faure, P.F. 3.798

Fava, E. 2.162, 2.918
Favaloro, F. 471
Favaro, P. 1.339, 3.013
Favarolo, F.L. 2.645
Favereaux, A. 959
Favero, G. 3.092
Favez, T. 871
Fawcett, J.W. 789, 1.139, 2.617
Fayad, J. 3.286
Fayuk, D. 770, 3.062, 3.063
Fazan, V. 368
Fazio, G. 681
Fecchio, M. 1.427, 3.604
Fedele, E. 341, 644
Fedele, S. 3.686
Federici, M. 2.009
Federspiel, A. 2.475
Fedina, O. 1.497
Fedulova, S. 1.930
Feigenspan, A. 3.502
Feiguin, F. 1.257
Feiler, M. 2.612
Fejes-Szabó, A. 1.646
Fejgin, K. 441, 2.281
Fejova, A. 2.527
Fejtova, A. 1.401, 1.368
Fejtova, A.F. 2.530
Fekécs, Z. 2.302
Fekete, A. 3.576
Fekete, C. 3.280
Feldman, J. 91
Feldmann, A. 1.682
Felici, R. 2.044
Felicio, L.F. 2.897
Feligioni, M. 1.948
Felipo, V. 582, 609, 926, 1.535
Félix, R. 1.879
Fellin, T. 292, 383, 1.772
Fellmann, D. 553
Fellous, J.M. 641
Felmy, F. 1.008
Felsani, A. 983, 2.683
Felzen, V. 3.154
Fenández-López, E. 3.834, 3.834
Feneberg, E. 1.969
Fenton, A.A. 2.243
Fenton, G. 1.153, 1.154
Fenu, S. 2.875
Ferenczi, S. 1.298
Ferger, B. 1.576
Feria-Velasco, A. 886
Ferlin, K.M. 189
Fern, R. 1.509
Fernagut, P.O. 350, 2.482, 3.960
Fernandes, A.B. 3.909
Fernandes, C. 599, 1.747
Fernandes, D. 1.397
Fernandes, F.D.P. 359, 2.268
Fernandes, K. 2.466
Fernandes, M. 360
Fernandes, M.A. 2.178
Fernandes, M.Y.D.S. 2.260
Fernandes, M.Y.S.D. 3.121
Fernandes, R. 513
Fernandez Bozarth, I. 867
Fernández Fernández, D. 263
Fernández López, A. 898, 3.112
Fernandez Morales, J.C. 853
Fernández, A.P. 1.455
Fernandez, G. 96
Fernandez, L. 1.073
Fernández, M. 2.569
Fernandez, M.A. 2.603
Fernandez, S. 121
Fernández, T. 1.694, 1.835
Fernández-Dueñas, V. 1.357
Fernandez-Egea, E. 438
Fernandez-Enright, F. 428, 3.186
Fernandez-Llebrez, P. 953, 954, 1.299
Fernández-López, B. 1.521, 2.663
Fernandez-Lopez, E. 1.032
Fernandez-Montoya, J. 1.035
Fernández-Morales, J.C. 757, 3.308
Fernández-Ruiz, J. 945
Fernando, D. 675
Fernando, R. 2.284
Feron, F. 200
Ferpozzi, V. 2.161, 2.162
Ferracuti, S. 2.915
Ferraguti, F. 260, 794
Ferraina, C. 1.948
Ferraina, S. 1.186, 1.721, 1.722, 2.168, 2.199
Ferran, J. 180
Ferrand, N. 3.523
Ferrante, A. 222, 397
Ferrara, G. 2.010
Ferrara, L. 666
Ferrarelli, F. 433
Ferrarese, C. 2.004, 3.423, 3.744
Ferrarese, L. 284
Ferrari, A. 3.406
Ferrari, C. 1.098, 1.110, 1.471
Ferrari, D. 2.620
Ferrari, E. 2.002
Ferrari, L. 681
Ferrari, M.D. 3.002
Ferrari, P.F. 2.343
Ferrari, R. 1.515
Ferrari-Toninelli, G. 864
Ferraro, L. 222, 874, 2.569
Ferraro, M. 3.988
Ferraz, M.M.D. 1.503
Ferraz, M.R. 1.503
Ferrazzo, S. 467
Ferrea, E. 1.870
Ferreira Junior, R.S. 2.775, 2.779
Ferreira, A. 1.725
Ferreira, D. 832
Ferreira, D.G. 590
Ferreira, E.O. 349, 2.260, 3.081, 3.121
Ferreira, F. 1.593
Ferreira, F.F. 3.513
Ferreira, G. 617, 3.374
Ferreira, J. 738
Ferreira, S. 2.489
Ferrer, I. 834, 851, 2.568
Ferrera, P. 1.679
Ferreri, L. 1.695
Ferrer-Martín, R.M. 1.326
Ferrero, J.J. 945
Ferrés-Coy, A. 347
Ferretti, P. 955
Ferretti, V. 645, 2.195
Ferrier, I.N. 575
Ferrini, F. 3.273
Ferro, M. 377, 1.380, 3.106, 3.504
Ferrucci, R. 2.919, 3.911
Fesce, R. 3.625
Fetoni, A.R. 1.020
Fiancette, J.F. 3.789
Fiáth, R. 1.011, 1.183
Ficarella, S. 3.915
Fichna, J. 1.589
Fico, G. 3.202
Fidalgo, A. 1.085
Fidalgo, C. 926, 1.559, 1.980, 2.235
Fidalgo, S. 2.257, 2.258
Fidzinski, P. 435
Fiebich, B.L. 935, 1.551
Fiedler, J. 3.321
Fiedler, K. 1.719
Fields, B.K.K. 3.955
Fienko, S. 2.527
Fièvre, S. 1.888
Figeys, D. 835
Figiel, I. 788
Figiel, M. 1.468, 3.720
Figiel-Ozóg, I. 3.516
Figueiredo, A.C. 2.764
Figueres-Oñate, M. 1.300
Filev, R. 2.066
Filezac, A. 2.615
Filice, F. 472
Filiou, M. 2.692
Filip, C. 2.252
Filipello, F. 1.438, 2.008
Filipowicz, W. 3.455
Filippini, A. 1.529, 3.033
Filippo, C. 2.616
Filippov, I. 809
Filippov, I.V. 492, 1.607, 3.619
Finardi, A. 1.568, 2.018
Finc, K. 3.912, 3.916
Fink, H. 2.702
Fink, Y. 1.185
Finkelstein, A. 638, 639, 641, 642
Finkes, I. 1.273
Finnerty, G.T. 599, 1.747
Finocchiaro, A. 2.259
Finsterwald, C. 1.293
Fintor, K. 2.457
Fiocchi, S. 3.906
Fiore, M. 426, 986
Fiorentini, C. 2.480, 3.083
Fiorenza, A. 3.514
Fiorenza, M.T. 1.804, 2.573
Fiori, F. 989
Fiorillo, C. 824
Fiorini, M. 504
Fiorio, M. 1.099
Fioriti, L. 2.227
Fisahn, A. 3.684
Fiscella, M. 508
Fischer, A. 43, 1.434
Fischer, B.J. 1.001
Fischer, G. 3.735
Fischer, K.D. 610
Fischer, M. 2.086
Fisher, D. 260
Fisher, E. 2.295
Fisher, J.P. 189
Fisone, G. 1.405, 1.985, 2.847
Fitch, A.P. 1.697
Fitting, S. 1.718
FitzGerald, U. 1.534
Fitzpatrick, D. 1.218
Fitzpatrick, R. 1.130
Fitzsimons, C.P. 2.931
Fiumelli, H. 2.933
Flachskamm, C. 2.191
Flaman, J.M. 2.635
Flames, N. 1.237, 1.238
Flanagin, V.L. 1.737, 2.827
Flavell, C.R. 3.370
Fleidervish, I. 1.788
Fleitas, C. 208
Fletcher, P.C. 3.914
Flinders, M. 1.754
Florczak-Wyspianska, J. 342
Flore, G. 1.331
Florenzano, F. 880
Flores, A. 3.396
Flores, J. 2.203
Flores, M. 1.340
Flores-Burgess, A. 3.397
Flores-Cuadrado, A. 3.688
Flores-Giubi, E. 194
Flores-Muñoz, C. 1.371
Florio, T. 421, 1.949, 2.034, 3.171
Floris, A. 3.742
Foa, L. 4.001

Foerster, J.N. 639
Foffani, G. 675, 1.032, 1.176, 1.177, 3.818, 3.834
Fogassi, L. 2.342, 2.344, 2.752
Fogli Iseppe, A. 1.360
Foik, A. 505, 2.148, 2.150, 3.135, 3.605
Fokin, V. 1.184
Fokos, S. 1.594
Folch, A. 2.971
Folci, A. 473, 3.082, 3.220
Földesi, I. 1.052
Foldi, C. 1.041
Folladori, L. 1.905
Follert, P. 1.292
Follo, M. 388
Folsom, R.J. 2.084
Foltynie, T. 821
Fominykh, V. 1.477
Fonov, V. 689
Fonovic, M. 3.177
Fonseca, R. 2.726
Font, E. 3.112
Fonta, C. 385, 1.968, 3.341
Fontan, A. 595
Fontana, F. 322
Fontanesi, L.B. 368
Fonteles, A. 2.260
Fonteles, A.A. 348, 2.268, 3.121
Fonteles, A.A.F. 360
Fontenele, A.P. 3.695
Fontes Ribeiro, C.A. 2.726
Fontinha, B. 2.124
Fore, S. 1.321, 3.255
Forero, A. 2.938
Forese, M.G. 1.821
Forli, A. 755
Forlino, A. 2.627
Forloni, G. 1.433, 1.970, 1.973
Formicola, D. 856
Formisano, E. 2.118, 3.468, 3.993
Formisano, L. 767, 883, 1.553, 3.139
Fornari, E. 1.966
Fornari, R.V. 2.215, 2.216
Fornaro, M. 516
Fornasari, B. 2.282
Fornasari, D. 457, 3.719
Fornasari, D.M. 1.861
Forni, F. 3.170
Fornia, L. 2.161, 2.162
Foroni, F. 1.702
Forostyak, S. 2.617, 2.665
Forrest, C.M. 2.985
Forró, C. 1.182
Forro, T. 604
Förstera, B. 406, 2.515
Fort, P. 1.334, 2.816
Forte, K. 1.086
Forte, N. 3.592
Forti, L. 2.633, 3.625
Forti, P. 337
Fortin, G. 90
Fortis, E. 3.151
Fortoul, A. 2.288
Fortunak, J. 1.856
Foscarin, S. 789
Foschi, N. 989, 1.109
Fossataro, C. 486
Fossati, G. 1.889
Fossati, S.M. 2.469
Fossier, P. 252, 451
Fournier, . 1.516
Fournier, C. 434, 1.067, 1.670, 2.800, 2.802
Fournier, I. 1.519
Fournier, M.L. 2.233
Fournier, S. 690
Fox, K. 1.398
Foy Preer, L. 1.701
Fraboulet, S. 1.892, 2.974
Fracassi, A. 3.670
Fragapane, P. 1.663, 2.225
França, M.M. 3.312
Francavilla, R. 657
Francelle, L. 933
Franceschetti, S. 381, 1.872, 2.004, 3.141, 3.762
Franceschini, S. 2.088
Francesco Rossi, F.R. 3.156
Francese, M.T. 1.951
Francheteau, M. 712, 3.960
Franchi, G. 553
Franchi, S. 3.239
Franchini, M. 3.738
Franchino, C. 3.642
Francis, F. 2.932
Francis, P. 1.474
Francisco Eliseo, O. 2.834
Francius, C. 1.316
Franck, J. 1.519
Franco, B. 211
Franco, C. 1.364
Franco, L.M. 2.892
Franco, P. 3.888
François, C. 354
Francolini, M. 364, 473, 3.220
Francos-Quijorna, I. 3.730
Frank, S. 903
Frank, T. 3.240
Franklin, J.L. 988
Franks, N.P. 645, 2.195, 2.196
Fransen, A. 810
Franzen, D. 1.008
Franzin, A. 2.602
Frappe, I. 710, 2.482
Frasca, A. 1.970, 1.973
Frasca, G. 1.731
Fraser, L. 330
Frassoni, C. 209, 213
Fratangeli, A. 1.819
Frattaroli, D. 855
Frattini, S.A. 1.537
Frau, L. 362, 3.701, 3.702, 3.703
Frau, R. 2.061, 2.728, 2.863
Frauke Drees, F.D. 2.443
Freato, N. 942
Freestone, P. 223
Freestone, P.S. 3.091
Frega, M. 3.983, 4.006
Fregnan, F. 2.291, 2.787
Fregosi, M. 2.169, 3.150, 3.151
Freiman, S. 897, 1.060
Freimann, F. 884
Freischmidt, A. 2.613
Freitag, C.F. 655
Freitag, C.M. 1.808
Freitag, H.E. 3.943
Frenkel, D. 833
Frens, M. 3.291
Frenyo, V.L. 2.181, 3.305
Freret, T. 591
Fresegna, D. 949, 2.009
Fresno, V. 1.751
Freund, C. 3.518
Freund, N. 1.595, 3.346
Freund, T. 3.107
Freund, T.F. 267, 1.752, 1.787, 2.551, 3.393, 3.607
Frey, U. 2.916
Freytag, V. 1.700
Friard, O. 913
Friauf, E. 2.122
Frick, A. 18, 449, 455, 3.427
Fricker, D. 290, 1.933
Fried, I. 174
Friedel, P. 761
Friedl, M. 443
Friedman, A. 779
Friedman, J. 1.167, 1.168
Friedman, J.M. 1.076
Friedrich, P. 1.787
Friedrich, R. 12, 406, 3.392
Friedrich, R.W. 3.240, 3.254
Friedrichs, D. 812
Fries, P. 2.134
Frings, S. 3.241
Friocourt, F. 1.310
Frischholz, C. 1.087, 3.889
Frischknecht, R. 748, 1.163, 2.510, 2.856, 3.041, 3.046
Frisoni, G. 1.970, 1.973, 2.198
Friston, K. 683
Fritschy, J. 49, 3.489
Fritschy, J.M. 386, 1.252, 1.890, 3.528, 3.664, 3.683
Fritz, A. 1.759
Fritz, M. 1.155, 1.765
Fritz, N. 1.773
Frizzati, A. 1.539, 1.726
Froehlich, M. 1.341
Frontini, A. 557
Fronzaroli-Molinieres, L. 3.566
Frooninckx, L. 3.552
Froriep, U. 1.185
Fructuoso, M. 556
Früh, S. 1.890
Frühholz, S. 2.200
Frussa-Filho, R. 2.713
Fu, Y. 1.843
Fucà, E. 2.601, 2.602
Fuchs, A. 4.000
Fuchs, C. 466
Fuchs, H. 2.597
Fudge, J. 1.760
Fuentealba, J.A. 3.389
Fuentes, S. 1.767
Fuenzalida, M. 771, 1.055, 3.047
Fuerer, C. 3.650
Fuerst, P. 2.365
Fuertig, R. 1.665, 2.678
Fuggetta, G. 3.206
Fuhrmann, F. 812
Fuhrmann, M. 651, 812, 1.914
Fujihara, K. 3.205
Fujita, T. 518
Fukai, T. 1.898
Fukami, F. 3.184
Fukazawa, Y. 2.768
Fukozawa, Y. 1.357
Fukuda, A. 210
Fukuda, M. 2.828, 4.005
Fukui, Y. 872, 2.298
Fukumoto, K. 2.717
Fulda, S. 1.808
Fülöp, A. 448
Fülöp, B. 1.009
Fülöp, L. 1.958
Fumagalli, F. 299, 981, 2.067, 2.069, 2.712, 2.722
Fumagalli, G. 400, 1.512
Fumagalli, S. 3.131
Funakami, Y. 1.058, 1.059, 3.574
Funayama, K. 506
Funk, R. 2.283
Funk, R.H. 1.628
Funke, K. 495
Furini, C. 2.218
Furlan, R. 1.568, 2.018
Furlong, T. 2.882
Fursenko, D. 2.261
Fürst, C. 756
Furukawa, T. 210
Furukawa, Y. 2.924
Fusar Poli, E. 2.001
Fusco, A. 2.595
Fusco, M. 3.132
Fusco, S. 3.947

Fuso, A. 465
Fuszara, E. 785
Fuxe, K. 676, 1.164, 3.195, 3.377, 3.396, 3.397, 3.783
Fuzik, J. 1.329
Gaál, A. 430
Gaali, S. 2.693
Gabaglio, M. 2.723, 2.731
Gabbiani, F.G. 2.758
Gabius, H.J. 1.308
Gabriel, C. 1.525, 3.884
Gabriel, R. 1.009, 1.320, 1.635, 3.878, 1.623
Gabrielli, L. 337
Gabrielli, M. 224, 2.535
Gabriels, S. 3.706
Gach, K. 1.589
Gachet, C. 2.050
Gacquer, D. 2.967
Gacsályi, I. 430
Gadea, V. 3.540
Gadek-Michalska, A. 1.672, 2.976
Gaetani, S. 554, 2.715
Gage, F.H. 1.175
Gagliano, H. 1.767
Gagliardi, F. 420, 1.261
Gagliardi, S. 854, 2.608
Gagliardo, C. 978, 980
Gago, B. 3.396, 3.783
Gahr, M. 2.121
Gai, M. 678
Gai, W.P. 819
Gaiarsa, J.L. 1.827, 3.523, 3.581
Gail, A. 3.808, 3.812
Gaillard, A. 710, 711, 712, 1.976, 1.977, 2.482
Gaillard, P. 3.246
Gailus-Durner, V. 2.597
Gainetdinov, R. 728, 2.807
Gainetdinov, R.R. 2.463, 724
Gainutdinov, K.H. 2.217
Gaisler-Salomon, I. 708
Gajdo, M. 1.053
Gajewska-Wozniak, O. 2.781
Gajovic, S. 885, 3.122, 3.134
Gajtkó, A. 3.279
Gal, A. 287
Gal, B. 2.558, 2.559, 2.560
Gál, L. 2.302, 2.782
Galambos, R. 3.614
Galán-Arriero, I. 2.658
Galante, C. 1.296
Galante, D. 1.949
Galashan, D. 3.902
Galashan, F.O. 2.747
Galbiati, R. 847
Galbiati, V. 938
Galbusera, A. 475
Galduróz, J.C.F. 2.735
Galenkamp, K.M.O. 1.357
Galik, J. 2.651
Galimberti, M. 1.295
Galinanes, G. 3.859, 620, 1.779
Galinato, M. 2.242
Galizia, C.G. 3.245
Galizzi, G. 1.532, 2.607
Galkowski, V. 695
Gall, D. 2.517
Gallagher, P. 575
Gallese, V. 432, 482
Galletta, P. 913
Galletti, C. 2.753, 2.755, 2.757, 3.810
Galli, C. 856
Galli, C.L. 239, 938
Galli, R. 408, 420, 1.259, 1.261, 2.650
Galli, T. 183
Galliano, E. 1.921
Galliciotti, G. 1.825
Gallo, J.M. 1.258
Gallo, M. 192
Gallopin, T. 1.451, 2.816
Galmozzi, A. 938
Galofré, M. 347
Gálosi, R. 646
Galperina, E. 3.836
Galve-Roperh, I. 945
Gamanut, A. 487
Gambarana, C. 3.406
Gambarotta, G. 299, 913, 2.787
Gamberini, M. 2.737, 2.755, 3.810
Gambino, F. 3.464
Gamero-Carrasco, C. 2.583
Gampierakis, I.A. 2.188
Gamundí, A. 2.158
Gandía, L. 3.308
Gandini, M.A. 1.879
Gandolfi, D. 534, 3.850
Ganella, D.E. 3.366
Gangarossa, G. 974, 1.042
Gangoso, E. 414
Gantois, I. 2.860
Gantz, D. 1.942
Gao, C. 1.412
Gao, P. 1.302
Gao, Q. 2.271, 3.965
Gao, X. 801
Gao, Z. 3.299
Gapys, B. 336
Garab, S. 2.170
Garaschuk, O. 1.217
Garau, G. 3.027
Garay, P. 1.770
Garbarini, F. 486
Garbati, N. 3.571
Garbugino, L. 3.729
Garcera, A. 841, 3.737
García Esparza, A. 2.033
García Rubio, M. 571
Garcia Yague, J. 1.649
García, A.G. 853
García, A.G. 757
García, F. 1.694
Garcia, F.A.O. 1.335
García, G. 3.321
Garcia, L. 1.150
Garcia, N. 254, 1.369, 1.372, 1.373
Garcia, R.C.T. 3.044
Garcia, S. 1.734
García, Y. 2.950
Garcia-Alloza, M. 2.583
García-Amado, M. 1.030
García-Avilés, A. 2.834, 3.540
Garcia-Bennett, A.E. 2.656
García-Bernal, F. 194
García-Blanco, A. 3.704
Garcia-Cairasco, N. 1.066
Garcia-Cazorla, A. 870, 2.489, 3.693
Garcia-Esparcia, P. 834, 2.568
Garcia-Estrada, J. 886
Garcia-Lazaro, J. 2.113
Garcia-Lopez, M.J. 407
Garcia-Lopez, S. 3.700
Garcia-Morales, V. 739
García-Negredo, G. 1.357
García-Robles, M. 2.965
García-Sancho, C. 2.203
García-Sanz, P. 3.694
Garcia-Segura, L.M. 550, 2.017, 2.047, 2.177
Garcia-Tarraga, P. 190
Garcia-Verdugo, J.M. 190
Garçon, G. 3.745
Gard, P. 2.258
Gard, P.R. 2.257
Gardella, E. 341, 644
Garden, D.L.F. 1.936
Gardi, J. 1.052
Gardoni, F.71, 238, 742, 1.447, 1.979, 2.503, 2.512, 3.584, 3.660, 3.666
Garel, S. 3.448
Gargiuli, C. 2.221
Garipelli, G. 3.155
Garlanda, C. 3.014
Garmy, N. 1.946
Garnelo, M. 2.426
Garofalo, S. 411
Garon, M. 689
Garrick, P.S. 3.419
Garrido Alcazar, J. 542
Garrido, J. 531, 538
Garriodo, M. 759
Garzetti, L. 1.568
Garzotto, D. 186
Gascuel, J. 555, 564
Gasimov, E. 369
Gaspar, P. 1.316, 121, 2.368, 2.458
Gasparini, L. 325
Gassen, N.C. 551, 598, 2.693
Gasser, J. 1.728
Gassiot, F. 2.288
Gassmann, M. 1.727, 1.846
Gasston, D. 683
Gastambide, F. 441
Gaszner, B. 1.668, 1.984
Gati, G. 1.289
Gatome, W. 1.122
Gatta, E. 243, 2.034, 3.884
Gatti, E. 1.375
Gatti, S. 3.214
Gatto, G. 2.427
Gauchel, A. 812
Gaudout, D. 600
Gaunt, J. 2.865
Gautam, S.G. 2.909
Gauthereau, I. 3.979
Gautier, A. 3.277
Gavello, D. 1.361, 1.390, 3.642
Gavioli, E. 1.981, 2.684
Gavioli, E.c. 3.771
Gavrilov, V. 1.729
Gawali, V. 1.867
Gawel, K. 1.730, 2.081
Gawryszewski, L. 1.088
Gaydukov, A. 3.545
Gazarini, L. 1.143
Gazdzinski, S. 3.944
Gazea, M. 2.191
Gazerani, P. 510
Gazit, N. 3.593
Gazzin, S. 948, 3.168
Gazzola, V. 530
Gean, P.W. 3.724
Gebicke-Haerter, P. 3.130
Gecz, J. 3.227
Geddes, S. 2.511
Gedrova, S. 1.818
Geenen, B. 1.668
Geeraerts, E. 950
Gehring, E. 3.262
Geiger, J. 3.632
Geisel, T. 3.602
Geisler, S. 758
Gelati, M. 2.620
Gelegen, C. 2.196
Gelfi, C. 3.739
Gellén, B. 1.596
Gellért, L. 2.266
Geloso, M. 1.530
Gemma, M. 1.420
Gemmi, M. 401, 3.975
Genazzani, A. 3.219
Genazzani, A.A. 2.512, 2.591, 3.672
Genc, K. 923
Genc, S. 923, 924, 925

Gendosz, D. 3.148
Genevini, P. 2.621
Genius, J. 443
Gennarelli, M. 3.686
Gennarini, G. 1.731, 3.499
Gennazzani, A.A. 742, 2.503
Genoud, C. 3.254
Genovese, F. 3.241
Genovesi, S. 456
Genovesio, A. 1.221, 1.224, 1.722, 2.851
Gentet, L. 1.186
Gentile, A. 949, 2.009
Gentilucci, M. 1.096
Genty, J. 1.764, 2.801
Genzel, L. 1.130
Geoffroy, F. 1.440
Georgakopoulou, I. 931
Georganta, E. 2.277
George, C. 1.940
George, J. 264
George-Jones, N.A. 3.298
Georgiou, C. 357, 1.036
Georgiou, T. 921
Geppetti, P. 1.446
Gerace, C. 358, 1.523
Gerace, E. 2.044, 2.068
Gerardin, A. 1.703
Gerbella, M. 3.805
Gerber, G. 3.280
Gerber, U. 1.356, 3.586
Gerdin, A. 2.111
Gerding, W.M. 964
Gerdjikov, T. 1.045
Gerdjikov, T.V. 2.885
Gerecke, E. 1.891
Gergelyfi, M. 572
Geribaldi, N. 194
Gerlach, D. 2.280
Gerlach, J. 195, 1.806
Gerónimo-Olvera, C. 893
Gerosa, L. 474
Gerrard, P. 1.587
Gerrow, K. 244
Gertler, A. 1.063, 3.329
Gertler, F. 2.443
Gertz, K. 884
Gervasi, N. 1.862, 725
Gesper, A. 3.984
Gessner, G. 1.364
Geuna, S. 516, 913, 2.282, 2.291
Geurts, A. 1.754
Geurts, N. 2.666
Geva, R. 1.613
Geva-Sagiv, M. 638, 640
Gewaltig, M.O. 3.995
Gey, M. 914
Ghaffarzadagan, R. 369
Ghandi, C. 3.328
Ghazaryan, A. 3.135
Ghaziuddin, M. 860, 3.212
Ghelani, T. 2.523
Ghezzi, C. 361, 816, 3.708
Ghezzi, D. 1.450
Ghibaudi, M. 1.522
Ghiglieri, V. 404, 1.982, 2.580, 3.716
Ghilardi, A. 364
Ghirardini, E. 319
Ghori, A. 884
Ghosh, A. 500, 1.037, 1.824, 2.145
Ghosh, S. 774
Giacobini, P. 1.228, 2.174, 2.472, 3.251
Giacomini, A. 873
Giallongo, T. 358, 1.523
Giammarco, M.L. 395
Giampà, C. 404
Giannakopoulou, A. 185
Giannandrea, M. 3.214
Giannelli, S. 713, 2.463, 2.465
Giannelli, S.G. 186, 2.963
Giannola, L.I. 3.795
Giannopoulou, E. 1.594
Giannotti, G. 981, 2.067, 2.069, 2.712, 2.722
Gianserra, L. 2.915
Giardini, G. 1.079
Giardino, L. 874, 2.569
Giarrocco, F. 2.168
Giatti, S. 2.017, 2.047
Giaume, C. 2.224, 2.764, 3.070, 3.682
Gibbs, S. 1.338
Giber, K. 2.838
Gibson, C. 1.493, 1.509
Gibson, C.L. 3.133
Giegling, I. 443
Gielen, M. 2.521
Giering, E. 2.145
Giertuga, K. 1.089
Giese, K. 137
Giese, K.P. 133, 795
Giese, M.A. 3.197
Gieseler, A. 1.805
Giesert, F. 825, 2.437
Gigante, G. 808
Gigg, J. 335
Gigliucci, V. 3.546
Gil, A.B. 2.846
Gil, S. 3.955
Gilaie-Dotan, S. 2.739
Gilard, V. 385
Gilardino, A. 3.988
Gilbride, C. 2.491
Giles, B.P. 1.517
Gilissen, S. 247
Gill, N.E. 1.441
Gillberg, C. 478
Gillies, M. 3.933
Gilmour, G. 3.412
Gilson, M. 1.898
Gimenez Badia, S. 3.158
Gimenez, R. 1.693
Gimenez-Garzó, C. 1.535
Gimeno-Bayon, J. 2.046
Gimsa, J. 351
Gimsa, U. 351
Ginde, V. 1.017
Gindrat, A. 1.037, 3.152
Gindrat, A.D. 2.169, 3.151
Ginet, V. 878
Ginger, M. 455, 3.427
Giniatullin, R. 294, 512, 2.763, 2.767, 2.983
Ginosar, G. 641
Ginzburg, M. 3.291
Giocomo, L. 2.404
Gioiosa, L. 563, 1.761
Giompres, P. 232, 233, 3.714
Giordano, A. 557
Giorgetti, E. 847, 848, 2.789, 3.726
Giorgetti, V. 2.752, 3.805
Giorgi, C. 775, 3.662
Giorgini, F. 344, 1.465
Giorgio, M. 1.661
Giovannini, M.G. 889
Giovannone, P. 3.817
Giovedì, S. 2.436, 2.943
Giovedi`, S. 2.533
Giraldo, A.I. 2.026
Giraldo, J. 2.900
Giralt, A. 1.039
Girard, B. 588
Girard, P. 3.341
Girard, S. 200
Girard, S.D. 201
Girardeau, P. 2.880
Girardi, E. 2.053
Girardi, S. 1.031
Girault, J. 974, 2.323
Girault, J.A. 725, 1.039, 3.071, 3.079, 3.432, 3.584
Girelli, L. 494
Giret, N. 1.000, 1.010, 2.895
Giribaldi, F. 850, 3.731
Girolamo, F. 2.010
Gispert, S. 3.078
Gisquet-Verrier, P. 2.862
Gitler, D. 2.536
Gittis, A. 1.271
Giudetti, G. 916
Giuffrida, A. 442
Giugliano, M.287, 1.186, 1.924, 1.931, 2.307, 2.906
Giuliani, A. 874
Giuliani, E. 3.850
Giuliano, T. 1.915
Giurisato, M. 1.606
Giuseppe, G. 1.396
Giusepponi, M.E. 554, 2.715
Giussani, P. 2.535
Giustetto, M. 783, 868, 3.012, 3.216, 3.224
Giusti, P. 1.558
Giustizieri, M. 3.058
Gjedde, A. 726, 1.485, 2.476
Gjørlund, M. 2.973
Gkadris, T. 1.531
Glac, W. 3.225, 3.324
Gladkov, A. 1.732, 1.901
Gladman, S. 3.160
Gladwin, M.T. 1.994
Glasauer, S. 2.756, 2.827
Glasgow, S.D. 1.076
Glasnov, T.N. 3.672
Glass, R. 406
Glatzel, M. 1.825, 3.655
Glauser, L. 343
Glazewski, S. 1.398
Glazova, N. 2.637
Glenk, L.M. 1.054
Glennon, J. 2.970
Glennon, J.C. 370, 1.668
Gligorijevic, I. 2.306
Gliksberg, M. 1.197
Globa, A. 1.213
Gloeckner, C.J. 825
Glombik, K. 1.575, 2.060, 2.670, 3.777, 3.885
Glösmann, M. 759, 1.322
Gloveli, T. 2.522
Glowacka, M. 634
Gnägi, B. 1.998
Gnaiger, E. 941
Gnatkovsky, V. 379
Gnavi, S. 516, 2.282
Go, M. 1.780
Go, M.A. 1.777
Goaillard, J.M. 1.926
Göbbels, S. 212
Gobbo, M. 1.410
Gobira, P.H. 234
Goda, Y. 272, 3.461
Godbout, S. 488
Gödecke, N. 3.521
Godefroy, O. 2.157
Godeheu, G. 975
Godek, M. 2.006
Godin, J. 211, 2.969
Godinot, F. 1.734
Godler, D. 3.718
Goebbels, S. 1.817
Goebel, K. 2.016, 3.816
Goebel, R. 1.709
Goedecke, N. 2.492
Goeden, N. 118
Goedert, M. 325
Goehrs, R. 1.950
Goenawan, H. 2.287
Goergen, K. 3.907

Goethe, R. 2.228
Goetze, B. 2.146
Goffinet, A. 1.313
Gogos, J.A. 445
Gohara, K. 283, 2.550
Gökçek-Saraç, C. 1.739
Golabchi, A. 2.429, 2.911
Golan, H. 875
Gold, R.G. 2.019
Golda, S. 653, 3.776
Goldberg, Y. 1.892
Goldfarb, M. 536
Golding, B. 181
Golding, M. 2.395
Goldman, J.E. 1.303
Goldschmidt, J. 2.903
Goldway, N. 1.716
Golembiowska, K. 3.769
Golibrodo, V. 2.859
Golicz, M. 3.135
Golini, E. 3.729
Golis, B. 1.672
Gollisch, T. 28
Gölöncsér, F. 3.086
Golshani, P. 86
Goltsov, A. 339
Göltz, C. 3.154
Golumbic, Y.N. 708
Golzar, A. 2.841
Gombalova, Z. 1.818
Gombköto, P. 1.046
Gomes Da Silva, C. 211
Gomes da Silva, S. 608
Gomes, P.B. 1.335
Gomes, R.A. 590
Gomez Castro, F. 247
Gomez Climent, M. 1.733
Gomez, A. 1.974
Gómez, A. 2.031, 2.182, 3.505
Gomez, J. 1.258
Gomez, N. 3.501
Gómez-Domínguez, D. 2.560
Gómez-Fernández, S. 2.663
Gómez-Giménez, B. 609
Gomez-Gonzalo, M. 220
Gómez-Nicola, D. 3.730
Gómez-Roldán, M.C. 953
Gómez-Santacana, X. 2.900
Gomis-Perez, C. 3.572
Goncalves, A.N.A. 1.466
Gonçalves, A.S. 1.681
Gonçalves, F. 3.594
Gonçalves, F.M.Q. 3.695
Gonçalves, J. 86
Goncalves, N. 3.395, 3.019, 3.065
Gonçalves-Rosa, N. 3.316
Goncharova, K. 3.344, 3.875
Goncharova, N. 2.893
Gong, K. 1.412
Goni-Oliver, P. 2.428
Gontero, F. 3.900
Gontier, G. 1.940
Gonzales, E. 3.153
Gonzalez i Llinares, B. 3.427
González Sánchez, A. 412
González, A. 176, 1.352, 2.989, 3.823
Gonzalez, B. 2.635
Gonzalez, C. 1.156, 3.364, 3.387, 2.965
González, E.K. 571
Gonzalez, M. 2.105, 2.441, 3.505
Gonzalez, M.P. 723, 971
González, P. 400, 1.512
Gonzalez, S. 2.284
Gonzalez-Cuevas, G. 2.070
González-Forero, D. 739
Gonzalez-Fuentes, J. 1.693
González-Pardo, H. 2.235
Gonzalez-Perez, F. 915, 3.439
Gonzalez-Rosa, J. 1.177
González-Salinas, S. 2.861
Gonzalez-Sarmiento, R. 1.651
Gonzalez-Usano, A. 582, 1.535
Gonzalo Orden, J.M. 898
Gonzalo, S. 594
Gonzalo-Gobernado, R. 2.600
Goo, Y. 1.624
Goodale, M.A. 1.614
Goodchild, A.K. 988
Goodhardt, M. 709
Goodman, L. 1.893
Goold, C. 2.295
Goosens, K.A. 3.019
Gopinadhan, S. 3.952
Gorbati, M. 799, 800, 802
Gordleeva, S. 814
Gordon, J. 3.486
Gordon, S. 2.585
Görgen, K. 577
Gorgol, J. 1.710, 3.912, 3.913
Gorham, L. 2.762
Gori, M. 862, 999, 1.614, 2.401
Gori, S. 2.088, 3.897
Gorio, A. 358, 1.513, 1.523
Goriounova, N. 3.233
Gorlewicz, A. 1.483
Gornati, S. 1.428
Gorokhovatsky, A. 909
Gorostiza, P. 10, 2.900, 3.558
Gorup, D. 885, 3.122, 3.134
Gory-Fauré, S. 869
Gosh, H. 1.252
Goshen, I. 2.352
Gosi, E. 2.584
Gosseries, O. 286, 2.920
Gosso, S. 1.361
Gothilf, Y. 2.173
Gotoh, A. 3.176
Gotoh, M. 2.434, 3.685
Gotti, C. 1.855, 1.857, 1.863, 2.729
Gotti, S. 562
Gottlieb, M. 3.113, 3.117
Gottmann, K. 251
Goudarzi, S. 2.011
Goudet, C. 2.900
Gouix, E. 3.114
Gouliaev, A.H. 745
Gouras, G.K. 1.960, 3.659
Gourmaud, S. 1.965
Gouzi, J.Y. 2.277
Goyenvalle, A. 1.150
Goz, D. 23
Goz, R. 2.904
Gozdziewicz, O. 989
Gozzi, A. 475, 2.239
Graab, U. 1.808
Grabosch, A. 1.291
Grabowiecka, A. 566
Grabowska, M. 634, 876
Grabrucker, A. 3.232
Grabrucker, A.M. 3.170
Grabrucker, S. 3.232
Gracia-Marques, J. 1.294
Graciarena, M. 1.826
Graf, A. 877, 1.550, 2.818
Graf, W. 3.295
Graf, Y. 1.754
Graglia, D. 2.021
Grams, S. 1.087
Gramsbergen, J.B. 3.696
Grana, D. 2.608
Granado, N. 3.784
Granados-Duran, P. 954, 1.299
Granado-Serrano, A.B. 2.626
Granatelli, V. 989
Granato, A. 1.606, 2.447
Grandes, P. 230
Grandi, L. 490, 1.762
Grangeray, A. 1.381
Granon, S. 2.883
Granseth, B. 1.025
Grantyn, R. 1.457, 1.473
Grasselli, G. 543
Grassi, C. 3.644, 3.947
Grassi, D. 2.493
Grassi, F. 2.008
Grassi-Zucconi, G. 2.058
Gratacòs-Batlle, E. 740, 741
Grattan, D. 3.303
Gratuze, M. 1.459
Graus, F. 3.557
Gravanis, A. 355, 1.997, 2.092
Graw, J. 443
Gray, A.R. 203
Gray, C.M. 2.226
Gray, F. 1.965
Gray, J.M. 3.328
Gray, L. 1.474
Gray, M. 1.666
Graziani, D. 3.977
Grazioso, G. 1.855
Grealish, S. 714
Greco, B. 279, 2.372
Greco, M. 1.641
Greco, R. 361, 3.708, 3.817
Green, A. 3.933
Greenhill, S. 1.398
Greffrath, W. 2.508
Greggio, E. 341
Gregori Grgîc, R. 1.083
Greifzu, F. 509, 2.146
Grelot, L. 2.777
Grembecka, B. 3.225, 3.324
Gremel, C.M. 2.371
Gremmelspacher, T. 1.806
Grenier, J. 2.013
Grenningloh, G. 296, 647
Grewe, B. 1.786
Gribaudo, S. 1.460
Gricman, L. 2.486
Gridchyn, I. 631
Grieb, P. 2.006
Grieve, K.L. 2.141, 2.202, 3.264
Griffante, C. 1.587
Griffioen, G. 317
Griffith, G. 1.150
Griffiths, N. 3.278
Grifoni, S. 856
Grigoletto, J. 3.092
Grigonis, R. 1.927
Grigoriadis, N. 921
Grigoryan, G. 4.003
Griguoli, M. 1.347
Grilli, M. 947, 1.578, 1.951
Grillner, S. 2.308, 2.410
Grillo, B. 3.102
Grillo, F.W. 645
Grillo-Bosch, D. 3.979
Grilo, N. 2.262
Grimm, C. 1.615
Grimm, M. 393
Grimsen, C. 3.192
Grinager, J. 827
Grinberg, L.T. 3.288
Grindatto, A. 192, 2.951
Grinevich, V. 1.194, 1.196
Grishin, E. 519
Grishina, O. 212
Griskova-Bulanova, I. 431
Grissom, N. 2.835
Gritti, A. 1.569
Gritti, L. 3.227

Gritti, M. 421
Grivas, I. 185
Groc, L. 268, 2.510
Grochowska, K. 1.952
Groemer, T.W. 258
Grohovaz, F. 2.018
Grolla, A.A. 2.591, 3.672
Groma, M. 2.086
Grömer, T. 3.422
Gromova, K.V. 744
Grøndahl, L. 2.785
Grondona, J. 1.299
Grondona, J.M. 953, 954
Groneberg, A. 147
Groppi, V. 1.770
Gros, A. 1.734
Grosjean, N. 1.483
Grosmaitre, X. 3.250
Groß, A. 1.809
Gross, C. 466, 3.224
Gross, C.T. 868
Gross, G. 625, 649
Gross, M. 2.101
Grosse Holtforth, M. 3.781
Grosse, J. 434, 1.670, 2.800, 2.802
Grossi, C. 1.448
Grossi, G. 243
Grotegerd, D. 2.698
Grotegerd, M.R. 3.768
Grothe, B. 2.242
Grothe, C. 2.291
Grouzmann, E. 560
Gruart, A. 611, 1.173, 1.733, 3.661
Grubb, M. 1.921
Gruenbacher, G. 3.508
Gruendemann, J. 1.928
Grueter, B.A. 2.295
Gründemann, J. 3.392
Grundschober, C. 1.103
Grundwald, N. 2.803
Grunnet, M. 1.874, 3.573
Grusch, M. 2.901, 2.907
Grüter, R. 1.166
Grüter, T. 444
Grzelka, K. 727
Gschwind, L. 1.700
Gschwind, T. 386, 3.683
Gstir, R. 3.942
Gu, Y.N. 1.627
Guadagno, N.A. 1.632
Guaraldo, M. 824
Guarino, G. 2.285
Guarneri, P. 1.532, 2.607
Guarnieri, F. 476, 842
Guarnieri, F.C. 1.382
Guba, K. 3.196
Gubellini, P. 1.342
Gudi, V. 2.028
Guedes, J. 2.574
Guedes, R. 1.533
Guendelman, M. 1.608
Guérineau, N.C. 1.871
Guerini, F. 457
Guérout, N. 2.466
Guerra, C. 1.476
Guerra, H. 1.142
Guerra, M.J. 1.371
Guerra, V. 1.082
Guerra-Araiza, C.H. 3.959
Guerra-Gomes, S. 306
Guerreiro Diniz, C. 303
Guerreiro, R.L. 3.656
Guerreiro, S. 3.075
Guerrero Toro, C. 512
Guerri, C. 2.846
Guerrini, R. 1.981, 2.684, 3.771
Gueta, R. 108
Guger, C. 3.159
Guggenhuber, S. 228
Guida, C. 1.731
Guida, N. 767, 883, 1.553, 3.139
Guidi, S. 873
Guido, R. 3.917
Guidolin, D. 676
Guidotti, G. 1.580, 3.741
Guiducci, S. 334
Guillazo-Blanch, G. 589, 813, 3.939
Guillem, A. 1.343
Guillem, A.M. 2.978
Guillemot, F. 1.799, 3.506
Guillemot, J.P. 1.015
Guillen, C. 3.246
Guillermier, M. 933
Guillon, G. 1.062
Guillot de Suduiraut, I. 1.067
Guimarães, F. 1.593
Guimaraes, F.S. 3.382
Guimaraes, I.M. 1.466
Guimond, D. 1.827
Guinovart, J.J. 952
Guipponi, O. 484, 3.815
Guirado, R. 793, 3.767
Guiretti, D. 1.461
Guitart-Masip, M. 2.824
Guitton, M. 1.100
Gulaeva, N.V. 3.028
Gulbins, E. 2.719
Gulevich, R. 1.810, 2.893
Gul-Hinc, S. 336, 2.056
Gulya, K. 1.542
Gulyaeva, N. 897, 909, 1.060, 1.477, 1.954
Gulyaeva, N.V. 3.021, 3.029
Gulyás, A.I. 267, 1.787, 2.551, 3.607
Gulyássy, P. 387, 1.384, 1.596, 3.657
Gumina, V. 3.739
Gundelfinger, E.D. 748, 791, 1.368, 3.041, 3.527
Gundelfinger, E.G. 2.530
Gundersen, V. 2.984
Gundlach, A.L. 559, 566, 2.082, 2.292, 3.801
Gunhaga, L. 3.512
Gunnersen, J. 1.828, 2.854
Gupta, D. 2.681
Gurari, N. 2.151
Gurbuz, M. 199
Gurkan, C.K. 3.330
Gurskaya, O. 3.020, 3.021
Guseva, A.A. 1.644
Gusti, A. 2.054
Gut, M. 1.090
Gutfreund, Y. 2.889
Gutierres, J. 2.094
Gutierrez Herrera, C. 1.075, 1.076
Gutierrez-Hernández, M. 3.130
Gutnick, M. 1.788
Gutsche, K. 958
Gutzmann, A. 3.535
Guy, J. 3.453
Guyon, A. 561
Guyon, N. 529, 2.230
Guzman Castro, R. 3.577
Guzmán, M. 945
Guzulaitis, R. 1.927
Guzzetti, F. 742
Gwizdek.C, G.C. 481, 1.377
Gyarmati, J. 1.630
Gyertyán, I. 448
Gygax, D. 1.417
Gyorffy, B. 387, 1.384, 1.596, 3.657
Gysling, K. 723, 971, 3.389, 3.790
Gzielo-Jurek, K. 1.484, 1.488, 1.489, 3.944
Haack, F. 509
Haack, J. 839
Haag, J. 3.807
Haag, J.H. 2.758
Haas, C. 388, 2.968
Haas, C.A. 195, 391, 1.806, 2.440, 2.522
Haas, O. 2.242
Haase, A. 3.247
Haass, C. 327
Haastert-Talini, K. 2.291
Haberzettl, R. 2.702
Habib, S. 1.524
Habibey, R. 2.429, 2.911
Hackel, D. 515
Hackett, A. 3.227
Haddad, H. 3.896
Haddjeri, N. 2.099
Háden, K. 3.657
Hádinger, N. 1.429
Hadjidimitrakis, K. 2.753, 2.757
Hadjipapas, A. 1.794
Hadzibegovic, S. 2.263
Haelewyn, B. 1.494
Haeussinger, F.B. 3.197
Haffen, E. 2.725
Hafidi, A. 1.992
Hafizi, S. 2.011
Hafner, A.S. 735, 737
Hafsteinsson, S. 928
Haga, S. 2.555
Hagena, H. 3.595
Häggmark, A. 182
Haghparast, A. 623, 1.742
Hagihara, K. 507
Hagiwara, T. 3.176
Hahn, A. 415
Hahn, C. 1.778
Hahnloser, R. 27
Hahnloser, R.H.R. 1.000, 2.895, 2.898
Haider, T. 1.525
Hain, E. 1.983
Hainer, C. 1.754
Hájos, N. 259, 267, 3.607, 3.628
Halbedl, S. 477, 3.232
Halberstadt, A.L. 3.185
Halder, R. 1.434
Halfon, O. 1.582, 2.869
Haller, C.S. 3.146
Haller, J. 1.752, 3.393
Halliday, D. 1.154, 2.912
Halliday, D.M.H. 3.989
Hallström, B.M. 182
Hama, H. 1.781
HamaAmeen, H. 680
Hamad, M. 303
Hamad, M.I.K. 2.453, 3.520
Hamada, N. 2.964
Hamade, E. 1.977
Haman, M. 3.190
Hamann, M. 231
Hamel, C.P. 1.620
Hamilton, C. 575
Hammel, D. 2.070
Hamon, M. 1.207, 2.764, 3.277
Hámornik, G. 2.584
Han, A.R. 946
Han, J. 2.205
Han, L. 1.603
Han, M. 1.268
Han, P. 2.876
Han, P.L. 3.127
Han, S. 1.411
Hanakawa, T. 1.653
Hanaoka, K. 3.038
Hanchate, N.K. 2.174
Handjaras, G. 1.691
Hanesch, U. 2.801
Hanganu-Opatz, I. 805
Hanganu-Opatz, I.L. 205, 445, 1.495
Hanini, M. 3.072
Hannan, A.J. 1.474

