

FENS Featured Regional Meeting

11–14 September 2013
Prague, Czech Republic

FENS | Federation of
European
Neuroscience
Societies



FINAL PROGRAMME

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

Call for Abstracts

Scientific Programme
of the FENS Forum 2014

9 plenary lectures
10 special lectures
56 symposia
6 technical workshops
Special interest events
Social events
EJN special lecture
Satellite events
Poster sessions on 15.000 m² of
exhibit space at the MiCo, Milan

Full details of the programme and
instructions for registration and abstract
submission can be obtained from
www.fens.org/2014

The website for registration and abstract
submission opens: December 2, 2013

Deadline for early registration,
abstract submission and travel grants
application for young scientists:
February 2, 2014

A must in Europe
for neuroscientists
all over the world

TABLE OF CONTENTS

Acknowledgement	4
Welcome Message	6
Committees	8
Training Schools and Satellite Symposium	9
Meeting Venue	10
Floor Plan	11
Programme at a Glance	12
Stipends and Awards	16
Scientific Programme	20
Poster Sessions	37
Information for Speakers	82
Information for Poster Presenters	83
Business Meetings	84
Social Events	84
Exhibitors	86
General Information	88
List of Authors	93

ACKNOWLEDGEMENT

The organizers of the FENS Featured Regional Meeting 2013 gratefully acknowledge the collaboration and the financial support of the following companies and organizations:

BRONZE PARTNERS



POSTER SESSION PARTNER POCKET PROGRAMME PARTNER



SUPPORTERS

The Federation of European Neuroscience Societies (FENS)
The International Brain Research Organisation (IBRO)
The European Dana Alliance for the Brain (EDAB)
The European Brain and Behaviour Society (EBBS)
The Czech Neuroscience Society
The Slovak Society for Neuroscience
The Austrian Alzheimer Society



WELCOME MESSAGE

Dear colleagues,



On behalf of the Czech Neuroscience Society, the Slovak Society for Neuroscience and the Austrian Alzheimer Society, it is a great pleasure to welcome the international neuroscience community to Prague for the FENS Featured Regional Meeting 2013.

Prague has a long and outstanding tradition in the arts and sciences. Charles University, the oldest in Central Europe, was founded by the Roman Emperor and King of Bohemia Charles IV in 1348. Within the confines of this University, Czech neuroscience was born with the fundamental discoveries of Jan Evangelista Purkyně. Prague remains a centre of excellence in neuroscience, represented by a multitude of research institutes and university departments.

Over 600 active participants from all over the world have come to this most beautiful of European cities to take part in a broad program covering many important areas of today's neuroscience research. We hope that all the participants will find the scientific program to be an outstanding one, as the 4 plenary lectures, 18 symposia, 6 oral communication sessions and 6 special interest sessions feature many of the world's leading experts. In addition, many excellent scientists and their students will present more than 350 posters during the course of the meeting, which are an important and integral part of the scientific programme. Taken together, all of this suggests that the FENS Featured Regional Meetings will continue to have a very bright future, and we hope that the Prague meeting serves as a springboard for many more successful meetings in the years to come.

Besides the scientific programme, we hope that you will also take part in the social events that we have organized for your enjoyment and that you will spend some time in the city of Prague, full of history and beauty, and thus learn more about our city, its historical monuments and architectural treasures and its wide variety of cultural and culinary pleasures.

Most importantly, it is the presence of all of the individual participants that will make this meeting a successful scientific event and an occasion to renew old friendships and to establish new ones. We wish everyone a wonderful and rewarding visit to Prague for the FENS Featured Regional Meeting 2013, where we are certain that you will find both exciting science as well as a rewarding cultural experience.

A handwritten signature in blue ink, appearing to read 'Eva Syková'.

Eva Syková
*President of the Czech Neuroscience Society
Chair of the International Programme
and Local Organising Committees*

ORGANISING SOCIETIES

The Czech Neuroscience Society
The Slovak Society for Neuroscience
The Austrian Alzheimer Society

COMMITTEES

Local Organising Committee

Eva Syková – Chair
Miroslava Anděrová
Alexandr Chvátal
Richard Kvetňanský
Michal Novák
Jiří Popelář
Josef Syka

International Programme Committee

Eva Syková – Chair (CZ)
Dušan Dobrota (SK)
Ole Kiehn (FENS)
Richard Kvetňanský (SK)
Michal Novák (SK)
Jiří Paleček (CZ)
Alois Saria (AT)
Reinhold Schmidt (AT)
Josef Syka (CZ)
Ladislav Vyklický, Jr. (CZ)
Manfred Windisch (AT)

FENS Advisory Members

Martine Ammassari-Teule (IT)
Ferdinando Rossi (IT)

MEETING SECRETARIAT

GUARANT International spol. s r. o.