Hannan, S. 244
Hannay, A. 3.421
Hanon, E. 3.961
Hansel, C. 543
Hansen, E.C.A. 1.422
Hansen, K. 1.405
Hansen, M. 1.430
Hansen, N. 3.596
Hansson, E. 3.547
Hanuschkin, A. 1.846
Hao, W. 1.445
Happel, M.F.K. 2.856
Happel, P. 3.984
Haque, M. 835
Hara, D. 1.996
Hara, Y. 2.172, 3.858
Harada, H. 2.528
Haraguchi, S. 1.664
Haramati, S. 3.955
Harari, E. 489, 2.240
Harb, K. 1.288, 2.960
Harb, M.R. 587
Harbich, D. 1.674
Harcha, P.A. 2.629
Hardingham, G.E. 1.344
Hardingham, N. 458
Hardouin, J. 2.635
Hardt, O. 1.823, 3.373
Hardy, J. 3.656
Hardy, P. 2.989
Hargreaves, A. 2.051
Harkany, T. 1.289, 1.311, 1.329
Harmony, T. 1.694, 1.835
Haroush, K. 1.101
Harper, D. 2.264
Harrewijn, A. 1.102
Harrington, L. 1.763
Harris, K. 2.405
Harris, K.D. 501, 2.142, 2.299, 3.601
Harris, W. 2.051
Harrison, J. 579
Harrison, N. 2.709
Harsan, L.A. 2.103
Hartell, N. 2.479
Hartmann, A.M. 443
Hartmann, J. 2.693
Hartung, H. 205, 445
Hartung, H.P. 398, 2.024
Hartveit, E. 1.618
Harvey, A.R. 797
Harvey, R.J. 2.521
Hasan, M. 1.485, 1.386
Hasan, M.T. 1.140
Hasche, A. 1.807
Hasegawa, E. 2.811, 3.383
Hasel, P. 1.344
Hashikawa, N. 2.098, 2.102
Hashikawa-Hobara, N. 2.098, 2.102
Hashimoto, H. 1.009
Hashioka, S. 1.441
Hasler, G. 2.475
Haslinger, D. 1.808
Haslinger, R. 624
Hassan, B.A. 2.892
Hassan, K. 1.666, 3.328
Hassan, Z. 1.735
Hasselblatt, M. 409
Hastings, M. 1.412, 3.610
Hasunuma, I. 1.664
Hattori, N. 3.082
Hattori, S. 2.231
Haubrich, J. 3.950
Hauer, D. 2.215
Hauf, M. 2.475
Haugland, K.G. 1.127
Hausch, F. 2.693
Hauschild, M. 3.391
Hausrat, T.J. 744
Häußinger, F. 1.087, 3.889
Häussler, U. 391, 1.806, 2.522
Hautbergue, G. 2.623
Havas, D. 1.999
Havekes, R. 2.265
Havela, R. 1.540
Havlickova, T. 2.071, 2.072
Hawkes, D. 2.292
Hawkes, R. 693
Hay, A. 3.620
Hay, A.H. 3.798
Hayashi, H. 1.656
Hayashi, Y. 743
Hayashi, Y.H. 1.912
Hayashida, M. 1.370
Haydon, P.G. 304
Hayes, J.A. 90
Haynes, J. 1.275
Haynes, J.D. 577, 3.907
Haynes, P.A. 988
Healy, L.M. 2.020
Healy, S. 1.534
Hebda, D.M. 358
Heber, S. 659
Hebert, M. 1.736
Heck, A. 1.700
Heck, D.H. 3.298
Heck, N. 790, 2.063, 3.785
Hede, S.E. 745
Hedegaard, A. 2.785
Hedrich, U. 1.869
Heeren, A. 1.078
Heerschap, A. 649
Heffer, M. 1.053, 1.932
Hefter, D. 1.953
Hefting, L. 1.362
Hegedus, K. 3.276, 3.279
Hegerl, U. 443, 2.198
Hegoburu, C. 1.103, 3.374
Hegyi, Z. 295, 1.318, 3.276, 3.279
Heib, D.P.J. 1.707
Heidemann, M. 3.848, 3.857
Heidler, J. 941
Heigele, S. 1.841
Heijnen, C.J. 2.464
Heikkinen, T. 1.962, 2.304
Heilbronn, R. 3.369
Heilig, M. 972
Heimrich, B. 2.440, 3.638, 3.643
Hein, K. 2.015
Heine, M. 748, 756, 791, 1.244, 2.510, 3.046
Heinemann, S.H. 1.364
Heinemann, U. 779, 798, 2.522
Heinrich, R. 997
Heintz, N. 697
Heinzle, J. 3.634
Heise, C. 1.382
Heise, I. 3.729
Heisler, F. 744
Heizmann, S. 3.428
Heja, L. 2.548
Helgueta, S. 176, 1.352
Helias, M. 670
Hellbach, N. 3.511
Helmchen, F. 1.004, 1.024, 2.167, 2.382, 3.831
Helmstaedter, M. 3.429
Helyes, Z. 2.457
Hemmer, K. 715
Hemming, F.J. 2.974
Hemstedt, T.J. 1.903, 3.943
Hen, R. 1.588
Henckens, M. 1.157
Henckens, M.J.A.G. 3.479
Hendler, T. 1.716
Hendrix, J. 326
Hendrix, S. 1.520, 2.666
Heneka, M.T. 3.174
Henelius, A. 1.093, 3.894
Hengerer, B. 1.576, 1.665, 2.678
Henke, J. 1.737
Henley, J. 249
Henneberger, C. 3.027
Henneberger, C.H. 766
Hennekinne, L. 3.560
Hennen, E. 1.297
Hennies, N. 1.696
Hennig, M. 1.171
Henrich-Noack, P. 2.143
Hensch, T. 2.198
Hensch, T.K. 2.641
Henseler, C. 3.005
Heo, K. 1.480
Heo, S. 2.546, 2.547
Hepp, R. 3.668
Heppenstall, P. 2.039
Herault, Y. 2.578
Herbeck, Y. 2.893
Herberth, B. 2.584
Herbst, J. 2.895
Herdt, C.T. 2.835
Heredi, J. 2.266
Heredia, L. 597
Herman, A. 3.633
Herman, J. 2.186
Hermanson, D. 1.666
Hermanson, S. 820
Hermes, J.L. 3.825
Hernadi, I. 3.906, 1.105, 1.596, 2.247, 2.248, 3.689, 3.904
Hernádi, L. 1.859
Hernandez Gonzalez, S. 1.738
Hernandez Martin, J. 1.528
Hernandez Rabaza, V. 1.535
Hernandez, A. 3.621
Hernandez, A.I. 2.243
Hernandez, D. 1.138
Hernandez, L. 1.302
Hernandez, L.F. 1.979
Hernandez, M.C. 1.847
Hernández, M.D. 2.846
Hernandez, O. 3.329
Hernandez, R. 1.175
Hernández, R.G. 2.618, 2.619
Hernández, R.M. 3.704
Hernandez, V. 1.667
Hernandez, V.S. 2.958
Hernandez-Fonseca, K. 2.714
Hernández-Galán, R. 194
Hernández-Iglesias, T. 1.308
Hernandez-Kelly, L.C.R. 2.978, 1.340, 1.343
Hernández-Ortega, K. 1.679
Hernandez-Vivanco, A. 1.858, 749
Herold, S. 2.015
Heron, D. 3.227
Herpoel, A. 1.807, 3.507
Herrán, E. 3.704
Herrera, A. 3.084
Herrera, A.J. 1.566, 2.582
Herrera, E. 63, 65, 3.514
Herrera, G. 3.823
Herrera, M. 2.105
Herrera-Marschitz, M. 900, 3.130
Herrera-Molina, R. 791, 3.527
Herreras, O. 2.565, 2.566, 2.567
Herrera-Solís, A. 1.763
Herrero, J. 2.290
Herrero, M.T. 1.635, 2.031
Herrero-González, S. 412
Herreros Alonso, I. 618
Herrmann, A. 2.585
Herrmann, A.M. 2.016
Herrmann, M. 2.200, 3.902
Herrmann, U. 1.913

Herron, C. 1.439
Herry, C. 1.144, 1.145, 1.146, 1.147, 1.148, 1.149, 3.392, 3.488, 3.789
Hershey, K. 2.835
Herskind-Hansen, S. 2.281
Hervé, D. 974, 1.039, 3.071, 3.432
Herzog, E. 3.464, 790, 1.345, 1.383, 3.579
Herzog, H. 3.407
Herzog, M.H. 2.206, 3.192
Herzog, N. 2.913
Hesam, S. 1.742
Hescheler, J. 2.999
Hess, G. 566, 2.542, 2.873, 2.976, 3.587, 3.885
Hettwer, S. 365
Heubl, M. 760, 762
Heuer, A. 716
Heumann, R. 1.650
Heurteaux, C. 561, 3.114
Heusler, A.R. 2.609
Hevers, W. 3.331
Hevner, R.F. 2.960
Hewes, N. 2.814
Hewes, N.R. 2.809
Hibsh, D. 3.443
Hicking, G. 2.016
Hidalgo, C. 332, 586, 2.485, 3.665
Hierlemann, A. 31, 508, 2.916
Higashida, H. 3.307
Higgs, N. 1.403, 3.068
Higuera-Matas, A. 2.074
Hilber, K. 1.867
Hilbrich, I. 782
Hildebrandt, H. 1.012, 2.117, 3.589
Hildebrandt, T. 1.576
Hilgen, G. 1.171
Hill, M.N. 1.116, 1.666, 3.328
Hill, V. 3.328
Hillert, R. 1.805
Hillier, D. 508
Hill-Yardin, E. 478
Hince, P. 3.830
Hindges, R. 2.367
Hindie, V. 1.964
Hines, M.L. 3.243
Hingorani, S. 1.540
Hinton, D. 2.340
Hioki, H. 3.038
Hippenmeyer, S. 1.302
Hira, R. 648
Hirai, H. 305, 2.287, 3.721
Hirai, H.H. 1.838
Hirase, H. 305, 3.609
Hirayama, Y. 3.123
Hiripi, L. 720
Hirota, K. 265, 266
Hirsch, E. 1.554
Hirsch, E.C. 354, 1.979, 3.070, 3.075
Hirsch, S. 2.923
Hirt, L. 878
Hirth, F. 1.258
Hitrec, T. 1.601
Hivert, B. 308
Hiyama, H. 3.203
Hjerling-Leffler, J. 1.041
Hjørringgaard, P. 2.281
Hjorth, J. 2.509
Hladnik, A. 2.451
Ho, T. 2.286
Ho, W. 280, 2.588, 2.975
Ho, W.K. 1.876, 1.882
Hobert, O. 3.498
Hobson, S. 3.416
Hoebeek, F.E. 1.428, 1.481, 1.490, 3.299
Hoedlmoser, K. 1.707
Hoefel, A.L. 1.533
Hoeffer, C. 3.359
Hoehn, M.H. 1.492
Hoeijmakers, J.H. 3.706
Hoeijmakers, L. 704, 1.955
Hoerder-Suabedissen, A. 253
Hof, P.R. 315
Hofer, K. 2.548, 3.107
Hofer, S. 2.129, 2.362
Hofer, S.B. 3.601
Hoffmann, H.M. 2.980
Hoffmann, M. 1.782
Hofmann, D. 1.788
Hofmann, F. 3.359
Hofmann, H.D. 1.440, 2.945, 3.638
Hofmann, U.G. 255, 257
Höftberger, R. 1.525
Hogg, E. 1.413
Hogl, S. 327
Hohenester, E. 1.310
Hokanson, K. 40
Hokfelt, T. 3.433, 182, 546, 1.289, 2.058, 3.311, 3.317, 3.430
Holcman, D. 2.549
Hollais, A. 2.713
Holland, K. 3.758
Holland, P. 3.291
Hollis, F. 2.896, 3.410
Hollmann, C. 2.529
Hollmann, M. 2.453, 3.520
Hollo, K. 3.276, 3.279
Holm, L. 972
Holm, M. 745
Holm, M.M. 2.541
Holman, K. 3.530
Holmgren, A. 398
Holsboer, F. 1.205, 2.693, 2.694, 3.541
Holt, C. 1.314, 3.445
Holt, C.E. 2.430
Holtmaat, A. 1.036, 1.910
Holuj, M. 578
Holzbaur, E. 2.393
Holzenberger, M. 1.940
Holzer, M. 782
Holzmann, K. 2.613
Holzwarth, K. 1.754
Homberg, J.H. 1.580
Homberg, J.R. 214, 649
Homma, C. 3.832
Homma, N. 1.987, 3.613
Homma, S. 179
Homola, A. 2.617
Honda, M. 1.653
Hondo, M. 3.383
Hone, J. 1.858
Honey, C. 2.119
Hong, J. 807
Hong, S. 198, 1.411
Hong, S.I. 2.080
Hoogenraad, C.C. 317, 327, 1.887, 2.392, 2.936, 3.588
Hopp, E. 2.758
Horak, M. 746, 2.498, 2.501
Horiuchi, Y. 3.203
Hornberg, H. 1.314
Horne, M. 650
Horschitz, S. 1.809, 2.508
Horta-Júnior, J.A.C. 3.312
Horti, A. 1.967
Hörtnagl, H. 794
Hortobagyi, T. 137
Horváth 1, G. 446
Horváth, D. 1.011
Horvath, G. 1.622, 1.984, 3.263
Horváth, H. 2.247, 2.248
Horvath, J. 2.914, 3.385
Horváth, K. 3.689
Hoshi, E. 1.222, 2.165, 2.166, 3.404
Hoshi, T. 1.364
Hoshida, T. 1.781
Hoshikawa, K. 1.303
Hoshiko, M. 132
Hosoi, N. 3.721
Hosokawa, T. 743
Hosono, T. 702, 705
Hosoya, A. 3.609
Hosy, E. 735
Hottiger, M. 1.252
Houart, C. 1.258
Houbaert, X. 3.464
Houben, T. 3.002
Houdayer, C. 553
Houdek, Z. 196
Houitte, D. 933
Houston, C. 245
Howland, D. 1.463
Hrabac, P. 216
Hrabê de Angelis, M. 2.597
Hrebickova, I. 2.076, 2.075, 2.077
Hrelia, P. 1.561, 3.138
Hrncic, D. 1.021, 1.486
Hromatko, I. 3.901, 3.918, 3.928
Hruska-Plochan, M. 2.651
Hsieh, C. 696, 2.243
Hsieh, J.C. 2.771
Hsu, M. 3.927
Hsu, P. 1.536
Hsu, P.C. 3.675
Hsu, T.C. 328
Hu, C. 1.654
Hu, F. 415
Hu, J. 958
Hu, T.T. 2.446, 2.742
Hu, Y. 4.001
Hua, Y. 3.429
Huang, A.M. 696
Huang, C. 2.592
Huang, C.C. 1.414, 2.452
Huang, H. 3.546
Huang, J.Z. 2.930
Huang, K. 1.302
Huang, S. 1.810
Huang, S.C. 3.868
Huang, W. 1.817, 2.655
Huang, X.F. 3.186
Huang, Y.B. 2.636
Huang, Y.Y. 861, 2.227
Huber, A. 2.864, 2.865
Huber, D. 620, 1.779, 3.859
Huber, S.E. 2.719
Huberfeld, G. 380
Huberman, A.D. 500
Hubl, D. 431
Hubner, F. 3.859
Huck, J. 435
Huck, S. 60, 1.864
Huda, F. 2.287
Huenchuguala, S. 3.084
Huerta, P. 1.537
Huerta-Ocampo, I. 1.045, 1.462
Huesmann, H.H. 1.682
Huet, O. 886
Huganir, R. 3.214
Huganir, R.l. 2.225
Hughes, B. 1.439
Hughes, P.A. 514
Hughes, T.R. 954
Hugon, J. 1.965
Hugues, S. 3.833
Huh, Y.J. 1.627
Huisken, J. 14
Huleatt, P. 3.086
Hultborn, H. 2.669
Humayun, M. 2.340
Humeau, Y. 1.383, 3.227, 3.464, 3.579
Hung, M.S. 2.771
Hunot, S. 3.070

Hunstman, M. 85
Hunt, S. 769
Huotilainen, M. 1.091, 1.093, 3.894
Hüppi, P. 173
Hurd, Y. 1.311
Hurtado Caballero, E. 254
Hurtado, E. 1.369, 1.372, 1.373
Huseynova, S.H. 369
Hussain, M. 1.718
Hussey, D. 827
Husson, S.J. 3.552
Husson, Z. 1.842
Huston, A.L. 1.779
Hutchinson, K. 2.449
Huth, T. 258
Hüttenhofer, A. 3.942
Hutter, K. 517
Hutter-Paier, B. 1.999
Hüttmayr, C. 2.124
Huttner, W. 678
Hutz, M.H. 3.691
Huyghe, D. 304
Huylebroeck, D. 115
Huynh, T. 136
Huysmans, H. 218, 2.972
Huysseune, S. 2.969
Huzard, D. 3.322
Hwang, D. 1.829
Hwang, I. 1.416
Hwang, J.Y. 2.080
Hwang, L.L. 3.868
Hwu, W. 2.792
Hyland, B.I. 1.768
Hyttinen, J.A.K. 2.561
Hyun, J.H. 1.876
Hyun, K. 1.882
Hyysalo, A. 197
Iacaruso, M.F. 3.601
Iadecola, C. 3.138
Iaffaldano, G. 2.602
Iannello, A. 913, 2.787
Ianni, M. 337
Iannielli, A. 186
Iannitti, T. 236
Iasevoli, F. 3.202
Iatrou, G. 1.531
Ibáñez, A. 573
Ibanez, C.F. 3.539
Ibba, M. 1.579
Ichida, S. 1.058, 1.059, 3.574
Ichii, M. 518
Ieraci, A. 2.671
Ieraci, I. 2.696
Ierusalimsky, V.N. 1.597
Igado, O. 1.538
Igami, T.Z. 1.625
Igarashi, K. 151
Igarashi, K.M. 148, 1.124
Igarashi, M. 3.438
Igartua, M. 3.704
Iglesias, E. 1.979, 1.995
Ignatious Raja, J.S. 3.245
Ihssen, N. 1.107
Iida, T. 1.058, 1.059
Ikawa, I. 3.184
Ikeda, K. 3.390
Ikeda-Matsuo, Y. 3.123
Ikegaya, Y. 285, 506, 1.158, 1.159, 3.038, 3.256, 3.974
Ikenberg, B. 3.583
Ikeshima-Kataoka, H. 3.149
Ilie, A. 389, 1.507, 2.926
Illiano, P. 728
Illing, R. 1.012
Illing, R.B. 2.115, 2.117
Illingworth, E. 3.203
Im, W. 366
Im, W.S. 1.464
Imamura, M. 3.149
Imamura, N. 1.158
Imbeault, S. 2.250
Imbimbo, B.P. 1.443, 2.036, 2.569
Imbrosci, B. 3.154, 3.622
Imeri, L. 1.206
Immormino, M.A. 3.318
Impellizzeri, D. 1.526, 2.087
Imperatore, R. 221, 552, 1.552
Inacio, A. 1.323
Inácio, A.R. 881
Inada, H. 2.631
Inase, M. 1.766, 3.806
Incandela, G. 3.795
Incarnato, D. 678
Incitti, T. 189
Indrigo, M. 1.539, 3.711
Inestrosa, N.C. 737, 3.011
Infante Duarte, C. 1.983
Infante-Garcia, C. 2.583
Ingham, N. 2.111
Ingles-Prieto, A. 2.901
Ingrassia, R. 3.702
Ingwersen, J. 2.024
Inkeller, J. 2.247, 2.248
Innocenti, A. 1.096
Inoshita, T. 2.794
Inoue, M. 1.656
Inozemtsev, A. 616, 3.368
Insausti, R. 1.693
Insolia, V. 2.627
Inui, S. 3.149
Inutsuka, A. 3.832
Inverardi, F. 209, 213
Invernizzi, R. 479
Invernizzi, R.W. 722, 729
Ioannidis, A. 3.887
Iobbi, C. 776
Ionescu, I. 2.694
Iori, V. 1.487
Iorio, R. 3.132
Ioshimoto, G. 1.625
Iourov 480
Ippolito, G. 1.382
Irles, C. 2.804
Isa, K. 2.664
Isa, T. 2.664
Isaac, J.T.R. 469
Isaacs, A. 1.892
Isacoff, E.Y. 11
Isaev, D. 3.040
Isaev, N.K. 3.676
Isaeva, O. 3.040
Isbrandt, D. 504
Isci, K. 924
Ishchenko, Y. 2.763
Isherwood, S. 2.089
Ishida, H. 490, 1.762, 3.806
Ishiguro, T. 872
Ishikawa, I. 1.972
Ishikawa, T. 544
Ishikura, H. 2.766
Ishizaki, Y. 2.990
Isoda, M. 2.345
Isomura, T. 1.789
Isomura, Y. 1.653, 3.294
Isope, P. 529, 772, 1.381, 3.296, 3.525
Israel, J.M. 2.176
Issler, O. 1.157
Isstas, M. 2.133
Istin, M. 3.792
Ito, D. 283, 2.550
Ito, H. 1.684, 2.298, 2.964
Itoh, M. 2.628
Itohara, S. 1.836, 3.839
Itri, R. 668
Itsekson, Z. 2.055, 3.583
Ivakine, E.A. 764
Ivankovic, D. 447
Ivanov, A. 1.954, 1.956
Ivanova, A. 703, 2.959
Ivanova, D. 2.530
Ivanova-Dyatlova, A. 1.477
Ivashkina, O. 1.135, 1.137
Ivashkina, O.I. 1.136
Ivic, V. 1.053
Iwamoto, I. 2.964
Iwamoto, T. 3.203
Iwasaki, U. 2.632
Iwasato, T. 1.034, 1.836, 3.839
Iwata, H. 1.159
Iwata, M. 1.591
Iwatsuki, K. 2.050
Iyer, A. 2.430, 2.591
Iyer, A.M. 1.487
Iyer, K. 697, 2.462, 3.525
Izquierdo, I. 2.218, 2.219
Jaafari, N. 1.775
Jaarola, M. 1.155
Jaarsma, D. 2.936
Jabaudon, D. 181, 3.449
Jaber, M. 710, 711, 712, 1.976, 1.977, 2.482
Jabès, F. 1.943
Jablonka, J. 785, 2.148, 3.135
Jablonski, A. 2.622
Jabourian, M. 584
Jacchetti, E. 922
Jack, A. 2.453, 3.520
Jacob, I. 3.562
Jacob, S.N. 3.962
Jacob-Filho, W. 3.288
Jacobs, J. 811
Jacobsen, B. 1.121
Jacobsen, S. 2.973
Jacobshagen, M. 2.933
Jacobson, G. 3.392
Jacono, M. 3.813
Jacquot, F. 2.695
Jacquot, G. 2.288
Jacquot, L. 3.242
Jadhav, S. 320
Jády, A. 1.298
Jaerve, A. 1.527
Jafari, A. 3.567
Jaffrey, S.R. 1.832
Jagasia, R. 453
Jager, A. 1.668, 3.039
Jagirdar, R. 390
Jagodzinska, J. 1.620
Jagsz, S. 3.306
Jagtap, P. 825
Jahn, H.M. 3.050
Jaiswal, M. 3.553
Jakob, S.B. 706
Jakobsen, S. 2.476
Jakovcevski, I. 2.937
Jakubik, J. 1.346, 1.349, 1.790
Jakubowska-Dogru, E. 1.739
Jalonen, T. 1.540
Jameel, L. 1.095, 1.104, 1.113
Jammal, L. 3.022
Janáky, T. 387, 1.384, 3.657
Janca, R. 3.093
Jancke, D. 1.785
Jancsik, V. 558
Janczewski, V. 91
Jandó, G. 3.263
Jane, D.E. 2.514
Janecka, A. 1.589
Janeczko, K. 1.484, 1.488, 1.489
Janel, N. 1.964
Jang, C. 2.080
Jang, D. 2.271, 3.965

Jang, E.Y. 2.084
Jang, H. 246
Jang, J. 1.783, 1.935, 1.957
Jang, J.K. 2.085
Janke, C. 211
Jankowski, M. 1.740
Jann, K. 2.475
Janovjak, H. 2.901, 2.907
Janssen, A. 2.296
Janssen, C. 649
Janssen, M. 353
Jansson, D. 2.642
Janz, P. 391
Jaouen, F. 3.072
Japaridze, N. 621
Jaraiz Rodriguez, M. 413
Jaramillo, J. 1.181
Jarriault, D. 3.250
Jarvis, S. 1.791
Jaryal, A.K. 3.874
Jasková, K. 763
Jaskowski, P. 1.090
Jászberényi, M. 1.052
Jaumann, M. 958
Javadi, A.H. 2.829
Javadi, P. 1.616, 3.919, 1.617
Javalet, C. 2.974
Jave-Suarez, L.F. 886
Javid, A. 3.036
Javid, H. 1.642
Javorhazy, A. 3.877
Jaworska, J. 3.140
Jaworski, J. 1.548, 3.516
Jaworski, T. 792
Jay, M. 686
Jean, B. 3.055
Jean-Philippe, R. 1.061
Jeans, A. 253
Jeanson, T. 2.764
Jedlicka, P. 778
Jedrzejowska-Szypulka, H. 3.148
Jeffery, K.J. 2.405
Jego, S. 1.075, 1.076
Jeibmann, A. 409
Jelinkova, D. 932, 3.355
Jelitai, M. 544
Jenda, M. 1.730, 2.081
Jendelova, P. 1.453, 2.617, 2.652
Jenkins, T. 1.741
Jenkins, T.A. 2.237
Jenni, O.G. 2.630
Jenniches, I. 2.672
Jensen, C.S. 1.362
Jensen, H.S. 1.874
Jensen, K. 745, 2.541
Jensen, P. 836
Jensen, P.H. 819
Jeon, C. 1.626
Jeon, C.J. 1.627, 1.631
Jeon, D. 2.588, 2.673
Jeon, N.L. 1.783, 1.832
Jeong, H. 3.827
Jeong, J. 3.920
Jeong, M. 1.627
Jeong, M.J. 1.631
Jeong, S.J. 1.627
Jerabek, P. 2.071, 2.072, 2.073
Jerónimo-Santos, A. 2.488
Jerusalinsky, D. 614
Jerzemowska, G. 3.623, 3.633
Jespersen, T. 1.874, 3.573
Jessberger, S. 1.820
Jesus, P. 2.713
Jetti, S.K. 3.492
Jevtic, G. 1.486
Jezdik, P. 3.093
Jezek, K. 3.348
Jezova, D. 3.549
Jhanwar-Uniyal, M. 2.652
Jia, F. 837
Jia, H. 8
Jia, L. 1.854
Jia, W. 3.090
Jia, X. 1.185
Jiang, H. 837, 3.085, 3.089, 3.090
Jilek, M. 1.016
Jilg, A. 1.650
Jimbo, Y. 289, 1.789, 2.305, 2.921, 3.109
Jimenez Escrig, A. 2.600
Jiménez, M. 2.033
Jimenez-Beristain, A. 3.433
Jiménez-Beristain, T. 3.430
Jimenez-Diaz, L. 3.663, 3.661
Jiménez-Rodríguez, V. 3.651
Jin, D.Y. 3.201
Jin, N. 2.278
Jin, Y.C. 3.127
Jing, Y. 3.181
Jirsa, V. 1.422
Jiruska, P. 3.093
Jitsev, J. 2.877
Jo, I. 2.587
Jo, Y. 2.271, 3.965
Joa, K.L. 3.921
Joca, S.R.L. 3.405
Jocsak, G. 2.181, 3.305
Joëls, M. 57, 58, 156, 730, 1.066, 1.280, 1.697, 2.272, 2.409, 3.340, 3.386, 3.936
Johansen, J.E. 546
Johansen, J.P. 3.376
Johansson, B. 3.162
Johansson, J. 3.684
Johansson, S. 1.880, 1.881
Johenning, F.W. 2.529
Johnson, E.O. 1.065
Johnston, A. 2.913
Johnston, G. 2.285
Johnston, K. 3.258
Jojua, N. 4.002
Jokel, R. 3.333
Joki, T. 197, 1.811
Joly, M. 3.343
Joly, W. 1.324
Jones, E.V. 2.571
Jones, K. 2.486
Jones, L. 3.440
Jones, M.W. 806, 2.809
Jones, N. 237, 1.500, 3.124
Jones, N.M. 1.508
Jones, R.S.G. 2.499
Jongbloets, B. 3.251
Jonneaux, A. 3.745
Jönsson, M. 716
Jordi, A. 3.264
Jorge, A. 3,768
Jorgensen, C.V. 437
Joseph, K. 255, 256, 257, 2.765
Josh, H. 2.311
Joubert, J.E. 2.495
Jouhanneau, J.S. 284
Jourdain, P. 296, 1.541
Jovanov Milosevic, N. 1.932, 2.433
Jovanovic, J.N. 1.822
Jovanov-Milosevic, N. 216, 2.966
Jové, M. 2.568
Jovicic, M. 3.775
Joy, S. 1.467
Ju, C. 525, 527, 3.299
Juan de los Reyes, A. 3.834
Juan Salvador, N. 793
Juan, M.C. 576
Jucker, M. 3.643
Juda, M. 2.966
Judas, M. 216
Juettner, J. 508
Juhas, S. 1.463, 2.651
Juhasova, J. 1.463, 2.651
Juhász, G. 387, 1.384, 1.596, 3.614, 3.657
Juhasz, P. 3.906
Julia, M. 2.565
Jullié, D. 2.545
Jung, H. 3.921
Jung, H.Y. 1.416, 1.918
Jung, I. 2.271, 3.965
Jung, J. 258
Jung, M. 1.068
Jung, S. 2.588
Jung, W.G. 1.783
Jung, W.R. 246
Jung, Y. 2.977
Jung, Y.H. 2.080
Jungenitz, T. 1.812, 2.955
Jungling, A. 1.984, 2.457
Jüngling, K. 3.096, 3.544
Junier, M. 406, 1.262
Junier, M.P. 709, 410
Jupp, B. 2.870
Jurado-Parras, M.T. 1.733
Jurányi, Z. 430
Jurányi, Z.S. 2.584
Jurcovicova, J. 2.078
Jurewicz, K. 1.027, 2.826
Juri, C. 1.995
Jurkovicova, D. 763
Just, S. 2.762
Justice, N. 1.157
Justus, D. 812
Jüttner, R. 2.522
Kaarniranta, K. 2.052
Kaasik, A. 2.993
Kacer, P. 2.071, 2.072
Kaczmarek, L. 781, 788, 792, 1.908, 3.756, 3.793, 3.981
Kadas, D. 2.449
Kaeser, M. 2.169, 3.150, 3.151, 3.152
Kaeser, P. 2.368
Kafetzopoulos, V. 2.674, 2.675
Kafitz, K.W. 747
Kafka, A. 416
Kagiava, A. 1.569, 1.571
Kahl, T. 1.017
Kahms, M. 1.376
Kahn, I. 489, 2.240
Kähne, T. 3.954
Kaibuchi, K. 2.289
Kaila, K. 2.933, 2.966
Kainakova, M. 2.498
Kajihara, T. 2.759
Kajta, M. 901, 1.556
Kakebeeke, T. 2.630
Kakeyama, M. 2.794, 2.891
Kakizaki, T. 3.205
Kalaani, J. 1.977
Kalainathan, S. 3.372
Kalanj Bognar, S. 1.932
Kalargyrou, A. 225
Kalauzi, A. 2.193
Kalaycioglu, C. 3.330
Kalb, R. 2.622
Kalbouneh, H. 796
Kale, R. 321
Kalemaki, K. 2.471
Kalev-Zylinska, M.L. 2.251
Káli, S. 1.787, 2.551, 3.607
Kali, S.Z. 1.220, 1.336, 1.337
Kalinina, N. 2.987
Kalinina, T. 2.795, 2.805
Kalinina, T.S. 679
Kalinowski, K. 3.190
Kalisch, R. 1.269
Kaliszewska, A. 3.837

Kalogeraki, E. 509
Kalpachidou, T. 3.879
Kaltner, H. 1.308
Kaltschmidt, B. 715
Kaltschmidt, C. 715
Kaltwasser, S. 2.680
Kalweit, A. 1.958
Kalynovska, N. 3.283
Kam, K. 91
Kamarowski, L.V. 1.088
Kamei, J. 3.043
Kamenskij, A. 2.818
Kamenskij, A.A. 1.644
Kaminska, E. 3.554
Kaminska, K. 1.990, 1.991, 2.269, 3.769
Kaminski, A. 1.027
Kaminski, M. 2.148
Kamintsky, L. 779
Kamitani, N. 2.766
Kamoshida, A. 3.832
Kamp, M.A. 2.999
Kamsu, J.M. 3.341
Kamuda, K. 3.430
Kanatsou, S. 1.697
Kanazawa, T. 3.204
Kandel, E.R. 2.227
Kandemir, B. 2.091
Kandil, F.I. 491
Kandler, S. 3.266
Kandrac, O. 318
Kandrács, A. 3.107
Kaneko, F. 2.760, 3.811
Kaneko, H. 812
Kaneko, R. 3.205
Kaneko, T. 3.038, 3.204
Kang, J. 37
Kang, J.I. 3.271
Kang, K. 1.106
Kang, K.H. 2.431
Kang, S. 198, 2.207
Kang, Y. 1.923
Kanhema-Jakobsen, T. 1.906
Kania, A. 62, 559
Kaniakova, M. 746, 2.501
Kanmura, Y. 1.643
Kannarkat, G.T. 3.692
Kanninen, K. 890
Kanninen, K.M. 2.946, 3.126
Kano, M. 772, 1.408, 1.834, 3.294
Kano, M.K. 1.838
Kanold, P. 2.399, 3.450
Kánvási, Z. 2.266
Kanyshkova, T. 1.482
Kanyshkowa, T. 3.816
Kao, C.Y. 598
Kao, F.C. 2.636
Kao, L.S. 1.414
Kaouane, N. 3.495
Kapay, N. 3.646
Kapay, N.A. 3.676
Kapetis, D. 846
Kapfhammer, J.P. 2.605, 3.515
Kapitein, L.C. 1.887
Kaplan, D. 1.868
Kaplan, P. 3.129
Kaplanian, E.A. 931
Kappès, V. 3.785
Kapus, G. 3.555
Kapusta, K. 370
Karádi, Z. 646
Karadi, Z.N. 1.984
Karagogeos, D. 399, 2.471, 3.023
Karaiskos, C. 1.571
Karakesisoglou, I. 2.778
Karaki, S. 1.764
Karalis, K.P. 2.188
Karalis, N. 1.146, 1.148, 1.149
Karapatis, A. 1.490
Karataeva, A. 2.509
Karbowski, J. 1.793
Karch, S. 443
Kargieman, L. 573
Karich, F. 1.628
Kärkkäinen, V. 890, 2.946
Karl, N. 2.937
Karlócai, M.R. 267
Karlsson, H. 2.058
Karlsson, K. 1.068, 1.069, 1.070
Karlsson, U. 1.881
Karlström, H. 1.959
Karmos, G. 1.011
Karoly, R. 1.873
Karout, M. 1.440
Karova, K. 2.652
Karpova, N.N. 2.817
Karram, K. 1.817
Karsilar, H. 3.922
Karsten, C.M. 393
Karunaratne, N. 226
Karus, C. 3.094
Karwowska, K. 3.944
Karyka, E. 2.623
Kas, M. 2.272
Kas, M.J.H. 3.233
Kasahara, J. 1.987
Kashino, M. 2.126
Kashiwadani, H. 1.643
Kasparov, S. 2.481
Kasparova, S. 2.467
Kastenmüller, A. 825
Kaster, M.P. 3.019
Kastman, H. 2.082
Kasugai, Y. 794
Kaszas, A. 1.220, 1.336, 1.337, 3.624
Kata, D. 1.542
Katabi, S. 1.273
Kátai, Z. 2.812
Katakalidis, G. 2.843
Katami, S. 2.780
Katarova, Z. 448
Katche, C. 3.364
Kathuria, A. 3.211
Katic, J. 2.937
Kato, F. 1.389, 2.483, 3.043, 3.763
Kato, S. 1.049, 1.782, 2.289, 2.664
Katona, G. 284, 508, 1.220, 1.336, 1.337, 1.866, 3.056
Katona, L. 2.552
Katonai, Z. 3.681
Katsidoni, V. 2.083
Katsika, D. 1.501
Katsuyama, Y. 1.813
Katz, A. 546
Katz, D.B. 990
Katzin, S. 345
Katzner, S. 2.149
Kaufer, D. 779
Kaufmann, S.G. 3.762
Kaufmann, W. 3.565
Kavai-ool, U.N. 2.706
Kavelaars, A. 2.464
Kavraal, S. 2.091
Kavushansky, A. 489
Kawabata, A. 518, 2.766
Kawaguchi, T. 4.005
Kawai, F. 3.244
Kawaishi, Y. 2.766
Kawakami, E. 3.747
Kawanami, A. 3.732
Kawano, T. 1.923
Kawasaki, M. 1.711, 2.759
Kawashige, S. 3.204
Kawashima, T. 3.891
Kaya, Z. 3.348
Kayser, A. 3.927
Kayser, V. 3.277
Kazantsev, V. 1.732, 1.901, 3.110
Kazantsev, V.B. 814, 3.067
Kazaryan, K.V. 1.178
Kazimierczuk, Z. 422, 424
Kazmerova, Z. 323
Kazmierska, P. 2.553, 2.556
Kaznacheyeva, E. 3.673
Keating, P. 996, 2.125
Kedar, G. 1.367
Kedrov, A. 3.935
Kedves, R. 448
Kefalov, V. 1.629
Kehr, J. 1.718, 2.847
Keil, J. 3.895
Keimpema, E. 1.311, 1.329
Kekäläinen, S. 3.126
Kékesi, A. 1.384
Kékesi, A.K. 1.596
Kekesi, G. 446
Kékesi, K.A. 387, 3.657
Keleman, K. 2.280
Keller, G. 2.129
Keller, G.B. 1.845
Kellett, D. 2.814
Kellner, C. 1.008
Kellner, Y. 1.919
Kellogg, M. 1.175
Kelly, T. 291, 1.929
Kemenes, G. 2.279
Kemens, I. 2.279
Kemming, C. 2.014
Kemp, P.J. 1.467
Kempermann, G. 2.953
Kempf, A. 1.417
Kencebay, C. 917
Kenia Martínez, K. 571
Kennard, C. 3.265
Kennedy, H. 487, 1.609
Kennedy, P.J. 1.690
Kenney, J. 1.734
Kentros, C.G. 2.333
Kercmar, J. 3.881
Kerekes, B. 3.624
Keri, S. 446
Kerkerian, L. 1.375
Kerkerian-Le Goff, L. 1.342, 3.072
Kermani, M. 1.742
Kermen, F. 2.894
Kern, A.K. 1.682
Kerov, V. 759
Kerr, J.N.D. 3.429
Kerschbaum, H.H. 1.092
Kerschbaum, H.H.K. 1.080
Kessaris, N. 2.471
Kestler, B. 3.758
Kettenmann, H. 406, 415
Ketzef, M. 1.985
Keysers, C. 530
Kezeli, A. 2.206
Kezurer, N. 875
Khabarova, M. 720
Khairnar, A. 1.986
Khajehali, E. 227
Khalil, O.S. 2.985
Khalki, L. 2.653
Khamassi, M. 1.751
Khan, A. 2.129, 3.095
Khan, B.V. 1.504
Khan, M. 3.125
Khan, S. 3.193, 3.200, 3.475
Khan, Z.U. 585
Khani, A. 1.742
Kharlamova, A. 1.810
Khasanova, N. 3.870
Khaspeckov, L. 229

Khateb, A. 3.334
Khayachi, A. 481
Khayachi.A, A.K. 1.377
Khazipov, R. 1.323, 1.851, 3.529
Khazipov, R.N. 3.537
Khemissi, W. 1.588, 2.677
Khirazova, E. 877, 1.644, 2.818
Khiroug, L. 1.784, 3.057, 3.767
Khirug, S. 1.784
Khodagholi, F. 3.951
Khodai, T. 1.013
Khoder, S. 1.149
Khodorov, B. 879
Khomeriki, M. 2.206, 3.335
Khomula, E. 957
Khorshid Ahmad, T. 2.012
Khotskin, N.V. 2.261
Khrestchatisky, M. 200, 201, 1.943, 2.288
Khuchua, L. 3.759
Khudayberdiev, S. 1.833
Kiani, R. 2.740
Kichhkoff, F. 1.593
Kida, Y. 3.417
Kieffer, B. 3.551
Kieffer, B.L. 973, 3.209
Kiehn, O. 89, 2.669, 4.000
Kielar, M. 2.932
Kielbinski, M. 1.484, 1.488, 1.489
Kiguchi, N. 2.768
Kiianmaa, K. 3.797
Kikkawa, T. 1.813
Kikusui, T. 3.390
Kikuta, S. 1.987
Kikuyama, H. 3.204
Kilb, W. 3.842
Kiliaan, A. 625
Kiliaan, A.J. 649
Kilias, A. 391, 3.428
Kilinc, D. 1.309
Kilinc, E. 2.767
Killcross, A.S. 2.237
Killgore, W. 1.701
Kilner, J. 3.861
Kilpatrick, T.J. 184
Kilstrup Nielsen, C. 461, 707, 2.633
Kim, A.B. 1.666
Kim, B. 2.205, 2.271, 2.654, 3.965
Kim, B.C. 1.671, 1.945
Kim, B.S. 2.673
Kim, C.R. 3.052
Kim, D. 1.714, 1.877, 2.543, 2.547
Kim, D.W. 1.416
Kim, E. 2.586, 2.685
Kim, E.A. 946
Kim, E.J. 2.145, 3.365, 3.921
KIM, H. 1.877, 191, 366, 1.411, 2.084, 2.586, 2.944, 2.975, 3.803, 3.965
Kim, H.G. 1.626
Kim, H.J. 1.626
Kim, H.W. 1.480
Kim, H.Y. 2.575
Kim, I.D. 3.127
Kim, J. 3.052, 2.085, 2.431, 2.587, 3.365, 3.366, 3.827
Kim, J.H. 1.918, 2.870
Kim, J.S. 2.080
Kim, J.W. 1.416
Kim, J.Y. 191
Kim, K. 2.502, 2.588, 3.923
Kim, K.J. 2.084
Kim, K.W. 3.128
Kim, M. 366, 1.464, 1.829, 1.877, 3.207
Kim, M.H. 1.876
Kim, M.J. 1.416
Kim, N. 2.944
Kim, N.S. 2.431
Kim, S. 366, 2.294, 3.842
Kim, S.Y. 779
Kim, T. 2.876
Kim, W. 1.416
Kim, W.J. 1.480, 2.586
Kim, W.R. 699
Kim, W.Y. 2.085
Kim, Y. 1.829, 2.944, 3.827
Kimoto, S. 3.203
Kimura, M. 1.209, 2.191
Kimura, N. 2.589
Kimura, R. 2.631
Kimura, T. 2.760, 3.811
Kind, P. 87
Kind, P.C. 469
Kindt, M. 3.386
King, A. 155, 1.467
King, A.E. 236, 844, 3.278
King, A.J. 996, 2.110, 2.125, 2.396
Kinkead, R. 690, 1.061
Kinnavane, L. 650
Kinoshita, M. 2.664
Király, K. 3.280
Kirchhoff, F. 1.204, 1.817, 3.050
Kirimoto, H. 2.828
Kirischuk, S. 3.069
Kirizs, T. 1.363
Kirjavainen, V. 2.210
Kirk, S. 3.303
Kirkeby, A. 714, 716
Kirkpatrick, B. 438
Kirsch, J. 796
Kirsch, M. 1.440, 2.945, 3.638
Kirschenbaum, D. 1.869
Kirschner, A. 2.693
Kirshner, A. 1.716
Kis, V. 3.657
Kis, Z. 887, 888, 2.266
Kiser, D. 2.938
Kishimoto, K. 3.184
Kishimoto, T. 3.203
Kishioka, S. 2.768
Kisiel, M. 780
Kisiswa, L. 1.315
Kislik, G. 371
Kislin, M. 1.784, 3.057, 3.767
Kisliouk, T. 2.183
Kiss, D.S. 2.181
Kiss, P. 1.009, 1.630, 1.984, 2.042, 2.457
Kiss, T. 1.859
Kist, L. 1.543
Kist, L.W. 2.786
Kistner, K. 515
Kitajo, K. 2.759
Kitamura, A. 2.878, 3.985
Kitamura, H.W. 2.123
Kitamura, K. 1.408, 3.294
Kitch, L. 1.786
Kittel, A. 3.086
Kittel, R. 108
Kittler, J. 447, 821, 1.403, 3.068
Kittler, J.T. 3.223
Kivell, B. 976, 2.733
Kjeldsen, J.L. 510
Klaassen, R. 2.509
Klacanova, K. 899
Klajn, A. 1.305
Klann, E. 136
Klapa, M. 660
Klatt, O. 3.520
Klaus, F. 2.678
Klausberger, T. 602, 603, 604, 605, 606, 2.244, 2.552, 2.557
Klausnitzer, J. 1.958
Klawonn, A. 1.155, 1.765
Kleberg, F. 1.898
Kleemann, R. 625
Kleene, R. 2.937
Klegeris, A. 1.441
Kleiber, S. 651, 1.914
Klein, B. 1.544
Klein, C. 1.983, 3.638
Klein, D. 363
Klein, R. 67, 2.427, 3.853
Klein, S. 495
Kleinhans, C. 747
Klementiev, B. 1.546
Klementieva, O. 1.960
Klempin, F. 2.474
Klencklen, G. 574
Kleopa, K. 1.571
Kleopa, K.A. 1.569
Kleteckova, L. 1.496
Kleven, H. 1.122
Klewe, I.V. 2.281
Kliche, S. 3.518
Klima, J. 1.463
Klimaszewska-Lata, J. 2.056
Klimesch, W. 1.092
Klimesch, W.K. 1.080
Klingauf, J. 1.376, 3.577
Klintsova, A. 1.545
Klivényi, P. 1.469
Klosterkötter, J. 3.189
Klos-Wojtczak, P. 2.556
Klucharev, V. 3.934
Kluck, C. 2.624
Klucken, J. 838, 3.074
Kluge, M. 2.815
Klungland, A. 1.386
Klymiuk, I. 3.508
Klyueva, J. 748, 1.244
Knackstedt, L. 2.708, 3.786
Knafo, S. 2.348, 2.350, 3.026
Knapp, L. 887, 888
Knapska, E. 3.208, 3.226, 3.236, 3.384
Knauer, B. 2.232
Knaus, H.G. 3.565
Knels, C. 1.628
Knels, L. 1.628, 2.283
Kneussel, M. 744, 1.247, 1.249
Knezovic, A. 3.677
Knierim, J. 150
Knipper, M. 958
Knoblauch, K. 487
Knoelker, H.J. 1.628
Knoell, B. 392, 654
Knoflach, D. 759
Knöll, B. 914, 3.751
Knop, G. 3.502
Knöpfel, T. 2.656, 2.908, 2.909
Knox, L.T. 3.181
Knuesel, I. 386, 2.040, 3.664
Knüsel, I. 3.683
Knyazev, G.G. 635, 3.908
Knyazeva, M. 1.966
Knyazeva, M.G. 2.000
Ko, H. 3.601
Ko, P. 1.106
Ko, S. 2.271, 3.965
Kobayashi, C. 285, 3.974
Kobayashi, K. 1.049, 1.049, 1.653, 2.289, 2.289, 2.664
Kobayashi, S. 2.554
Kobayashi, Y. 2.768
Kobiler, O. 24
Kobler, O. 652, 1.891
Kóbor, P. 1.636, 2.130
KobroFlatmoen, A. 1.961
Koch, J. 839
Koch, J.C. 1.518, 3.178
Koch, P. 1.478
Kochlamazashvili, G. 3.027, 3.589
Kocsis, K. 887, 888, 1.183
Kodish, O. 1.302

Koechlin, E. 1.279
Koehl, M. 1.375
Koekkoek, S.K.E. 525, 527
Koenig, T. 431
Koenig, X. 1.867
Koesling, D. 1.358
Köfeler, H.C. 1.820
Kofman, O. 2.634
Koh, J. 3.204
Köhl, J. 393
Kohl, Z. 1.975
Kohler, C.A. 1.131
Kohmann, D. 3.096
Kohus, Z. 267, 3.607
Koibuchi, N. 2.107, 2.632
Koistinaho, J. 890, 2.946, 3.126
Koivumaa, J. 3.376
Koizumi, S. 2.050, 3.123
Kojima, Y. 3.307
Kokai, E. 1.355
Kokaia, M. 2.910
Kokkinou, V. 931
Kokkosis, A. 930, 931, 1.531
Kokona, D. 1.547
Kokotos, A. 2.531
Kokras, N. 2.092, 2.674, 2.675, 3.345
Koks, S. 1.620
Kolar, M. 1.686
Kolasa, M. 1.673, 3.636
Kole, K. 3.835
Kole, M.H.P. 297
Kolesnikov, A. 1.629
Kolikova, J. 1.784
Kolinko, Y. 1.683
Kolisnyk, B. 3.945
Kolk, S. 214
Kolk, S.M. 215
Kolliopoulou, A. 931
Kollmorgen, S. 2.895
Kolodziej, A. 1.014, 2.903
Kolosov, P. 1.418
Kolotii, A.D. 480
Koltunowska, D. 1.730
Komai, S. 3.390
Komatsu, M. 3.747
Komatsuzaki, Y. 2.555
Komeilipoor, N. 1.002
Komine, O. 2.610
Komleva, Y. 1.743
Kommata, V. 2.939
Komsuoglu Celikyurt, I. 3.958
Könczöl, K. 2.812
Kondrakiewicz, K. 3.208, 3.236
Kondratenko, R.V. 3.676
Kondratiuk, I. 792
Kong, M. 3.145
Kong, M.S. 3.365
Konieczny, J. 1.990, 1.991
Kønig, A. 1.546
König, N. 2.656
König, P. 1.605
Koniusz, S. 1.306
Konnerth, A. 8
Konno, A. 305, 2.287
Konno, H. 3.536
Konno, K. 2.513
Kononenko, O. 1.718
Konopacki, J. 2.553
Konopka, A. 780, 1.548, 3.516
Konradsson-Geuken, A. 2.709
Konstantinidou, A. 1.501
Konstantoudaki, X. 3.023
Kontaxis, N. 1.531
Kontkanen, O. 2.304
Kónya, J.A. 1.469
Koob, G. 2.357
Kook, S. 2.588
Koolhass, J.M. 3.313
Kooner, G. 1.465
Koong, V. 2.285
Koop, B. 2.024
Koopmans, F. 1.385
Koos, B. 409
Koot, S. 2.272
Kooy, F. 88
Koparal, A. 199
Kopell, N.J. 803
Kopitar-Jerala, N. 3.177
Kopp, M. 1.808
Koppes, R. 1.185
Kopra, J. 1.988
Korelidou, A. 1.501
Korem, N. 3.367
Korhonen, L. 940, 3.304
Korhonen, P. 890, 3.126
Korinek, M. 2.498
Korkolopoulou, P. 410
Kornhuber, J. 258, 2.719, 3.422
Kornilov, P. 3.568
Kornisiuk, E. 614
Koroleva, K. 512
Korolkova, Y. 519
Koronaiou, M. 2.675
Koronkiewicz, M. 422
Korosi, A. 704, 1.955, 2.109
Korostelev, S.A. 480
Korostynski, M. 653, 3.791
Korotkova, T. 799, 800, 801, 802, 803
Korpela, J. 1.093, 3.894
Korr, S. 2.014
Korsch, M. 2.200
Korshunov, V.A. 1.600
Korshunova, T. 1.597
Kortazar, D. 2.290, 3.420
Korte, M. 312, 776, 1.417, 1.904, 1.913, 1.919, 2.103, 2.492, 3.174, 3.521
Koryagin, A. 3.120
Kos, A. 215, 1.668, 2.970, 3.039
Kos, T. 3.179
Kosari, S. 1.741
Kosarmadar, N. 1.645
Koschak, A. 751, 759
Kosel, M. 3.528
Kosenkov, D. 1.727
Koshizawa, R. 3.929
Koshoridze, N. 2.184
Kositsyn, N.S. 891
Kosmidis, S. 2.227
Kosonowska, E. 1.489
Kossut, M. 1.089, 1.698, 3.837
Kostoglou, K. 1.794
Kostomoiri, M. 1.442
Kostopoulou, E. 3.887
Kostoula, C. 479, 722, 729
Kostovic, I. 216, 1.332, 2.433, 2.451
Kostusiak, M. 2.655
Koszeghy, A. 295, 1.355, 3.284
Kotani, K. 289, 1.789, 2.305, 2.921, 3.109
Kotlinska, J. 2.270
Kotlinska, J.H. 1.730, 2.081
Kotz, S.A. 1.112
Kouhnavardi, S. 3.280
Koulakoff, A. 3.070, 3.682
Kounoupa, Z. 2.471
Koupourtidou, C. 233
Kourtis, D. 2.163
Koutmani, Y. 2.188
Kouvelas, E.D. 233
Kovacs, A. 1.984
Kovács, G. 2.584
Kovacs, K. 1.622
Kovács, N. 3.689
Kovacs, R. 435
Kovács, T. 1.298
Kovacs, Z. 387
Kovács-Bálint, Z. 1.105
Kovalenko, T. 3.344, 3.875
Kovalska, M. 3.129
Kovas, Y.V. 635
Koverech, A. 1.578
Kowalczyk, S. 2.522
Kowalczyk, T. 2.553, 2.556
Kozak, A. 1.698
Kozhevnikova, M. 2.656
Kozhukhov, S. 2.131
Kozhukhov, S.A. 2.144
Kozicz, T. 1.668
Kozlova, E. 2.656
Kozlova, E.N. 3.434
Kozma, R. 259
Kozsurek, M. 3.280
Kozubski, W. 342
Kozyrev, V. 1.785
Krabbe, S. 3.392
Kraev, I. 795
Kraft, S. 3.638
Krajcs, N. 1.859
Kralickova, M. 196, 1.683
Kramar, C. 2.879
Kramar, C.P. 3.364
Krampera, M. 400, 1.512
Krarup, C. 363, 918, 2.022
Kraskov, A. 2.347, 3.861
Krause, M. 2.428
Krausova, B. 2.498
Kravenska, E.V. 2.594
Kravets, V.S. 480
Krebs, A. 492
Krebs, A.A. 809, 1.607, 3.619
Kreiner, G. 2.175, 3.323
Kreis, P. 451, 1.387
Kreiter, A.K. 2.747
Kremenetskaia, I. 884
Krencik, R. 40
Krenz, A. 393
Kress, M. 514, 517, 920, 2.710
Kress, V. 3.006
Krestchatisky, M. 3.647
Kretz, O. 2.440
Kretz, R. 607
Kretzschmar, B. 2.015
Kreutz, M. 721, 1.163, 2.320, 2.322
Kreutz, M.R. 1.952
Kreutzfeldt, M. 2.015
Krewer, F. 666
Krezel, W. 2.104
Kriebel, M. 3.679
Krieger, P. 1.042
Krieglstein, K. 2.493, 2.783
Kriegstein, A. 1.190
Krishna, B.S. 2.845
Krishnamurthy, K. 3.728
Krishnamurthy, P. 326
Kristensson, K. 1.549, 2.058
Kristiansen, L. 2.420
Kristiansen, U. 1.874
Kristiansson, M. 2.281
Kritman, M. 1.330
Kritzinger, G. 3.440
Krivonogova, E. 3.870
Krivoschekov, S.G. 1.712
Kriz, J. 3.122
Kröger, T. 351
Krohn, M. 3.680
Kroker, K.S. 263
Krol, J. 3.455
Krontira, A. 931
Kropotova, E. 3.548
Kros, L. 1.481, 1.490
Krsek, P. 3.093
Krsiak, M. 2.071, 2.072

Krsnik, Z. 216, 1.332, 2.433
Krstew, E.V. 2.082
Krstic, D. 2.040
Kruashvili, L. 1.744
Krueger-Burg, D. 1.884
Kruettner, S. 2.280
Krugers, H. 730, 1.697, 3.386, 3.640, 3.936
Krugers, H.J. 3.588
Krugliakova, E. 3.836
Kruk-Slomka, M. 2.249
Krupic, J. 2.129
Krusche, A. 1.805
Krushinskaya, J. 1.550
Krushinsky, A.L. 2.890
Kruusmägi, M. 1.773
Krystkowiak, P. 2.157
Kryuchkova, A. 3.368
Krzyzosiak, A. 2.104
Krzyzosiak, W.J. 1.468, 3.720
Kubera, M. 1.057, 1.574, 1.575
Kubik, J. 3.791
Kubinová, S. 2.665
Kublik, E. 505, 1.025, 1.026, 1.028, 2.148, 2.150, 2.826, 3.135
Kubo, F. 146
Kubo, T. 3.390
Kubota, N. 1.795, 3.413
Kubova, H. 1.496, 3.754, 1.510
Kucerova, J. 1.986
Kuchukashvili, Z. 2.184
Kudoh, S. 1.684, 2.298
Kudrin, V. 2.637, 3.760
Kudryashova, I. 3.029
Kugathasan, P. 510
Kugel, H. 2.698
Kugler, C. 751
Kügler, S. 228
Kuhlmann, T. 2.014
Kuhn, P.H. 1.828, 3.511
Kuhne, C. 1.666
Kuhse, J. 796
Kujawski, R. 3.554
Kulakovskaya, E. 877, 1.550
Kuliewicz-Nawrot, M. 1.453
Kulik, A. 750, 2.522
Kulikov, A. 1.753
Kulikov, A.V. 2.261, 2.679
Kulikov, M. 3.760
Kulikova, E. 2.679
Kulisevsky, J. 3.694
Kulkarni, M. 2.048
Kullander, K. 3.853
Kumar S, S. 3.986
Kumar, A. 935, 1.551
Kumar, G. 1.745
Kumar, P. 321, 2.015
Kumar, R. 2.480, 3.553
Kumarnsit, E. 615, 1.746
Kummer, K. 2.710
Kummer, K.K. 3.804
Kummer, S. 1.322
Kummer, T. 3.153
Kunath, T. 3.686
Kundu, T.K. 329
Kunizheva, S. 339
Kuntcevitch, G. 1.184
Kuo, C. 840
Kuo, J.S. 3.829
Kuo, Z. 1.843
Kuperman, Y. 541
Kupers, R. 1.022
Kuraoka, K. 1.766
Kurchavyi, G.G. 2.987
Kurek, A. 1.574, 2.060
Kurhe, Y. 2.681
Kurinnaia, O.S. 480
Kuroda, K.O. 1.392
Kuroiwa, M. 974
Kurokawa, H. 1.781
Kurowski, P. 1.348
Kurudenkandy, F.R. 3.684
Kurz-Drexler, A. 3.541
Kus, R. 1.084, 2.148
Kusek, M. 2.976
Kushige, H. 3.417
Kusmider, M. 1.673, 3.636
Kusmierczyk, J. 2.175, 3.323
Kuwajima, T. 1.316
Kuwaki, T. 1.643
Kuypers, K.P.C. 3.993
Kuznetsov, K. 1.930
Kuznetsova, T. 2.432
Kuzumaki, N. 3.082
Kvárik, T. 1.630
Kvello, P. 1.126
Kwak, H. 1.106
Kwan, P. 2.454
Kwan, Y.N. 2.711
Kwee, I.L. 3.973
Kwok, J.C.F. 789, 2.617
Kwon, J. 3.920
Kwon, M.J. 2.654
Kwon, O. 1.631, 2.207, 3.637
Kwon, O.J. 1.627
La Bella, V. 2.607
La Fleur, S.E. 2.109
La Marle, M. 2.157
La Montanara, P. 2.633
La Padula, V. 2.783
La Porta, A. 1.295
La Regina, F. 2.577
La Rosa, L. 864
La Torre, A. 2.442
La Via, L. 1.529, 3.033
La Vitola, P. 1.433
Labak, I. 1.053
Labantakis, L. 2.238
Labasque, M. 1.491
Labermaier, C. 2.680
Labouèbe, G. 547, 560
Labuz, K. 1.730
Lacassagne, E. 1.943
Lach, G. 3.369
Lachapelle, F. 166
Lachat, J.J. 3.320
Lacinova, L. 763, 2.993, 3.549
Lacivita, E. 276, 465
Lackovic, S.F. 2.825
Lacoh, C.M. 3.528
Lacroix, A. 3.668
Lacroix, E. 1.078
Lacroix, M. 627, 2.223, 2.224
Laderrière, A. 564
Laeng, B. 3.259
Lafenêtre, P. 600
Laferrière, A. 1.415
Laffray, S. 959
Lafitte, D. 3.221
Lafuente, J.V. 3.704
Lagercarntz, H. 2.947
Lagler, M. 602, 605
Lagnado, L. 13
Lagunas, N. 2.682
Lahrech, A. 869
Lai, C.Y. 2.452
Lai, H. 280, 2.991
Lai, Y. 575, 596
Lainesse, M. 1.015
Lakk, M. 1.320
Lalanza, J. 1.767
Lalanza, J.F. 1.117
Lalkovicova, M. 3.117
Lallouette, J. 301
Lamanna, J. 1.380, 1.420, 2.108, 2.139, 3.030
Lamari, F. 930, 1.531, 1.964
Lamas, J.A. 3.569
Lamba, D. 1.446
Lambert, J.J. 430
Lambert, L. 1.345
Lamberty, Y. 3.963
Lambolez, B. 2.500, 3.620
Lambolez, B.L. 3.798
Lambon Ralph, M.A. 1.696
Lamelas, D.T. 934, 2.059
Lamla, T. 3.416
LaMonica, B. 1.190
Lamothe, V. 583
Lampert, A. 520
Lampl, I. 3.840
Lamprea R, M. 3.970
Lamprect, R. 774
Lamy, C. 1.609
Lan, A. 2.634
Lana, D. 889
Lanciego, J.L. 828
Landau, A. 1.701, 2.476
Landek-Salgado, M.A. 3.203
Landgraf, P. 652, 655
Landgraf, R. 2.692, 2.701
Landi, C. 1.427, 1.505
Landi, S. 3,999
Landry, M. 959
Landsberger, N. 461, 707, 2.633
Landucci, E. 1.878, 2.044, 2.068
Lane, S. 2.481
Lanfranco, M. 367, 2.979
Lanfranconi, S. 3.423
Lanfumey, L. 975
Lang, C.M. 327
Lange, M. 228, 3.972
Langer, F. 3.643
Langeslag, M. 517
Langfort, J. 3.306
Langley, S. 698
Languille, S. 637
Lanore, F. 261
Lanshakov, D. 2.795, 2.805
Lanteri, C. 975
Lanuza, M.A. 254, 1.369, 1.372, 1.373
Lanz, F. 493
Lanz, M. 828
Lanza, M. 987
Lanzillotta, A. 1.443, 2.036, 3.702
Laperchia, C. 1.552, 1.567
Laplanche, J.L. 1.965
Laporte, M. 1.892
Lapray, D. 2.552
Lara, P. 1.959
Laramee, M. 2.902
Laranjinha, J. 2.590
Larcombe, S. 3.265
Large, C. 3.570
Large, C.H. 3.571
Laroche, S. 470, 1.150, 1.734
Laroque, F. 2.862
Larsen, L.L.S. 1.430
Larsen, P.H. 441
Larsson, J. 1.329
Las, L. 638, 639, 640, 641, 1.122
Lasareva, N. 2.131
LaSarge, C. 3.749
Lasko, N. 1.701
Lason, W. 901
Lassalle, O. 3.724
Laßek, M. 2.537
Lassi, G. 2.807
Lasztoczi, B. 2.557
Laszy, J. 448
Latagliata, E. 3.716, 3.937
Latagliata, E.C. 1.675
Latif-Hernandez, A. 2.539

Latini, A. 1.038
Latorre, E. 1.523
Latremoliere, A. 2.192
Latta, P. 1.986
Lattanzi, S. 3.423
Lattanzio, F. 3.639
Latusz, J. 436, 3.180
Lau, B.W.M. 1.801
Lau, T. 2.099, 3.582
Lau, W. 777
Laudati, E. 417
Laudati, G. 883, 1.553
Laudes, T. 3.245
Laugeray, A. 1.573
Laulagnier, K. 2.974
Laumonnier, F. 462, 3.745
Launay, J.M. 1.573
Lauranzano, E. 849
Laurell, E.K. 146
Laurencin, M. 2.288
Laurent, F. 2.558, 2.559
Laurent, G. 2.309
Laurent, M. 1.043
Laureys, S. 286, 2.920
Lauritzen, K. 1.386
Lauritzen, K.H. 1.485
Lauro, C. 242, 411
Lavaur, J. 1.554
Lavenex, P. 574, 865, 1.692, 1.699
Lavigne, J. 1.869
Laviola, G. 465, 986
Lawrence, A.J. 1.338, 2.062, 2.082, 2.870, 3.366, 3.801
Lawrence, J.J. 1.623, 3.878
Layé, S. 3.882
Lazar, A. 2.132
Lazareva, N. 1.954
Lazarevic, V. 1.368
Lazarewicz, J.W. 1.535
Lazarov, N. 3.863
Lazarus, M. 1.155, 2.816
Lazdunski, M. 1.640
Lazic, K. 2.193
Lazic, S.E. 1.803
Lazutkin, A. 703, 2.959, 3.424
Lazzari, L. 1.514
Lazzarotto, T. 337
Le Barillier, L. 3.053
Le Bihan, D. 3.985
Le Blon, D. 1.520
Le Bras, B. 685
Le Corronc, H. 685
Le Coz, G.M. 2.801
Le Douce, J. 3.668
Le Feuvre, Y. 959
Le Glou, E. 2.276
Le Guisquet, A. 2.677
Le Guisquet, A.M. 1.588, 2.682
Le Marrec-Croq, F. 1.519
Le Masson, G. 2.176, 2.625
Le Merrer, J. 973, 3.209
Le Moal, M. 2.358
Le Moine, C. 2.233
Le Novère, N. 1.341
Le Prieult, F. 3,154
Le Ray, D. 3.849
Le Thuc, O. 561
Le, W. 3.748
Leach, K. 227
Leal, G. 902
Leal-Campanario, R. 611
Leao, R. 2.656
Leao, R.N. 3.705
Lebedeva, J. 1.323
LeBihan, T. 2.585
Lebow, M. 1.157
Lebrand, C. 2.932
Lebrun, N. 3.227
Lecca, D. 1.819, 1.989, 2.727, 2.863, 3.787, 3.788
Lecca, S. 3.034, 3.584
Lecci, S. 1.074
Lechinger, J. 1.707
Lechowski, R. 3.135
Lechuga-Sancho, A.M. 2.583
Leclerc, C. 1.451
Lecoq, J. 1.786
Lécorché, P. 2.288
Lecour, M. 2.653
Ledecky, V. 318
Ledo, A. 2.590
Ledoux, D. 2.920
Ledri, M. 1.478
Leduc, R. 2.495
Lee, A. 759
Lee, A.Y. 2.575
Lee, B. 2.977, 3.803
Lee, B.I. 1.480, 2.586
Lee, C. 280, 958, 2.991
Lee, C.D. 1.801
Lee, C.Y. 2.549
Lee, D. 1.411, 1.967, 2.975
Lee, E. 699
Lee, E.J. 2.431
Lee, E.S. 1.626
Lee, F.S. 2.696
Lee, G.U. 1.309
Lee, H. 1.106, 219, 2.271, 2.325, 2.327, 2.587, 2.592, 2.975, 3.965
Lee, H.K. 744, 3.127
Lee, H.W. 1.411, 2.654
Lee, I. 619
Lee, I.S. 1.918
Lee, J. 378, 807, 1.106, 2.080, 2.673, 2.685, 2.784, 2.876, 3.127, 3.128, 3.803
Lee, J.E. 906
Lee, J.H. 1.783
Lee, J.K. 3.692
Lee, J.S. 1.626
Lee, J.W. 2.085
Lee, K. 1.830, 2.975
Lee, K.F.H. 2.511
Lee, K.J. 619
Lee, K.M. 906
Lee, L. 3.722
Lee, M. 1.555, 3.677
Lee, P.Y. 1.536
Lee, S. 1.923, 2.575, 2.588, 2.588, 2.975
Lee, S.E. 1.829
Lee, S.H. 1.876, 1.882, 2.431
Lee, S.K. 2.586
Lee, S.T. 1.464
Lee, S.Y. 2.080
Lee, T.S. 3.675
Lee, T.T.Y. 1.666
Lee, W.K. 3.921
Lee, W.T. 906, 3.128
Lee, Y. 1.151, 1.258, 2.271, 2.271, 2.944, 2.944, 2.991, 3.965, 3.965
Lee, Y.C. 696
Lee, Y.H. 1.536, 3.675
Leech, K. 168
Lee-Chen, L. 3.722
Lee-Kardashyan, L. 3.366
Leem, Y. 2.093
Lefebvre, C. 1.519
Lefler, Y. 524
Lefort-Besnard, J. 1.588
Lega, C. 494, 1.098
Legendre, P. 685
Leger, C. 2.625
Léger, D. 3.925
Léger, J.F. 1.029
Legros, C. 1.871
Lehky, S. 2.740
Lehmann, K. 1.652, 2.133
Lehner, E. 1.092
Lehner, M. 3.837
Lehnhoff, J. 2.785
Lehotsky, J. 1.563, 3.129
Lehtimäki, K. 1.962
Lehtonen, S. 890, 3.126
Leibold, C. 2.242
Leicht, G. 443
Leidmaa, E. 2.191
Leimig, F. 2.278
Leinders-Zufall, T. 141
Leinikka, M. 1.093, 3.894
Leite, C.E. 2.786
Leite, J.P. 1.479
Leite, R.E.P. 3.288
Leite-Almeida, H. 513, 2.674
Leitner, M.G. 754
Leixner, S. 2.064
Lejavova, K. 2.946
Lejeune, F.X. 1.262, 410
Lelard, T. 2.157
Lelesz, B. 3.877
Lelliott, C. 2.111
Lelong-Boulouard, V. 2.836
Lemaire, M. 1.554
Lemak, M. 1.404, 1.597
Lemarchant, S. 890, 3.126
Lemmens, E. 1.520
Lemmens, S. 1.520, 2.666
Lemoine, A. 555, 564
Lemon, R. 163, 3.861
Lemon, R.N. 2.347
Lemos, C. 2.094, 2.726
Lemos-da-Silva, J.A. 1.088
Lena Fuchs, A. 2.952
Lena, C. 529, 528
Lenaers, G. 1.620
Lénárd, L. 646
Lench, A. 2.499
Lenda, T. 1.990, 1.991
Lendvai, D. 1.289
Lengacher, S. 314, 647
Lenk, K. 2.561
Lenkey, N. 1.873
Lent, R. 3.288, 3.987
Lenz, M. 778, 2.055
Leo, A. 2.095
Leo, D. 713, 728, 2.463
Leocani, L. 402, 458, 3.157
León Estrada, I. 2.201
Leon Zagrean, L.Z. 1.502
Leonardi, L. 1.800, 2.942
Leonardi, M. 3.141
Leondaritis, G. 1.425, 2.297
Leone, L. 3.947
Leonhardt, A. 2.761
Leoni, V. 1.471
Leonzino, M. 3.543, 3.550
Leopoldo, M. 276, 465
Lepack, A. 1.590
Lepina, A. 1.732, 1.901
Lépinay, A. 3.882
Lepka, K. 398
Lepleux, M. 3.464
Lepore, A.C. 3.435
Lepore, F. 1.015
Lepousez, G. 140
Lerche, H. 1.869
Lerchundi, R. 3.668
Lerens, E. 960, 1.078
Lerma-Cabrera, J.M. 548
Lerond, J. 2.653
Leroux, P. 2.635
Leroy, C. 3.849
Lesca, G. 3.572
Lesch, K.P. 706, 1.848, 2.938, 3.972

Lesica, N. 2.113
Leski, S. 2.716, 3.226
Leskiewicz, M. 1.574, 1.575, 2.060
Lesmana, R. 2.632
Lesniewska, P. 2.716
Leßlich, H. 3.984
Leßmann, V. 1.894, 1.897, 2.490, 2.494
Lesuis, S. 3.588, 3.640
Leszkowicz, E. 1.107
Letari, O. 987
Leto, K. 1.294, 1.300, 2.601, 2.602
Letzkus, J. 3.392
Leuenberger, C. 1.727
Leumann, C. 1.150
Leuner, B. 437
Leung, S. 2.116
Leutgeb, J.K. 2.406
Leutgeb, S. 2.242, 2.402, 2.406
Leuthard, C. 3.152
Levandis, G. 361, 3.708
Léveillé, E. 3.898
Levenes, C. 540, 2.500
Leventer, R. 3.903
Leventhal, B.L. 2.825
Lever, M. 3.035
Lévesque, D. 3.705
Lévesque, M. 829
Levi, S. 247, 824, 760
Levi, S.L. 762
Levin, E.A. 635, 2.706
Levin, M. 16
Levitskaya, N. 2.637
Levitskaya, N.G. 2.646
Levitz, J. 11
Levkowitz, G. 1.197
Levy, F. 1.757
Levy, S.L. 3.298
Lewandowska, M. 1.710, 3.913
Lewandowski, M.H. 382, 559, 2.988
Lewin-Kowalik, J. 2.052
Lewis, C. 2.134
Lewis, D.A. 1.591
Lewis, P.A. 1.696
Lewis, S. 2.299
Leysen, L. 2.296
Leyton, L. 900, 3.145
Leyva-Díaz, E. 1.317
Li Puma, D.D. 3.644
Li, D. 2.562
Li, J.Z. 1.786
Li, K. 1.385, 3.435
Li, K.W. 738
Li, L. 725, 1.831, 2.145
Li, M. 694, 1.585, 2.470
Li, T.L. 3.868
Li, X. 2.062, 2.227, 2.466, 3.370, 3.718
Li, Y.H. 3.868
Li, Y.Q. 2.957
Li, Z. 3.111
Liakoni, V. 3.155
Liao, W. 2.636
Liaudet, N. 35, 301
Liautard, C. 1.869
Libbrecht, S. 3.431
Liber, A.M.P. 1.625
Liberale, C. 666
Liberge, M. 3.072, 3.076
Librizzi, L. 3.108
Licastro, F. 337
Licci, M. 903
Lichnerova, K. 746, 2.501
Lichtenecker, P. 2.494
Lichtenthaler, S. 1.943, 3.511
Lichtenthaler, S.F. 327, 1.828
Lichvarova, L. 763, 2.993, 3.549
Liddell, S. 2.189
Lidsky-Everson, J. 2.835
Lieb, A. 3.000
Liebmann, I. 3.275
Liebmann, T. 1.773
Lien, C. 280
Liet, C. 2.836
Lieutaud, T. 1.677
Lievens, P. 3.736
Lievens, P.M. 2.432
Liewald, D. 1.612
Lignani, G. 713, 1.400, 2.533, 2.536
Liguz-Lecznar, M. 3.837
Likhtik, E. 3.486
Lill, A. 2.857
Lilp, I. 2.859
Lim, D. 742, 2.591, 3.219, 3.672
Lim, H. 2.711
Lim, J. 3.637
Lim, L. 1.925
Lim, L.W. 1.444, 2.697
Lim, S. 2.994
Lima Vale, M. 2.460
Lima, A. 306
Lima, F.A. 348
Lima, F.A.V. 349, 3.121
Lima, F.A.V.L. 360
Lima, J. 3.371
Lima, N.M.R. 3.121
Lima, R.H. 1.131
Lima, S.Q. 2.899, 3.400
Liman, N. 2.091
Limatola, C. 242, 411, 2.039, 3.025
Limón, I.D. 1.993
Limoni, G. 2.935
Lin, B. 3.173
Lin, C. 2.592
Lin, C.C. 943, 944, 1.414
Lin, E. 2.864
Lin, K.K. 3.994
Lin, M. 280
Lin, S.J. 1.207
Lin, Y.L. 1.555
Lin, Z. 3.299
Linares Vidal, V. 597
Linares, M.V. 594
Linaro, D. 1.931
Lin-Chao, S. 2.792
Lindeman, S. 525, 526, 527
Lindemann, C. 1.768
Linden, D. 1.107
Lindfors, C. 546
Lindholm, D. 940, 3.304
Lindholm, J. 3.767
Lindlar, S. 1.808
Lindovsky, J. 1.016
Lindquist, J.A. 2.028
Lindquist, S. 2.028
Lindqvist, M. 2.947
Lindskog, M. 3.597
Linge, A. 409
Linge, R. 2.702
Lingor, P. 822, 839, 1.518, 3.178
Link, A.S. 514
Linkenkaer-Hansen, K. 3.233
Linne, M.L. 1.540
Linse, S. 1.960
Lions, S. 3.888
Liou, H.C. 3.702
Lipari, A. 980
Lipecka, J. 410, 709, 1.262
Lipinski, M. 3.938
Lippert, M. 2.903
Lippert, M.T. 2.923
Lippmann, K. 779
Lipski, J. 223, 3.091
Lisai, S. 1.498
Lisboa, S.F. 3.382
Liscia, A. 1.586
Lisgaras, C. 3.750
Lisi, L. 417
Liske, B. 3.889
Liske, B.C.J. 1.087
Liskiewicz, A. 3.148
Liss, B. 3.078
Listowska, M. 3.225
Litwa, E. 901, 1.556
Liu, C. 2.038
Liu, H. 2.285
Liu, M. 2.664
Liu, P. 3.181, 3.838
Liu, R. 1.591
Liu, S. 1.213
Liu, W. 840, 1.444
Liu, X. 759, 1.445, 2.507
Liu, Y. 599, 1.445, 1.747, 1.899, 2.038, 3.182
Liu, Z. 2.657
Livaniou, E. 1.442
Livelli, A. 486
Livi, A. 2.344
Livi, P. 31
Lizcano, J.M. 3.501
Ljubisavljevic, M. 3.036, 3.707
Lladó-Pelfort, L. 429
Llamas-Alonso, J. 2.201
Llansola, M. 609
Llebaria, A. 2.900
Lledo, P. 140
LLinares, C. 2.033
Llobet, A. 2.900
Llop, J. 907
Llorca Torralba, M. 2.769
Llorens, F. 834
Llorens, J. 961
Llorente, J. 1.357
Llorente, R. 238
LLovet, M.I. 597
Lloyd Mills, C. 2.051
Lloyd, T.E. 2.609
Lluís, C. 721, 2.980
Lo Gerfo, E. 1.081
Lo Iacono, L. 983, 2.683
Lo Martire, V. 2.197
Lo, A.C. 1.941
Lo, F.S. 1.034
Lobianco, M. 628
Locarno, A. 2.633, 3.625
Locatelli, F. 536, 538
Locatelli, V. 545
Lodge, D. 2.540
Lodovichi, C. 3.239, 3.249
Loebel, A. 1.737
Loeffler, J. 1.628
Loers, G. 2.937
Loewenstein, Y. 1.911
Löffler, J. 2.283
Loffreda, A. 3.744
Loginova, N. 891, 2.185, 3.368
Logothetis, N. 2.135, 2.355
Logothetis, N.K. 966, 2.843
Loi, M. 2.272
Loiodice, S. 1.992
Lolignier, S. 1.640
Lombaert, N. 2.742
Lombardi, L. 1.663, 1.915
Lombardi, M. 224, 309
Lomber, S.G. 2.171
Lonardoni, D. 2.563
Longhena, F. 2.480, 3.083
Longo, A. 563, 1.748, 2.850
Longo, F. 350, 473, 3.220
Longueville, S. 1.039
Looser, J. 2.917
Lopata, K. 2.871, 2.872, 2.873, 3.968
Lopatina, O. 3.210
Lopatina, O.L. 1.743

Lopera, F. 3.655
Lopes, A. 513
Lopes, J.P. 2.593
Lopes, L.V. 590, 832, 2.262, 2.488
Lopes, M.J.P. 352, 1.335, 2.478
Lopes, S. 513
Lopes-Aguiar, C. 2.230
Lopes-dos-Santos, V. 592, 990
Lopez Alvarez, V. 3.820
López Arnau, R. 1.557
López- Ávalos, M.D. 953
López Hill, M.X. 3.967
López Rodríguez, A.B. 1.063
López Serrano, C. 1.528
Lopez, D. 1.635
López, D. 1.749
López, D.E. 1.651
López, E.M. 2.053
López, J.C. 2.842
López, J.M. 176, 1.352
Lopez, K.J.V. 608
López, L. 3.362
Lopez, P. 326
López-Alburquerque, J.T. 1.651
Lopez-Arnau, R. 3.956
Lopez-Atalaya, J. 3.938
Lopez-Atalaya, J.P. 45
López-Ávalos, M.D. 954, 1.299
Lopez-Bayghen, E. 3.501
López-Bendito, G. 1.317, 3.447, 3.532
López-Costa, J.J. 2.053
López-Cruz, L. 3.966
López-Doménech, G. 3.223
López-Gallardo, M. 238, 2.846
López-González, M. 3.869
López-González, M.V. 3.866
López-Larrubia, P. 1.535
Lopez-Lopez, A. 2.046
Lòpez-Mascaraque, L. 1.294, 1.300
Lopez-Pigozzi, D. 2.559
Lopez-Rodriguez, A.B. 3.329
López-Sendon, J. 2.603
López-Vales, R. 3.730
Loquet, G. 493
Lorenc-Koci, E. 1.990, 1.991
Lorente-Canovas, B. 178
Lorentzen, J. 2.788
Lorenz-Depiereux, B. 2.597
Lorenzetto, E. 3.645
Lorenzini, L. 874, 1.443
Lorenzon, P. 1.351
Loreth, D. 2.440
Loreto, C. 2.790
Lorincz, A. 1.363
Loriol.C, L.C. 481, 1.377
Loseva, E. 2.185, 3.368
Losi, G. 3.054
Lösing, P. 3.751
Losonczy, A. 1.219
Lossi, L. 866
Losurdo, M. 2.112
Lotfi, A. 217
Lott, I. 1.964
Lottem, E. 2.905
LoTurco, J. 2.904
Lotze, M. 1.719
Loudon, A. 3.610
Louilot, A. 3.183
Loureiro-Chaves, R.F. 2.164
Louros, S. 1.399
Lovecchio, S. 947
Lovinger, D. 2.371
Lovisolo, D. 3.988
Lovric, M. 3.821
Low, V.F. 2.949
Lowe, S. 2.135
Löwel, S. 509, 2.146, 2.744
Lowet, E. 1.794
Lowry, C.A. 3.955
Loy, K. 258
Loyens, E. 384
Lozano Pérez, A. 2.031
Lozano, D. 176, 1.352
Lozano, L. 1.769, 3.410
Lu, C. 1.185
Lu, G. 2.273
Lu, L. 151, 1.124, 1.720
Lu, W.C. 2.771
Lu¨scher, C. 3.016
Lubec, G. 1.525
Luboya, O. 2.765
Lucas, R.J. 1.621, 2.147
Lucassen, P. 3.640
Lucassen, P.J. 704, 1.955, 2.109, 2.931
Luccarini, I. 1.448
Luccarrini, P. 2.695
Lucchesi, W. 3.211
Lucchi, C. 3.752
Lucchiari, C. 3.911
Luchetti, A. 2.798, 3.394
Luciano Freitas Felicio, F. 1.638
Lucini, V. 3.326
Ludolph, A.C. 1.969, 2.613
Ludwig, A. 761
Luhmann, H. 1.282, 3.069
Luhmann, H.J. 3.842
Luhmann, H.L. 3.538
Lui, J. 1.190
Luin, S. 2.487
Luis Carretié, L. 571
Lujan, R. 1.356, 2.958, 220, 1.357, 1.359, 3.026
Lukacova, K. 2.467
Lukacova, N. 2.651
Lukacs, P. 1.867
Lukácsi, E. 3.280
Lukander, J. 1.091, 3.894
Lukas, J. 2.649
Lukasiewicz, K. 2.274
Lukasiuk, K. 376, 3.099
Lukic, L. 2.433
Lukkes, J. 3.346
Lukoyanov, N. 3.097, 3.753
Lukoyanov, N.V. 3.761
Luksys, G. 1.700
Lukyanets, I. 892
Lukyanetz, E. 2.594
Lukyanetz, E.A. 892, 1.354
Lummis, S.C.R. 2.624
Lundkvist, J. 1.959
Lundt, A. 1.017
Lunetta, C. 849, 3.744
Lunghi, C. 2.136
Lunghi, M. 322
Luo, J. 2.649
Luo, L. 1.302
Luo, W. 1.836, 3.839, 3.853
Luongo, L. 552, 3.156
Luoni, A. 2.096, 2.688
Lupi, R. 880
Lupo, G. 1.632
Luppi, M. 1.601, 3.873
Luppi, P.H. 1.334, 2.816
Luppino, G. 3.805
Luptakova, L. 700
Luque, E. 2.026
Luque, N. 531
Luque, N.R. 542
Luquet, E. 1.383
Luquín de Anda, S. 886
Luquin, M.R. 190
Luscher, C. 3.401, 72, 2.724, 2.732, 3.402
Lushnikov, O. 1.712
Lusic, L. 2.821
Lütcke, H. 1.004, 2.167
Lutgarde, L. 2.741
Luthi, A. 3.484, 731, 732, 794, 1.073, 1.074, 1.140, 1.845, 1.928, 3.392
Lüttjohann, A. 1.860
Lutz, B. 228, 231, 945, 1.265, 2.734
Lutz, T. 3.315
Luvisetto, S. 3.822
Luz, L.L. 3.282
Luzzati, F. 187, 188
Lyngholm, D. 2.312
Lyons, D.J. 3.302
Lysakowski, A. 1.602
Lysakowski, C. 667
Lyst, M. 3.453
Mª Elena, C. 1.583
Mª Teresa, C. 2.267
Mª Trinidad, H. 1.749
Ma, C.W. 777, 1.603, 2.454
Ma, J. 827
Ma, S. 2.292
Ma, S.X. 2.080
Ma, T. 136
Maak, P. 1.220, 1.336, 1.337
Maatouk, L. 3.070
Määttä, J. 2.763
Mac Laren, R. 2.341
Macabuag, N. 2.995
MacArthur Clark, J. 165
Macartney-Coxson, D. 976
Maccari, S. 3.884
Maccarinelli, G. 864
Maccario, R. 361
Maccarrone, M. 224, 554
Macchi, F. 3.770
Maccione, A. 1.170, 1.171, 1.172, 2.564
Macco, R. 1.814
MacDonald, C.L. 3.153
Machado Lemos Rodrigues, M. 495
Machado, A. 2.582, 3.286
Machado, N. 3.395
Machado, N.J. 3.019
Machado, P. 666
Macharadze, T. 661
Macias-Gómez, A. 911
Macías-Sánchez, A.J. 194
Maciel, I.S. 1.543
Mack, T. 1.387
Macklin, J.L. 1.779
Mackowiak, M. 436, 3.180
Maclair, G. 666
MacNeilage, P. 1.599
Macrez, N. 2.263
Macrì, S. 986
Macuchova, E. 2.075, 2.076, 2.078, 2.077
Macut, D. 1.486
MacVicar, B. 3.418
Madarász, E. 1.298
Madarász, M. 1.336, 1.337
Madari, A. 318
Madeira, J.M. 1.441
Madej, H. 3.981
Madeja, M. 3.564
Madeo, G. 1.044
Madrid, R. 2.989, 3.823
Maeda, K. 3.806
Maffei, L. 565, 3.533
Maffei, M. 565
Magagnotti, C. 724
Magalon, G. 2.777
Maga-Nteve, C. 660
Magara, J. 1.656
Magara, S. 3.597
Magazanik, L. 2.502
Magee, J. 3.844
Maggi, A. 313, 3.414, 3.415
Maggi, L. 411, 3.025
Maggi, R. 2.173

Maggi, S. 2.807, 3.729
Maggio, N. 2.055, 2.522, 3.583
Magill, P. 1.272
Magill, P.J. 2.867
Magistretti, J. 1.865
Magistretti, P. 647, 2.359, 2.869
Magistretti, P.J. 296, 314, 1.541, 1.582, 1.592
Maglakelidze, N. 2.097, 2.100
Maglóczky, Z. 2.838
Magnaghi, V. 299
Magnuski, M. 1.089, 3.924
Magotti, P. 3.027
Magrashi, A. 860
Magri, L. 2.650
Magrinelli, E. 1.288, 2.960
Maguire, J. 3.104
Magura, I.S. 1.354
Mahadevan, V. 764, 765
Maher, T.J. 608
Mahesh, R. 2.681
Mahley, R.W. 1.432
Mahmood, S. 1.563
Mahmoudi, S. 3.705
Mahmud, M. 2.307
Mahy, N. 2.046
Mai, J.K. 1.792
Maia, G. 3.753
Maia, G.H. 3.097, 3.761
Maier, N. 3.632
Maier, S.F. 1.152
Maier, S.K. 3.762
Maillard, J. 667
Mainardi, M. 565
Mainen, Z. 2.905
Mainen, Z.F. 2.899
Mainetti, M. 2.214
Maingret, V. 3.031
Mainiero, F. 411
Mainolfi, P. 722, 729
Maio, G.R. 1.107
Maioli, S. 1.959
Maione, S. 552
Maiorano, N.A. 2.367
Mair, N. 517
Mairesse, J. 3.884
Maisak, M. 3.807
Maitre, M. 3.638, 3.215
Maja Puchades, M. 3.066
Majcher-Maslanka, I. 2.797, 3.883
Majdic, G. 3.881
Majerova, P. 323
Majka, P. 669
Majkutewicz, I. 3.324
Majtanik, M. 1.792
Makara, J. 1.236
Makara, J.K. 1.779
Makarov, V. 3.441, 3.932
Makarov, V.A. 2.565, 2.566
Makarova, J. 2.566
Makhloufi, Y. 3.183
Mäkinen, M. 770
Makinodan, M. 3.184
Makoukji, J. 2.013
Makowiecki, K. 797
Makridakis, M. 1.678
Malagon, H. 603, 606
Malagon-Viña, H. 602
Malchow, S. 1.825
Maldonado, P.E. 2.245
Maldonado, P.P. 3.061
Maldonado, R. 1.763
Maldonado-Aviles, J. 1.590
Maldonado-Aviles, J.G. 1.591
Malecki, A. 3.306
Maleevic, M. 3.735
Malek, M. 1.535
Malenka, R.C. 2.295
Malerba, F. 1.446
Malerbi, M. 3.071, 3.079
Maletic-Savatic, M. 129
Malet-Martino, M. 385
Malgaroli, A.377, 1.380, 1.420, 2.108, 2.139, 3.030, 3.106, 3.504
Malgrange, B. 2.969
Malieieva, G. 2.516
Maliepaard, E.M. 3.509
Malik, V. A. 293
Malina, D. 339
Malinina, E. 248
Malinova, M. 2.075, 2.076, 2.077
Malinovskaya, N.A. 1.743
Malkin, S. 2.502
Mallei, A. 2.671, 2.696, 3.778
Malleret, G. 3.053
Mallick, H.N. 3.874
Mallol, J. 721, 2.980
Mallucci, G. 1.465
Malm, T. 890, 3.126
Malmierca, M.S. 992
Malone, D.T. 226, 227
Malpeli, G. 400
Malpezzi-Marinho, E. 2.713
Malpighi, C. 981, 2.069, 2.712
Malsch, P. 514
Maltese, M. 1.044
Malykhin, N. 2.300
Malyshev, A. 1.597, 2.904
Mambretti, E. 515
Mameli, M. 3.034, 3.584
Mammel, B. 1.630
Mammì, A. 2.199
Manago, F. 2.968, 2.239
Manahan-Vaughan, D. 444, 1.409, 1.958, 3.017, 3.042, 3.363, 3.595, 3.596, 3.648
Manahan-Vaughan, D.M.V. 2.019
Manatos, V. 3.880
Manchenko, D. 2.637
Manchester associated collaborators 3.610
Mancini, A. 404
Mancini, M. 1.364
mancini, R. 1.395
Mancuso, R. 2.626, 3.730
Manders, E.M. 3.588
Mandic, D. 695
Mandillo, S. 3.729
Mandolesi, G. 949, 2.009, 3.297
Manera, V. 3.190
Manes, F. 573
Mangano, C. 874, 2.569
Mangia, F. 1.804, 2.573
Mangiarotti, F. 3.977
Mangin, J.M. 685
Mangione, A.S. 361
Mangoura, D. 225
Maniaci, G. 977, 980
Manich, G. 3.641
Manière, M. 1.062
Maniezzi, C. 804
Manita, S. 3.832
Manjarrez, E. 3.856
Mankin, E. 2.242
Mann, F. 869, 1.312
Mannaioni, G. 1.647, 1.878, 2.044, 2.068
Mannheimer, C. 3.162
Manning, E. 3.185
Manning, M. 3.543
Mannoury la Cour, C. 2.450
Manocchio, L. 3.572
Mansilla, F. 1.693
Mansor, S.M. 1.735
Mansour pour, K. 1.750
Mansuy, I. 1.266
Mansvelder, H.D. 2.509
Mantegazza, R. 846
Mantegazza, M. 381, 383, 1.869, 1.872, 2.001, 3.218, 3.762
Mantovani, M. 3.014
Manuel Alejandro, N. 3.396
Manuel, S. 1.369
Manzini, M. 3.212
Manzoni, O. 3.724
Mao, D. 3.266
Maor, R. 1.402
Mapelli, J. 534, 3.850
Mapelli, L. 535, 536, 3.082, 3.214
Marabeti, M. 2.607
Maragliano, L. 2.293, 2.469, 2.533
Maranesi, M. 2.344
Maraschi, A. 1.458, 3.082
Marasco, A. 2.301
Maravita, A. 3.890
Marcantoni, A. 3.642
Marcatili, M. 433
Marceglia, S. 2.919
Marcellino, D. 3.195
Marcello, E. 742, 1.447, 2.591, 3.660, 3.666
Marchaland, Y. 3.647
Marchalant, Y. 1.943
Marchand, A. 1.751
Marchand, C. 1.175
Marchenkova, A. 3.824
Marchese, E. 1.530
Marchetti, C. 3.649
Marchetti, L. 2.487
Marchetti, N. 238, 239, 938
Marchetti, P. 3.745
Marchi, P. 276
Marchioretto, M. 842
Marchisella, F. 2.065
Marciniak, S. 471
Marco, E. 2.846
Marco, E.M. 238
Marcocci, M.E. 3.644
Marco-Contelles, J. 1.455
Marcoli, M. 855
Marcon, I. 3.054
Marcos, P. 1.693
Marcourakis, T. 2.208, 3.044
Marcuzzo, S. 846, 2.640
Marek, R. 3.626
Marek, T. 2.751, 2.754
Marengo, B. 644
Mares, J. 1.686
Marfull, P. 179
Margalef, R. 372
Margarity, M. 660, 930, 931, 1.531
Margolis, D.J. 3.831
Margrie, T.W. 17, 21
Mariani, A. 1.515
Maric, N. 3.775
Marie, H. 3.642
Marighetto, A. 583, 584, 3.495
Marin, F. 178, 3.534
Marin, M. 1.701
Marin, O. 1.925, 3.233, 2.930
Marin, P. 1.853, 2.450
Marinaro, F. 2.961
Marinas, A. 129
Marinelli, C. 1.558
Marinelli, S. 1.844, 3.058, 3.822
Marinesco, S. 1.677
Marinho, E. 2.713
Marini, D. 1.083
Marini, F. 3.890
Marino, C. 3.261
Marino, R.A.M. 235
Marinovich, M. 239, 938
Marín-Teva, J.L. 1.326
Marion-Poll, L. 1.039, 3.432, 3.584
Mariot, A. 553
Mariotti, C. 2.154, 2.155

Mariotti, L. 3.054
Mariotti, M. 1.505, 2.920, 3.604
Mariotti, R. 845
Maris, E. 810, 811
Maritaz, C. 3.075
Marjanovic, J. 1.305
Markert, A. 2.734
Markes, N.O. 3.339
Markevich, V. 1.956, 3.028
Markevich, V.A. 3.020, 3.021
Markó, B. 430, 2.584
Markostamou, I. 3.887
Markovic, D. 406
Markram, H. 282
Marks, M. 1.857, 1.863
Marmigère, F. 1.325
Marmo, F. 3.202
Maroli, A. 1.861
Marom, S. 287, 2.381
Marosova-Levarska, L. 324
Maroto, M. 853
Marotta, A. 1.099
Marotta, R. 830
Marouillat, S. 462, 3.746
Maroun, M. 1.330
Marquardt, T. 66
Marques Jr, W. 368
Marques, C.V. 1.533
Marques, F. 306, 1.725
Marques, J.M. 2.045
Marques, J.T. 1.466
Marques, M.R. 2.640
Marques, O. 838
Marques-Smith, A. 2.312
Marqueste, T. 2.777
Marqués-Torrejón, M.A. 2.956
Marquet, P. 1.541
Márquez, I. 626
Márquez-Ruiz, J. 1.173
Marret, S. 2.635
Marrocco, J. 3.884
Marrone, L. 2.065
Marrone, M.C. 3.058
Marsala, M. 2.651
Marsala, S. 2.651
Marschallinger, J. 2.996
Marshall, V. 2.062
Marsicano, G. 231
Marston, H. 333
Marszalek, M. 2.270
Marta, G. 2.962
Marte, A. 341, 825, 2.536
Martel, G. 3.372
Martella, G. 1.044
Martemyanov, K. 1.359
Martens, G.J.M. 214, 215, 3.039
Marti, A. 2.874
Marti, F.M. 3.798
Martín Oliva, F. 1.326
Martín Vázquez, G. 2.567
Martin, A. 1.764, 907, 1.583
Martin, C. 3.464, 3.227
MArtin, E.D. 3.048
Martin, F.H. 2.137
Martin, J.H. 3.853
Martin, J.L. 1.293
Martin, K. 1.713, 2.321
Martin, K.A.C. 20, 2.736, 3.608, 3.634
Martín, M. 220
Martin, S. 3.936
Martin, Y.B. 1.035
Martin.S, M.S. 1.377
Martineau, M. 3.577
Martinelli Boneschi, F. 1.821
Martín-Estebané, M. 1.326
Martinez Clemente, J. 3.956, 1.557
Martínez de Lagrán, M. 2.638
Martinez De Lizarrondo, S. 1.736
Martínez Muriana, A. 3.730
Martinez, A. 2.626
Martínez, A.D. 1.371
Martinez, E. 3.997
Martínez, F. 2.187, 2.965
Martinez, F.G. 2.164
Martinez, M.C. 3.971
Martínez, S. 688
Martínez-Camero, I. 3.834
Martinez-Garay, I. 253
Martinez-Hernandez, E. 3.557
Martínez-Hernández, J. 1.892
Martinez-Lozada, Z. 2.978, 1.340, 1.343
Martinez-Marcos, A. 3.688
Martinez-Martos, J. 418
Martinez-Martos, J.M. 407, 423
Martínez-Murillo, R. 1.455
Martinez-Serrano, A. 3.700
Martinez-Vazquez, P. 3.808
Martin-Fardon, R. 2.070
Martín-Guerrero, S.M. 1.326
Martini, R. 363
Martí-Nicolovius, M. 589, 3.939
Martino, A. 1.764
Martinoia, S. 664, 1.180, 3.983, 4.006
Martinoli, M.G. 2.043
Martins, S. 2.853, 3.909
Martins-da-Silva, J. 3.312
Martín-Vázquez, G. 2.565
Márton, G. 2.302, 2.782
Martoncikova, M. 2.940, 3.248
Martorana, F. 3.741
Martynhak, B. 2.687
Martynova, O. 962, 1.497
Maruelli, S. 2.627
Marusak, H. 1.713
Marusic, P. 3.093
Marzano, N. 2.198
Marzban, H. 687
Marzi, C. 3.267
Marzi, C.A. 499
Marzo, C.M. 2.718
Marzorati, E. 2.678
Marzullo, G. 2.639
Masamizu, Y. 648
Masana, M. 2.680
Mascheretti, S. 3.261
Maschietto, M. 1.031
Mascioli, G. 989
Masdeu, M.M. 2.442
Masgrau, R. 3.073
Mashall, P. 1.988
Masi, A. 1.647, 1.878, 2.044
Masich, S. 2.982
Masini, D. 2.847
Maskos, U. 1.763
Masliah, E. 337, 831, 838, 1.975, 1.999
Maslov, V. 1.930
Maslova, M. 877, 2.818
Maslova, M.V. 1.644
Mas-Nieto, M. 1.758
Masoli, S. 539, 3.287
Mason, C.A. 157, 1.316, 2.364
Mason, R. 1.153, 1.154, 1.465, 2.912, 3.957
Masotti, A. 671
Masoumi, M. 3.696
Massa, V. 681
Massaad, C. 2.013
Massacesi, M. 1.400
Massana, M. 1.674
Massart, R. 2.096
Massé, I. 488, 1.604
Masse, M. 2.288
Masserdotti, G. 1.296
Massey, P.V. 2.499
Massieu, L. 893
Massignan, T. 849
Massimini, M. 286, 1.427, 1.505, 2.920, 3.604
Massimino, L. 2.963
Massobrio, P. 664, 3.983, 4.006
Massobrio, P. 4.006
Mastorci, F. 1.079
Mastroberardino, P.G. 816, 1.994, 3.706
Mastrodonato, A. 2.848, 3.947
Mastropasqua, T. 2.820
Mataradze, S. 2.849
Matarazzo, V. 3.221
Matarredona, E.R. 2.057, 3.037
Máté, Z. 448
Matheus, F.C. 2.726
Mathis, C. 2.874
Matia-González, A.M. 1.326
Matias, C.M. 1.885, 2.524
Matias, S. 2.905
Matiasová, A. 1.818
Matiasova, M. 3.117
Matosin, N. 3.186
Matsokis, N. 355, 356, 357, 1.333, 1.997, 2.986
Matsubara, C. 3.832
Matsuda, M. 518
Matsui, K. 2.528
Matsui, R. 2.664
Matsuki, N. 506, 1.158, 1.159, 3.038
Matsumoto, E. 3.891
Matsumoto, N. 506
Matsumoto, T. 3.832
Matsunaga, A. 2.828, 4.005
Matsuo, Y. 2.098
Matsushima, Y. 210
Matsuzaki, M. 648, 3.294
Matsuzaki, Y. 2.287
Matsuzawa, T. 1.795, 3.413
Mattavelli, G. 1.505, 1.715
Mattei, C. 1.051
Mattei, E. 316
Matteoli, M.
224, 319, 425, 457, 458, 1.231, 1.390, 1.438, 1.889, 1.905, 2.008, 2.526, 2.535, 3.012, 3.014
Mattera, A. 1.800
Matteucci, C. 464
Matthaeus, F. 1.809, 2.099
Matthew, H. 1.754
Mattis, V. 1.467
Mattsson, B. 714
Mattugini, N. 1.815
Matuszak, I. 3.148
Matuszek, Z. 2.274
Matute, C. 129, 907
Mátyás, F. 3.847
Matyja, E. 422, 424
Matyus, P. 3.086
Maubert, E. 1.736
Mauceri, D. 1.903
Maucler, C. 869
Mauconduit, F. 869
Maura, G. 855
Maurer, V. 3.391, 3.942
Mauri, P. 3.892
Maurice, N. 3.072
Maurice, P. 1.617
Maurin, H. 3.640
Mavel, S. 468
Mavridis, T. 2.092, 2.675
May, V.E.L. 831
Mayas, M.D. 418, 423
Mayer, B. 1.674, 2.613
Mayer, S. 3.553
Mayerl, S. 3.503
Mayoral, O. 372
Mayordomo, J. 3.661
Mayorova, L. 962, 1.497
Maywood, E. 3.610
Mazan, S. 2.456

Mazaud, D. 3.723
Mazdencioglu, D. 3.518
Mazet, B. 1.640
Mazuel, L. 3.055
Mazza, V. 2.204
Mazzanti, M. 421
Mazzaro, N. 325
Mazzeschi, C. 432
Mazzi, C. 3.268
Mazzini, L. 2.620
Mazziotti, R. 1.327, 3.456
Mazzitelli, S. 1.438
Mazzo, F. 1.855
Mazzola, G. 3.202
Mazzoleni, S. 420, 1.261
Mazzone, G.l. 2.660
Mazzone, P. 1.051
Mazzone, S.B. 3.871
Mazzoni, E. 1.240
Mazzucchi, A. 3.144
McCamphill, P. 3.598
McCarthy, A. 2.814
McCarthy, A.P. 2.809
McCleery, J. 1.706
McCormick, P.J. 721, 2.980
McCulloch, J. 2.585
McCulloch, M.C. 2.585
McDearmid, J.R. 686
McDonagh, S.G. 3.337
McDougall, S.J. 2.292
Mcgarrity, S. 3.957
McGee, S. 1.474
McGee, T.P. 245
McGillicuddy, L. 1.770
McGinnity, M. 666
McGovern, A. 3.871
McGuffin, L.J. 3.211
Mchedlidze, O. 2.097, 2.100
McHugh, S.B. 3.371
McHugh, T. 2.335
McHugh, T.J. 2.330
McIlroy, A. 3.903
McIntosh, J.M. 1.858
McKain, K. 345
McKlveen, J. 2.186
McLaughlin, R. 1.666
McLean, D. 93
McLean, D.L. 3.851
McMahon, C. 827
McMahon, J. 1.534
McNamara, C. 2.234
McNaughton, B. 3.266
Meana, J.J. 658
Meaney, M.J. 1.934
Mechawar, N. 2.571
Mechírová, E. 3.118, 3.119
Mechtersheimer, J. 1.576
Medberry, C. 2.665
Medeiros, D. 3.757
Medeiros, D.C. 234
Medeiros, I. 2.684
Medina, A.C. 2.861
Medina, C. 3.215
Medina, F.J. 2.026
Medina, H.J. 3.387
Medina, I. 761, 3.523, 3.562
Medina, J.H. 1.156, 2.879, 3.364
Medina, J.M. 412, 413, 414, 2.579
Medina, M. 3.007
Medina-Ceja, L. 3.098
Medina-Luque, J. 3.783
Medini, P. 325
Medintz, I. 1.779
Medrihan, L. 713, 1.450, 2.463, 3.592
Medvedev, A. 2.303
Meehan, C.F. 2.785
Meelis, W. 2.190
Meerhoff, G.F. 1.955, 3.386
Meerlo, P. 1.208, 2.265
Meffre, D. 2.013
Megighian, A. 2.532
Megyeri, K. 430
Mehta, M. 149
Mei, Q. 1.537
Meier, B.M. 3.825
Meier, J. 406, 1.889
Meier, J.C. 2.519, 2.522
Meier, M. 2.761, 3.269
Meijer, O.C. 2.190
Meiller, A. 1.677
Meineke, B.M. 3.518
Meintjes, E. 1.111
Meireles, A. 2.640
Meiri, N. 2.183
Meisel, A. 1.983
Meister, P. 1.998
Meixner, H. 838, 3.074
Mela, V. 1.063, 3.329
Melachroinou, K. 3.073
Melani, A. 889, 3.115
Melani, R. 1.139, 3.012
Melcangi, R.C. 2.017, 2.047
Meldolesi, J. 167
Mele, A. 2.221, 2.225, 2.259, 3.354
Mele, M. 902
Mele, P. 563, 1.748, 2.850
Melentiev, P. 371
Meletis, K. 2.230, 3.635
Meletti, S. 2.002
Melfi, S. 299
Melis, M. 969
Melis, T. 1.498, 2.772, 2.773, 3.828
Melissa, P. 3.879
Melki, R. 3.698
Mella, R. 3.420
Mella, R.m. 2.290
Mellai, M. 1.475
Mello, L.E. 2.066
Mello, T. 2.044
Mellone, M. 2.503
Melnick, I. 1.473
Melnik, A. 1.605
Melnikova, T. 1.967
Melon, C. 1.342
Melone, M. 3.578, 3.731
Melo-Paz, R. 303
Melo-Thomas, L. 1.018
Melzer, N. 2.016
Memi, F. 2.173
Memic, F. 3.853
Memo, M. 864
Mena, A. 2.842, 3.187
Mena, M.A. 2.603
Mena, W. 3.627
Menabde, K. 2.184
Menaker, N. 3.568
Menal, M.J. 208
Menardy, F. 528, 1.006
Mena-Segovia, J. 1.045
Mendes, P.J. 1.885, 2.524
Mende-Siedleki, P. 1.098
Mendes-Ribeiro, A.C. 1.503
Mendez Lopez, M. 1.559
Mendez, M. 2.714
Mendez, P. 1.423
Méndez-Couz, M. 2.235
Mendez-Lopez, M. 576
Mendez-Otero, R. 3.157
Mendieta, L. 1.993
Mendizabal-Zubiaga, J. 230
Meneghini, S. 1.839
Meneghini, V. 1.951
Menelaou, E. 3.851
Menendez de la Prida, L. 2.558, 2.559, 1.937, 2.560
Menezes, A.P. 348
Menezes, A.P.F. 349, 359, 360, 2.260
Menezes, N.J.M. 1.974
Meng, Q. 3.610
Menges, S. 3.074
Menghini, D. 2.199
Mengoli, M. 200, 201
Menigoz, A. 3.024
Menini, A. 138
Menna, E. 189, 458, 1.390, 1.889, 1.905, 2.526, 2.535, 3.014
Mennerich, D. 3.416
Mennerick, S. 1.854
Mensah-Nyagan, A.G. 1.440, 3.638
Menshanov, P. 2.795
Menshanov, P.N. 679
Mento, G. 3.897
Menyhárt, Á. 1.499
Menzel, R. 2.278
Meparishvili, M. 1.744
Meraviglia, V. 1.819
Mercado, F. 1.082
Merchán, M.A. 675
Merchieva, S. 2.637
Mercier, M.S. 2.540
Mercuri Nisticó, R. 2.847
Meredith, R. 3.462, 3.465
Merega, E. 367, 2.021, 2.979
Meregalli, C. 3.828
Merelli, I. 3.778
Mergia, E. 1.358
Merighi, A. 866, 3.273
Merigo, F. 2.049
Merletti, R. 856
Merlo Pich, E. 984
Merlo, G.r. 3.216
Merseburg, A. 504
Merson, T.D. 184
Merzhanova, G.K. 3.361
Mesa-Gresa, P. 3.379
Mescam, M. 1.968
Mescola, A. 818
Mesentier-Louro, L. 3.157
Mesquita, S.D. 1.725
Messaoudi, B. 1.734
Messina, A. 189
Messlinger, K. 2.481
Messner, S. 1.252
Mészár, Z. 1.318, 2.941
Metelli, G. 657
Mett, C. 3.232
Metzger, C. 1.585
Meucci, S. 922
Meuli, R. 1.966
Meunier, N. 3.250
Meurs, E. 1.965
Meuth, P. 1.482, 3.816
Meuth, S.G.1.482, 1.860, 2.014, 2.016, 2.774, 3.816
Mey, J. 2.658
Meye, F.J. 3.584
Meyer zu Reckendorf, C. 654
Meyer, C.W. 551
Meyer, E. 1.845
Meyer, F. 3.183
Meyer, N. 827
Meyer, U. 3.230
Meyer-Lindenberg, A. 1.809, 2.389, 2.508
Meylan, E.M. 1.582
Meyza, K. 3.208, 3.226, 3.236
Meza, E. 2.806
Meziane, H. 3.221
Mezzera, C. 3.532
Miao, C. 1.125
Miazga, K. 2.782
Micale, V. 3.779
Miceli, F. 1.365
Micera, S. 916, 1.181

Michaelevski, I. 3.585
Michaelsen-Preusse, K. 1.904, 1.913
Michael-Titus, A.T. 1.517, 2.655, 2.657, 2.668, 3.160
Michalak, A. 2.249
Michalakis, S. 1.637
Michaloudi, H. 185
Michalska, A. 1.484
Michaluk, J. 1.572, 2.686, 3.782
Michaux, A. 2.296
Micheau, J. 3.940
Michel, C. 667
Michel, C.M. 673
Michel, P. 1.554, 3.075
Michel, P.P. 354, 2.032
Michel, U. 839, 1.518, 3.178
Micheli, L. 1.800, 2.942
Michetti, C. 3.213
Michetti, F. 1.530
Michiels, J. 2.892
Michon, F. 1.734
Michotte, Y. 384
Micieli, G. 3.423
Micioni Di Bonaventura, M. 554, 2.715
Micklem, B.R. 2.552
Mico, J.A. 2.769, 2.770
Micotti, E. 1.970, 1.973
Middei, S. 3.662, 3.946
Middelman, A. 214, 1.580
Mieda, M. 2.811, 3.383
Mierau, S.B. 2.641
Miesch, M. 1.440
Miesenböck, G. 109
Migliore, M. 613, 2.301, 3.243
Mignogna, M. 3.214
Miguel, A. 1.535
Miguelez, C. 3.049
Mihai Ionescu, M.I. 1.502
Mihalik, B. 2.584, 3.555
Mihaljevic, M. 3.775
Mijakowska, Z. 2.716
Mijatovic, J. 1.988
Mike, A. 1.873
Mikeladze, D.G. 4.002
Mikhaylova, M. 721, 1.163
Mikite, K. 3.056
Mikkelsen, G.K. 3.419
Miklitz, C. 3.101
Mikó-Baráth, E. 3.263
Mikolajczak, P. 3.554
Mikoshiba, K. 305
Mikosz, M. 3.384
Mikulecka, A. 3.754
Mikulskaya, E. 2.137
Mikuni, M. 3.205
Mikuni, T.M. 1.838
Milad, M. 1.701
Milanese, C. 1.994, 3.706
Milanese, M. 850, 2.108, 3.731
Milanesi, L. 3.778
Milanesi, R. 2.004
Milani, P. 854, 2.608
Milanowski, P. 2.148
Mildner, M. 1.525
Miles, R. 290, 380, 1.933
Miletic, G. 3.825
Miletic, V. 3.825
Milia, C. 3.937
Milicevic, T. 3.122
Milior, G. 3.025
Milioto, C. 3.736
Millan, J.L. 385
Millan, M.J. 984, 985, 1.165, 2.450, 3.686
Miller, A. 2.835
Miller, C.C. 3.743
Miller, C.J. 3.077
Miller, M 2,411
Millian, L. 1.651
Millón Peñuela, C. 3.397
Millon, C. 3.396
Millot, J.L. 1.703
Mills, F. 1.213
Millward, J. 1.983
Milne, J.L. 1.614
Milner, E. 3.153
Milot-Rousseau, P. 1.459
Min, K.W. 2.431
Min, M. 1.843, 1.852
Min, R. 3.060
Min, S. 2.685, 3.136
Minamisawa, G. 506
Miñano-Molina, A.J. 896, 3.651
Minato, K. 702, 705
Minciacchi, D. 2.156, 3.738
Mincic, A. 3.398
Minge, D. 3.027
Minghetti, L. 395, 396, 397
Miniussi, C. 3.892
Minlebaev, M. 3.529
Minoshima, W. 1.684, 2.298
Mione, V. 1.721, 1.722, 2.168
Miracca, G. 2.192
Miralles Socías, A. 2.255
Miralles, A. 2.254, 2.256
Miralles, M. 2.254
Miranda, H.V. 832
Miranda, J.G.V. 2.158
Miranda, M. 934, 2.059
Miranda, R.D. 1.432
Mirandola, L. 2.002
Mirica, S. 1.688
Mirjana, C. 729
Mironov, A. 3.027
Mironova, V. 1.064, 3.755
Mirzaei, M. 988
Misery, P. 1.609
Mishor, E. 1.197
Mishra, D. 2.709
Miska, E. 2.430
Missale, C. 2.480, 3.083, 3.092
Missler, M. 3.001, 3.012
Miszczuk, D. 3.099
Mitchell, D. 3.530
Mitchell, D.E. 502
Mitic, M. 3.775
Mitro, N. 742, 938, 2.017
Mitroshina, E. 229, 2.497
Mitrosina, E. 3.600
Mitrukhina, O. 3.529
Mitsacos, A. 232, 233, 3.714
Mitsios, N. 182, 3.430, 3.433
Mitsis, G.D. 1.794
Mitsushima, D. 743
Mittmann, T. 3.059, 3.154, 3.622
Miura, Y. 1.158
Miwa, H. 3.205
Mix, E. 351
Miyachi, E. 3.244
Miyakawa, T. 3.383
Miyake, K. 2.287
Miyamoto, T. 1.058, 1.059
Miyata, M. 3.531
Miyawaki, A. 1.781
Miyazaki, T. 1.834, 3.294
Mizoguchi, H. 2.717
Mizuno, H. 1.836, 3.839
Mizuno, K. 137, 795
Mizuno, M. 3.188
Mizuno, Y. 2.759, 3.732
Mizunuma, M. 3.038
Mkhitaryan, A. 1.456
Mkrtchyan, G. 877
Mlinac, K. 1.932
Mo, J. 1.411
Mocaër, E. 3.884
Mochida, S. 1.370
Mochol, G. 3.605
Möck, M. 3.841
Mockett, B. 2.504
Mockett, B.G. 1.396
Modena, D. 823
Modol Vidal, L. 3.826
Modol, L. 3.820, 2.626
Moe, J.G. 326
Moen, S. 2.971
Moerel, M. 2.118, 3.472
Moestrup, S.K. 3.087
Mogavero, J.N. 3.319
Mogil, J.S. 3.830
Mohamed Khairuddin, M. 2.697
Mohammad Abdellatif, S. 2.851
Mohammadi, S. 3.975
Mohanty, A. 1.870
Mohar, B. 3.840
Mohr, E. 1.875
Möhrlen, F. 3.241
Mohrmann, R. 250
Moiseeva, Y. 1.060, 1.954
Mol, I.M. 2.190
Molchanova, S. 2.517
Moldavski, A. 2.505
Moldovan, M. 363, 918, 1.502, 1.507, 1.688, 2.022, 2.785
Molese Lopez, X. 3.435
Molina, F. 956
Molina, L. 956
Molinari, A. 420, 1.261
Molinari, M.A. 1.691
Molinari, M.L. 242
Molinaro, P. 894, 767
Molinet Dronda, F. 1.995
Molino, Y. 1.943
Molla, G. 3.194
Mollard, P. 1.764
Möller, H.J. 443
Molnar, E. 1.945, 2.514
Molnár, G. 3.056
Molnar, T. 3.877
Molnar, Z. 253, 3.446
Molotchnikoff, S. 2.138
Molotkov, D. 1.784, 3.057
Mols, K. 2.306
Molteni, L. 545
Molteni, R. 2.688, 3.770
Momboisse, F. 1.371
Mombrini, M. 849
Momiyama, T. 2.473
Momota, Y. 2.180
Monaco, H.L. 2.037
Moncini, S. 322
Mondin, M. 3.579
Mondini, E. 557
Monfrini, M. 1.560
Moniatte, M. 3.650
Monier, R. 2.725
Monjas, D. 176, 1.352
Mönkkönen, J. 2.763
Monleon, S. 580, 2.852
Monnin, J. 2.725
Mons, N. 584, 3.495
Montag, D. 791
Montagna, M. 2.162
Montalan, B. 2.157
Montalban, E. 1.039, 1.815, 3.432
Montalbano, A. 450
Montanari, R. 2.168
Montaner, J. 890
Montañes, A. 580
Montani, C. 3.227
Montani, L. 1.820
Montcouquiol, M. 3.215

Montecinos, C. 737
Montecinos, H. 2.441
Montefeltro, A. 347
Monteiro, N.N. 3.044
Montelius, L. 2.910
Montelli, S. 1.606
Montemurro, M. 335
Montemurro, M.A. 2.147
Montemurro, T. 1.514
Montenegro, C.M. 2.530
Montenegro-Venegas, C. 791
Monterde, S. 372
Montero Vega, M.T. 2.600
Montesano, G. 2.139
Montgomery, J.M. 1.391, 1.893
Monti, A. 2.204
Monti, R. 3.987
Montigny, F. 468
Montoya, P.J. 2.158
Monyer, H. 193, 1.426
Monzani, E. 476
Monzo, H. 2.642
Moody, W. 2.971
Mook-Jung, I. 2.588
Moon, M.J. 1.664
Moons, L. 950, 2.446
Moore, C.I. 52
Moore, D. 1.769
Moore, D.J. 343
Moore, S. 300
Mor, M. 1.705
Mora, F. 2.704
Mora, G. 849
Morabito, A. 3.058
Moradi, N. 1.959
Morado Díaz, C. 3.037
Moraes, B. 3.373
Moraes, M. 3.757
Moraes, M.F. 234
Morais, L. 1.996
Morais, S.M. 3.081
Morales, J.C. 3.047
Morales, K. 771
Morales, L. 176, 1.352
Morales, P. 900, 3.130
Morales, T. 2.804
Morales-Aristregui, C. 828
Morales-Villagran, A. 3.098
Moran, J. 682
Moran, K. 2.054
Morandell, K. 620
Morande-Sales, E. 668
Morando, S. 2.010
Morano, M. 2.291
Morano, R. 2.186
Moranta, D. 2.256
Morara, S. 2.018
Morari, M. 350, 3.697, 3.711
Moratalla, R. 1.993, 3.694, 3.712
Morato, I.B. 3.690
Morcuende Fernández, S.R. 2.619
Morcuende, S. 2.618, 3.037
Mordillo Mateos, L. 2.202, 3.818
More, J. 332
Morè, L. 1.814
Morea, S. 1.139
Moreau, M. 3.215
Moreira, A.L.G. 352
Moreira, F. 2.707, 3.405
Moreira, F.A. 234
Moreira, P.I. 1.435, 1.454, 2.178
Moreira, T.S. 3.713
Morel, C.M. 3.798
Morel, J. 1.669
Morel, N. 252
Morella, I. 279, 2.065
Morelli, M. 362, 3.408, 3.701, 3.702, 3.703
Morello, G. 221
Morello, M. 3.012
Morello, N. 783, 3.216, 3.224
Morena, M. 1.666
Morenilla-Palao, C. 3.514
Moreno Guillén, E. 2.980
Moreno Juan, V. 3.532
Moreno, B. 3.700
Moreno, E. 721
Moreno, J. 1.465, 1.767
Moreno, M. 771, 2.839
Moreno, M.L. 2.806
Moreno, N. 176, 1.352
Moreno, S. 951, 3.670
Moreno-López, B. 739
Moreno-Sanchez, M. 3.257
Moressis, A. 2.277
Moret, V. 493
Moretti, C. 1.772
Moretti, F. 2.435
Moretti, M. 1.857, 1.863, 2.729
Moretto, E. 2.506
Morgado, A.L. 202
Morgan, A. 2.925
Morgan, B.P. 954
Morgan, F. 666
Mori, A. 3.929
Morin, F. 1.459
Morin, S. 3.049
Morini, M. 3.213
Morini, R. 319, 1.889, 1.905
Morishita, R. 2.964
Morishita, Y. 183
Moritz, C.P. 2.122
Moriyama, Y. 2.050
Morley-Fletcher, S. 3.884
Mormann, F. 636
Moro, A. 645
Moro, F. 987, 2.067, 2.718, 2.722
Morona, R. 176, 1.352
Moroni, F. 1.878, 2.044, 2.068
Moroni, R.F. 213
Morris, C. 1.311
Morris, G. 2.858
Morris, M.J. 1.508, 3.948
Morris, R. 153
Morris, R.G.M. 1.129, 1.130, 1.132
Morrison, A. 670, 2.877
Morrison, H. 3.503
Morrissey, M. 3.941
Morrone, C. 862
Morrone, M.C. 496, 1.319, 2.136, 2.841, 3.260, 3.261, 3.813
Morroni, F. 1.561, 3.138
Mortensen, M. 3.556
Morud, J. 217
Moscardo, E. 3.780
Moscatelli, D. 1.515
Moscato, L. 526
Mosconi, G. 3.310
Moser, A. 255, 256, 257
Moser, E. 1.125
Moser, E.I. 151, 1.123, 1.124
Moser, M. 1.125
Moser, M.B. 151, 1.123, 1.124
Moser, R. 343
Moser, T. 1.003
Mosevitsky, M.I. 3.548
Mosharova, I. 519
Mosienko, V. 2.474
Moss, J. 2.948
Moss, S. 304, 1.849
Mossa, A. 3.217
Moszczynska, A. 1.562
Mota, C. 2.853
Motlik, J. 1.463, 2.651
Motolese, M. 3.780
Motorykina, E. 2.818
Motta, B. 1.920
Motylewski, J. 2.906
Moubarak, R.S. 2.442
Moulin, T. 1.703
Mouly, A. 3.374
Moumné, L. 3.785
Mountford, J. 1.524
Mouras, H. 2.157
Mouravlev, A. 1.391, 1.570
Mourre, C. 815, 3.076
Mourtiz, T. 1.997
Mourtzi, T. 355, 357
Moussa, S. 1.324
Mouthon, F. 2.764
Mouthon, M. 3.150
Moutin, E. 3.008
Moutkine, I. 760, 3.584
Moutkine, I.M. 762
Mouton-Liger, F. 1.965
Movius, A.J. 836
Movshon, T. 2.361
Mozdzen, E. 1.572, 2.686, 3.782
Mozrzymas, J. 780
Mozrzymas, J.W. 3.591
M'rad, R. 2.003
Mrozikiewicz, P.M. 3.554
Mrozkova, P. 3.281, 3.283
Mrsic-Flogel, T. 2.129
Mrsic-Flogel, T.D. 3.601
Mucchietto, V. 1.857
Mucignat, C. 419, 427, 3.338, 3.399, 3.709
Mudannayake, J. 1.570
Mueller, A. 655, 3.403
Mueller, B. 2.198
Mueller, R. 3.189
Mueller, S. 2.475
Muench, D. 3.245
Muenzing, S. 2.040
Mugantseva, E. 1.784
Muhammad, S. 3.125
Muhlert, N. 3.289
Muir, J. 3.223
Mujika, A. 666
Mukendi, R.M. 2.765
Mukhina, I. 229, 1.732, 1.901, 2.497, 3.600
Mukhtarov, M. 3.562
Mulas, G. 1.989
Mulder, J. 182, 3.430, 3.433
Mulert, C. 443, 445
Mulissa Gemechu, J. 1.971
Mulle, C. 261, 264, 1.347, 1.483, 1.888, 2.422, 2.512, 3.031, 3.427
Mulle, G. 2.570
Müller, A. 652, 656
Müller, C. 3, 2.719, 3.101
Müller, C.E. 2.488, 3.966
Muller, C.P. 1.735
Müller, C.S. 754
Muller, D. 1.423, 3.008
Muller, G. 3.385
Müller, J. 31
Müller, K. 2.613
Müller, R. 3.005
Müller, U. 1.953, 2.537
Müller-Dahlhaus, F. 778
Mumby, D.G. 3.322
Munch, A. 1.367
Münch, D. 3.889
Múnera, A. 3.970
Munier, A. 3.432
Munita, R. 2.182
Muniz, M. 1.407
Muñoz, B. 2.515
Muñoz, M. 1.693, 3.321
Muñoz, M.F. 2.582
Muñoz, P. 586, 3.084

Munoz, R. 2.643
Muñoz-Ballester, C. 3.100
Muñoz-Castañeda, R. 2.598
Muñoz-Manchado, A.B. 1.041
Munro, K. 2.854
Munro, K.M. 1.828
Munsch, T. 2.490
Münsterkötter, A. 2.698
Münzner, G. 195, 388
Murach, E. 3.120
Murai, K. 39
Murai, K.K. 2.571
Murakami, T. 507
Muraki, K. 3.203
Murali, R. 2.652
Murana, E. 242, 2.039
Murase, T. 919
Murata, A. 3.806
Murata, K. 518
Murath, P. 2.515
Muratori, A. 419
Muratori, C. 2.915
Muratori, L. 516
Murau, R. 610
Murayama, M. 3.832
Murayama, Y. 2.135
Murillo-Carretero, M. 194
Murin, R. 1.563
Muro, A.F. 937, 939, 3.172
Murph- Aagten, D. 3.234
Murphy, C. 3.942
Murphy, D. 862
Murphy, K. 2.222
Murphy, M. 2.692
Murray, A.J. 3.617
Murray, G.K. 3.914
Murray, H. 2.949
Murru, E. 1.498
Murru, L. 1.382, 3.082, 3.220
Murthy, S. 2.935
Murugaiyah, V. 1.735
Mus, L. 724, 728, 2.463
Musante, I. 3.731
Musardo, S. 1.447, 3.584, 3.660, 3.666
Musazzi, M. 2.108
Muscatelli, F. 3.221
Musella, A. 949, 2.009
Musio, P. 2.863
MUSSO, P. 1.862
Mustapha, O. 1.564
Mustari, M. 2.756
Musumeci, G. 2.906
Muthalib, M. 1.695
Mutinelli, C. 3.571
Mutlu, O. 3.958
Mutombo, V. 2.765
Mutsaers, M.P.C. 649
Muttenthaler, M. 3.543
Mutti, A. 2.720
Muzerelle, A. 121
Muzi, G. 2.620
Myasoedov, N.F. 2.646
Myers, C. 2.227
Myskiw, J. 2.218
Myslinska, D. 3.225, 3.324
Mytilinaios, D. 1.065
Na, Y. 3.827
Nachkebia, N. 2.097, 2.100
Nachman, E. 2.982
Nacsa, K. 3.252
Nadal, L. 254, 1.369, 1.372, 1.373
Nadal-Desbarats, L. 468
Nader, K. 3.373
Nadif Kasri, N. 1.395, 3.039, 3.463, 3.466, 3.509
Nagaeva, E. 733, 2.992
Nagai, M. 3.732
Nagai, T. 305, 2.246
Nagano, T. 3.038
Nagata, K. 2.964
Nagel, D. 1.848
Nagel, G. 108
Nägerl, U.V. 34, 3.064
Nägerl, V.N. 1.929
Nagoshi, E. 1.998
Nagy, A. 1.046, 2.457
Nagy, G. 3.628
Nagy, P. 2.457
Nagy-Grócz, G. 1.646
Nagyova, M. 1.516, 1.519, 2.659
Nagypál, T. 1.046
Nahon, J.L. 561
Nair, R. 1.906
Nait Oumesmar, B. 1.826
Naito, T. 2.140, 3.891
Nakada, T. 3.973
Nakai, J. 305, 648, 3.974
Nakai, T. 2.246
Nakajima, K. 3.806
Nakamoto, M. 702
Nakamura, Y. 304, 1.972, 1.987
Nakanishi, H. 967
Nakashima, S. 3.353
Nakasu, A. 3.417
Nakatanii, C. 3.893
Nakayama, D. 1.159
Nakayama, Y. 2.165, 2.166
Nakazawa, K. 2.759
Nakazawa, T.N. 1.838
Nalepa, I. 1.577, 2.175, 3.323
Nalivaiko, E. 1.601
Nam, S.M. 1.416, 1.918
Namaka, M.P. 2.012
Nambu, A. 1.049
Namiki, K. 1.781
Naneishvili, T. 1.744, 2.849
Naneix, F. 1.756
Naninck, E. 704
Naninck, E.F.G. 2.109
Nanni, M. 2.429, 2.911
Napoli, D. 1.327, 3.456
Napolitani, M. 286, 1.427, 2.920
Nappi, G. 3.817
Narayanan, A. 420, 1.261
Narayanan, V. 1.860
Narayanan, V.E.N.U. 3.575
Nardacci, R. 951
Nardo, G. 843, 849, 3.733
Narducci, R. 1.878, 3.533
Narizzano, M. 663
Narkilahti, S. 197, 770, 1.811, 2.561, 3.062, 3.063
Narmania, N. 4.002
Narvaez, J.A. 3.396, 3.397
Narváez, M. 1.164, 3.397
Nascimento, E.S. 1.610
Nascimento, J.O.G. 1.676
Nasi, S. 1.815
Nasir, H. 1.415
Naskar, S. 867, 2.279
Nasretdinov, A. 1.323
Nassar, M. 1.933
Nassini, R. 1.446
Nat, R. 2.596, 2.599
Nativio, P. 465
Nato, G. 187, 188
Natsume, R. 2.513
Nattie, E.E. 120
Nau, R. 2.015
Naudé, J. 3.620
Naudet, F. 353
Naudin, M. 3.246
Naughton, M. 1.534
Naumann, M. 3.527
Naumann, R. 2.236
Naumenko, V.S. 2.706
Nava, N. 2.108
Navailles, S. 2.880
Nava-Mesa, M.O. 3.663
Navaratnam, V. 1.735
Navarra, M. 3.710
Navarra, P. 417, 1.641
Navarrete, M. 220, 3.048
Navarria, L. 3.092
Navarro -Lobato, I. 585
Navarro, A. 2.861
Navarro, G. 721, 2.980
Navarro, X. 3.820, 911, 915, 916, 1.181, 1.528, 2.626, 3.439, 3.730, 3.826
Navarro-Dueñas, I. 1.299
Navarro-Lopez, J. 3.663
Navarro-López, J.D. 3.661
Navascués, J. 1.326
Nave, K. 3.475
Nave, K.A. 212, 300
Navone, F. 2.621
Nazim, K. 3.581
Nechifor, M. 2.252
Nectow, A. 1.167, 1.168
Necuñir, D. 3.007
Neddens, J. 1.999
Nedelec, E. 555, 564
Nee, G. 591
Neef, A. 1.788
Neefs, M. 2.296
Neff, F. 2.597
Negredo, P. 1.035
Negrello, M. 525, 526, 527, 533, 1.490, 3.293
Neira-Peña, T. 900, 3.130
Neishabouri, A. 1.685
Neitz, A. 3.059, 3.154
Nelke, A. 3.700
Nelken, I. 1.402, 3.470
Nelson, A. 2.855
Nelson, A.J.D. 1.726
Nemes, C. 2.661
Nemes, V. 3.263
Nemeth, A. 1.009
Nemeth, J. 3.877
Nemethova, M. 895, 3.113, 3.117
Nemri, A. 2.129
Nencini, S. 3.862
Neri Gomez, T. 1.138
Neri, F. 678
Neri, T. 2.822
Neri-Gomez, T. 3.959
Nersisyan, S. 1.025
Nesher, E. 2.101, 2.101
Neto, F.L. 2.770
Neto, S. 255, 256
Netto, C.A. 2.780
Netzahualcoyotzi 3.734
Neubauer, F. 3.060
Neuhofer, D. 3.724
Neumaier, F. 2.999
Neumann, I. 3.480
Neumann, I.D. 293, 3.313
Neureither, F. 3.241
Neuser, F. 3.009
Nevalainen, N. 1.988
Nevat, M. 3.334
Neve, R.A. 1.595
Neves, J. 2.268
Neves, J.C.S. 2.260, 3.695
Neves, J.C.S.N. 360
Neves, K.R.T. 2.478
Neves, K.R.T.N. 360
Neves, R.M. 2.843
Neves, S. 2.853
Nevian, T. 3.060
Newell, K. 428
Newell, K.A. 3.186
Newman, T.A. 1.771

Ng, C.T. 3.201
Ng, M.H.J. 3.201
Ng, T. 272
Ngamjariyawat, A. 3.434
Nguemeni, C. 3.114
Nguyen, C. 345
Nguyen, H. 1.500, 1.934
Nguyen, J. 2.237
Nguyen, J.C.D. 1.741
Nguyen, L. 211, 2.969
Nguyen, P.L. 500
Nguyen, T.M. 659
Nguyen, T.P. 2.572
Ni, K. 3.203
Niapour, A. 1.522
Nicaise, C. 3.435
Nicassio, F. 2.961
Niccoli, G. 1.529, 3.033
Nichelli, P.F. 1.691, 2.002
Nickolls, S. 160
Nickolls, S.A. 3.278
Nico, D. 2.750
Nicola, B. 2.847
Nicolas, C. 3.792, 3.960
Nicolato, E. 3.338
Nicole, O. 2.263
Nicoleau, C. 1.460
Nicoletti, F. 3.780, 3.884
Nicoli, J.R. 1.581
Nicolini, C. 3.222
Niddam, D. 2.771
Nieder, A. 3.962
Niederkofler, V. 120
Niederova- Kubikova, L. 2.467
Niediek, J. 636
Niehus, S. 652
Niekisch, H. 2.856
Nielsen, J. 441, 1.430
Nielsen, J.B. 2.788
Nielsen, V. 441
Nieminen-Kelhä, M. 884
Nierwinska, K. 3.306
Niespodziany, I. 3.961
Nieto Sampedro, M. 3.175
Nieus, T. 272, 535, 1.170, 1.171, 1.172, 2.563, 2.564, 2.807
Niggs, A. 3.706
Nihira, T. 3.732
Nijboer, C.H. 2.464
Nikadon, J. 1.710, 3.912, 3.913
Nikas, P. 243
Nikic, I. 695
Nikiforuk, A. 578, 2.837, 3.179
Nikita, M. 3.105
Nikolajew, T. 3.208, 3.236
Nikolic, D. 2.132
Nikolic, K. 1.791
Nikolopoulou, E. 1.065
Nikonenko, I. 3.008
Nilius, B. 3.024
Nilssen, E. 1.126
Nilsson, A. 1.765
Nilsson, I. 546
Nilsson, I.M. 1.959
Nilsson, J. 3.195, 3.564
Nilsson, P. 182
Nilsson, S. 441
Nimmerjahn, A. 38
Niola, F. 2.961
Niquille, M. 2.935
Nishi, A. 974
Nishibori, M. 2.766
Nishida, T. 2.766
Nishijo, T. 2.473
Nishikawa, H. 518
Nishimoto, S. 919
Nishimura, A. 1.258
Nishimura, Y. 702, 705
Nishiyama, K. 3.732
Nishizawa, Y. 3.204
Nissbrandt, H. 549
Nissler, A. 3.245
Nisticò, R. 1.044, 1.948
Nistri, A. 857, 2.660, 3.824
Nitsch, R. 2.954, 3.069
Nitz, K. 1.527
Niu, J. 3.853
Niu, R. 282, 3.629
Nizzardo, M. 2.611
Nizzari, M. 3.171
Nobbio, L. 2.025
Nobili, F. 2.198
Nobili, L. 2.194, 3.604
Nobre, A. 61
Noce, G. 2.198, 2.915
Noches, V. 3.790
Noda, M. 3.307
Noe, E. 2.233
Noedl, M.T. 2.469
Noel, A. 1.459
Noel, J. 1.640
Nogradi, A. 1.511, 2.302, 2.661, 2.782
Nogues, X. 583, 584
Nohejlova, K. 1.686, 2.075, 2.078
Nolan, M.F. 1.687, 1.936, 3.337, 3.611
Nolan, P. 2.807
Nolan, P.M. 3.729
Nollet, M. 2.687
Nomoto, K. 3.400
Nomura, H. 1.158, 1.159
Nomura, M. 2.050
Nonaka, S. 126
Nontamart, N. 3.969
Noordman, R. 625
Nordenankar, K. 3.705
Norimoto, H. 3.038
Norkett, R. 821
Normand, E. 3.464, 1.483
Nosi, D. 889
Notredame, C. 556
Notter, T. 3.664
Notzon, S. 2.698
Noursadeghi, E. 3.567
Nouvian, R. 956
Novais, A. 1.725
Novak, B. 2.694
Novak, M. 320, 323, 324
Novellino, A. 1.180
Novembre, G. 1.108
Novkovic, T. 2.019
Novogradecz, G. 1.984
Novotn, J. 3.542
Novotny, R. 3.643
Nowacka, M. 3.325
Nowak, K. 351
Nowak, L.G. 385
Nowak, R. 1.757, 2.116, 3.158
Nowakowski, T. 1.190
Ntambwe, A. 2.765
Nualart, F. 2.187, 2.965, 3.047
Nunes, A. 3.019
Nunes, A.C.L. 2.268, 3.121, 3.695
Nunes-da-Silva, C. 3.316
Núñez Molina, A. 4.004
Nuñez, A. 483
Núñez-Peña1, M. 2.819
Nurmi, A. 1.962, 2.304
Nusca, S. 2.573
Nussbaumer, M. 2.692
Nusser, Z. 1.363
Nyengaard, J.R. 2.108
Nyíri, G. 1.752, 3.393
Nyitrai, M. 1.636
Nykjær, A. 2.541
Nys, J. 2.446, 2.741, 2.742
O`Connor, E.C. 3.401
O`Sullivan, C. 1.565
O`Sullivan, S. 2.020
O'Donnell, C. 1.687
O'Neill, A. 1.690
Oakly, A. 2.699
Obara, I. 159, 236
Obara, K. 2.743
Obayashi, S. 2.172, 3.858
Obermair, F.J. 1.417
Obermair, G. 759, 3.000
Obermair, G.J. 758, 751
Oberto, A. 1.748
Obeso, J.A. 1.979, 1.995
Obiang, P. 3.630
Obien, M. 2.916
Obis, T. 254, 1.369, 1.372, 1.373
Oblak, A. 863
Oboti, L. 187
Obrenovic, R. 1.486
O'Brien, M. 1.913
Obuchowicz, E. 3.325
O'Callaghan, T. 1.770
Ochiai, T. 3.043
Ochoa de Amezaga, A. 896, 3.651
Ochoa, W. 2.220
Öckl, P. 1.969
O'Connor, E.C. 2.724, 3.016
Oczkowska, A. 342
Oda, A. 2.112
Odagawa, M. 3.832
Odawara, A. 2.434
O'Dell, T.J. 2.321
Odenstedt, J. 3.162
O'Donoghue, M.F. 2.912
Odouard, S. 484
Odriozola, H.B. 3.339
Odstrcil, I. 1.657
Oe, Y. 305
Oertner, T.G. 1.907
Oettinghaus, B. 903
Oezguen, N. 478
Offen, N. 1.564
Offermanns, S. 393, 3.125
Oflijan, J. 676, 1.164
Ogawa, M. 2.102
Ogawa, T. 2.098, 2.102
Ogawa, Y. 2.305
Oggioni, N. 3.828
Ogino, T. 2.172
Oginska, H. 2.751, 2.754
Ögren, S. 3.311, 3.317
Ögren, S.O. 3.195
Ogunjirin, A. 1.856
Oguzhan, M. 3.330
Oh, J.K. 2.711
Oh, S. 963, 3.827
Oh, S.B. 1.923
O'Hare, C. 1.314
O'Hashi, K. 2.743
Ohki, K. 507
Ohkubo, F. 648
Ohkubo, T. 518
Ohkuma, M. 3.244
Ohkura, M. 305, 648, 3.974
Ohl, F.W. 1.007, 1.014, 2.120, 2.903, 2.923
Ohline, S.M. 2.504
Ohsawa, M. 3.043
Oitzl, M. 730
Öjemalm, K. 1.959
Okabayashi, S. 2.589
Okabe, S. 3.390
Okada, T. 648, 3.352
Okada, Y. 3.082
Okamoto, H. 144
Okano, H. 3.082

Okarmus, J. 3.696
Okaty, B.W. 120
Okayama, T. 3.204
Oke, B.O. 1.564
Oki, K. 3.929
Okruszek, L. 3.190
Oksman, J. 1.962
Okujeni, S. 3.428
Okun, J.G. 3.125
Okun, M. 3.601
Okuyama, K. 3.811
Oláh, G. 887, 2.266
Olarte-Sanchez, C. 650
Olcese, U. 677
Olde Loohuis, N. 3.039
Olde Loohuis, N.F. 1.668
Olde Loohuis, N.F.M. 215
Oldham, M. 1.190
O'Leary, D. 1.234
O'Leary, T.P. 330
Oleksy, T. 3.924
Olesen, M. 3.087
Olesen, S.P. 1.362
Oleson, E.B. 2.370
Olevska, A. 2.721
Olguin-Albuerne, M. 682
Oliet, S.H. 34, 2.176
Oliva Martín, M. 1.566
Oliva, J. 2.857
Olivares, M.J. 1.371
Olivares, R. 1.472, 3.308
Oliveira, A. 3.943
Oliveira, A.C. 234
Oliveira, A.L.R. 912, 2.775, 2.779
Oliveira, C. 438
Oliveira, C.R. 1.454, 2.094, 2.178, 2.593
Oliveira, D. 3.375
Oliveira, E.M.N. 2.786
Oliveira, G. 2.786
Oliveira, J. 306
Oliveira, J.F. 2.674
Oliveira, L.M. 3.288
Oliveira-Maia, A. 3.909
Oliveira-Pinto, A. 3.288
Oliver, D. 754
Olivera, C. 1.549
Oliverio, A. 2.259, 3.354
Olivier Blin, O.B. 1.749
Olivier, E. 572, 1.524, 1.689
Olivieri, D. 2.660
Oliviero, A. 675, 1.176, 1.177, 3.818
Oliviero, S. 678
Olivito, L. 2.225
Olmos-Alonso, A. 3.730
Olopade, F. 2.644
Olopade, J. 1.567
Olopade, J.O. 1.538, 1.564
Olszanecki, O. 2.670
Olucha-Bordonau, F.E. 1.421, 3.540
O'Mara, S. 1.724
O'Mara, S.M. 1.740, 2.676
Omedas, P. 3.997
Omlor, W. 2.167
Onaji, V. 2.258
O'Neill, J. 79, 630, 632, 633
Onesto, E. 847, 3.739
Ong-Palssom, E. 2.292
Onishi, H. 2.828, 4.005
Ono, F. 2.589
Onofri, F. 341, 825, 2.536
Onorati, M. 1.920
Onorati, P. 2.915
Onufriev, M. 897, 909, 1.060, 3.029
Oohashi, T. 1.680
Ooi, Y. 2.030
Ooishi, Y. 1.019, 2.126
Oommen, J. 3.036
Op De Beeck, H. 3.360
Opasic, L. 3.442
Opazo, C. 338
Opel, M.R. 3.768
Opper, B. 1.622
Oppitz, C. 2.280
Oprisoreanu, A. 656
Orbán, G. 387
Orbán, J. 1.636
Orduz, D. 3.061
Ordyan, N. 1.064
O'Reilly, A.O. 520
Orellana Riquelme, D. 3.218
Orellana, D. 1.539
Oren, N. 1.716
Orger, M. 145
Orio, P. 3.823
Orlandi, C. 3.033
Orlando, M. 274, 1.400, 2.533
Orlando, R. 3.780
Orlowska, P. 2.147
Ormazábal, A. 3.693
Orozco, D. 327
Orozco, S. 1.476
Orpana, A.K. 2.286
Orpwood, R. 3.631
Orr, S. 1.701
Orrù, A. 2.067, 2.722
Orrù, S. 3.742
Orsini, F. 3.131
Orsolic, I. 2.129
Ortega, A. 1.340, 1.343, 1.598, 2.978
Ortega, F. 1.296
Ortega, G. 706
Ortega, J. 2.690
Ortega, M.G. 930
Ortega, R. 822
Ortega-Martinez, S. 555
Ortega-Ramírez, A. 1.879
Örtegren, U. 1.155
Ortez, C. 3.693
Ortiz Cullera, V. 2.031
Ortiz, J. 2.980
Ortiz, N. 254, 372, 1.369, 1.372
Ortner, R. 3.159
Ortona, E. 1.661
Ortori, C. 2.189
Ortuno, T. 2.141
Ortuzar, N. 1.727
Orzi, F. 3.423
Osadchenko, I. 3.344, 3.875
Osakada, F. 500
Osanai, M. 1.987, 3.613
Osculati, F. 2.049
Oses, J.P. 2.045
Osoba, J. 1.484, 3.944
Ossadtchi, A. 3.934
Osta, R. 2.626
Ostasov, P. 196
Osterweil, E. 2.544
Ostrowski, R.P. 422, 424
O'Sullivan, M. 1.824
Osumi, N. 1.813, 2.631
Ota, K.T. 1.591
Otáhal, J. 1.510
Otero, G. 1.835
Otero-Ojeda, G. 1.694
Ott, T. 3.962
Ottaviani, M. 1.871
Otto, M. 1.969, 2.613
Ottobrini, L. 1.523
Ottolenghi, C. 1.262
Ottonello, S. 1.433, 1.443
Ouankpo, S. 3.579
Ouda, L. 998
oudakker, A. 1.395
Ouidja, M.O. 2.032
Ouidja, O. 668
Oulhaj, A. 2.552
Outeiro, T.F. 344, 832, 838
Owen, M. 1.153
Owens, C.B. 525, 526, 527
Oysten, R. 1.290
Ozawa, K. 305
Ozawa, T. 3.376
Ozcanli, H. 917
özdogan, T. 2.858
Ozsvár, A. 887
P Witter, M. 1.128
Paabo, S. 3.331, 3.497
Paavilainen, T. 3.062, 3.063
Pabello, M. 2.806
Pabian, P. 1.673
Pablo, A. 2.202
Pabst, M. 636
Pacchetti, C. 816
Pace, C. 1.965
Pace-Schott, E. 1.701
Pacesova, D. 2.813, 3.542
Pacheco, A. 3.321
Pacheco-Neto, M. 3.044
Pacheco-Rosado, J. 2.950
Pachitariu, M. 2.129
Pachnis, V. 2.471
Paciello, F. 1.020
Pacini, L. 135, 463
Pacioni, S. 1.446, 1.844
Pack, J. 2.944
Padamsey, Z. 3.032
Padín, J. 3.308
Padín, J.F. 757, 853
Padmashri, R. 766
Padovan, D. 3.320
Padovani, A. 1.447, 3.660
Padovani, L. 985
Pagani, A. 693
Pagani, F. 2.039
Pagani, M. 538
Paganini, L. 3.102
Pagano, R. 3.946
Pagano, S. 2.204
Page, K. 3.309
Pageat, P. 200, 201
Pagès, C. 3.785
Pagés, S. 1.036, 1.910
Pagida, M. 1.501
Pagliardini, S. 3.852
Pagnussat, A.S. 2.780
Pahnke, J. 3.680
Paillusson, S. 3.077, 3.743
Paixao, S. 3.853
Paizanis, E. 591
Pajer, K. 1.511, 2.661
Pajunen, M. 3.062, 3.063
Pak, N. 1.782
Pakarinen, S. 1.091, 1.093, 3.894
Pal, B. 1.355, 295
Pal, I. 2.548
Pál, J. 646
Paladini, A. 1.970, 1.973
Palamara, A.T. 3.644
Palamarchouk, V. 1.545
Palanza, P. 563, 1.748, 1.761
Palecek, J. 3.281, 3.283
Palermo, F.A. 3.310
Palesi, F. 1.963, 3.289
Palfi, A. 3.284
Palfi, D. 1.220, 3.624, 1.336, 1.337
Palha, J. 1.725, 2.853
Palha, J.A. 587
Palikhova, T. 1.900
Palkovits, M. 1.668, 2.812, 3.314
Palladino, G. 1.804, 2.573
Pallagi, K. 3.555

Pallás, M. 2.626, 3.641
Pallavicini, A. 2.486
Pallet, V. 600
Pallier, P. 1.517, 3.160
Pallier, P.N. 2.655
Palme, R. 1.054
Palmeira, C. 3.695
Palmeira, C.M. 359
Palmeri, A. 644, 1.731, 2.790
Palmigiano, A. 3.602
Palminha, C. 2.489
Palomba, L. 221
Palotai, M. 1.052
Paluch, K. 1.028, 2.826
Paludetti, G. 1.020
Palus, K. 382, 2.988
Palva, J.M. 2.194, 3.604
Pálvölgyi, A. 2.584, 3.555
Pamplona, R. 2.568
Pan, L. 825
Pan, M. 840
Pan, W. 2.881
Pan, Y. 2.662
Panagiotakopoulou, V. 357, 1.997
Panagiotakos, G. 2.295
Panagis, G. 2.083
Panagopoulos, N. 355, 356, 1.997
Panatier, A. 34
Panayotacopoulou, M. 1.501
Pandey, S.K. 2.041
Pandey, U.B. 3.736
Pandya, N. 1.385
Panelli, R. 563
Panetta, P. 1.661
Pangalos, M.N. 304
Pani, G. 3.167
Pani, P. 1.722, 2.168, 2.199
Panin, M. 1.606
Pannacci, M. 3.326
Pannaccione, A. 767
Panniello, M. 2.110
Panov, N.V. 891
Pansarasa, O. 854, 2.608
Pantano, D. 1.448
Panula, P. 2.445
Panzanelli, P. 1.890
Panzeri, S. 2.135
Panzica, F. 381
Panzica, G. 562, 2.179
Panzica, G.C. 1.301
Paoletti, F. 1.446
Paoli, M. 3.247
Paolicelli, R. 131
Paolillo, M. 851
Paolone, G 3,697
Paonessa, F. 2.293
Paouri, E. 1.449
Pap, D. 2.812
Papa, G. 1.702
Papa, M. 307, 1.506
Papa, S. 1.514, 1.515
Papadaki, A. 1.442
Papadakis, S. 3.922
Papadopoulos, G.C. 185
Papadopoulos, M. 1.442
Papadopoulos, T. 3.553
Papadopoulou-Daifoti, Z. 2.092, 2.674, 3.345
Papadourakis, V. 3.809
Papageorgiou, G. 2.866
Papagno, C. 1.110, 1.715
Papale, A. 458, 1.889, 2.065
Papaleo, F. 2.239, 2.968, 3.546
Papaleo, R.M. 2.786
Papapetrou, E. 3.508
Papassotiropoulos, A. 1.700
Papatheodoropoulos, C. 3,998
Papazafiri, P. 3.073
Papazoglou, A. 1.017, 3.005, 3.764
Pape, H. 1.358, 3.575
Pape, H.C. 228, 231, 1.482, 1.860, 3.096, 3.544, 3.816, 3.972
Pape, J.R. 1.756
Papiani, G. 326, 2.621
Papilloud, A. 1.670
Papon, M.A. 959
Papp, L. 2.914, 3.555
Papp, M. 1.577, 3.770
Papp, R.S. 2.812
Papusheva, E. 1.302
Papy-Garcia, D. 668
Paquet, C. 1.965
Paquet-Durand, F. 1.637, 2.048
Parada, G. 2.182
Paradells Navarro, S. 2.033
Paradiso, B. 1.491
Parati, E.A. 3.141
Paravatou-Petsotas, M. 1.442
Parazzi, V. 1.514
Parazzini, C. 209
Pardini, M. 683
Pardo Alvarado, Z.V. 1.094
Pardo-peña, K. 3.098
Párdutz, A. 1.646
Parente-Bruno, D.R. 3.288
Parfitt, G. 3.945
Parga-Martínez, N.J. 3.378
Pariante, C.M. 1.584, 2.096, 2.688
Paris, I. 3.084
Parish, C. 1.978
Parisi, I. 3.430
Parisius, C.M. 526
Parisot, J. 1.331
Park, A.J. 2.265
Park, C. 2.294
Park, C.K. 3.052
Park, D.S. 835
Park, H.Y. 3.052
Park, J. 1.714, 1.829, 2.534, 2.876
Park, K.Y. 3.207
Park, M. 1.935, 2.586
Park, M.J. 3.365
Park, M.S. 2.543
Park, S. 2.205, 2.271
Park, T. 3.270
Park, T.I. 2.642
Park, T.J. 1.329
Park, Y. 3.461
Parkeh, K. 3.036
Parkes, S. 2.882
Parkosadze, K. 2.206
Parlak, M. 3.677
Parlanti, P. 401, 3.975
Parlato, R. 3.078
Parlog, A. 2.103
Parmar, M. 714, 716
Parmer, J. 3.124
Parmigiani, E. 1.294, 1.300
Parmigiani, S. 563, 1.761
Parnavelas, J. 2.173
Parnavelas, J.G. 2.928
Parnetti, L. 2.198
Parobczak, K. 1.906
Parodi, S. 3.736
Parolaro, D. 2.723, 2.731
Parolisi, R. 2.951
Parra, A. 580, 2.852
Parra, L.C. 3.606
Parra, M.A. 573
Parra, R. 1.539
Parrado, C. 3.396, 3.397
Parrella, E. 3.132
Parrinello, S. 2.468
Parrini, M. 867, 1.450
Parrot, S. 3.374
Partata, W.A. 1.533, 1.681
Parvisi, J. 172
Pascal, D. 913, 2.787
Pascoal, J. 3.301
Pascoli, V. 72, 2.724, 2.732, 3.402
Pascual-Marquí, R. 1.835
Pascucci, D. 2.820
Pascucci, T. 471, 1.675, 2.645, 2.798, 3.716
Pasetto, L. 849, 3.735
Pasinelli, P. 1.253, 3.728
Pasion, R. 570
Paslaru, A. 1.502, 1.507
Paslaru, A.C. 1.688, 2.926
Pasqualucci, C. 3.288
Passafaro, M. 473, 474, 1.382, 2.324, 2.506, 3.082, 3.214, 3.220, 3.666
Passani, M. 2.218
Passani, M.B. 3.964
Passaquay, F. 1.910
Passarelli, F. 465
Passarelli, L. 2.737, 2.755, 3.810
Passas, J. 749
Passecker, J. 603
Passini, M.A. 2.792
Passoni, L. 425
Pasterkamp, J. 2.936
Pasterkamp, R.J. 3.251
Pasternak, T. 1.225
Pastoll, H. 1.936
Pastor, A.M. 2.057, 2.618, 2.619, 3.037
Pastor, T. 135
Patchev, A.V. 2.191
Patel, B. 3.556
Patel, P. 1.116
Patel, S. 1.666
Patel, T. 3.498
Paterlini, S. 563
Paterna, J.C. 2.678
Paterniti, I. 1.437, 1.526, 2.087, 3.161, 3.710
Pathania, M. 3.223
Patil, K. 3.469
Patrich, E. 3.568
Patrignani, A. 659
Patrizi, A. 2.641
Patrizio, A. 450, 2.518
Patsouris, E. 1.501
Patti, C. 2.713
Pattij, T. 1.212
Pattini, L. 1.382
Patz, S. 3.508
Paukert, M. 37
Paul, E.D. 3.955
Paul, J.L. 1.964
Paul, N. 3.582
Paul, S. 1.457
Paula-Lima, A. 3.665
Paula-Lima, A.C. 332, 2.485
Paul-Samojedny, M. 3.325
Paulsen, O. 123, 1.896
Paulus, W. 409
Pauwels, C.G. 3.509
Pavan, V. 3.399
Pavão, R. 990
Pavel, B. 2.926
Pavlinac Dodig, I. 2.821, 3.872
Pavlopoulos, E. 2.227
Pavlovic, Z. 3.775
Pavlovicova, M. 763
Pavone, F. 3.822
Pavone, F.S. 1.776
Pawlak, V. 3.429
Pawlowski, S.A. 3.296
Payan Gomez, C. 3.706
Payoux, P. 2.198
Paz, R. 3.485
Pazienti, A. 3.603
Pazos, A. 1.583, 2.702

Pearson, K.G. 2.171
Pearson, S. 2.111, 2.111
Pechmann, Y. 744
Peciccia, M. 432
Pecina, H.I. 416
Pecina-Slaus, N. 416
Pecoraro Bisogni, F. 1.400
Pecotic, R. 2.821, 3.872
Pedata, F. 889, 3.115
Pedraz, J.L. 3.704
Pedrazzoli, M. 2.112
Pedro, J. 1.832
Pedrocchi, A. 531
Pedron, S. 2.725
Pedrón, V. 3.799
Pedroso de Lima, M.C. 2.574
Peelaerts, W. 3.698
Pegna, A. 1.708
Pegna, A.J. 3.262
Pego, J.M. 691
Peichl, L. 1.322
Peinado-Aragonés, C.A. 3.866, 3.869
Peirs, C. 1.033
Pejler, G. 2.666
Pekcec, A. 2.089
Peker, G. 3.699
Pelaez, I. 1.082
Pelecanou, M. 1.442
Pelegrí, C. 3.641
Pelenda, H. 2.854
Peles, E. 3.233
Pelicci, P.G. 1.661
Pelko, M. 2.791
Pellegrini, C. 732
Pellegrini-Giampietro, D. 1.647, 2.068
Pellegrini-Giampietro, D.E. 2.044
Pellegrino, C. 761, 3.581
Pelletier, G. 1.664
Pellicano, L. 3.234
Pelliccia, T. 3.406
Pellistri, F. 243, 2.034
Pellitteri, M. 2.049, 3.702, 3.780
Pelosi, A. 3.079
Peltzer-Karpf, A. 3.336
Pelucchi, S. 1.447, 3.660, 3.666
Pen, Y. 3.585
Pena, J.L. 1.001
Peña, M. 3.888
Peñasco, S. 230, 2.846
Pende, M. 974, 2.732
Pendolino, V. 1.982, 3.716
Peng, B. 3.173
Peng, L. 976, 2.507
Peng, X. 3.557
Peng, Y. 3.632
Penicaud, L. 555, 564
Penke, B. 1.958, 3.657
Penn, A. 268
Penn, A.C. 735
Pennacchio, P. 213
Pennartz, C.M. 3.340
Pennica, A. 2.915
Penninella, D. 2.229
Pennucci, R. 1.814
Pennuto, M. 847, 3.726, 3.736
Peñuelas, I. 1.995
Penz, O.K. 1.329
Pepe, G. 313
Pepponi, R. 397
Per Ekström, P.E. 1.637
Perale, G. 1.515
Perani, D. 3.261
Perbellini, L. 2.049
Perdikaris, P. 232
Perea, G. 36, 220
Perego, C. 364, 2.108
Pereira de Almeida, L. 3.301
Pereira de Vasconcelos, A. 2.211
Pereira, F. 2.726
Pereira, J.F. 3.081
Pereira, M. 3.700
Pereira, N. 3.753
Pereira, N.M. 3.761
Pereira, S.A. 2.262
Pereira, T.C.B. 2.786
Pereira, V. 1.640
Perepelkina, O. 2.859
Péres, A. 1.310
Peres, J. 1.258
Peretti, M. 421
Peretto, P. 187, 188, 3.251
Peretz, A. 3.568
Pérez Borrego, Y. 3.818
Perez de la Mora, M. 3.377
Pérez Martín, M. 953
Pérez Rodríguez, D. 898, 3.112
Pérez, F.J. 2.842
Pérez, R. 3.130
Perez-Alvarez, A. 1.907, 3.048, 749
Pérez-Carrera, D. 3.377
Perez-Garci, E. 1.846
Perez-Hernandez, E. 576
Perez-Marcos, D. 3.155
Pérez-Martín, M. 954
Perez-Méndez, L. 813
Pérez-Palma, E. 338
Perez-Rando, M. 793
Pérez-Samartín, A. 907
Pérez-Tierra, K. 1.879
Pérez-Valenzuela, C. 1.055
Pérez-Villegas, E. 1.374
Periasamy, R. 2.952
Perico, A. 1.949
Perin, P. 2.112
Perin, R. 282
Peris Sampedro, F. 2.822
Peris-Sampedro, F. 2.267, 2.839
Periyakaruppiah, A. 841, 3.737
Perlaki, G. 646
Perlini, L. 2.436, 2.943
Pernet, V. 1.417
Pernía, O. 550
Peron, S. 710, 712, 3.844, 711, 2.482
Peroni, D. 842
Peros, K. 2.821
Perra, V. 2.727, 2.728, 3.409, 3.788
Perrais, D. 2.545, 3.979
Perreten Lambert, H. 314
Perrey, S. 1.695
Perri, V. 2.225, 3.354
Perrier, A.L. 1.460
Perrin-Tricaud, C. 2.284
Perrone-Capano, C. 694, 1.915, 3.500
Perroteau, I. 516, 913, 2.282
Perrotta, M. 3.025
Perroy, J. 742, 2.500
Perry, V. 3.730
Pershing, M.L. 437
Persiconi, I. 1.632
Persoon, C. 281
Pertusa, M. 2.989, 3.823
Pertz, O. 2.435
Peruch, T. 2.780
Perucho, J. 2.600, 2.603
Peruffo, A. 1.606
Perugini, J. 557
Peruzzi, F. 309
Perzo, N. 2.495
Pesce, M. 3.983
Peschanski, M. 1.165, 2.090
Pessiglione, M. 103
Pessina, F. 2.918
Petanjek, Z. 206, 216, 2.451, 3.331
Peter, M.P. 993
Peters, K. 3.133
Peterschmitt, Y. 3.551
Peterse, Y. 2.700
Petersen, J. 736, 3.010
Petersen, P. 3.854
Petersen, P.H. 928, 3.667
Petersen, R.S. 2.147
Petese, A. 851
Petit Pedrol, M. 3.557
Petit, J.M. 296, 1.592
Petitto, E. 2.997
Petkov, C. 3.471
Petkova, A. 3.521
Petra, M. 3.129
Petrakis, S. 3.725
Petrasch-Parwez, E. 964
Petrasek, T. 3.351
Petrelli, F. 878
Petrides, M. 568
Petrini, E. 1.250
Petrini, E.M. 3.558, 3.559
Petrini, S. 671
Petronijevic, N. 1.486
Petrou, S. 1.868
Petrovic, D. 2.433
Petrovic, J. 2.193
Petrovova, E. 700
Petrovszki, Z. 446
Petrucelli, L. 3.728
Petrushevsky, A. 1.497
Petrushin, A. 666
Petters, C. 2.035
Petykó, Z. 2.130
Peviani, M. 851, 1.515
Peyre, E. 211
Peyré-Tartaruga, L.A. 2.164
Peyrin, J.M. 1.460
Pezze, M. 3.957
Pezzoli, G. 823, 2.463
Pfannmöller, J. 1.719
Pfeifer, D. 3.142, 3.163
Pfeiffer, T. 6, 3.064
Pfister-Genskow, M. 2.808
Pflüger, H. 1.652
Pfrieger, F. 3.070
Pfrieger, F.W. 183
Pfurr, S. 3.142
Pham, J.T. 2.609
Phan Dinh Tuy, F. 2.932
Phan, A. 1.121
Phan, J. 2.476
Phelps, E.A. 2.825
Philipp, R. 2.347, 3.861
Philippot, P. 1.078
Philipson, K.D. 894
Phillips Mary, M. 3.768
Phillips, K.G. 2.809
Phochkhidze, N. 621
Pia, L. 486
Piacentini, M. 951
Piacentini, R. 3.644
Piacentino, G. 1.436
Piastra, M. 2.194
Piazza, F.V. 2.640
Piazza, P.V. 3.495, 3.789
Piazza, V. 401, 3.975, 3.976
Picard, A. 547
Picard, S. 530
Picci, C. 1.498, 2.772, 2.773, 3.828
Piccini, A. 2.436, 2.943
Piccoli, G. 341, 753, 825, 2.437, 2.968
Piccoli, L. 1.587
Piccoli, T. 980
Piccolini, V.M. 2.627
Picconi, B. 1.982, 3.080, 3.716
Picelli, A. 684
Picetti, E. 3.423

Piché, M. 3.819
Picocci, S. 3.499
Picoli, C. 2.764
Picone, F. 980
Picq, J.L. 637
Piechota, M. 653
Piedimonte, A. 486
Pielecka-Fortuna, J. 2.744
Piepponen, P. 3.797
Piepponen, T.P. 1.988
Pieragostino, D. 1.821
Pierani, A. 116, 183
Pierantoni, G. 2.595
PierdonÁ, T.M. 352
Pierpaoli, C. 1.109
Pierre, P. 1.375
Pierre-Luc, D. 1.061
Piers, T. 1.671, 1.945, 2.546
Piers, T.M. 2.543, 3.035
Pierzynowski, S.G. 3.344, 3.875
Pietrini, P. 1.691
Pietro Farinelli, P.F. 1.637
Pietrobon, D. 752, 755, 1.246, 3.003, 3.625
Pietronigro, E. 1.436
Pietropaolo, S. 3.215
Pietrucha-Dutczak, M. 2.052
Piette, C. 990
Pifferi, F. 637, 1.749, 3.963
Pighin, F. 1.360
Pignataro, A. 3.662, 3.946
Pignataro, D. 828
Pignataro, G. 880, 894, 2.595, 3.116, 3.139
Pignatelli, A. 1.360
Pignatelli, J. 3.694
Pignatelli, M. 1.044, 2.847
Pigorini, A. 286, 1.427, 3.604
Pijet, B. 3.756, 3.793
Pilar, A. 3.534
Pilar-Cuellar, F. 2.702, 1.583
Pilati, N. 755, 3.570
Pilchova, I. 899
Pilipovic, K. 3.147
Pilorz, V. 3.610
Pimashkin, A. 1.732, 1.901
Pimpinella, D. 3.649
Pin, J.P. 2.900
Pina, E. 2.527
Piña, R. 3.823
Pinacho, R. 658, 3.004, 3.191
Pinatel, D. 308
Pineda, M. 3.693
Pingel, J. 2.788
Pinhasov, A. 2.101
Pinhero, V. 2.496
Pinion, L. 1.465
Pinna, A. 362, 3.701, 3.702, 3.703
Pino, A. 400, 1.512
Pino-Figueroa, A. 608
Pintér, S. 2.302
Pinto, L. 306, 691
Pinto, M. 3.522
Pinto, M.J. 1.832
Pinto, V. 513, 1.725
Pinto-Ribeiro, F. 513
Piochon, C. 2.500
Piovani, G. 3.686
Piquet, J. 3.668
piras, A. 375
Piras, F. 2.239
Piras, G. 2.727, 2.728, 3.409, 3.787, 3.788
Pires, J. 269
Pirger, Z. 2.279
Piriz, J. 3.387
Pirmettis, I. 1.442
Pirmoradian, S. 1.171
Pirona, L. 3.977
Pisani, A. 1.044, 1.050, 3.297
Pisanu, A. 1.989, 3.787
Pisar, M. 2.985
Pisarchik, A.N. 814
Pischedda, D. 577, 3.907
Pischedda, F. 341, 825, 2.437, 2.968
Piserchia, V. 2.213
Piskorowski, R. 2.334
Pisoni, A. 1.110
Pistillo, F. 1.855, 1.857, 1.863
Pistocchi, A. 681
Pita, I.R. 2.726
Pitkanen, A. 3.099, 3.766
Pitman, R. 1.701
Pitsikas, N. 2.703
Pittaluga, A. 561, 850, 2.021, 3.884
Pittaluga, A.M. 367, 2.979
Pittaras, A. 2.939
Pittaras, E. 2.883
Pitteloud, N. 1.229
Pittolo, S. 2.900
Pitule, P. 196
Piumatti, M. 192, 2.951
Piva, A. 450
Piva, R. 3.132
Piver, E. 3.745
Pivina, S. 1.064
Piyanova, A. 2.250
Pizzala, R. 2.112
Pizzarelli, R.P. 1.251
Pizzi, M. 1.443, 2.036, 3.702
Pizzo, R. 3.224
Pizzolato, F. 1.002
Pizzorusso, T. 565, 868, 1.139, 1.327, 3.012, 3.451, 3.456
Plá Requena, V. 3.669
Plaçais, P.Y. 2.276
Plácido, A.I. 2.178
Plaghki, L. 1.022
Planel, E. 1.459
Planert, H. 271
Plani-Lam, J.H.C. 3.201
Plappert, L. 3.142
Platschek, S. 778
Platt, B. 333, 1.119, 3.617
Plattner, V. 2.838
Plazzotta, G. 2.688
Plenz, D. 2.383
Plescia, F. 235, 977, 978
Plested, A. 268
Ploetz, S. 1.975
Plourde, M.B. 2.043
Plucinska, K. 3.225, 3.324, 3.623, 3.633
Plun-Favreau, H. 821
Plusquellec, P. 2.208
Pochet, R. 2.417, 3.435
Pochmann, D. 2.045, 3.695
Podda, M. 3.947
Poddighe, L. 1.498, 2.772, 2.773, 3.828
Poddighe, S. 1.586
Podhajska, A. 343
Podini, P. 693, 842
Podlacha, M. 3.324, 3.623, 3.633
Podlesny, A. 2.104
Poëa-Guyon, S. 252, 470
Poehler, A.M. 838
Poelmans, G. 370
Pogarell, O. 443
Poggesi, E. 3.977
Poggini, S. 3.025
Pogorela, N.C.H. 1.354
Pohl, H. 1.820
Pöhn, B. 751
Poirier, G.L. 3.322
Poirier, K. 2.932, 3.227
Poirier, R. 470
Poitou, C. 561
Pokorná, B. 3.125
Polacchini, A. 657, 2.496
Polajnar, M. 3.177
Polder, H. 2.917
Polder, H.R. 1
Polek, D. 3.134
Polenghi, A. 3.558
Poletaeva, I. 2.859
Poletti, A. 847, 848, 2.789, 3.726
Poli, A. 1.139, 1.996
Poli, F. 3.216
Poliani, L. 420
Poliani, P.L. 408, 1.261, 2.650
Polissidis, A. 2.188
Politi, L. 693
Politis, P. 1.290, 2.188
Politis, P.K. 1.304
Pollak, D.D. 622
Pollard, A. 1.154, 2.189
Pollari, E. 3.126
Pollegioni, L. 3.194
Pollen, A. 1.190
Polleux, F. 1.189, 2.967
Pollini, D. 717
Polonara, G. 989, 1.109
Poly, B. 2.883
Pomatto, V. 3.310
Pomeshchik, Y. 890
Pometlová, M. 2.077
Pompéia, S. 2.208
Pomper, M. 1.967
Pomper, U. 3.895
Poncer, J.C. 760
Poncet, F. 553
Poncini, M. 3.900
Pongs, O. 756
Ponimaskin, E. 781, 2.432
Ponomarenko, A. 799, 800, 801, 802, 803, 2.858
Ponomareva, N. 339, 1.184
Pons, M. 2.953
Ponsaerts, P. 1.520
Pontelli, V. 3.645
Pontén, F. 182
Ponterio, G. 1.044, 1.050, 3.297
Ponti, G. 1.301
Ponzi, A. 1.047
Ponzoni, L. 457, 1.382, 2.729, 3.102
Pooresmaeili, A. 496, 2.238
Poort, J. 2.129
Pooters, T. 2.860
Popa, D. 528, 529
Popek, A. 2.148, 3.135
Popelar, J. 958, 994
Popescu, T. 2.823
Popik, P. 578, 2.837, 3.179
Popiolkiewicz, J. 3.605
Popoli, M. 2.108, 2.671, 2.696, 3.778
Popoli, P. 222, 397
Popov, P. 2.073
Popova, D. 3.767
Popova, N.K. 2.679
Popova, O. 3.646
Popova, O.V. 3.676
Popova, Y. 1.597
Popovic, J. 1.305
Popp, S. 1.848, 3.972
Porceddu, P. 3.703
Porcellini, E. 337
Porcellotti, S. 3.670
Porcher, C. 1.827, 3.523
Porkka-Heiskanen, T. 2.817
Porras-García, E. 1.374
Porrero, C. 1.030, 1.610, 3.436
Porretta-Serapiglia, C. 965
Porrill, J. 3.290
Porrini, A. 3.702
Porrini, V. 1.443, 2.036, 3.132
Pors, A. 2.220

Portavella, M. 626
Porte, B. 2.635
Porte, M. 1.826
Porte, Y. 1.669, 3.495
Portera-Cailliau, C. 83, 86
Portero-Otin, M. 2.626, 2.568
Portero-Tresserra, M. 3.939
Portioli, C. 2.037
Portmann, T. 2.295
Porzia, A. 411
Posadas, S.J. 585
Poschel, B. 205
Poscoliero, T. 3.267
Poskotinova, L. 3.865, 3.870
Possenti, R. 545
Postiglione, M. 1.302
Potapieva, N. 2.992
Potasiewicz, A. 578
Potenza, R.L. 222
Pothmann, L. 3.101
Pothula, S. 1.401
Potier, D. 1.797
Potier, M. 583
Potier, M.C. 1.964
Potmesil, P. 2.073
Pöttker, B. 2.440
Poulain, B. 3.296
Poulet, A. 1.165
Poulet, J. 3.632
Poulet, J.F.A. 284, 2.160
Poulin, J.F. 1.161
Poupon.G, P.G. 481, 1.377
Power, J. 2.854
Pozas, E. 3.669
Pozzi Mucelli, R. 684
Pozzi, D. 476, 1.400, 1.889, 2.008
Pozzi, P. 534
Pozzi, S. 849, 3.735
Pozzoli, M. 319
Prada, I. 224, 309
Pradella, E. 1.491
Pradier, B. 2.734
Prado, M. 3.945
Prado, V. 3.945
Prado-Alcala, R. 2.861
Prado-Alcalá, R.A. 3.378
Pranke, P. 2.780
Prast, J. 2.730
Prast, J.M. 3.804
Pratali, L. 1.079
Pratt, W. 2.995
Pravettoni, G. 3.911
Preat, T. 1.862, 2.276
Prediger, R.D. 2.726, 3.065
Preissmann, D. 2.862
Preissner, K. 2.937
Premoli, M. 864
Prensa, L. 503
Pressey, J. 765
Pressey, J.C. 764
Pressnitzer, D. 3.469
Presto, J. 3.684
Prestori, F. 536, 537, 538
Prestoz, L. 1.977
Presutti, C. 949
Preuss, I. 2.023
Prevedel, R. 1.782, 3.978
Prevosto, V. 3.295
Prevot, V. 2.174
Prézeau, L. 2.495
Price, J. 3.211
Price, K.L. 2.624
Price, S.D. 1.602
Priego, M. 254, 372, 1.369, 1.372, 1.373
Priesemann, V. 778
Priestley, J.V. 1.517, 2.655, 2.657, 2.668
Prieto, E. 1.995
Prieto-Soler, S. 2.455
Prime, S. 3.278
Princen, K. 317
Princivalle, A. 2.005
Prini, P. 2.723, 2.731
Prior, A. 3.334
Priori, A. 2.919, 3.911
Pristerà, A. 316
Privitera, L. 644
Procacci, P. 299
Prodanov, D. 2.306
Profice, P. 1.176
Profico, D.C. 2.620
Proietti, M. 2.008
Projetti-Pensi, M. 2.620
Prokudin, A. 2.954
Prokuratova, A.A. 891, 2.144
Prönneke, A. 3.841
Proserpio, P. 3.604
Protasova, M. 339
Proux, V. 183
Provencher, B. 3.819
Provensi, G. 3.964
Provenzano, G. 456
Proville, R. 529
Provinciali, L. 3.423
Provini, L. 2.018
Prozorovski, T. 2.024
Prsa, M. 3.859
Prukop, T. 2.025
Prut, Y. 1.273
Pruzzo, G. 2.293
Pryazhnikov, E. 1.784
Pryce, C.R. 1.576, 1.665, 2.678
Przewlocki, R. 653, 2.873, 3.776, 3.791, 3.968
Przyborowska, A. 2.797, 3.883
Psarropoulou, C. 3.750
Ptaszek, K. 3.225, 3.324, 3.623
Ptito, M. 1.022, 1.616, 3.919
Pubill, D. 1.557, 1.939, 3.956
Pucci, M. 554
Pucci, P. 3.194
Pucko, E. 422
Pucko, E.B. 424
Pudelko, A. 3.306
Puel, J.L. 956
Puelles, L. 180
Puente, N. 230
Puentes-Alfonso, A. 3.187
Pugachev, K. 1.607
Pugachev, K.S. 492, 809, 3.619
Puggioni, P. 544, 2.791
Puglisi-Allegra, S. 97, 983, 1.675, 2.645, 2.683, 2.689, 2.798, 3.716, 3.937
Puhlmann, H. 3.192
Puigcerver, A. 3.396, 3.397
Puighermanal, E. 974, 2.732
Pujol, A. 2.568
Pulcrano, S. 3.500
Pulga, A. 1.669
Puliti, A. 850, 3.731
Pulizzi, R. 2.307, 2.906
Pun, R. 3.758
Pun, R.Y.K. 3.749
Puoliväli, J. 1.962, 2.304
Pupe, S. 3.705
Puscian, A. 3.226
Pushkina, N. 2.073
Puskár, Z. 3.280
Puskarjov, M. 2.966
Puthenveedu, M.A. 3.656
Putignano, E. 868, 1.139, 3.456
Putt, F. 2.733
Puyal, J. 878
Puzzo, D. 644, 1.731, 2.790
Py, N. 1.943, 3.647
Pylkova, L.V. 3.908
Pype, J. 1.554
Pyskaty, M. 1.908
Qadri, F. 1.527
Qi, X.L. 1.118
Qin, Y. 2.038
Quallo, M.M. 2.347
Quarta, E. 2.156, 3.738
Quarta, S. 920
Quartu, M. 1.498, 2.772, 2.773, 3.828
Quattrini, A. 402, 693, 842, 1.821
Quattrone, A. 842
Queiroz, F. 269, 359, 832, 3.065, 3.599
Queiroz, J.S.B. 2.260
Quesado, J.L. 3.097, 3.753
Quest, A.F.G. 3.145
Quetglas, J.I. 3.436
Quevedo, E. 2.054
Quigley, C. 2.844
Quigley, E.M.M. 1.690
Quillfeldt, J.A. 3.950
Quinlan, E. 2.328
Quinta-Ferreira, M.E. 1.885, 2.524
Quinta-Ferreira, R.M. 1.885, 2.524
Quintens, R. 2.296, 3.167
Quintero, E. 626, 3.187
Quirarte, G.L. 3.378
Quirion, R. 2.571
Quiroga, A. 3.080
Quiroga, R. 1.723
Quiroga-Varela, A. 2.580
Quiroz-Báez, R. 1.679
Quliyeva, N. 369
R. Farina, F. 643
R. Pereira, D. 1.082
R. Widmer, H. 2.952
Raasmaja, A. 3.797
Rabaneda, L.G. 3.231
Rabat, A. 2.883, 3.925
Racagni, G. 981, 1.580, 2.069, 2.108, 2.671, 2.696, 2.712, 3.770, 3.778
Racay, P. 899
Racchetti, G. 377, 1.380, 3.106, 3.504
Racekova, E. 2.940, 3.248
Rachalski, A. 1.207
Rachwalska, P. 1.672
Rácz, B. 1.909, 3.628
Rácz, I. 2.250, 2.734
Radic, T. 1.812, 2.955
Radiske, A. 1.131
Radivojevic, M. 31
Rados, M. 216, 695
Radosevic, M. 3.855
Radtke, I. 1.650
Radu, M. 394
Radwanska, K. 2.274, 2.716, 3.793
Radyushkin, K. 2.440
Rafal, D.R. 2.793
Rafa-Zablocka, K. 1.577
Raftogianni, A. 3.879
Ragazzi, E. 873
Raggi, C. 1.661
Ragozzino, D. 242, 2.039
Raguet, L. 1.734
Raguz, M. 695
Rahimi Balaei, M. 687
Rahman, A. 3.963
Rahman, M. 393, 3.125
Raics, Z. 508
Raikov, I. 3.986
Raimondi, A. 476
Raimondo, S. 2.787
Rain, J.C. 1.964
Rainer, G. 1.742
Rainoldi, A. 856
Raisman-Vozari, R. 2.032
Raisman-Vozari, R.I.T.A. 668
Rajendran, L. 3.652, 3.656

Rajendran, V. 2.113
Rakitskaya, V. 1.064
Ralli, M. 1.020
Rama, P. 3.157
Rama, S. 3.576
Ramachandra, P. 3.914
Ramaekers, J.G. 3.993
Rambousek, L. 2.040
Raminelli, C.A. 467
Ramirez Gil, M.J. 1.063
Ramirez Gordillo, D. 2.114
Ramirez Sanchez, I. 1.138
Ramirez, B. 3.949
Ramirez, L. 3.501
Ramirez, V. 3.011
Ramirez-Exposito, M. 423
Ramirez-Exposito, M.J. 407, 418
Ramirez-Núñez, O. 2.626
Ramírez-Ríos, S. 2.439
Ramirez-Solis, R. 2.111
Ramirez-Yañez, Y. 567
Ramis, M. 2.254, 2.255, 2.256
Ramon, C. 1.939
Ramos, A. 230, 2.735
Ramos, B. 658, 3.004, 3.191
Ramos, M. 3.700
Ramos-Brossier, M. 3.227
Ramos-Campos, M. 3.379
Ramos-Fernández, E. 3.011
Ramos-Rodríguez, J.J. 2.583
Rampini, P. 2.919
Rampon, C. 1.451
Ramsay, R. 3.418
Ramsden, H. 3.337
Randakova, A. 1.349
Randall, A.D. 806
Randall, J. 1.910
Raneri, F.A. 2.918
Ranger, P. 3.228
Ranno, E. 859
Ranson, A. 501
Rantamäki, T. 3.767
Ranum, L.P.W. 1.256
Raos, V. 3.809
Raposo, A.A. 1.799
Rashidy-pour, A. 970
Rasic - Markovic, A. 1.486
Rasile, M. 3.014
Raskar, R. 1.782
Raspante, L. 3.757
Raspanti, A. 1.865
Rastam, M. 478
Rastegar, M. 2.012
Rathjen, F.G. 2.522
Ratié, L. 3.510
Ratkovich-Gonzalez, S. 886
Rattenborg, N.C. 3.615
Ratti, A. 3.739, 2.486
Ratto, G. 3,999
Ratto, G. 868
Ratto, G.M. 1.539
Rauch, A. 2.115
Raulo, E. 2.423, 3.493
Rault, J.L. 2.857
Rauschecker, J.P. 1.078, 2.397, 2.398
Rauvala, H. 1.784, 2.445
Ravagli, A. 3.890
Raval, P. 439
Ravasenga, T. 3.559
Ravasi, M. 1.560
Ravasio, G. 1.420
Ravasz, L. 3.614
Ravel, N. 1.734
Ray, R.S. 120
Ray, S. 2.236
Raynaud, F. 2.450
Raynault, M. 462
Real, J. 832, 3.599
Real, P. 1.177
Reato, D. 3.606
Reber, M. 1.619
Rebola, N. 261
Reboreda Prieto, A. 3.569
Rebsam, A. 1.316, 2.363, 2.368
Recasens, A. 347
Recasens, M. 2.116
Recek, L. 1.463, 2.651
Rechavi, G. 2.522
Redaelli, M. 419, 427, 3.709, 3.338
Redaelli, M.j. 3.399
Reddy, K. 2.041
Redgrave, P. 3.707
Redl, H. 1.511
Redlich, R. 2.698, 3.768
Redman, S. 1.780
Redolat, R. 3.379
Redolfi, N. 3.249
Reed, S.J. 1.076
Reeh, P. 515
Regan, P. 1.413, 2.546
Regaya, I. 815
Regis Bordet, R.B. 1.749
Reglodi, D. 929, 1.009, 1.622, 1.630, 1.635, 1.984, 2.279, 2.457, 3.877, 2.042
Regnell, C. 1.386
Rêgo, G.M.R. 3.375
Regondi, M.C. 213
Regueiro Purriños, M. 3.112
Reguero, L. 230
Regulska, M. 1.575
Rehberg, K. 3.518
Reich, L. 1.608, 2.400
Reichard, L. 3.192
Reichart, U. 1.322
Reichel, J. 598
Reichel, M. 2.719
Reichelt, A. 3.948
Reichenbach, N. 3.954
Reichhart, E. 2.907
Reichinnek, S. 6
Reid, C.A. 1.868
Reijak, V. 3.648
Reim, D. 3.229, 3.232
Reimers Cerdá, D. 2.600
Rein, T. 551, 598, 2.693
Reinagel, P. 2.145
Reinartz, S. 287
Reiner, A. 11
Reiprich, S. 831
Reis, H. 3.690
Reiser, J. 2.945
Reisinger, E. 1.003
Rejdak, K. 2.006
Rekauzke, S. 1.785
Rektorova, I. 1.986
Reman, G. 3.877
Remmers, F. 228, 231
Remus, A. 1.904, 2.492
Remuzzi, A. 965
Remy, S. 3, 812, 1.914, 2.375, 3.101
Ren Wang, M. 3.829
Ren, L.Q. 2.669
Ren, W. 2.507
Renancio, C. 736
Renaud, J. 2.043
Renault, A. 3.114
Renault, P. 3.789
Renier, L. 960, 1.078, 2.398
Renko, J.M. 3.581
Renner, M. 1.916, 3.560
Renoir, T. 1.474
Renou, M. 3.238
Renouard, L. 1.334
Renschler, C.J. 1.441
Rentzsch, K. 327
Renzi, C. 1.110
Repetto, D. 2.472, 3.012
Repetto, I. 3.987
Repici, M. 344
Represa, A. 207
Requejo Rodríguez, C. 3.704
Requena Osete, J. 1.528
Ressler, K.J. 2.388
Ressler, K.J.R. 3.380
Resstel, L.B.M. 3.382, 3.867
Resta, F. 1.647, 2.044
Restelli, E. 319
Restrepo, C. 3.823
Retailleau, N. 735
Reumann, R. 1.825
Reusch, K. 288
Reuveni, I. 3.022
Reverberi, C. 577, 1.277, 3.907
Reverte, I. 2.267, 2.822, 2.839
Revilla, P. 2.842
Revilla, R. 347
Rex, C. 1.591
Reyes, A. 338
Reyes, T.M. 2.835
Reyes-Guzman, A.C. 2.714
Reyes-Puerta, V. 3.842
Reynaert, M.L. 3.884
Reynolds, E. 2.529
Rezayof, A. 1.642, 1.645, 3.951
Rezzani, R. 3.092
Rhee, J.S. 3.553
Rhie, D.J. 246
Rial, D. 269, 3.019, 3.065, 3.594, 3.599
Ribeiro Gomes, A. 1.609
Ribeiro, A. 2.438
Ribeiro, F. 1.466
Ribeiro, F.F. 3.513
Ribeiro, F.M. 234
Ribeiro, L. 1.397
Ribeiro, L.F. 3.018
Ribeiro, M. 3.926
Ribeiro, M.F. 1.941
Ribeiro, M.F.M. 1.533
Ribeiro, S.T.G. 592
Ribeiro-do-Valle, L.E. 3.899
Ribordy, F. 1.692, 1.699
Ricardo-Garcell, J. 1.835
Ricatti, M.J. 3.338, 3.709, 3.399
Ricceri, L. 464, 465
Ricci, M.A. 1.365
Ricci, R. 3.900
Ricciardi, E. 1.691
Ricciarelli, R. 644
Riccio, O. 1.670, 1.850, 2.800, 2.802
Ricciolini, C. 2.620
Richard, S. 1.325
Richardson, J. 1.970, 1.971, 1.973, 2.198, 3.963
Richardson, J.C. 1.749
Richardson, K.E. 2.737
Richardson, R. 203
Richetin, K. 1.451
Richetto, J. 3.230
Richter, A. 2.824
Richter, J. 1.569
Richter, S. 3.772
Richter-Kraus, M. 3.502
Rico Barrio, I. 3.339
Rico, A.J. 828
Rico, B. 2.310, 2.314
Ridanpää, M. 2.286
Riddell, J.S. 1.524
Ridder, D.A. 1.155, 3.125
Rieck, M. 3.691
Riecken, L. 3.503
Riedel, G. 333, 1.119, 3.617
Rieder, C.R.M. 3.691

Riederer, B.M. 2.581
Riederer, P. 3.677
Riedler, E. 2.901
Riedler, R. 2.901, 2.907
Riemann, S. 445
Riet, F. 3.221
Riffault, B. 3.523
Riganti, L. 224, 2.535
Rigas, P. 3.105
Rigault, C. 555, 564
Riggio, L. 1.088
Righetti, S. 367
Righi, L. 3.896
Righi, M. 2.018
Righini, A. 209
Rigo, F. 2.609
Rigolio, R. 2.047
Rigoni, M. 2.532
Rigosi, E. 3.247
Rijli, F. 113
Rijli, F.M. 112
Rimmele, T. 310
Rimmele, U. 2.825
Rimondini, R. 3.639
Rinaldi, L. 494
Rincel, M. 3.882
Rincon-Cortes, M. 3.483
Ringstedt, T. 2.947
Ringwald, P. 3.428
Rinner, B. 3.508
Rio, P. 738
Riou, A.R. 1.492
Ripamonti, M. 377, 1.380, 1.420, 2.139, 3.106, 3.504
Ripoli, C. 3.947
Riquelme, G. 658
Riquelme-Domínguez, L. 2.455
Risold, P.Y. 553
Rispoli, V. 2.095
Risser, L. 1.968
Ristola, M. 197
Rittner, H.L. 515
Riva, M. 2.161, 2.162, 2.918
Riva, M.A. 1.580, 1.584, 2.096, 3.230, 3.770
Riva, P. 322
Rivadulla, C. 2.141, 3.264
Rivara, S. 1.705
Rivas-Ramírez, P. 3.569
Rivera, A. 676, 3.783
Rivera, B. 2.989
Rivera, C. 761, 1.784, 3.581
Rivera, D. 644
Rivera, S. 1.943, 3.647
Rivero, O. 1.848, 2.938
Riviere, S. 3.250
Rizzello, E. 3.649
Rizzi, L. 545
Rizzi, M. 2.010
Rizzi, N. 3.414
Rizzi, S. 3.565
Rizzo, F. 2.611
Rizzo, F.R. 2.009
Rizzolatti, G. 490, 2.344
Rizzoli, S. 73, 77
Roales-Buján, R. 3.783
Robacha, M. 2.274
Robbe, D. 1.048, 2.373
Robbins, T.W. 2.089
Robello, M. 243, 2.034
Robert, B. 3.215
Roberto Colom, R. 571
Roberts, M.J. 1.794
Roberts, V. 1.104
Robino, C. 2.088
Robinson, E.J. 1.066
Robinson, H.P.C. 2.927
Robinson, L. 333
Robitaille, R. 1.202
Robledo, P. 1.763
Robles, E. 146
Robles-García, V. 2.202, 2.203
Robles-Lanuza, E. 3.231
Roca-Paixao, L. 3.925
Roccaro, D. 3.403
Rocco, M. 1.633
Rocha, I. 3.316
Rocha, N.P. 1.581, 3.690
Roche, J. 1.977
Roche, R.A.P. 1.086
Rochefort, C. 3.630
Rochefort, D. 3.830
Rocher, A. 311
Rockenstein, E. 838
Roda, E. 828
Rodger, J. 797, 3.165
Rodicio, M.C. 1.521, 2.663
Rodighiero, S. 364
Rodrigo-Angulo, M.L. 483
Rodrigues, A.J. 691, 1.328
Rodrigues, C.M.P. 202, 1.941
Rodrigues, P. 3.081
Rodrigues, P.A. 3.121
Rodrigues, R. 2.045
Rodrigues, R.J. 277
Rodrigues, T.M. 2.489
Rodríguez Arellano, J. 3.671
Rodríguez de Fonseca, F. 230, 953
Rodríguez Moreno, A. 1.896
Rodríguez Moreno, J. 3.436
Rodriguez Parkitna, J. 1.155, 2.871, 2.872, 2.873, 3.968
Rodriguez Rodriguez, A. 1.971
Rodríguez, A. 1.343
Rodríguez, A.I. 3.231
Rodriguez, E. 3.910
Rodríguez, F.J. 400, 1.512
Rodriguez, J.J. 1.453
Rodríguez, L. 3.651
Rodríguez, M. 1.694
Rodriguez, N. 1.341
Rodriguez-Allue, M.J. 2.046
Rodriguez-Alvarez, J. 896, 3.651
Rodríguez-Bey, G. 739
Rodríguez-Ferrer, J.M. 1.634
Rodriguez-Menendez, V. 1.560
Rodríguez-Modes, I. 2.456
Rodríguez-Moreno, J. 503
Rodriguez-Serrano, L. 3.949
Rodríguez-Traver, E. 3.694
Roelfsema, P. 169, 2.238
Roeper, J. 3.477
Roessert, C. 3.290
Roest Crollius, H. 1.310
Rogaev, E. 339
Rogala, J. 2.826
Rogers, E. 1.771
Rogoz, Z. 3.769, 2.269
Roinishvili, M. 3.192
Rojanathammanee, L. 1.452
Rojas, E. 900
Rojas, P. 3.321
Rojas-Mancilla, E. 3.130
Rojas-Puente, E. 1.387
Rokosz, K. 3.384
Rokyta, R. 1.686, 2.079
Rolando, C. 187, 1.300, 2.435
Rolesi, R. 1.020
Rolfs, A. 2.649
Rolle, I. 3.758
Roloff, E. 2.481
Roloff, F. 1.353
Roman, A. 1.577, 3.323
Román, F.J. 571
Roman, F.S. 200, 201
Román, V. 448
Romanelli, P. 3.862
Romano, A. 2.715
Romano, S. 2.047
Romano, V. 525, 526, 527, 533
Romanov, R. 1.329
Romanska, I. 1.572, 2.686, 3.782
Romanyuk, N. 2.652
Romão, P. 2.684
Romaus-Sanjurjo, D. 2.663
Rombaux, P. 1.078
Romcy-Pereira, R.N. 1.479
Römer, H. 1.999
Romero Lauro, L. 1.715
Romero Ramírez, L. 3.175
Romero, B. 2.702
Romero, D. 326
Romero-Fernandez, W. 676
Romero-Ramos, M. 2.476, 3.087
Romoli, B. 334
Romo-Parra, H. 231
Rompani, S. 508
Romualdi, P. 3.639
Ronacher, B. 2.128
Ron-Angevin, R. 3.860
Roncagliolo, M. 3.047
Roncali, L. 2.010
Ronchi, G. 913, 2.787
Ronco, V. 2.591, 3.672
Ronconi, L. 2.049, 3.897
Rondi-Reig, L. 588, 2.223, 3.630
Ronnback, L. 3.162
Ronovsky, M. 622
Ronowska, A. 336, 2.056
Ronzitti, G. 724, 818, 3.082
Ronzoni, G. 2.704
Roohi, N. 623
Rooney, G. 40
Roozendaal, B. 593, 2.215, 2.216, 3.378
Roppelt, C. 2.827
Ropponen, J. 2.767
Rorato, R.C. 3.320
Ros Gómez, C.M. 2.031
Ros, C.M. 1.635, 1.974
Ros, E. 531, 542
Rosa, K.P.S. 2.164
Rosa, M. 2.919
Rosa, M.G.P. 2.737, 2.757, 3.341
Rosa, P. 1.816, 1.819
Rosanova, M. 286, 1.427, 1.505, 1.715, 2.920
Rosanova, M.C.E. 3.604
Rosario, M. 3.784, 885
Rosato Siri, M. 3.570, 3.571
Rosay, B. 385
Rosberg, M. 2.022
Rosberg, M.R. 363
Roschin, M. 1.597
Roscini, L. 983, 2.683
Rose, C.R. 302, 747, 3.094
Rose-John, S. 920
Roselli, F. 3.740
Rosen, C. 3.193
Rosenberg, N. 3.586
Rosenblum, K. 1.889
Rosenbrock, H. 263, 2.874
Rosendale, M. 2.545, 3.979
Rosenthal, J. 2.054
Roshchin, M. 2.217
Roshchina, M. 1.135, 1.136, 1.137
Rosier, M. 3.053
Rosillo, C. 3.558
Roska, B. 508, 2.407, 3.455
Rosner, J. 1.809, 2.508
Rossato, J. 1.130, 1.131
Rossetti, A. 3.770
Rossetti, A.O. 2.000
Rossetti, C. 1.582

Rossetto, O. 2.532
Rossi, A. 3.440
Rossi, D. 3.141, 3.741
Rossi, F. 784, 787, 1.294, 1.300, 1.407, 1.514, 1.515, 2.601, 2.602, 2.850
Rossi, F.M. 1.406
Rossi, L. 2.745
Rossi, M. 2.161
Rossi, P. 1.356
Rossi, P.I.A. 850
Rossi, R. 461
Rossignol, R. 2.625
Rossini, P.M. 2.198, 2.915
Rosskothen-Kuhl, N. 1.012, 2.115, 2.117
Rossokhin, A. 3.561
Rostas, J. 2.416
Rostosky, C. 1.913
Roszuk, I. 1.090
Rota Nodari, L. 2.620
Roth, P. 184
Rothe, T. 1.457
Rotheneichner, P. 2.996
Röther, M. 258
Rothkegel, M. 312, 1.904
Rothstein, J.D. 2.609
Rottenberg, M. 1.549
Rottner, K. 1.913
Rottoli, E. 364
Rouach, N. 1.200, 1.203, 2.549, 3.051
Rouaud, F. 561
Roudeau, S. 822
Roudi, Y. 1.120
Rougon, G. 712
Rouiller, E. 2.169, 3.150, 3.152
Rouiller, E.M. 493, 1.037, 3.151
Rouleau, G.A. 3.830
Roura, M. 3.420
Roura-ferrer, M. 2.290
Roura-Martinez, D. 2.074
Rousseau, V. 451, 470
Rousselle, A. 1.527
Roux, C. 3.150, 3.151
Roux, L. 2.224
Rouyar, A. 3.238
Rouzi, T. 2.777
Rovère, C. 561, 3.114
Rovida, E. 824
Rovira, X. 2.900
Roybon, L. 1.451
Royer, D. 201
Royer, L. 268
Royo, N. 230
Rozeske, R. 1.144, 1.148, 1.149
Rozov, A.V. 3.537
Rozsa, B. 508, 1.866, 284, 1.216, 1.220, 1.336, 1.337, 3.056, 3.624
Rózsa, M. 3.056
Rozzi, S. 1.223, 3.805
Rubenstein, J. 82, 114
Rubi, L. 1.867
Rubin, A. 638, 639, 642
Rubin, G.M. 2.276
Rubino, T. 2.723, 2.731
Rubio Rubio, L. 739
Rubio, A. 2.956
Rubio, M. 2.981
Rubio-Garrido, P. 485, 1.610
Ruchti, E. 296
Ruck, T. 2.774
Rudinskiy, N. 3.650
Rudolph, R. 3.050
Rueda-Orozco, P. 1.048
Ruehle, S. 228, 231
Ruffaldi, E. 1.097
Ruffault, P.L. 90
Ruffinatti, F. 3.988
Ruffini, F. 2.018
Rufini, C. 2.199
Rüger, B. 1.525
Ruggieri, A. 2.002
Ruhrberg, C. 2.928
Ruhrmann, S. 3.189
Ruigrok, T.J. 3.299
Ruiperez Alonso, M. 2.509
Ruiz Perera, L. 1.407
Ruiz, L. 2.254
Ruiz, R. 1.374, 1.393
Ruiz-Bronchal, E. 347
Ruiz-Mejias, M. 813
Ruiz-Ortega, J.A. 3.704
Ruiz-Salas, J.C. 3.187
Ruiz-Sauri, A. 1.535
Ruiz-Veguillas, M. 3.187
Rujescu, D. 443
Rukavina, M. 1.291
Rumiati, R.I. 1.702
Rumi-Masante, J. 2.570
Ruminot, I. 3.980
Rumpel, S. 1.911, 2.124
Rungta, R. 3.418
Ruotolo, R. 1.443
Ruozi, B. 3.170
Rupprecht, R. 293
Rupprecht, V. 1.350
Rusadze, K.H. 2.849
Rusakov, D.A. 766
Ruschkies, L. 744
Rusconi, F. 3.102
Rusconi, L. 2.633
Rusmini, P. 847, 848, 2.789, 3.726
Russell, N. 288, 2.913, 2.925
Russig, H.D. 1.755
Russo, D. 1.532
Russo, E. 2.095
Russo, G. 659, 830, 851, 2.463
Russo, I. 341, 1.390, 2.472, 3.012, 3.033
Rustico, M. 209
Rusu, S. 3.340
Ruszczycki, B. 2.716
Rutenber, E. 1.432
Ruther, P. 3.428
Rutkowska, A. 2.023
Rutkowska, I. 3.981
Rutkowska-Wlodarczyk, I. 1.906
Rutten, B.P.F. 345
Rüttiger, L. 958
Ruzicka, J. 1.453, 2.652
Ruzza, C. 3.771
Ryan, P.J. 2.082
Ryan, T. 1.921
Ryazanova, M. 2.705
Ryazantseva, M. 3.673
Rybalko, N. 994
Rybkina, T. 1.374
Ryglewski, S. 2.449, 2.998
Rylski, M. 3.045
Ryu, B. 2.271
Ryu, H.R. 1.832
Ryu, J. 2.271, 3.965
Ryu, S. 143, 147, 2.588, 2.796
Ryu, Y. 2.207, 3.637
Ryu, Y.H. 2.084
Rzemieniec, J. 901, 1.556
S Costa, S.C. 1.974
Saad, S. 237
Saarma, M. 1.988
Sab, I. 1.503
Sabado, V. 1.998
Sabanov, V. 2.539, 3.024
Sabatino Maione, S.M. 3.156
Sabbioni, M. 3.213
Sabel, B.A. 2.143
Sabo, J. 895
Sabrautzky, S. 2.597
Sacchetti, B. 783, 1.141
Sacchetti, G. 479, 722, 729
Sacchi, S. 3.194
Saccoccio, P. 3.937
Saccone, P. 2.225
Sacconi, L. 1.776
Sacktor, T.C. 2.243
Sadakari, J. 3.974
Sadeghzadeh, J. 970
Sadelli, K. 200, 201
Sader, E. 2.823
Sadikot, A.F. 3.687
Sadlaoud, K. 2.653
Sadoul, R. 1.892, 2.974
Sadoun, A. 3.341
Sadowska, J. 3.208, 3.236
Saemann, P. 2.700
Saenz Cogollo, J.F. 1.169
Saez, I. 3.927
Saez, J. 2.629, 3.505
Sáez, J.A. 1.634
Sáez, J.C. 1.371
Safonicheva, M. 3.876
Safonicheva, O. 1.114
Safonicheva, O.G. 3.876
Safronov, B. 3.282
Saftenku, E. 270
Saga, Y. 3.404
Saghafi, S. 1.778
Saghiri, R. 3.567
Sagnou, M. 1.442
Sah, P. 769, 3.626
Sahaboglu Tekgöz, A. 2.048
Sahaboglu, A. 1.637
Sahakian, B. 171
Sahani, M. 2.129
Sahay, A. 1.588, 2.682
Sahel, J. 2.339
Sahel, J.A. 2.336
Sahlholm, K. 3.195
Saia, L. 1.427
Saika, F. 2.768
Sailer, A.W. 2.023
Sainlos, M. 3.979
Sainsily, X. 2.495
Saint-Amaux, A. 2.276
Saint-Amour, D. 3.898
Sais, F. 3.899
Saito, M. 1.923, 2.555, 2.648
Saito, Y.M. 1.836
Saiz-sanchez, D. 3.688
Sakaguchi, T. 3.038
Sakai, K. 289, 1.058, 1.059, 1.276, 2.921, 3.574
Sakalem, M. 715
Sakamoto, Y. 2.098, 2.102
Sakata, H. 872
Sakata, S. 995, 1.013, 1.649
Sakharchuk, O. 3.793
Sakharnova, T. 229, 2.497, 3.600
Sakharov, D.A. 2.890
Sakimura, K. 772, 1.834, 2.513, 3.294
Sakly, M. 2.677
Sakmann, B. 8
Sakry, D. 3.059
Sakuraba, K. 2.180
Sakurai, T. 2.811, 3.383
Sala, B. 3.828
Sala, C. 825, 878, 1.382, 2.001, 3.016, 3.217, 3.218, 3.219, 3.227, 3.232
Sala, M. 1.382, 1.905, 2.729, 2.840, 3.102
Salado, A.c. 2.290
Salam, S. 3.277
Salamone, J.D. 3.966
Salas, J. 2.989
Salatino, A. 3.900
Salazar, I. 902
Salazar, K. 2.187, 2.965

Sale, A. 2.329
Saleem, A. 2.142
Saleem, A.B. 2.405
Saleh, M.C. 1.504
Saleh, T. 1.504
Salehi, H. 1.522
Salery, M. 790, 2.063, 3.785
Salih, M. 3.212
Salih, S. 2.604
Salin, P. 3.053
Salinas-Navarro, M. 950
Salio, C. 3.273
Salkicevic, S. 3.901
Salkovic-Petrisic, M. 3.677
Salmina, A.B. 1.743
Salmon, I. 3.435
Salmona, M. 1.433
Salozhin, S.V. 3.021
Salvetat, N. 956
Salvetti, B. 2.049
Salvi, M. 987
Salvolini, U. 1.109
Salzet, M. 1.516, 1.519
Samaddar, T. 3.013
Samadi, P. 1.459
Sämann, P. 2.680
Samari, N. 3.167
Samba, R. 1.186
Sambataro, F. 3.781
Sameshima, K. 3.358
Sampaio dos Aidos, F.D.S. 1.885, 2.524
Sampedro-Piquero, P. 3.342, 3.362
Samson, R. 683
Samtleben, S. 3.437
Samuelsson, L. 2.910
San Martin, A. 3.980
San Miguel, N. 3.966
Sanada, L.S. 368
Sanches, E.F. 2.780
Sánchez Alonso-Mardones, J.L. 1.937
Sanchez De Lucio, J. 3.989
Sánchez Farías, N. 2.456
Sánchez, C. 2.099
Sanchez, G. 896
Sánchez, J.V.L. 3.339
Sanchez, N. 2.105
Sánchez-Aguilera López, A. 1.937
Sánchez-Alcañiz, J.A. 2.930
Sánchez-Barroso, A. 3.187
Sánchez-Campusano, R. 611
Sánchez-González, A. 1.993
Sánchez-Herranz, A. 2.600
Sánchez-Hidalgo, A.C. 2.582
Sánchez-Horcajo, R. 2.201
Sánchez-Huerta, K.B. 2.950
Sánchez-López, A. 1.071
Sánchez-López, F. 2.026
Sanchez-Matarredona, D. 2.527
Sánchez-Pérez, A.M. 1.421, 2.834, 3.540
Sánchez-Ponce, D. 1.366
Sánchez-Prieto, J. 945
Sánchez-Puelles, C. 3.026
Sánchez-Vives, M.V. 813
Sancho, C. 1.651
Sancristóbal, B. 556
Sanders, P. 1.467
Sandi, C. 111, 434, 1.067, 1.670, 1.769, 1.850, 2.800, 2.896, 3.322, 3.410
Sandini, G. 999, 2.401, 3.813
Sandor, B. 2.457
Sandoval, J.E. 180
Sandra Cottet, S.C. 1.637
Sandra Hoyos, S. 571
Sandrini, G. 3.817
Sandy, E. 3.692
Saneyoshi, T. 1.912
Saneyoshi, T.S. 1.912
San-Galli, A. 3.411
Sani, I. 1.081, 2.841
SanMartín, C.D. 3.665
Sanmartin, G. 2.203
Sannino, S. 2.239
Sano, A. 2.123
Sano, H. 1.049
Sans, N. 3.215
Santa Cecilia, F. 2.032
Santafe, M.M. 372, 254, 1.372, 1.373
Santambrogio, P. 824
Santana, I. 2.574
Santandrea, E. 1.081, 2.841
Santangelo, R. 402
Santarelli, S. 1.674, 2.680
Santi Miño, A. 3.381
Santi, S. 2.444
Santiago, M. 1.566
Santiago, M.F. 3.157
Santin, L. 3.396, 3.397
Santini, E. 136
Santini, F. 565
Santoro, R. 2.118, 3.472
Santos Do Carmo, M. 2.460
Santos Galdiano, M. 898, 3.112
Santos Monte, A. 2.460
Santos, A. 3.674
Santos, D. 916, 1.181, 3.439
Santos, F. 3.950
Santos, M.S. 1.435, 1.454, 2.178
Santos, R. 2.713
Santos, R.M. 3.288
Santos, R.X. 2.178
Santos, S. 1.397
Santos, S.D. 3.018
Santos, T. 2.438
Santos-Filho, C. 303
Santos-Junior, J.G. 2.066
Santos-Toscano, R. 2.074
Sanz, P. 3.100
Saper, C.B. 1.155
Sapina, E. 2.106
Saponjic, J. 2.193
Sara López, S. 571
Sara, S.J. 95
Sarac, H. 3.727
Saraceno, C. 3.660
Saralidze, E. 3.759
Sarantis, K. 1.333, 2.986
Sarantseva, S. 371
Sarasso, S. 286, 433, 1.427, 1.505, 2.194, 2.920, 3.604
Saraulli, D. 316, 1.800
Sarazin, M. 1.964
Sardari, M. 3.951
Sardi, C. 2.018
Sardinha, V.M. 306
Sardone, V. 854, 2.608
Sargiannidou, I. 1.569, 1.571
Saria, A. 2.710, 2.730
Sarihi, A. 623
Sarkies, P. 2.430
Sarkisova, K. 2.185, 3.760
Sarlos, D.P. 3.877
Sarmiento, J. 2.965
Sarmiento, M. 1.566
Sarna, J. 693
Sarnataro, D. 221
Sarnico, I. 1.443
Sarnowska, A. 1.306, 3.137
Sarszegi, Z. 3.877
Sarter, M. 50, 3.490
Sartim, A. 3.405
Sarto-Jackson, I. 791
Sartori, G. 1.691
Sartori, S. 759
Sartori, S.B. 3.391
Sarubbo, F. 2.254, 2.255, 2.256
Sasai, Y. 2.408
Sasaki, R. 265, 266
Sasaki, T. 3.974
Sasso, F. 135
Sassoè-Pognetto, M. 3.224
Sassone, F. 1.458, 3.082, 3.739
Sassone, J. 826, 1.458, 3.082, 3.739
Sassone-Corsi, P. 3.454
Säther, R. 1.430
Sato, H. 2.140
Sato, K. 1.303
Sato, S. 3.082
Sato, T. 1.019, 1.836
Sato, T.K. 2.745
Satoh, A. 2.180
Sattin, D. 3.141
Sattler, R. 2.609
Saudargiene, A. 1.902
Saudou, F. 2.394
Sauer, M.K. 988
Saunders, R.C. 1.115
Saura, C.A. 3.651
Sauvet, F. 3.925
Savall, J. 1.786
Savalli, G. 622
Savardi, A. 1.889
Savas, J. 1.824
Savazzi, S. 3.267, 3.268
Savchenko, A. 3.169
Save, E. 1.736
Savidan, J. 2.169, 3.150, 3.151
Savidge, T. 478
Savino, M. 1.815
Savoia, C. 903, 905
Savoia, E. 3.249
Savoia, P. 3.083
Savonenko, A. 1.967
Savostyanov, A. 2.706
Savostyanov, A.N. 635
Savotchenko, A. 3.040
Savtchouk, I. 35
Sawa, A. 3.203
Sawa, K. 3.352
Sayas, L. 2.439
Saygi, T. 1.611
Sayyida, N. 1.967
Scabia, G. 565
Scadden, M. 1.858
Scaglione, F. 3.326
Scagnoli, F. 1.815
Scain, A.L. 685
Scala, F. 242
Scali, M. 565
Scalmani, P. 1.872
Scalzo, P.L. 3.690
Scambi, I. 845
Scammell, T.E. 2.192
Scandaglia, M. 3.514, 3.938
Scaramuzza, L. 461
Scaramuzzino, C. 3.736
Scarano, A. 3.642
Scardigli, R. 1.800, 2.577
Scardina, S. 980
Scarnati, E. 1.051
Scarone, S. 433
Scarongella, H. 2.293
Scartabelli, T. 2.068
Scattoni, M.L. 464, 3.213
Scesa, G. 1.513
Schaaff, M. 3.232
Schabus, M. 1.707
Schachner, M. 2.937
Schachtrup, C. 3.142, 3.163
Schachtrup, K. 3.142, 3.163
Schaefer, M. 2.440
Schaefer, M.H. 3.725

Schaefer, M.K.E. 2.437
Schaefer, U. 3.508
Schaer, M. 2.823
Schäfer, K.H. 298
Schäfer, M. 2.968
Schäfer, N. 2.624
Schafferer, S. 3.942
Schaller, F. 3.221
Schalling, M. 546
Schanze, D. 1.401
Schanze, D.S. 2.530
Scharkowski, F. 1.913
Scheenen, W.J.J.M. 3.835
Scheffer, D. 1.038
Scheggi, S. 3.406
Scheggia, D. 2.239
Scheiblich, H. 1.353
Scheich, H. 2.903
Scheiffele, P. 659
Schelch, K. 2.901
Scheller, A. 1.817
Schelling, G. 2.215
Schellino, R. 3.251
Schenk, F. 2.862
Schenker, E. 637, 3.963
Schenone, A. 2.025
Schenstrøm, S.M. 1.430
Scherbakov, N. 920
Scherrmann, J.M. 2.288
Scheyltjens, I. 2.902
Schiavi, S. 1.110
Schiavo, G. 2.390, 2.395
Schiavoni, M.C.L. 368
Schicker, K. 759
Schicker, K.W. 751
Schicknick, H. 3.954
Schiefermeier, N. 517
Schiemann, J. 2.791
Schiena, G. 433
Schiffer, D. 1.475
Schiffmann, S. 1.043
Schiffmann, S.N. 2.517
Schild, D. 665
Schildge, S. 3.142, 3.163
Schildt, S. 445
Schilling, E. 258
Schilstrom, B. 2.709
Schimmang, T. 958, 3.512
Schindelin, H. 3.524
Schio, F. 2.049
Schirinzi, T. 1.044
Schirru, C. 1.579
Schiwek, I. 495
Schiza, N. 1.569, 1.571
Schlachetzki, J. 3.074
Schlaudraff, F. 3.078
Schledde, B. 2.747
Schleinkofer, K. 2.624
Schlesiger, M.I. 2.406
Schlichter, R. 2.477, 3.274
Schlicksupp, A. 796
Schlingloff, D. 3.607
Schloss, P. 1.809, 2.099, 2.508, 3.582
Schlötzer-Schrehardt, U. 258
Schlueter, A. 3.535
Schlüter, A. 2.568
Schlüter, O. 3.794
Schlüter, O.M. 1.339, 1.899, 2.884, 3.013
Schmälzle, J. 3.980
Schmeisser, M. 3.232
Schmeisser, M.J.S. 3.229
Schmid, A. 3.650
Schmid, L. 651, 1.914
Schmidlin, E. 2.169, 3.150, 3.151, 3.152
Schmidt, B. 651, 1.914, 2.923
Schmidt, C. 2.937
Schmidt, E. 697
Schmidt, K. 1.637
Schmidt, K.F. 2.146
Schmidt, M. 1.267
Schmidt, M.V. 551, 1.674, 2.680, 2.693
Schmidt, R. 2.228, 2.229
Schmidt, U. 2.694
Schmidt-Kastner, R. 345
Schmidtke, D. 3.343
Schmitgen, M. 3.196
Schmitt, A. 3.677
Schmitt, A.G. 706, 1.848, 2.086
Schmitt, N. 1.362
Schmitz, D. 2.858, 3.632
Schmöle, A.C. 1.950
Schmouth, J. 3.830
Schmuckermair, C. 759, 2.996
Schnaar, R.l. 1.932
Schneeberger, D. 3.524
Schneider Gasser, E.M. 1.727
Schneider, A. 329
Schneider, B.L. 346, 936, 3.831
Schneider, C. 3.159
Schneider, R. 1.244, 2.024
Schneider, S. 3.197
Schneider, T. 2.999
Schnell, K. 3.196
Schnepf, B. 1.518
Schnitzer, M.J. 1.786
Schnupp, J. 2.113, 2.119
Schoch, S. 636, 656
Schoch-McGovern, S. 812
Schoen, M.S. 477
Schoenenberger, P. 632
Schoenmaker, M. 625
Schoepf, C. 3.000
Schoffelmeer, A.N.M. 1.212
Schöler, H. 715
Scholl, F.G. 3.231
Scholz, C.J. 706
Scholze, P. 1.864
Scholz-Starke, J. 1.870
Schonewille, M. 3.299
Schönfeld, F. 3.363
Schönfelder, V. 1.750
Schoofs, L. 3.552
Schoonjans, K. 1.304
Schöpf, C.L. 758
Schorderet, D. 871
Schori, H. 3.443
Schott, B. 3.772
Schott, B.H. 2.824
Schouenborg, J. 2.910
Schouten, A.C. 3.846
Schouten, M. 2.931
Schratt, G. 1.833, 2.319
Schratt, G.M. 3.517
Schraut, K. 706
Schraven, S. 958
Schreiber, S. 964
Schreiner, D. 659
Schreitmueller, M. 3.001
Schrenk, S. 298
Schreuder, A. 3.172
Schreurs, R. 2.931
Schrödel, T. 1.782, 3.978
Schröder, S. 3.608
Schroeder, A. 3.198
Schroeder, C. 1.628
Schroeder, M. 744
Schroeter, F. 2.024
Schrötter, S. 2.297
Schubert, M. 1.652, 1.906
Schubert, W. 1.805
Schuele, B. 820
Schuette, S. 3.416
Schuh, A.F.S. 3.691
Schuler, F. 3.634
Schulte, R. 3.055
Schulte, U. 754
Schultz, C. 291, 3.535
Schultz, S. 1.791
Schultz, S.R. 1.408, 2.868
Schultz, W. 3.930
Schultze, J. 2.250
Schulz, A. 1.014, 2.120, 3.503
Schulz, J. 1.847
Schurek, B. 744
Schuster, A. 298
Schütz, A. 1.434
Schütze, S. 2.015
Schützler, N. 2.449
Schüz, A. 1.612
Schwab, M.E. 776, 1.417, 1.919, 2.167
Schwab, M.H. 212
Schwab, Y. 3.209
Schwager, R. 1.820
Schwald, K. 2.440
Schwaller, B. 472
Schwamborn, J. 715
Schwaninger, M. 393, 1.155, 3.125
Schwarcz, R. 437
Schwarz, A. 646
Schwarz, G. 1.886, 2.522, 3.006, 3.009
Schwarz, J. 3.511
Schwarz, M. 636
Schwarz, Y.N. 250
Schwarzacher, S. 1.812
Schwarzacher, S.W. 2.955
Schwarzer, C. 758, 941, 3.407, 3.565, 3.765
Schwarzinger, S. 2.624
Schwedhelm-Domeyer, N. 3.717
Schweinhuber, S. 312
Schweitzer, B. 2.510
Schweitzer, J. 1.310
Schweizer, M. 744, 1.825
Schweizer, N. 3.705
Schwendt, M. 2.708, 3.786
Schwenk, B. 327
Sciamanna, G. 1.044, 1.050, 3.297
Sciancalepore, M. 450, 1.351
Scifo, A. 3.787
Scifo, P. 3.261
Sclip, A. 2.576, 2.580
Scorrano, L. 903, 968
Scorza, M. 3.967
Scorzeto, M. 2.532
Scorziello, A. 905
Scott, A. 2.971
Scott, R. 3.233
Scott, R.S. 766
Scotti, A.L. 607
Scotto-Lomassesse, S. 121
Scrivo, A. 373
Scuderi, J. 2.790
Sculco, M. 1.514
Scuteri, A. 965, 1.560
Sears, C.S. 753
Sebastiao, A.M. 2.489, 3.049, 2.438, 2.488, 3.513, 3.580, 3.674
Sebastião, I. 1.435, 1.454, 2.178
Sebentsova, E.A. 2.646
Sechter, D. 2.725
Seckl, J.R. 1.697
Secondo, A. 767, 905, 1.553
Sedlacik, J. 1.495
Sedmak, G. 2.966
Sedó-Cabezón, L. 961
Seeger, G. 782
Seegobin, M.A. 835
Seeliger, M. 759
Segabinazi, E. 2.640
Segal, M. 2.549
Seger, G. 478
Segnali, A. 1.295

Segovia, G. 2.704
Segovia, J. 2.950
Seguini, M. 3.778
Segura-Aguilar, J. 3.084
Seibt, F. 2.477
Seiça, R. 2.178
Seidel, W. 2.814
Seidel, W.F. 2.809
Seidenbecher, C. 3.527, 3.772
Seidenbecher, C.I. 791, 2.824, 3.041
Seifritz, E. 1.576, 1.665, 2.678, 3.781
Seiler, S. 717, 2.847, 2.952
Seillier, A. 442
Seiss, E. 3.899, 3.931
Seitz, A. 1.611
Sekiguchi, F. 518, 2.766
Sekino, Y. 1.303
Sela, M. 405
Selander, L. 546
Selfridge, J. 3.453
Selicorni, A. 681
Selimi, F. 529, 697, 2.462, 3.525
Sellami, A. 583, 584
Sellers, K. 1.837
Selt, M.S. 1.492
selten, M. 1.395
Seltmann, S. 2.121
Selvidge, J. 1.185
Selway, R. 2.007
Semenkovich, C.F. 1.820
Semmelhack, J.L. 146
Semtner, M. 406, 2.519, 2.522
Semyanov, A. 773
Semyanov, A.V. 3.067
Sengpiel, F. 2.326
Sengupta, T. 3.874
Senik, M.H. 2.912
Senkov, O. 3.027
Senkowski, D. 3.895
Senn, V. 1.928
Senna, S.C. 2.164
Seo, J.Y. 2.080
Seo, S. 1.687
Seoane, J. 1.263
Seok, H. 1.671
Seol, G. 2.685, 3.136
Seong, J.Y. 1.664
Seong, Y. 904, 1.957
Sepe, S. 951, 1.994, 3.670, 3.706
Sepman, H. 949, 2.009
Sepúlveda-Falla, D. 3.655
Sequeira, A.C. 2.726
Sequeira, C.M. 1.503
Serafin, N. 3.378
Serbe, E. 2.761, 3.269
Serchov, T. 1.650, 3.773
Serdijn, W.A. 1.490
Sereda, M.W. 2.025
Seregni, F. 1.505
Serfözö, Z. 3.252
Sergeeva, E. 2.143
Sernagor, E. 1.171
Serra, C. 766, 3.233
Serra, G. 3.788
Serra, G.P. 2.727, 2.728, 3.409
Serra, M.P. 1.498, 2.772, 2.773, 3.828
Serradj, N. 3.853
Serrano Barroso, A. 2.842
Serrano Regal, M. 1.455
Serrano, E.E. 2.114
Serrano, J. 1.455
Serrano, M. 3.026
Serrano, M.E. 2.846
Serrano, P. 2.243
Sessa, A. 713, 2.963, 3.506
Sessolo, M. 755, 3.054
Sestan, N. 1.241
Sestito, M. 3.199
Set, E. 3.927
Setalo, G.Y.J.R. 1.635
Setkowicz, Z. 1.484, 1.488, 1.489, 3.944
Setzu, M.D. 1.586
Seuntjens, E. 115, 208
Sevc, J. 1.818
Seveno, M. 1.620, 2.450
Severi, I. 557
Severi, P. 2.979
Sfriso, R. 298
Sgadò, P. 456
Sgambato-Faure, V. 3.404
Sgaravizzi, G. 2.620
Sgoifo, A. 1.705
Sgritta, M. 537
Sgro', F. 678
Sgrò, F. 2.962
Shackleford, G. 2.013
Shagam, L. 339
Shah, D. 3.621
Shaham, Y. 2.715
Shahar, A. 2.291
Shaheen, R. 3.212
Shakirzyanova, A. 2.763
Shamgar, U. 1.157
Shamma, S. 3.469
Shanks, E. 2.814
Shanks, E.A. 2.809
Shannon, C. 2.652
Shapranova, Y. 519
Sharikadze, N. 4.002
Sharma, R. 3.200
Sharma, R.P. 3.193
Sharon, H. 1.716
Sharonova, I. 3.561
Sharp, T. 3.371
Shaw, C. 1.258
Shea, G.K.H. 1.307
Sheehan, D.F. 3.223
Shefi, O. 3.443
Shehab, S. 3.036, 3.707
Sheinin, A. 3.585
Shen, H. 1.158
Shen, S. 1.713
Shen, X. 837
Shephard, F. 2.189
Shepherd, G.M. 3.243
Sherif, C. 1.525
Sherkhane, P. 3.515
Sherma, V. 1.889
Shestakova, A. 3.934
Shestakova, N. 733
Shestopalov, V.I. 540
Shetty, M. 3.952
Shi, M. 836
Shi, S.H. 1.302
Shibasaki, K. 2.990
Shibata, E. 2.760, 3.811
Shibuya, Y. 3.417
Shie, F. 3.675
Shigemoto, R. 122, 124, 794, 1.357, 2.528
Shigemoto-Mogami, Y. 1.303
Shih, H.N. 1.555
Shih, Y.C. 331
Shimada, T. 2.287
Shimaoka, D. 2.745, 2.908
Shimba, K. 289, 2.921
Shimizu, S. 4.005
Shimobayashi, E. 2.605
Shimokawa, N. 2.107, 2.632
Shin, H.S. 807
Shin, K. 198
Shin, S. 3.421
Shin, Y. 1.714
Shinno, H. 1.972
Shinohara, Y. 3.609
Shinozaki, Y. 2.050
Shipton, O. 125
Shishkina, G. 3.774
Shishkina, T. 2.497
Shiva, S. 1.994
Shkryl, V.M. 2.594
Shofty, B. 2.240
Shoji, H. 3.383
Shokunbi, M.T. 2.644
Shon, Y.M. 2.994
Shouval, H. 2.243
Shukla, A. 2.884
Shulz, D.E. 1.029
Shum, C. 1.258
Shum, D.K.Y. 777, 1.307, 1.603, 2.454, 2.470, 3.201
Shumikhina, S. 2.144
Shupliakov, O. 2.982
Shuvaev, S. 3.424
Shyti, R. 3.002
Shyu, B. 3.103
Siani, F. 3.708, 3.817
Sibarov, D. 2.983
Sibarov, D.A. 294
Sibindi, T. 3.291
Sicard, G. 200
Sich, S. 1.848
Sidiropoulou, K. 3.023
Sieben, K. 805
Siebert, K. 805
Siedlecka, P. 3.137
Siedlecki Wullich, D. 3.651
Siegel, G. 3.517, 3.652
Sieghart, W. 794
Siemann, J. 3.902
Sierra, A. 128, 129, 1.326
Sierra, R.O. 3.950
Sierra-San Nicolas, S. 828
Siffredi, V. 3.903
Sigalas, C. 3.105
Sigman, M. 573
Signore, G. 2.487
Signorini, M.G. 3.030
Sigoillot, S. 697
Sigoillot, S.M. 3.525
Sigrist, H. 1.576, 1.665, 2.678
Sigrist, S. 76
Sigrist, S.J. 2.529
Sikora, M. 2.873, 3.776, 3.968
Silani, G. 1.108
Silani, V. 1.458, 2.486, 3.082, 3.739
Silberberg, G. 271, 1.041, 1.270, 1.274, 1.985, 3.635
Silberring, J. 1.730
Silchenko, A. 3.990
Sili, M. 1.647
Silingardi, D. 3.456
Sillitoe, R.V. 3.298
Silva, A.T.A. 2.268
Silva, B. 3.543
Silva, C.D. 2.726
Silva, C.G. 2.045
Silva, H. 3.594
Silva, H.B. 2.094, 2.593, 3.065
Silva, I.F. 1.335
Silva, N.T. 522
Silva, W. 573
Silva-Hucha, S. 2.618, 2.619
Silvani, A. 2.197
Silvani, S. 965
Silveira Macedo, D. 2.460
Silveira, D.X. 2.066
Silver, H. 440
Silvestri, L. 1.776
Silvestrini, M. 3.423
Silvetti, M. 100
Simard, M. 3.898
Simen, P. 3.922

Simeonidou, C. 921, 3.887
Simi, A. 1.172
Simic, G. 216, 315
Simic, I. 3.775
Simmers, J. 3.849
Simmons, D.G. 3.871
Simoes, A.P. 2.045, 3.019
Simola, N. 362, 3.408, 3.701
Simon, A. 3.372
Simon, E. 1.716
Simon, L. 2.170
Simon, N. 1.701
Simon, S. 1.175
Simonato, M. 1.491
Simone, C. 2.611
Simonetto, M. 3.709
Simonneau, C. 3.114
Simonnet, A. 3.789
Simonnet, J. 290, 1.933
Simonov, A. 3.110
Simonov, A.Y.U. 814
Simon-Rousseau, N. 3.114
Simonyan, L. 1.178
Simor, A. 387, 1.384, 1.596, 3.657
Simpson, I. 135
Sindi, R. 2.051
Sindo, S. 1.392
Sinforiani, E. 1.963
Singer, W. 958, 2.132
Singewald, N. 794, 2.996, 3.391, 3.942
singh, J. 3.041
Singh, V. 935, 1.353
Sinha, R. 2.070
Sinha, S. 2.606
Sinyakova, N.A. 2.706
Sipilä, P. 3.767
Siqueira, R. 2.478
Siqueira, R.M.P. 352, 1.335
Sirabella, R. 767, 894
Siracusa, F. 2.752
Siracusa, R. 1.437, 3.161, 3.710
SIRÉN, A.L. 1.564
Sirigu, A.R. 1.498
Sironi, L. 1.819
Sisalli, M. 905
Siskos, N. 185
Sisler, V. 1.054
Sisquella, M. 372
Sita, G. 1.561, 3.138
Sita, L.V. 3.312
Siu, K.L. 3.201
Siucinska, E. 3.843
Sivado, M. 1.355
Sivakumaran, S. 3.104
Sivilia, S. 874
Siwek, M.E. 3.005
Siwiec, M. 566
Sjöstedt, E. 182
Sjulson, L. 1.041
Skadborg, S. 928
Skafidas, E. 1.868
Skaliora, I. 3.105
Skaper, S.D. 1.558
Skavatsou, E. 3.714
Skibicka, K. 549
Skibo, G. 3.344, 3.875
Skieterska, K. 676
Skipper, C. 2.258
Skiteva, O. 1.880
Skobeleva, K. 3.673
Skoulakis, E.M.C. 2.277
Skovierová, H. 1.563
Skrebitsky, V. 3.646, 3.676
Skulachev, V.P. 3.676
Skup, M. 2.781
Skupien, A. 780, 1.548, 3.516
Skupio, U. 3.776
Slack, R.S. 835
Slamberova, R. 2.075, 2.076, 2.078, 2.079
Slater, H. 3.718
Slater, P. 3.790
Slawinska, U. 2.667, 2.776, 2.782
Slimani, H. 1.022
Slobodskoj-Plusnin, J.Y. 3.908
Slomianka, L. 1.803, 1.810
Slomowitz, E. 1.402
Slovinska, L. 1.516, 1.519, 2.659
Slugocka, A. 3.292
Slusarczyk, J. 1.575, 2.060, 2.670, 3.777, 3.885
Slutsky, I. 1.402, 3.593
Small, D.H. 4.001
Smalla, K.H. 791, 3.954, 1.932
Smart, T. 1.840
Smart, T.G. 244, 2.521, 3.556
Smedowski, A. 2.052
Smerdou, C. 3.436
Smirnova, M. 2.288
Smit, A.B. 1.385, 2.509
Smith III, E.L. 2.738
Smith, C. 3.319
Smith, C.J.A. 3.705
Smith, C.M. 3.801
Smith, G. 1.218
Smith, P. 1.771
Smith, S. 3.440
Smolders, I. 384
Smolders, K. 2.742
Smolek, T. 318, 323
Smolinsky, B. 2.522
Smorlesi, A. 557
Smulders, T.V. 3.615
Smutek, M. 2.873
Smyllie, N. 3.610
Snell, E. 1.285, 2.414
Snitcofsky, M. 614
So, K.F. 1.801
Soares, C. 1.830, 2.511
Soares, J. 3.753, 3.761
Soares, J.I. 3.097
Soares, R. 3.320
Soares-Cunha, C. 691
Soares-Rachetti, V. 2.684
Soares-Rachetti, V.P. 1.981
Sobieski, C. 1.854
Sobolewska, A. 3.837
Sobolewski, A. 1.028
Soch, J. 3.772
Sociali, G. 2.025
Socias, B. 2.032
Socias, S.B. 668
Socolov, R. 3.600
Soda, T. 538
Söderpalm, B. 217
Södersten, E. 1.405
Soeller, C. 1.893
Soghomonyan, S. 2.054
Sogn, C. 3.066
Sogn, C.J. 2.984
Sogos, V. 3.742
Sohal, V. 82
Sohn, J. 2.975
Soiza-Reilly, M. 2.458
Sokabe, M. 2.246
Sokka, L. 1.093, 3.894
Sokol, P. 3.293
Sokolova, N. 877, 1.550, 2.818
Sokolova, N.A. 1.644
Solá, S. 202
Solanka, L. 3.611
Solari, N. 458, 3.711
Soldovieri, M.V. 1.364, 1.365, 3.572, 521
Solecki, W. 3.791
Soler, R.M. 841, 3.737
Soler-Martín, C. 961
Solfrank, B. 1.674
Solich, J. 1.673, 3.636
Solinas, M. 3.792, 3.960
Solinas, S. 539, 3.287
Soliño, M. 2.053
Solis, O. 3.712
Solis-Escalante, T. 3.846
Soliz, J. 692
Solmaz, V. 3.699
Solntseva, E. 2.520, 3.646
Somerled, S. 3.957
Sommer, B. 1.235
Somogyi, A. 3.681, 3.991
Somogyi, P. 2.552
Somogyi, V. 3.305
Somogyvari, Z. 672
Somvanshi, P. 2.606
Son, S. 2.588
Song, C. 2.909
Song, H. 1.701, 2.385, 2.386
Song, I. 773, 1.388
Song, J. 906, 2.461
Song, J.H. 3.128
Song, N. 837, 3.085, 3.088, 3.089
Song, W. 3.653
Song, Y. 3.201
Sonneveld, R. 3.509
Sonntag, K. 3.346
Sonobe, T. 2.924
Soong, T. 272
Sopova, E. 2.982
Sorarù, G. 2.620
Sorati, M. 1.121
Soraya Valles, V. 1.431
Sørensen, A.T. 1.478
Sørensen, J. 510, 1.367
Soria, F. 907
Soria, J.M. 934, 2.033
Soria-Gómez, E. 945
Soriano, E. 2.442
Soricelli, A. 2.198, 2.915
Sorrell, J. 3.153
Sortino, M.A. 3.285
Sosiedka, I. 3.253
Sossin, W. 3.598
Sossin, W.S. 1.412
Sosulina, L. 812
Sotdnikova, T. 728
Sothilingam, V. 759
Sotiropoulos, I. 513, 2.674, 3.345
Sotnikov, S.V. 2.701
Soto del Cerro, D. 741
Soto Leòn, V. 3.818
Soto, D. 740, 1.357
Soto, E. 1.598, 1.879
Soto-Leon, V. 1.176, 1.177
Sotomayor-Zárate, R. 1.055
Sótonyi, P. 558, 1.909
Sottile, V. 2.604
Soubeyre, V. 3.250
Souchet, B. 2.578
Soumier, A. 1.271
Sourd, L. 852
Sousa, A. 2.275
Sousa, B.S. 608
Sousa, J. 2.853
Sousa, J.C. 1.725
Sousa, M. 2.438
Sousa, N. 306, 513, 587, 691, 1.328, 1.725, 1.755, 2.674, 2.853, 3.345
Sousa-Ferreira, L. 3.301
Soussi, R. 2.288
Souza, A.L. 2.735
Souza, C.M. 348, 2.260, 2.268, 3.395, 3.695
Souza, M.S. 3.690
Souza-Talarico, J. 2.208
Sowa, J. 2.873, 3.885

Soya, S. 3.383
Soykan, T. 3.524, 3.553
Spaccatini, C. 404, 2.580, 3.080
Spaccini, L. 209
Spadini, S. 377, 1.380, 3.106
Spagnuolo, P. 878
Spaiardi, P. 804
Spalek, K. 1.700
Spalletta, G. 2.239
Spampanato, J. 769
Spanagel, R. 2.064, 2.721
Spandou, E. 921, 3.887
Spang, N.S. 1.682
Spanke, J. 527, 533, 1.490
Spanke, J.K. 525, 526
Spano, P. 3.092
Spano, P.F. 984, 3.132, 3.686, 3.702
Spanswick, S.C. 1.116
Sparenberg, M. 1.983
Sparr, E. 1.960
Sparrowhawk, K. 579
Spatola, G. 2.602
Spatuzza, M. 449, 459
Specht, A. 1.774
Specht, C. 2.518
Spedding, M. 430
Spencer-Smith, M. 3.903
Speranza, L. 1.915
Sperin, E. 3.692
Sperk, G. 390, 3.369
Sperlagh, B. 3.086
Speziale, C. 3.055
Spicarova, D. 3.283
Spiegelhalter, C. 3.209
Spiegler, A. 1.422
Spierer, L. 3.150
Spiers, H. 2.829
Spigolon, G. 1.405, 2.847
Spijker, S. 1.385, 2.509
Spijkerboer, A. 2.209
Spillantini, M.G. 325, 3.092, 3.702
Spiller, D. 3.610
Spinelli, D. 3.813
Spinelli, S. 3.781
Spira, M. 1.186
Spires-Jones, T.L. 2.585
Spiská, V. 3.542
Spolidoro, M. 529
Spoormaker, V.I. 2.700
Sposato, V. 3.654
Sprengel, R. 1.140, 1.748
Sprenger, E. 2.719
Spyrka, J. 3.587
Squirrell, D. 335
Sreedharan, S. 3.952
Sriram, B. 500, 2.145
Srisawat, R. 3.969
Srivastava, D.P. 439, 1.837
St. Laurent, R.M. 2.715
Staar, B. 1.938
Stachowicz, A. 2.670
Stadler, T. 520
Stagni, F. 873
Staiger, J.F. 3.841, 3.845
Stam, C.J. 2.647
Stamatakis, A. 233, 3.879, 3.880
Stamegna, J.C. 200
Stancampiano, R. 1.980
Stancu, M. 1.507, 1.688
Stangel, M. 1.353, 2.028
Staniaszek, L.E. 806
Stanic, J. 2.512
Stanic, K. 2.441
Stanika, R. 3.000
Stanis, J. 3.346
Stanisavljevic, D. 1.305
Stanisor, L. 2.238
Stankova, A. 3.351
Stanojlovic, O. 1.486
Stanziano, M. 1.506
Stappers, E. 115
Staras, K. 75
Starcuk, Z. 1.986
Stark, A. 2.280
Stark, H. 1.457
Stasenko, S. 3.067
Stäuble, A. 1.024
Staufenbiel, M. 3.643
Stavinskaya, O. 3.870
Stawarski, M. 3.981
Stay, T. 3.298
Stebnicky, M. 3.118, 3.119
Steckler, T. 1.745, 3.357
Stefan Mirica, S.M. 1.502
Stefanelli, G. 707
Stefanelli, T. 1.423
Stefanics, G. 1.105
Stefanis, L. 340, 1.290, 1.678, 3.073
Stefaniuk, M. 3.756, 3.793
Stefanova, N. 758
Steffen, J. 651
Steffensen, S.C. 2.084
Stegmüller, J. 3.717
Stehle, J.H. 1.650
Steiger, A. 2.815
Stein, D. 1.111
Steinacker, P. 1.969
Steinberg, E. 2.195
Steinberg, E.A. 645
Steinberger, A. 3.508
Steinbusch, H.W.S. 345
Steinbusch, L. 547
Steiner, B. 1.983
Steiner, H. 2.725
Steingrímsson, E. 928
Stella, F. 1.120, 3.347, 3.349
Stenman, J. 2.286
Stensballe, A. 819
Stenson, G. 2.687
Stensrud, M. 2.984
Stepanichev, M. 897, 1.060, 1.954
Stepanyuk, A. 240
Stephan, A. 3.551
Stephan, J. 2.122
Stephen, T. 3.068
Stephenson, F.A. 1.822
Stepien, A.E. 2.898
Stepien, B. 2.280
Stepien, K. 422, 424
Stepto, A. 1.258
Ster, J. 3.586
Stergiopoulos, A. 1.304
Stern, C. 1.142
Stern, C.A.J. 1.143
Stern, M. 1.353
Steuber, V. 1.490
Stevanin, G. 852
Stevanovic, M. 1.305
Stevens, A. 3.889
Stevenson, C. 1.154
Stevenson, C.W. 1.153, 2.912
Stewart, M.G. 795
Stiefel, K. 3.612
Stieler, J.T. 782
Stierstorfer, B. 3.416
Stigger, F.S. 2.640
Stinchcomb, A. 2.070
Stöckl, T. 2.719
Stockmeier, C.A. 1.591
Stodieck, S. 2.146
Stofkova, A. 2.078
Stoian, A. 1.507, 1.688
Stoica, R. 3.077, 3.743
Stoicea, N. 2.054
Stompor, A. 1.027
Stone, T. 2.985
Stoop, R. 282, 1.103, 1.199, 3.629
Stopka, P. 932, 1.686
Störchel, P. 3.517
Storchi, R. 2.147
Stork, O. 3.518
Storkebaum, E. 652
Storm, K. 2.910
Storm-Mathisen, J. 1.485
Stortz, F. 2.014
Stott, S. 3.475
Straatman, K. 344
Straccia, M. 1.467
Strange, B. 1.177
Strasser, A. 2.896
Stratikos, E. 1.942
Stratton, J.A. 184
Straub, S. 1.969
Straub, V. 2.479
Straube, A. 443
Strauch, C. 3.042
Straumann, D. 861
Strehl, A. 2.055, 3.583
Streicher, C. 1.302
Streit, J. 3.848, 3.857
Strelnikov, K. 1.968, 3.341
Stricker, C. 1.780
Striem-Amit, E. 2.400
Striessnig, J. 751, 1.243
Strimpakos, G. 316
Stroeder, J. 2.509
Strohl, J. 1.537
Strojek, L. 1.306, 3.137
Strömberg, I. 1.988
Strömberg, J. 248
Strömberg, R. 3.684
Strömmer, J. 2.210
Strydis, C. 1.490
Stuart, A.M. 988
Stubbendorff, C. 2.885
Stuber, G. 1.215
Stucchi, R. 849
Stuchlik, A. 1.496, 3.350, 3.351
Studer, F. 3.551
Studer, M. 186, 1.288, 1.331, 2.960
Stujenske, J. 3.486
Stumpner, A. 997
Stupka, E. 2.963
Stutzki, H. 2.922
Stylianopoulou, F. 233, 3.879, 3.880
Styr, B. 1.402
Su, L. 3.590
Su, M. 328
Su, S. 3.722
Suarez Pereira, I. 3.953
Suárez-Boomgaard, D. 3.783, 676
Suárez-Pellicioni, M. 2.819
Suarez-Pereira, I. 595
Subach, F. 1.162
Subach, O. 1.162
Sublinsky, S. 779
Succol, F. 2.429, 2.911
Suchkov, D. 3.529
Sucunza, D. 828
Sudhof, T.C. 2.368
Sudmant, P. 2.967
Suemoto, C.K. 3.288
Suer, C. 2.091
Sugar, J. 1.127
Sugawara, K. 2.828, 4.005
Sugimura, Y. 1.389
Suh, Y.H. 746
Suhaiimi, F.W. 1.735
Sukhanov, I. 728
Sukhanova, I. 2.646
Sukhareva, E. 2.805

Sukhareva, E.V. 679
Sulas, P. 2.727, 3.788
Sulentic, V. 3.727
Sulis-Sato, S. 3,999
Sullivan, R. 3.483
Sullivan, R.K.P. 769
Sullivan, R.M. 2.648
Sultan, S. 1.831
Sumbul, O. 3.699
Sun, J.J. 3.842
Sun, P. 3.090, 3.677
Sun, W. 191, 699, 1.411
Sun, Y. 769
Sun, Y.G. 1.350
Sundukova, M. 2.039
Suñol, C. 2.839
Surguladze, S. 3.246
Sürmeli, G. 3.337
Susic, V. 1.486
Suska, A. 2.884, 3.794
Susorov, D. 1.418
Sustkova - Fiserova, M. 2.071, 2.072, 2.073
Susumu, K. 1.779
Suter, T. 1.576
Suter, U. 374, 1.820
Sutera, F. 3.795
Sutoo, D. 718, 3.982
Sutor, B. 2.917
Suyatin, D. 2.910
Suzuki, A. 1.034
Suzuki, I. 2.434, 2.967, 3.685
Suzuki, K. 3.973
Suzuki, M. 283, 2.828, 4.005
Suzuki, T. 3.832
Svendsen, C. 1.467
Svergun, D. 3.524
Svinov, M.M. 891, 2.144
Svirskiene, N. 497
Svirskis, G. 497
Svirtlih, M. 1.305
Svoboda, J. 3.351
Svoboda, K. 3.844
Svobodova, I. 3.327
Swaminathan, M. 478
Swann, V. 1.754
Swanson, B. 827
Swiech, L. 1.548, 3.516
Swiejkowski, D. 1.026, 1.027, 1.028
Switonski, P.M. 1.468, 3.720
Syed, E. 2.867
Syka, J. 958, 994, 998, 1.016
Sykova, E. 1.453, 2.617, 2.652, 2.665
Synowitz, M. 406, 415
Sypecka, J. 1.306
Szabadfi, K. 1.009, 1.635, 2.042
Szabó, A. 1.873
Szabo, C. 2.548, 3.107
Szabo, E.R. 3.314, 3.315
Szabo, G. 1.220, 448, 3.886
Szabo, M.F. 1.220
Szabó, Z. 387, 1.384
Szabolcsi, V. 3.164
Szadai, Z. 1.220, 1.336, 1.337, 3.624
Szadzinska, W. 3.384
Szafran, K. 1.673, 3.636
Szakács, J. 3.886
Szalay, B. 1.825
Szalay, C. 646
Szalay, G. 1.220, 3.624
Szalontai, B. 1.009
Szanto, Z. 3.877
Szczepankiewicz, A.A. 1.906
Szczesny, E. 1.575, 2.060, 2.670, 3.777
Szczupak, B. 907
Szczurkowska, J. 2.437, 2.943, 2.968
Szegedi, V. 3.385
Szegi, K. 2.170
Szelag, E. 581
Szemenyei, V. 7
Szepes, B. 1.499
Szereday, L. 1.622
Szeszkowski, W. 1.090
Szkudlarek, H.J. 228, 3.816
Szlachcic, W. 1.468
Szobota, S. 11
Szoke, B. 558, 1.909
Sztainberg, Y. 2.870
Szucs, P. 1.355, 3.282, 3.284
Szulc, M. 3.554
Szulczyk, B. 727
Szulczyk, P. 727, 1.348
Szum, A. 1.906
Szumska, I. 1.090
Szutowicz, A. 336, 2.056
Szybinska, A. 436, 3.180
Szydlowski, S. 271, 1.041
Szyf, M. 2.096
Szymanski, C. 3.604
Szymaszek, A. 3.912, 3.916
Tabares, L. 74, 1.374
Tabata, H. 2.964
Tabernero, A. 412, 413, 414, 749
Taccola, G. 1.351, 1.648, 1.655
Tack, J. 1.179
Tadeusz, J. 1.672
Tadi, M. 647
Tadi, T. 3.155
Tadinac, M. 3.901, 3.918, 3.928
Tagawa, Y. 507
Taghizadeh, B. 3.812
Tagliaferri, M. 824
Taglialatela, M. 521, 1.365, 3.572
Tagliatti, E. 2.536
Tahir, A. 860
Tahiri, K. 3.071, 3.079
Tahirovic, S. 327
Tahor, M. 1.197
Tai, C. 840
Tai, E. 1.307
Tai, S.K. 3.635
Taipa, R. 2.853
Taira, T. 3.767
Tait, M. 2.088
Tajinda, K. 3.203
Takács, V. 1.752, 3.393
Takada, M. 1.923
Takagaki, K. 2.903, 2.923
Takahashi, H. 2.924
Takahashi, K. 1.085, 4.005
Takahashi, M. 2.246, 3.204
Takahashi, N. 3.536
Takahashi, R. 1.996
Takahashi, T. 262
Takahashi, Y. 1.389, 2.483, 3.043, 3.352
Takakura, A. 3.713
Takano, Y. 1.795, 3.353, 3.356, 3.413
Takata, N. 305
Takatsuru, Y. 2.107
Takayama, Y. 289, 3.417
Takayose, M. 3.929
Takechi, M. 3.574
Takeda, K. 1.795, 3.413
Takeda, T. 3.184
Takehara-Nishiuchi, K. 152, 3.941
Takeoka, A. 1.658
Takeuchi, K. 2.459
Takeuchi, T. 1.129, 1.132
Takeuchi, Y. 3.531
Tal, Z. 1.613
Talarowska, M. 3.190
Talaverón, R. 2.057, 3.037
Talian, I. 895
Tallarico, P. 2.480
Talleur, M. 697, 2.462, 3.525
Talpo, F. 804, 1.814, 1.920
Talpos, J. 1.745, 3.357
Tamada, A. 3.438
Tamamaki, N. 2.928, 3.205
Tamas, A. 1.009, 1.635, 1.984, 2.042, 2.457, 3.877
Tamás, G. 7, 3.056
Tamborini, M. 425
Tambunan, D. 3.212
Tamburin, S. 684
Tamietto, M. 499, 1.098, 1.709
Tamozhnikov, S.S. 2.706
Tamura, A. 3.613
Tan, W. 3.728
Tanaeva, K. 3.760
Tanahira, C. 3.205
Tanaka, D.H. 1.807
Tanaka, H. 919
Tanaka, K. 2.740
Tanaka, M. 2.246
Tanaka, S. 1.653
Tanaka, T. 1.653
Tanaka, Y. 2.555
Tang, A. 3.165
Tanifuji, M. 2.743
Tanifuji, S. 1.370
Tanigaki, K. 3.203
Taniguchi, H. 1.656
Tanila, H. 3.099, 3.766
Tanimura, A. 1.834
Tank, D.W. 2.403
Tanne, D. 3.583
Tanriover, G. 917
Tansey, M. 3.692
Tantucci, M. 404, 2.580, 3.080
Tanyeri, P. 3.958
Tao, K. 3.038
Taoufiq, Z. 262
Taouki, I. 3.714
Tapia, E. 3.268
Tapia, J. 2.965
Tapia, J.A. 3.856
Tapia, N. 715
Tapia, R. 3.734
Taqtaq, R. 3.554
Tar, L. 1.646
Tarabykin, V. 212, 885
Taraviras, S. 3.714
Tardito, D. 2.696, 3.778
Tarkka, I.M. 2.210
Tarozzi, A. 1.561
Tarragón Cros, E. 1.749
Tarragon, E. 1.635
Tarrés-Gatius, M. 3.939
Tartau, L. 2.252
Taru, H. 3.526
Tarusawa, E. 1.836
Tarussio, D. 560
Tasan, R.O. 3.369, 390
Tashiro, S. 1.643
Tasioudi, E. 3.714
Taskin, B. 3.573
Tass, P.A. 3.990
Tassin, J.P. 975
Tasso, B. 3.171
Tassone, A. 1.050, 3.297
Tassone, F. 135
Tassorelli, C. 3.817
Tastet, J. 462
Tata, A. 426
Tata, D. 921, 3.887
Tatarau, C. 3.551
Tatarkova, Z. 3.129
Tate, W.P. 2.504
Tateno, T. 2.123
Taub, N. 3.679
Tauber, M. 3.221
Tauber, S. 1.322

Taubert, M. 3.189
Tavares, K.R. 352
Taveggia, C. 1.821
Taverna, S. 379, 830, 2.463
Tay, S. 2.030
Taylor, J. 3.418
Taylor, J.P. 1.255, 3.736
Taylor, J.S. 2.658
Taylor, V. 1.291, 3.686
Tchankouongeutcheu, S. 1.943
Tchenio, P. 1.862
Tedesco, M. 3.983, 4.006
Tegolo, D. 613
Teichert, M. 2.133
Teixeira Jr., A.L. 1.581
Teixeira, A.L. 3.690
Teixeira, D. 1.533
Teixeira, M.D. 348
Teixeira, M.M. 1.581
Telegdy, G. 1.052
Teles De Menezes, A. 2.460
Teles, B. 2.460
Telkes, I. 1.636
Temel, Y. 353
Temmerman, L. 3.552
Tempesta, S. 3.961
Templier, T. 2.895
Ten Brinke, M. 2.241
Ten Brinke, M.M. 530
Tena-Sempere, M. 1.063
Teng, K. 2.854, 3.821
Teng, K.S.L. 1.828
Tentillier, N. 3.087
Teo, J. 1.508
Teodorov, E. 2.897
Teplytska, L. 2.692
ter Horst, J. 3.386
Ter Maat, A. 2.121
ter Wal, M. 2.746
Terada, Y. 2.180
Terao, Y. 1.039
Terbova, P. 3.327
Terenzio, M. 2.395
Terhune, D.B. 2.823
Ternes, S. 2.672
Terragni, B. 3.762
Terrasa, J.L. 2.255, 2.256
Terrier, J. 2.724, 3.402
Tertil, M. 3.776
Terunuma, M. 304, 1.849
Terzian, A. 3.779
Terzieva, S. 1.951, 3.671
Teschemacher, A. 2.481
Teshirogi, C. 1.158, 1.159
Tesoriero, C. 2.058
Tessadori, J. 3.992
Tessier, J. 3.819
Tessier-Lavigne, M. 1.310
Tessmer, I. 3.524
Testa, G. 3.506
Teti, E. 2.915
Tevoufouet, E.E. 2.999
Tews, B. 1.417
Thal, S. 3.154
Thalhamer, J. 1.544
Thalhammer, A. 272
Thalman, C. 3.069
Thatenhorst, D. 3.984
Thauerer, B. 908, 910
Thedieck, K. 3.511
Theka, I. 2.463
Thellung, S. 2.034, 3.171
Theodorakis, K. 2.471
Theodossiou, T.A. 1.942
Theparambil, S. 768
Thepault, R.A. 462
Thermos, K. 384, 1.547
Thevenet, M. 1.734
Thewes, R. 2.922
Thielman, T. 147
Thier, P. 2.346
Thiere, M. 3.518
Thiersch, M. 1.727
Thinakaran, G. 3.656
Thirant, C. 414
Thireau, J. 1.325
Thiriet, N. 3.792
Thirouin, Z. 1.252
Thirstrup, K. 3.419
Thirugnanasambantham, R. 257
Thivierge, J.P. 1.830
Thomas, A. 1.847
Thomas, E.A. 1.868
Thomas, K. 1.726
Thomas, U. 652, 1.018, 1.244, 1.891
Thomas-Danguin, T. 617
Thomason, M. 1.713
Thome, C. 291
Thomé, R. 912
Thompson, B. 3.346
Thompson, D. 820
Thompson, L. 1.978
Thompson, L.M. 1.467
Thomson, A.M. 1.822
Thor, S. 1.239
Thorens, B. 547, 560
Thorsell, A. 972
Thorsteinsson, H. 1.068, 1.069, 1.070
Thoumine, O. 1.824
Thul, R. 3.994
Thümmler, J. 3.517
Thurley, K. 1.737, 2.242
Thuroczy, G.Y. 3.906
Tian, L. 3.111
Tiberi, L. 1.797, 3.507
Tielens, S. 2.969
Tiesel, J. 2.719
Tiesinga, P. 2.746
Tietjen, I. 1.193
Tikhobrazova, O. 3.027
Tikhonov, D. 733, 2.992
Tikhonov, T. 2.101
Tikhonova, M.A. 2.679
Tikhonova, T. 2.992
Timmermans, W. 3.588
Timoshenko, A. 1.597, 2.217
Tinazzi, M. 1.099
Tinelli, E. 374, 1.820
Tinelli, F. 862
Ting, C. 2.792
Tinnes, S. 388
Tinsley, C.J. 3.425
Tinter-thiede, J. 2.124
Tiribelli, C. 937, 948, 3.168
Tirone, F. 316, 1.800, 2.942
Tischmeyer, W. 3.954
Tishkina, A. 897, 1.060, 1.477
Tissir, F. 1.313
Titley, H. 543
Tittgemeyer, M. 53, 2.877
Tiveron, M. 1.375
Tivodar, S. 2.471, 3.023
Tiwari, S.S. 137
Tixador, P. 1.460
Tjernberg, L.O. 1.959
Tkacikova, S. 895
Tkatch, T. 497
Tobe, R.H. 2.825
Tobet, S.A. 3.881
Tobin, C. 588
Tocchini-Valentini, G.P. 3.729
Todiras, M. 1.527
Todorov, A. 1.098
Todorov, M. 3.614
Todt, H. 1.867
Toffolo, E. 3.102
Toft, A. 1.524
Tognini, P. 1.327, 3.456
Tognoli, C. 3.780
Tognolina, M. 534
Tohyama, C. 2.794, 2.891
Tohyama, T. 2.664
Toia, M. 2.067
Tokarski, K. 2.873, 2.976
Tola, J. 1.327, 3.456
Tolat, A. 2.829
Toldi, J. 887, 888, 2.266
Tolner, E.A. 1.490, 3.002
Tolomeo, D. 1.970, 1.973
Tolu, S. 3.796
Tolu, S.T. 3.798
Tomaiuolo, M. 1.156, 3.387
Tomas, D. 416
Tomàs, J. 254, 1.369, 1.372, 1.373
Tomas, J.M. 372
Tomàs, M. 254, 1.369, 1.372, 1.373
Tomasetti, C. 3.202
Tomasoni, R. 3.012, 3.014
Tomassini, A. 3.813
Tomé, A. 3.065
Tomescu, M. 667
Tomescu, M.I. 673
Tomori, Z. 1.818, 2.651
Tonar, Z. 1.683
Tonazzini, I. 401, 403, 922, 3.975, 3.976
Tonda-Turo, C. 2.282
Tonelli, M. 3.171
Tongiorgi, E. 450, 467, 657, 939, 2.486, 2.496, 2.696
Tongjaroenbuangam, W. 3.969
Toni, N. 1.451, 1.831, 2.948
Tonini, R. 278, 279, 2.372
Tonino, R. 2.033
Tononi, G. 433, 2.808, 2.810
Toonen, L.J. 2.190
Toonen, R.F. 281
Toosy, A. 683
Toptunov, D. 3.057
Torben-Nielsen, B. 2.448, 3.986, 3.995
Tore, F. 2.767
Torgano, G. 3.423
Torimitsu, K. 2.924
Toritsuka, M. 3.203
Toritsuka, T. 3.184
Tornese, P. 3.550
Tornincasa, M. 2.595
Toroczkai, Z. 487
Török, B. 3.263
Török, D. 2.302
Török, R. 1.469
Toropova, K. 1.135, 1.137
Torregrosa, I. 1.535
Torres, L. 3.044
Torres, L.B. 608
Torres, S. 1.082
Torres-Aleman, I. 3.381
Torres-Bugeau, C.M. 668
Torres-Espín, A. 1.528, 3.439
Torres-Martinez, N. 3.862
Torricella, R. 874
Torromino, G. 3.354
Torsello, A. 545, 3.752
Tort, A.B.L. 592, 990
Tortarolo, M. 3.735
Tortoriello, G. 1.311
Tortosa, E. 2.439
Toselli, M. 804, 1.920
Tosetti, M. 1.319, 3.260
Tosetti, V. 3.141
Tosevski, J. 2.830
Tosi, G. 3.170

Totah, N. 2.843
Tóth, E.A. 3.657
Toth, G. 2.042
Toth, I. 2.181, 3.305
Tóth, K. 3.107, 3.624
Tóth, Z.E. 2.812
Tottene, A. 752, 3.003
Totti, A. 2.068
Touiki, K. 1.010
Toulorge, D. 3.075
Touloumi, O. 921
Tournier, D.J. 3.289
Toussay, X. 3.668
Toutain, A. 462
Touzé, E. 1.494
Tovote, P. 3.392
Towlson, C. 2.925
Toya, S. 2.107
Toyoda, S. 3.519
Tozzi, A. 404, 2.580, 3.080
Trabczynska, A. 2.274
Trachsel Moncho, L. 2.059
Trachsel-Moncho, L.C. 934
Tramer, M. 667
Tramontano, A. 1.447, 3.660
Trapella, C. 3.771
Trattnig, C. 3.508
Trazzi, S. 466, 873
Treccani, G. 2.108
Tredici, G. 965, 1.560
Treede, R.D. 1.021, 2.508
Trejo Cisneros, A. 3.856
Tremblay, C. 2.043
Tremblay, L. 3.404
Tremolizzo, L. 3.744
Trempat, P. 1.491
Trepte, P. 1.889
Tressard, T. 1.851
Trettenbrein, P. 3.336
Tretter, L. 1.298, 3.657
Treue, S. 164, 2.844, 2.845
Treutlein, T. 782
Treves, A. 1.120, 3.347, 3.348, 3.349
Trezise, D. 1.770
Tria, G. 3.524
Triaca, V. 3.654
Triantis, C. 1.442
Tricaud, N. 2.284
Tricklebank, M. 441
Tricoire, L. 2.500
Tricoli, A. 1.777
Trifilieff, P. 72, 2.227
Trifunovic, D. 1.637
Triller, A. 244, 1.916, 2.518, 3.560
Trimarchi, P.D. 1.427, 3.144
Trimarco, A. 1.821
Tringali, G. 1.641
Tringides, C. 1.185
Tripi, G. 468
Tristán Noguero, A. 870, 3.693
Trizna, J. 909
Troadec, J.D. 1.946
Troakes, C. 137
Troboukis, G. 273
Trofimova, L. 877, 1.550
Troiani, D. 1.020
Troiani, F. 3.349
Trojan, E. 1.575, 2.060, 2.670, 3.323, 3.777, 3.885
Trolle, C. 2.656
Trollmann, R. 3.502
Tromba, G. 3.975
Trombin, F. 3.108
Tronche, F. 1.764, 3.070
Tronci, E. 1.980, 3.701
Tronnier, V. 255, 257
Tropiano, M. 1.470
Trost, E. 2.121
Trotman, M. 1.509
Trotter, J. 1.817, 3.059
Trotti, D. 3.728
Trötzmüller, M. 1.820
Trova, S. 188
Truckenbrodt, A. 3.475
Trudler, D. 833
Trujillo, D. 3.655
Truman, P. 2.733
Trunk, A. 1.105, 3.904, 3.906
Truong, A. 1.166
Trusel, M. 278, 279, 2.372
Trush, E. 371
Trut, L. 1.810, 2.893
Truttmann, A. 878
Tsai, L. 2.792
Tsaneva-Atanasova, K. 3.658
Tsanov, M. 1.740
Tsapara, G. 931
Tsarouchas, T. 3.166
Tsarouchi, M. 232
Tsay, H. 3.182
Tsay, H.J. 3.675
Tscherter, A. 3.848, 3.857
Tschöp, M.H. 551
Tse, D. 1.132
Tsekoura, E. 1.501
Tselykh, T. 3.304
Tseng, C.J. 3.829
Tseng, W.Y.I. 331
Tsenov, G. 1.496, 1.510
Tsiamaki, E. 1.333, 2.986
Tsika, E. 1.769
Tsim, K.W. 2.484
Tsingotjidou, A.S. 185
Tsodyks, M. 642
Tsohataridis, S. 3.538
Tsokas, P. 2.243
Tsolaki, M. 2.198
Tsomaia, V. 2.097
Tsoory, M. 541
Tsubota, M. 2.766
Tsui, Y.P.A. 1.307
Tsuji, M. 3.763
Tsujimura, T. 1.656
Tsuneoka, Y. 1.392
Tsurugizawa, T. 2.878, 3.985
Tsushima, H. 3.678
Tsutsui, K. 1.664
Tsutsui, Y. 2.886
Tsutsumi, S. 3.294
Tsybko, A. 1.753
Tsytsarev, V. 1.034
Tucci, V. 2.631, 2.807, 3.729
Tufekci, K. 925
Tufekci, U. 923, 924
Tukaiev, S. 3.253
Tukhbatova, G. 1.956
Tukmachev, D. 2.665
Tuma, J. 196, 3.355
Tunbridge, E.M. 2.865
Túnez-Fiñana, I. 2.026
Tung, L. 219
Tuominen, R. 3.581
Turano, E. 1.436
Turatto, M. 2.820
Turbasa, M. 2.872
Turchi, L. 1.262
Turck, C. 598, 2.692
Turco, E. 1.390, 1.889, 2.472, 3.012
Turi, G. 1.337
Turi, G.F. 1.220, 1.336
Turi, M. 3.234
Turko, P. 2.461
Turlejski, K. 204, 669, 1.133
Turle-Lorenzo, N. 3.076
Turnovcova, K. 1.453
Turola, E. 309
Turpaev, K. 3.434
Turpin, F. 769
Tyagarajan, S. 1.252
Tyagarajan, S.K. 1.890, 3.528
Tye, K. 3.487
Tzanoulinou, S. 1.850
Tzouveka, E. 3.345
U, K.P. 955
Ubaldi, M. 2.715
Ubeda-Bañon, I. 3.688
Ubezio, F. 1.578
Uccelli, A. 367, 2.010, 2.021
Ucha, M. 2.074
Uchida, N. 3.474
Uchida, T. 283
Uchigashima, M.U. 1.838
Udayar, V. 3.656
Udina, E. 911, 915
Udvari, S.Z. 2.584
Uebachs, M. 3.101
Ueffing, M. 1.637
Ueffing, M. 825
Ueng, S.H. 1.639
Uesaka, N. 1.834, 1.838
Ueshiba, K. 1.058, 1.059, 3.574
Ugarte, G. 338, 3.823
Ugedo, L. 3.704
Ugidos, I.F. 898
Ugolini, G. 3.295
Ugurbil, K. 2.118, 3.472
Uhari-Väänänen, J. 3.797
Uher, R. 1.584
Uhlen, M. 3.433, 182, 3.430
Uhlmann, A. 1.111
Uhr, M. 2.815
Ujita, W. 2.891
Ukezono, M. 3.353, 3.356
Ulak, G. 3.958
Ulanovsky, N. 638, 639, 640, 641, 642, 1.122
Ulbert, I. 1.011, 1.183, 2.548, 3.107, 3.624
Ulbrich, L. 471
Ulivi, A.F. 1.819
Ullian, E. 40
Ullrich, C. 345
Umeoka, E. 1.066
Umiltà, M.A. 3.199
Uneyama, H. 2.878, 3.985
Ungaro, F. 2.963
Ungless, M. 3.473, 3.476
Ungless, M.A. 3.475
Unsicker, K. 452
Unzeta, M. 1.455
Urade, Y. 1.821
Urban, P. 2.148
Urbanke, H. 1.434
Urdapilleta, E. 3.349
Urdzikova-Machova, L. 2.652
Urena, J. 2.442
Uribe, A. 1.674, 2.680
Urios, A. 1.535
Usai, C. 850
Usardi, A. 697, 2.462
Usdin, T.B. 3.314, 3.315
Ushakova, G. 3.875
Ushkaryov, Y. 2.997
Usiello, A. 70
Usun, Y. 3.183
Utikal, J. 1.809, 2.508
Uusisaari, M.Y. 523, 524
Uva, L. 379, 3.108
Uvarov, P. 764
Uvdal, P. 1.960
Uylings, H.B.M. 2.451
Uzakov, S. 3.028
Uzakov, S.H.S. 1.600
Vacca, V. 3.822

Vaccaro, V. 1.403
Vaccoto, M. 2.053
Vafaei, A. 970
Vagaska, B. 955
Vaghi, V. 467, 1.814, 2.496
Vaglini, F. 358
Vagnoni, C. 2.962
Vaha, M. 3.581
Vaiceliunaite, A. 504, 2.149
Vaillend, C. 1.150
Vainchtein, I.D. 2.027
Vajkoczy, P. 884
Valadas, J. 3.715
Valadas, J.S. 590
Valderrama-Carvajal, A. 3.783
Valdes, J.L. 2.245, 332
Valdivia, A. 3.145
Valdizan, E.M. 2.702, 1.583
Valeeva, G. 1.851
Vale-Martínez, A. 589, 3.939
Valente, C.A. 3.580, 3.674
Valente, G. 2.118
Valente, M.M. 476, 1.578
Valente, P. 274
Valente, S.S. 2.899
Valenti, O. 2.244
Valentin, A. 2.007
Valentini, V. 2.727, 2.728, 3.409, 3.787, 3.788
Valentino, V. 1.661
Valentinova, K. 3.584
Valenza, F. 1.819
Valenza, M. 1.471
Valenzuela, M.J.C. 3.041
Valera, A. 3.296
Valerio, S. 1.144
Valero, J. 3.301
Valero, M. 238, 2.558, 2.560
Valero-Aguayo, L. 3.860
Vales, K. 1.496, 1.510
Valic, M. 2.821, 3.872
Valiullina, F. 3.537
Valjent, E. 974, 1.040, 1.042, 1.853, 2.724, 2.732
Valladolid-Acebes, I. 3.317
Vallee, B. 462
Vallée, M. 3.495
Vallejo, G. 2.235
Vallejo, M.G. 930
Valle-Maroto, S. 1.521
Vallortigara, G. 3.247
Vallucci, M. 852
Valmadre, A. 322
Valor, L. 1.472
Valor, L.M. 45, 548, 1.461
Valsecchi, V. 365, 375
Valtink, M. 1.628
Valtorta, F. 476, 818, 842, 1.382, 2.536
Valverde, S. 3.798
Valzania, A. 983, 1.675, 2.683
Van Beers, P. 3.925
van Bokhoven, H. 215, 1.395, 3.039
van Calker, D. 3.773
van Campen, J.S. 1.066
Van Craenenbroeck, K. 676, 3.783
Van Craenendonck, H. 3.388
van de Bos, R. 2.272
van de Molengraft, M. 1.395
van de Ven, V. 3.993
Van De Ville, D. 667, 673
Van den Ameele, J. 1.797, 3.507
van den Berg, R. 2.936
Van Den Bergh, G. 3.360
van den Berghe, V. 115, 208
van den Burg, E.H. 293
van den Buuse, M. 3.185, 3.198
Van den Haute, C. 2.902, 3.431
Van den Hove, D.L. 706
Van Den Hurk, M. 1.175
Van den Maagdenberg, A.M.J.M. 1.490, 3.002
Van der Auwera, P. 3.552
van der Helm, F.C.T. 3.846
van der Kooij, M. 1.769, 3.410
Van der Linden, A. 3.621
van der Meij, J. 3.615
van der Meij, R. 811
van der Molen, M. 2.647
Van der Molen, M.J.W. 1.102
van der Molen, M.W. 2.647
Van Der Perren, A. 3.698
van der Togt, C. 2.238
van der Weel - van der Meer, D. 3.814
Van der Zee, C. 3.509
Van Dongen, M. 1.490
Van Dooren, T. 317
van Dorsselaer, P. 3.357
van Ede, F. 810
van Elst, K. 3.233
van Engelen, B.G.M. 370
Van Esch, H. 476
Van Gurp, S. 525
van Heurck, R. 2.967
van Hooft, J.A. 2.931
Van Hove, I. 950
van Hulten, S. 214
van Keulen, S. 966
Van Leeuwen, J.F. 3.018
Van Leuven, F. 792, 2.539, 3.640, 1.955
Van Praag, H. 22
Van Rhijn, J.R. 1.367
van Rijswijk, J. 579
van Rossum, M.C.W. 2.791, 3.611
Van Schaik, A.V.S. 3.612
van Stegen, B. 251
van Swam, C. 431
Van Tol, E. 625
Van Tol, E.A.F. 649
Van Waes, V. 2.725
van Weering, J.R.T. 1.367
van Wüllen, T. 715
Vanacker, C. 2.174
Vanchakova, N. 733
Vandael, D. 1.361, 1.390
Vandael, D.H.F. 1.871
Vandaele, Y. 2.887
Vandelli, M.a. 3.170
Vanden Berghe, P. 882, 1.179
Vanderhaeghen, P. 1.191, 1.797, 1.807, 2.967, 3.507
Vanderheyden, P. 384
Vandesquille, M. 933
VandeVondervoort, I. 2.970
Vangansewinkel, T. 1.520, 2.666
Vangopoulou, C. 233
Vanhoutte, P. 72, 790, 2.063, 3.785
Vanikova, J. 3.172
Vann, S. 1.724
Vann, S.D. 1.115, 1.726, 1.740, 2.855
Vannelli, A. 3.716
Vanni, V. 3.297
Vannoni, E. 1.759
Vannucchi, M.G. 3.115
Vanotti, A. 2.154, 2.155
van't Hoff, M. 2.167
Vanvossen, A.C. 1.142
Varani, A. 3.799
Varatharajan, R. 255, 256
Varazzani, C. 3.411
Varbanov, H. 3.589
Varga, D. 2.266
Varga, V. 1.752, 3.393
Varga, Z. 8
Vargas, J.P. 626
Vargas, M. 3.501
Vargas-López, V. 3.970
Vargova, L. 1.680
Vari, S. 1.053
Varin, C. 2.816
Vartiainen, N. 1.962
Vas, S. 2.812
Vasconcelos, F. 1.799
Vasconcelos, M.L. 2.275
Vasilaki, E. 2.307
Vasilopoulou, C. 660
Vasilopoulou, C.G. 931
Vasquez, R. 2.690
Vasquez-Lopez, S. 2.125
Vassalli, M. 1.949
Vassalou, A. 2.674
Vassanelli, S. 1.031
Vassena, E. 101
Vasylovska, S. 3.434
Vaucher, E. 3.271
Vaudano, A.E. 2.002
Vaudry, D. 1.589, 1.664
Vaudry, H. 1.664
Vavrecka, M. 1.717
Vayssière, N. 1.968, 3.341
Vaz, S.H. 3.049, 3.674
Vaziri, A. 1.782, 3.978
Vázquez, M.J. 1.063
Vazquez-Juarez, E. 1.667
Vecchi, T. 1.098, 1.110
Vecchia, D. 292
Vecchiarelli, H. 1.666, 3.328
Vecchiarrelli, H. 1.116
Vécsei, L. 1.469, 1.646, 2.266
Vedunova, M. 229, 2.497, 3.600
Veenema, A.H. 3.318, 3.319
Vega, J.L. 2.629
Vega, R. 1.598, 1.879
Vega-Flores, G. 1.733
Vegeto, E. 313, 3.414, 3.415
Végh, M. 3.555
Veglianese, P. 1.514, 1.515
Veith, V. 2.844
Vekrellis, K. 3.073
Vela-Gomez, J. 3.141
Velasco, A. 2.579
Velasco, S. 1.308
Velasco-Álvarez, F. 3.860
Velasquez, J. 118
Velazquez-Martinez, D. 567
Vélez-Fort, M. 3.061
Vemula, S. 3.527
Vendrell-Llopis, N. 991, 3.255, 3.492
Venero, C. 3.026
Venero, J.L. 1.566, 2.582
Veneziani, D. 2.199
Vennekens, K. 1.824
Vennekens, R. 3.024
Vènniro, M. 2.720
Venteo, S. 1.325
Ventskovska, O. 2.817
Ventura, A. 1.761, 2.689
Ventura, D.F. 1.625
Ventura, R. 97, 2.689, 2.798
Ventura, S. 3.177
Ventura-Silva, A.P. 691
Venturin, M. 322
Venturini, G. 871
Venturino, A. 2.112
Ver Donck, L. 2.253, 3.388
Vercelli, A. 365, 1.470, 1.522, 2.616, 3.987, 375
Vercillo, T. 1.614, 2.401
Verderio, C. 224, 309, 1.438, 2.008, 2.535
Veréb, Z. 3.252
Veremieva, M. 3.800
Veres, J. 3.628
Veres, J.M. 259
Verga, L. 1.112
Vergani, L. 3.731
Vergara, M. 3.389

Vergara, P. 2.950
Verhage, M. 281, 1.367, 3.427
Verheijen, J.M. 1.668
Verhey, J.L. 1.007
Verhoeve, S.L. 2.190
Verinaud, L.M.C. 912
Verkade, H.J. 3.172
Verkhratsky, A. 3.671, 3.672
Vermaercke, B. 2.860
Vernice, M. 1.098
Veron, A. 200, 201
Verpelli, C.1.382, 2.001, 3.016, 3.217, 3.218, 3.219, 3.232
Verreet, T. 2.296
Verschure, P.F.M.J. 618
Verschure, P.M.F.J. 3.997
Verslegers, M. 3.167
Verstegen, A. 2.536
Verstreken, P. 2.360, 3.715
Verstrepen, K.J. 2.892
Vértes, E. 2.551
Vertkin, I. 1.402
Veruki, M.L. 1.618
Vervaeke, K. 3.844
Vescovi, A.L. 2.620
Veselovskiy, N. 1.930
Vestergaard, M. 3.930
Vestring, S. 757, 3.308
Vetere, G. 2.213
Veyrac, A. 470, 1.734
Veyrat-Durebex, C. 858, 3.745
Vezzani, A. 1.487
Vezzoli, E. 473, 3.220
Viaggi, C. 358
Viana, F. 2.989
Viana, G.S.B. 349, 352, 1.335, 2.478
Viana, M. 1.676
Viana, T. 2.707
Vianello, E. 3.168
Viani, P. 2.535
Viaro, R. 350
Viatchenko-Karpinski, V. 957, 3.169
Vicari, S. 2.199
Vicario Abejón, C. 3.694
Vicario, A. 2.486, 2.496
Vicario, C. 2.793
Vicent, M.J. 576
Vicente Torres, M.A. 1.937
Vicentini, J.E. 1.676
Vicidomini, C. 3.218, 3.219
Victorino, C. 3.931
Vida, I. 2.461
Vidaki, M. 2.443, 2.471
Vidal, F. 569
Vidal, P.M. 2.666
Vidal, R. 1.583, 2.702
Vidar Gundersen, V. 3.066
Vidmar, R. 3.177
Viegi, A. 2.487
Vieillard, S. 1.703
Vieira, E.L.M. 3.690
Vieira, I.G.P. 3.081
Viele, J. 2.979
Viera, L.Q. 1.581
Vierci, G. 1.406, 1.407
Viero, G. 842
Viggiano, A. 612
Viggiano, D. 1.915
Viggiano, R. 466
Vigier, L. 183
Vigna, E. 187
Vignali, L. 3.897
Vignes, M. 2.980
Vigneswaran, G. 2.347, 3.861
Vignoli, B. 2.444
Vikor, A. 3.628
Vila, A. 1.713
Vila, E. 3.004
Vila, M. 347
Vilaplana, J. 3.641
Vilela, L. 234
Vilella, A. 3.170
Vilenius, C. 1.988
Viljetic, B. 1.053, 1.932
Villa, A. 313, 3.414, 3.415
Villa, M. 3.084
Villa, V. 3.171
Villace, P. 3.420, 2.290
Villacorta, J. 3.932
Villacorta-Atienza, J.A. 3.441
Villalba, E.F. 1.749, 1.974
Villalobos, C. 2.245
Villamán, C. 338
Villani, C. 479, 722, 729
Villar, M. 3.971
Villar, M.E. 1.156
Villard, C. 3.221
Villarroel, A. 3.572
Villas-Boas, C. 3.358
Villén, J. 658
Vilotti, S. 3.824
Vinader-Caerols, C. 580, 2.852
Vinay, L. 2.653
Vincent, P. 1.483
Vincenten, M.C.J. 2.985
Vinciguerra, A. 883, 894, 3.116, 3.139
Vinet, J. 2.027
Viney, T.J. 2.552
Vingerhoets, G. 2.163
Vingill, S. 3.717
Vinnikov, I. 3.078
Vinueza Veloz, M.F. 3.300
Viola, H. 1.156, 3.971
Violante, I.R. 3.926
Viollet, C. 3.372
Viotti, J. 3.015
Virginio, C. 3.571
Virgintino, D. 2.010
Virok, D. 3.385
Virolle, T. 410, 1.262
Virtanen, M. 3.528
Visa Bombardo, J. 589
Visco Comandini, F. 983, 2.683
Viscomi, A.R. 1.443
Viscomi, R. 1.433
Visentin, S. 396, 397
Visintin, E. 3.781
Vita, C. 235
Vitale, F. 1.051
Vitale, N. 252, 3.235
Vitali, I. 181
Vitali, P. 1.963
Vitek, L. 937, 3.172
Vito de Novellis, V.D.N. 3.156
Vitrac, C. 1.976, 2.482
Vittorio Gallese, V.G. 3.199
Vivanco, M. 129
Viveros, M.P. 238, 1.063, 2.846, 3.329
Viviani, B. 238, 239, 938, 2.047
Viviani, G. 939
Vivien, D. 1.494, 1.736
Vizovisek, M. 3.177
Vlaar, M.P. 3.846
Vlachos, A. 778, 1.394, 2.055, 3.583
Vlahou, A. 1.678
Voccoli, V. 403
Vochozkova, P. 1.463
Vodjdani, G. 1.207, 3.277
Vodnala, S. 1.549
Vodret, S. 939, 3.172
Voets, T. 3.024
Voevodskaya, N. 398
Vogel, E. 1.588
Vogel, K. 820
Vogel, T. 3.511
Voges, K. 3.299
Vogiatzoglou, A. 1.531
Vogl, C. 514
Vogler, C. 1.700
Vogrinc, Z. 315
Vogt, J. 2.954, 3.069
Vogt-Weisenhorn, D. 3.541
Voigt, A. 1.244
Voikar, V. 3.800, 1.759, 1.988
Voitenko, N. 957, 3.169
Vojtechova, I. 3.351
Volbracht, K. 398
Voleti, B. 1.591
Volgushev, M. 1.895, 2.904
Volgyi, B. 929, 1.636
Völgyi, K. 387, 1.384, 1.596, 3.657
Volk, A.E. 2.613
Volk, N. 541, 3.955
Volkmer, H. 3.679
Volknandt, W. 2.537
Vollbrandt, T. 3.125
Vollenweider, I. 1.658
Volpicelli, F. 694, 3.500
Volterra, A. 35, 301
Volynski, K. 272
von Achenbach, C. 2.167
von Alpen, D. 871
von Arnim, C. 1.969, 2.613
von Bohlen und Halbach, O. 452, 3.680
von der Behrens, W. 2.831
von Engelhardt, J. 734
von Gall, C. 1.796
Von Niederhäusern, B. 1.820
von Schoubye, N. 1.874
von Schoubye, N.L. 3.573
von Zweydorf, F. 825
Vondraková, K. 1.510
Vorisek, I. 1.680
Vorniotakis, P. 921
Voronezhskaya, E. 720
Vörös, J. 1.166, 1.169, 1.182
Vorsanova, S.G. 480
Vouillac, C. 2.887
Vourc`H, P. 3.746
Vourc'h, P. 462, 858, 3.745
Voysey, Z. 2.007
Vozeh, F. 196, 932, 1.683, 3.355
Vrba, J. 932
Vreka, M. 355
Vreysen, S. 2.902
Vucinic, D. 1.786
Vukcevic, M. 453
Vukojevic, V. 2.216
Vuksic, M. 216, 1.332, 2.451
Vulovic, M. 2.830
Vunck, S.A. 3.359
Vutskits, L. 2.933, 3.528
Vyas, A. 1.444, 2.697
Vyas, K. 1.095, 1.104, 1.113
Vyas, S. 1.764, 3.070
Vyazovskiy, V. 1.072
Vyklicky Jr., L. 1.496
Vyklicky, L. 2.498
Vyklicky, V. 2.498
Vysokikh, M.U. 2.646
Vyssotski, A. 2.195
Vyssotski, A.L. 645, 1.000, 2.196
W Simonsen, O. 1.128
Wada, T. 1.058, 1.059, 3.574
Wadolowska, A. 3.324
Wafford, K. 2.195, 2.687, 2.814
Wafford, K.A. 2.809
Wagner, K. 2.680
Wagner, K.V. 2.693
Wagner, S. 2.143
Wahl, A.S. 2.167

Wahle, P. 2.453, 3.520
Wahlestedt, C. 972
Waider, J. 2.938, 3.972
Wakita, M. 1.659
Walder, B. 3.146
Waldert, S. 2.347, 3.861
Waleszczyk, W. 2.150, 3.135
Waleszczyk, W.J. 505, 2.148, 3.605
Walker, A. 3.801
Walker, F. 3.845
Walker, K.M.M. 2.110
Walker, S. 1.067
Wallace, D. 3.927
Wallace, E.J.C. 2.243
Wallace, J.L. 3.161
Wallach, A. 30
Wallén-Mackenzie, A. 3.705
Wallis, Y. 1.706
Walmod, P.S. 1.430
Walsh, C. 1.193, 3.212, 3.418
Walsh, V. 175
Walter, A.M. 2.529
Walter, M. 1.585, 2.613
Waltes, R. 1.808
Walton, E.M. 2.866
Walton, M. 102
Walton, M.E. 2.864, 2.865, 2.867
Wanderley Picanço Diniz, C. 303
Wang, D. 3.590
Wang, H.C. 1.555
Wang, H.Y. 1.852
Wang, J. 956, 2.609, 3.088
wang, K. 3.173
Wang, L. 1.916
Wang, Q. 2.575
Wang, T. 2.717, 3.182
Wang, W. 3.722
Wang, W.B. 827
Wang, Y. 2.507, 3.590
Wang, Z. 3.653
Wanger, T. 2.903, 2.923
Wanke, K. 2.970
Wanker, E. 406, 1.889
Wanker, E.E. 3.725
Wanner, A. 3.254
Wanngren, J. 1.959
Waqif, E. 1.517
Warburton, J. 3.658
Ward, R.E. 2.655
Wardak, C. 484, 2.832, 3.815
Wardas, J. 362
Ware, M. 3.510
Warming, S. 693
Warnaar, P. 527
Waseem, T. 3.562
Wasik, A. 1.572, 2.686, 3.782
Wasmuht, D. 2.658
Watabe, A. 3.763
Watabe, A.M. 1.389, 2.483, 3.043
Watabe, K. 3.747
Watanabe, D. 2.664
Watanabe, H. 1.718
Watanabe, I. 2.513
Watanabe, J. 3.390
Watanabe, K. 1.085, 2.126
Watanabe, M. 750, 1.834, 2.513, 2.828, 3.294, 4.005
Watanabe, M.W. 1.838
Watilliaux, A. 588
Watkins, L.R. 1.152
Watson, N. 3.421
Wattendorf, E. 1.719
Watteyne, J. 3.552
Wawrzczak-Bargiela, A. 3.776
Wayman, G.A. 1.827
Wearne, T.A. 988
Weber, I. 351
Weber, P. 712, 2.701
Weber, T. 3.582
Wedgwood, K. 3.994
Wedzony, K. 436, 2.797, 3.180, 3.883
Wegener, D. 2.747
Wegener, G. 2.108
Weger, S. 3.369
Weglarz, W.P. 669
Wegner, M. 831
Wei, W. 3.370
Weidner, M.T. 706
Weiergräber, M. 1.017, 3.189, 3.764
Weiergräer, M. 3.005
Weinberger, D. 2.239
Weingarten, J. 2.537
Weinmann, O. 1.417
Weinreb, O. 440
Weir, K. 2.971
Weise, S. 3.511
Weishaupt, J. 2.612
Weishaupt, J.H. 2.613
Weiss, A. 3.933
Weiss, C. 2.231
Weiss, F. 2.070
Weiss, K. 1.833
Weiss, R. 1.544
Weissenberger, Y. 2.125
Weissova, T. 318
Weisstaub, N.V. 1.156
Weldon, D. 2.285
Welker, E. 2.932
Weller, M. 2.103, 3.174
Wellmann, M. 3.047
Welsh, N. 3.434
Welzel, O. 258
Wembonyama, S. 2.765
Wen, X. 3.728
Wend, P. 406
Wenseleers, T. 2.892
Wentzel, A.P. 3.162
Werling, D. 929, 1.630, 2.042
Werner, S. 452
Weruaga, E. 2.598, 2.643
Wesemann, M. 2.291
Wesierska, M. 581, 1.739
Westbrook, R.F. 3.948
Westenberg, P.M. 1.102
Westerholz, S. 2.693
Westermann, B. 1.719
Wettschureck, N. 393
Wetzel, F. 2.127
Wetzstein, G. 1.782
Weydt, P. 2.613
Weyer, S. 1.953
Wheeler-Kingshott, C. 683
Wheeler-Kingshott, C.A.M. 1.963, 3.289
Whitby, A. 2.468
Whitcomb, D. 1.945, 2.547
Whitcomb, D.J. 1.413, 2.543, 2.546, 3.035, 3.658
White, A.R. 2.946
White, J. 2.111, 3.298
White, M.D. 1.687, 2.292
White, P.J. 226
Whitehead, G. 2.514
Whitney, D. 1.218
Whitten, T. 3.616
Whittle, N. 3.391, 3.942
Wiaderkiewicz, J. 634
Wichary, S. 3.924
Wichmann, C. 1.003
Wickens, J.R. 1.047
Wickham, J. 2.910
Wickman, K. 1.359
Widago, J. 3.370
Widmer, H.R. 717
Wiedemann, P.W. 1.619
Wiedermann, D.W. 1.492
Wiegert, J. 1.917
Wielinga, P. 625
Wieloch, T. 881
Wiendl, H. 2.016, 2.774
Wienecke, J. 2.669, 2.788
Wiener, S.I. 612
Wiera, G. 3.591
Wierenga, C.J. 1.887
Wiescholleck, V. 444
Wiesmüller, F. 1.825
Wilczynski, G. 780, 3.516
Wilczynski, G.M. 1.548, 1.906
Wildner, H. 1.252
Wilemska, J. 3.045
Wilhelm, M. 3.878
Wilhelm, M.M. 1.623
Wilhelms, D.B. 1.155
Wilkars, W. 1.875
Wilkins, K.B. 3.319
Wilkins, M. 2.521
Willems, L.M. 778
Willems, R. 3.388
Willén, K. 1.960, 3.659
Williams, J.M. 2.504
Williams, R.W. 1.720
Williams, Y. 2.285
Williams, Z. 624
Williams, Z.M. 1.101
Willnow, T. 2.541
Wilneff, J. 345
Wilson, C. 1.041
Wilson, D. 1.111, 2.648
Wilson, D.A. 617
Wilson, M.C. 253
Wilson, S. 127
Wilson, T. 2.054
Wimmer, R.D. 1.074
Wincott, C. 3.359
Windels, F. 769
Winiarska, H. 1.306
Winkelman, B.H.J. 1.490
Winkelmann, A. 406, 2.519, 2.522
Winkelmann, B.H.J. 2.220
Winker, M. 2.435
Winkler, J. 831, 838, 1.975, 3.074
Winlove, C. 3.802
Winner, B. 831
Winnicka, M. 2.799
Winsky-Sommerer, R. 2.687
Wircer, E. 1.197
Wirth, T.W. 3.229
Wirtssohn, S. 2.128
Wirtu, A. 1.971
Wisden, W. 645, 2.195, 2.196, 3.563
Wiskott, L. 3.363
Wislowska, M. 1.707
Wissuwa, B. 1.364
Witt, M. 2.649
Witte, M. 3.845
Witten, I. 2.353
Witten, I.B. 1.045
Wittenmayer, N. 3.015
Witter, L. 2.220
Witter, M. 1.125, 2.421
Witter, M.P. 1.121, 1.122, 1.124, 1.126, 1.127, 1.961
Witteveen, J.S. 214
Wittmann, W. 3.512
Wittner, L. 1.011, 2.548, 3.107, 3.624
Witton, J. 806
Wlodarczyk, J. 780, 781, 788, 1.908, 3.516, 3.981

Wnuk, A. 901, 1.556
Wöhr, M. 1.754
Wojciechowski, S. 3.126
Wojcik, D. 672, 669
Wojtowicz, A. 1.473
Wojtowicz, T. 780
Wolak, T. 1.698
Wolansky, T. 3.616
Wolchek, L. 1.197
Woldeit, M.L. 2.120
Wolder-Gontarek, M. 3.045
Wolf, E. 3.681, 3.991
Wolf, F. 1.788, 3.602
Wolf, S. 415
Wolf, U. 3.333
Wolfer, D.P. 1.759, 1.803
Wolff, C. 3.961
Wolff, S. 3.392
Wolk, A. 2.927
Wollberg, J. 1.875
WoloszynowskaFraser, M. 3.617
Womelsdorf, T. 2.134
Wong, C. 2.171, 2.957
Wong, M. 2.470
Wong, T.P. 1.934
Woo, S. 1.714
Wood, A. 3.903
Woodhouse, A. 1.926
Woodin, M.A. 764, 765
Woolf, C.J. 2.192
Woolgar, A. 1.278
Wormuth, C. 3.764
Wostradowski, T. 2.028
Wotjak, C.T. 598, 2.694, 3.779
Wozny, C. 435
Wrabetz, L. 299
Wree, A. 2.649
Wright, C.E. 3.821
Wright, D. 1.474
Wright, J. 1.978
Wright, N.F. 1.115, 1.740
Wright, R. 1.824, 3.412
Wrobel, A. 2.826, 1.025, 1.026, 1.028
Wronski, R. 3.679
Wrosch, J. 3.422
Wu, A. 1.391
Wu, H.C. 821
Wu, J. 90
Wu, X.H. 223
Wu, Y. 3.653
Wu, Z. 967
Wulf, P.S. 2.936
Wulff, P. 3.369, 3.617
Wuo-Silva, R. 2.713
Wurch, W. 3.192
Wurmser, F. 3.746
Wurst, W. 3.078, 3.541
Wurth, R. 421
Wurtz, H. 1.144, 1.145, 1.146, 1.147, 1.148, 1.149
Wüstenberg, T. 3.772
Wyart, C. 9
Wyatt, C. 1.321, 3.255
Wybo, W. 3.995
Wyss, A. 3.152
Wyss-Coray, T. 2.610
Xapelli, S. 3.513
Xavier, G.F. 3.358, 3.896
Xavier, J.M. 202
Xiang, W. 831, 838, 3.074
Xiao, Y. 1.856
Xiaochen, H. 1.405
Xie, J. 837, 3.085, 3.088, 3.089, 3.090
Xilouri, M. 1.290, 1.678, 3.073
Xing, Y.L. 184
Xiong, H. 3.936
Xiong, L. 3.212
Xirodimas, D. 2.732
Xu, H. 628, 633, 3.090
Xu, M. 2.632
Xu, X. 3.085
Xuan, Y. 2.230
Yabe, K. 3.982
Yacoub, E. 2.118, 3.472
Yadid, G. 2.101
Yagi, T. 3.519
Yaguchi, Y. 3.613
Yahi, N. 1.946
Yajeya, J. 3.661, 3.663
Yakovlev, A. 909
Yakovleva, T. 1.718
Yaksi, E. 991, 1.321, 2.892, 2.894, 3.255, 3.492
Yam, K. 704, 2.109
Yamada, J. 210
Yamada, K. 2.246, 2.717, 3.832
Yamada, M. 3.536
Yamada, N. 3.613
Yamada, R. 3.390
Yamaguchi, I. 2.305
Yamaguchi, S. 3.038
Yamaguchi, Y. 1.711
Yamamoto, D. 3.747
Yamamoto, M. 2.192
Yamamoto, N. 3.203
Yamamoto, S. 2.483
Yamamotova, A. 2.079
Yamamura, Y. 1.987
Yamanaka, A. 3.832
Yamanaka, K. 2.610
Yamanishi, H. 2.766
Yamanobe, T. 3.996
Yamaoka, S. 518
Yamasaki, M. 1.834
Yamashita, Y. 3.184
Yamauchi, S. 3.204
Yamazaki, M. 265, 266, 3.294
Yan, K. 212
Yan, S.H. 331
Yan, X. 2.649
Yanagawa, Y. 210, 804, 1.987, 3.061, 3.205
Yanagisawa, H. 3.747
Yanagisawa, M. 2.811, 3.383
Yanagita, S. 1.795, 3.413
Yanez, A. 291
Yang, C. 3.803
Yang, C.M. 943, 944
Yang, F. 2.649
Yang, H. 1.843, 1.852, 1.958
Yang, J. 296, 3.538
Yang, Y. 1.654, 2.894, 3.846
Yanguas Casas, N. 3.175
Yanover, U. 1.911
Yao, T. 2.845
Yao, Y. 2.243
Yarden, Y. 3.618
Yarom, Y. 523, 524, 3.618
Yartsev, M. 638
Yarzagaray, A. 250
Yassouridis, A. 2.815
Yasui, M. 3.149
Yates, J. 1.824
Yates, J.R. 3.802
Yavorskaya, E.N. 2.594
Ycu, E.A. 3.376
Ye, Z. 245, 3.563
Yee, A. 3.091
Yefimenko, N. 740
Yeghiazaryan, M. 2.667
Yegutkin, G. 512
Yeh, C.Y. 3.671
Yeh, S.H. 1.639
Yeh, T. 3.838
Yelhekar, T. 1.881
Yen Potin, F. 1.619
Yenkoyan, K. 1.456
Yeo, M.J. 2.084
Yeon, S. 2.207, 3.637
Yeung, K.K. 2.484
Yevenes, G.E. 1.252
Yger, P. 2.299
Yi, C. 3.070, 3.682
YI, J. 2.547
Yi, J.H. 2.543, 2.546, 3.035
Yi, S.S. 1.918
Yip, H.K. 2.662
Yip, P. 2.668
Yip, P.K. 1.517, 2.657
Ylä-Outinen, L. 770, 1.811, 2.561, 3.062, 3.063
Yokoyama, K. 283
Yokoyama, O. 2.165, 2.166
Yokoyama, S. 3.307
Yokoyama, T. 2.713
Yoneda, H. 3.204
Yonemasu, T. 212
Yong, C.S. 328
Yoo, D.Y. 1.416, 1.918
Yoon, S. 2.093
Yoon, Y. 1.918
Yoon, Y.G. 1.782
Yoon, Y.S. 1.416
Yoshida, A. 3.203
Yoshida, L. 3.109
Yoshida, M. 2.232
Yoshida, S. 518, 2.029, 3.176, 3.574
Yoshida, Y. 2.928
Yoshihara, C. 1.392
Yoshikawa, H. 919
Yoshimura, Y. 1.836
Yoshitake, T. 1.718, 2.847
Yoshizaki, K. 2.631
Yoshoda, T. 507
Youdim, M.B.H. 440
Youn, S.H. 246
Young, A. 1.493, 3.206
Young, A.M.J. 2.885, 3.133, 680
Young, D. 1.391, 1.570, 2.251
Young, K. 4.001
Yozu, A. 2.172
Ytebrouck, E. 3.360, 3.622
Yu, D. 2.685
Yu, J. 3.182
Yu, L. 2.632
Yu, X. 3.563
Yurov, Y.B. 480
Yustos, R. 645, 2.195
Yuzaki, M. 3.457, 3.459
Yves Lamberty, Y.L. 1.749
Zacchetti, D. 2.018
Zacchi, P. 1.251, 1.883
Zádori, D. 1.469
Zagar, Y. 1.310
Zagotto, G. 3.399
Zagrean, A. 1.688
Zagrean, A.M. 1.502, 1.507, 2.926
Zagrean, L. 1.507, 1.688, 2.926
Zagrebelsky, M. 776, 1.417, 1.919, 2.103, 2.492
Zahiu, D. 1.507, 1.688, 2.926
Zahn, N. 1.394, 2.854
Zahr, N. 2.764
Zai, A. 2.898
Zaichenko, M. 3.361
Zaichuk, M. 386, 3.683
Zaidan, H. 708
Zaitsev, A. 2.502
Zaitsev, S. 546
Zajdel, J. 2.873

Zajdel, P. 3.179
Zakharov, I.S. 1.597
Zakrzewska, M. 1.089
Zakrzewska, R. 2.833, 3.837
Zalachoras, I. 2.190
Zaldivar, D. 2.135
Zaleshin, M.S. 635, 2.706
Zalewska, T. 3.140
Zalfa, C. 2.620
Zalfa, F. 135
Zaltieri, M. 3.092
Zambelli, T. 1.166, 1.169
Zambello, E. 3.571
Zambenedetti, P. 1.606
Zamberlam, C.R.Z. 3.375
Zamberletti, E. 2.723, 2.731
Zambetti, S. 1.905
Zamboni, G. 3.873
Zammataro, M. 3.285
Zamparo, I. 3.239, 3.249
Zancada-Menendez, C. 3.342, 3.362
Zancan, D.M. 1.681
Zancanaro, C. 3.338
Zanella, M. 408
Zanetta, C. 2.611
Zanetti, M. 2.282
Zangaglia, R. 816
zangari, R. 3.423
Zangenehpour, S. 3.919
Zangrandi, L. 3.765
Zanier, E. 3.423
Zaninello, M. 968
Zanni, G. 671
Zanoletti, O. 2.800, 2.802
Zanon, M. 1.108
Zanon, P. 1.648
Zanona, Q.K. 3.950
Zanusso, G. 3.645
Zapata, J. 473, 1.382, 2.506
Zapf, I. 3.877
Zappettini, S. 247
Zarayskaya, I. 703, 2.959
Zarayskaya, I.Y. 701
Zarnowiec, K. 3.905
Zavasnik-Bergant, T. 3.177
Zawadzka, M. 2.667
Zbili, M. 3.576, 3.566
Zbukvic, I.C. 3.366
Zeber, K. 505, 2.150
Zeberg, H. 2.927, 3.564
Zecharia, A. 645
Zecharia, A.Y. 3.563
Zechel, S. 3.539
Zeck, G. 2.922
Zeegers, M. 1.706
Zehendner, C.M. 3.538
Zeilhofer, H.U. 1.252, 2.838
Zelek-Molik, A. 1.577
Zelena, D. 1.752, 3.393
Zelenka, J. 937
Zelenova, M.A. 480
Zelina, P. 1.310
Zeljko, M. 416
Zemla, R. 1.824
Zenaro, E. 1.436
Zeng, H. 2.908
Zenger, M. 314
Zenon, A. 572, 1.689
Zentai, N. 3.904, 3.906
Zepeda-Ruiz, W.A. 567
Zerbi, V. 625, 649
Zerbo, M. 2.607
Zerdoumi, Y. 2.635
Zernig, G. 2.710, 2.730, 3.804
Zerovnik, E. 3.177
Zessin, S. 1.904
Zeug, A. 3.981
Zhang Schaerer, Y.P. 3.240
Zhang, B. 2.738
Zhang, C.L. 3.464
Zhang, H. 3.089, 3.181
Zhang, J. 836, 3.178, 3.653
Zhang, K. 2.609
Zhang, L. 1.667, 2.804, 2.958
Zhang, M. 715, 2.669, 3.653
Zhang, M.D. 2.058
Zhang, S. 3.363, 3.653
Zhang, T. 1.777
Zhang, W. 715, 3.241
Zhang, X. 3.579, 3.748
Zhang, Y. 929, 2.669, 3.370
Zhang, Z. 2.196
Zhao, H. 2.538
Zhao, N. 1.817
Zhao, Q. 2.062
Zhao, Q.Y. 3.370
Zhao, S. 1.034
Zhao, X. 2.445
Zheludev, N. 1.771
Zheng, J. 819
Zheng, K. 1.128
Zheng, L. 346
Zhong, S. 3.927
Zhou, C. 2.656
Zhou, H. 3.299
Zhou, K. 3.300
Zhou, L. 2.484
Zhou, M. 3.635
Zhu, J. 1.341
Zhuravliova, E. 4.002
Zhvania, M. 621
Zianni, E. 2.512
Zibara, K. 710
Ziegart, K. 3.208, 3.236
Ziegler, J. 3.582
Ziemann, U. 778
Ziemka-Nalecz, M. 3.140
Zikos, C. 1.442
Zilbershtain- kra, Y. 3.272
Zilberter, M. 3.684
Zilka, N. 320, 323, 324
Zilkova, M. 323
Zimarino, V. 377, 1.380, 1.420, 2.139, 3.106, 3.504
Zimcik, P. 1.349, 1.160
Zimina, I. 3.368
Zimmer, A. 1.547, 1.950, 2.250, 2.672, 2.734
Zimmer, M. 1.782, 3.978
Zimmermann, E. 3.343
Zimmermann, U. 958
Zimova, I. 320, 324
Zipancic, I. 2.033
Zipfel, G.J. 3.153
Zippo, A. 3.862
Zisimopoulos, D. 357
Ziv, N. 1.889, 2.380
Ziv, N.E. 2.379
Zivanovic Macuzic, I. 2.830
Ziv-Polat, O. 2.291
Ziyatdinova, S. 3.766
Zizzari, P. 3.372
Zlabinger, C. 1.864
Zmarz, P. 1.845
Zobeiri, M. 1.482, 3.575
Zobova, S. 3.057
Zoccolan, D. 1.723
Zoccoli, G. 2.197
Zocher, K. 1.833
Zoghbi, H. 1.281
Zografos, B. 709
Zoli, M. 334, 2.729, 3.170
Zondler, L. 2.613, 2.614
Zordan, M.A. 2.532
Zordan, P. 2.650
Zorov, D.B. 3.676
Zorzan, M. 427
Zou, J. 1.161
Zoubovsky, S. 2.186
Zoupi, L. 399
Zsarnovszky, A. 2.181, 3.305
Ztaou, S. 3.072
Zubarev, I. 3.836, 3.934
Zubkov, D.A. 1.136
Zucca, I. 213
Zucca, R. 3.997
Zucca, S. 1.347, 1.483, 1.772
Zuccaro, E. 2.444
Zuccato, C. 1.475
Zucchelli, M. 1.691, 2.002
Zucchini, S. 1.491
Zuccoti, A. 958
Zuffardi, O. 3.423
Zugaro, M. 612
Zullo, L. 2.469
Zuncheddu, M.A. 1.586
Zunino, G. 456
Zupan, G. 3.147
Zupan, Z. 3.147
Zur Nedden, S. 910, 908
Zurawek, D. 1.673, 3.636
Zwaenepoel, D. 3.418
Zwang, R. 3.955
Zwanzger, P. 2.698
Zworykina, S. 2.212
Zybura-Broda, K. 3.045
Zygierewicz, J. 2.148
Zygmunt, M. 2.873
Zysk, M. 336
Zyuzin, E. 3.619
Zyuzin, E.V. 492, 809, 1.607
Zyuzina, A. 1.597

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