Na Pankráci 17
140 21 Prague 4
Czech Republic
Tel.: +420 284 001 444
Fax: +420 284 001 448
E-mail: fensrmp Prague@guarant.cz
Website: www.fensrmp Prague2013.com

PRE-MEETING TRAINING SCHOOLS

Date: 9-11 September 2013
Location: Institute of Experimental Medicine,
Academy of Sciences of the Czech Republic,
Videňská 1083, Prague 4

1. Electrophysiological and imaging methods to study the properties of neurons and glia

organised by Dr. Miroslava Anděrová, Dr. Ladislav Vyklický

2. Auditory neuroscience

organised by Prof. Josef Syka, Dr. Jiří Popelář

3. Stem cells and biomaterials in regenerative medicine

organised by Prof. Eva Syková, Dr. Pavla Jendelová,
Dr. Šárka Kubinová

SATELLITE SYMPOSIUM „NEUROINFLAMMATION“

Date: 8-11 September 2013
Location: Academy of Sciences of the Czech Republic,
Národní 3, Prague 1

Organisers: Jiří Paleček (Prague, Czech Republic)
Jason J. McDougall (Halifax, Canada)
Marzia Malcangio (London, UK)
Istvan Nagy (London, UK)
Michel Pohl (Paris, France)

MEETING VENUE

The FENS Featured Regional Meeting 2013 will be held at the Prague Congress Center, ideally located near the city centre with a panoramic view of Prague Castle. It is easily accessible by both public and private transport. The distance from the Václav Havel Airport Prague is 15 kilometers.

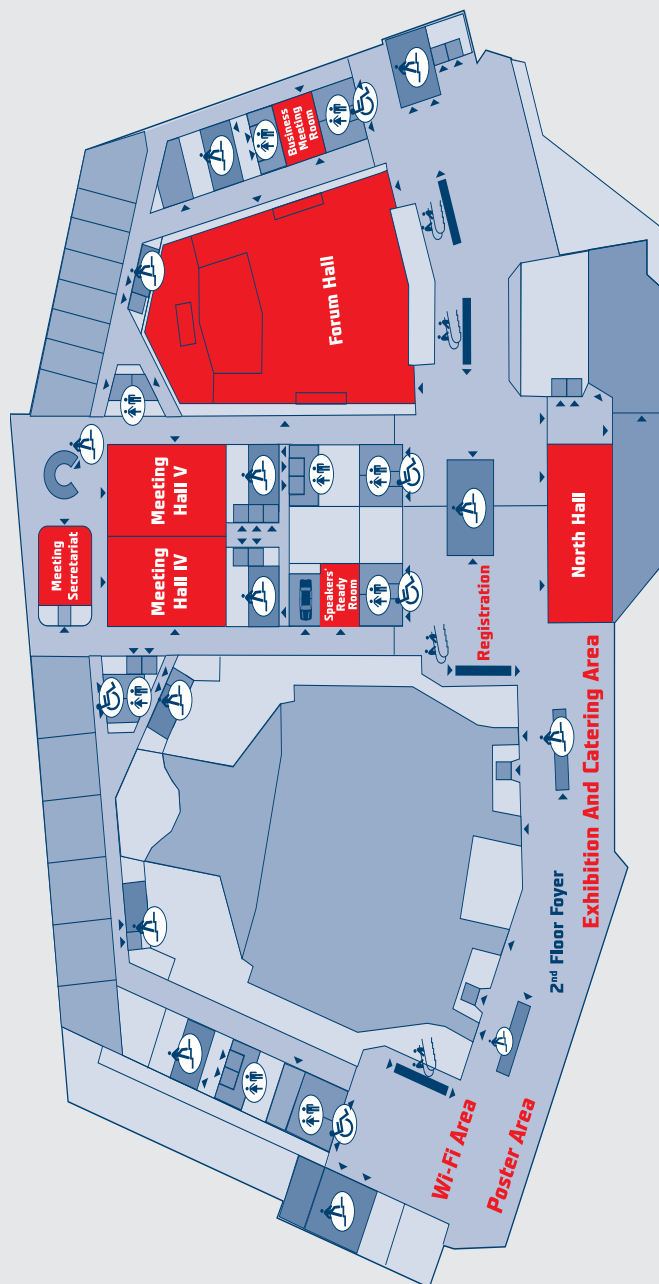
The Prague Congress Centre can be easily reached by metro line C (red line) to the station „VYŠEHRAD“, the PCC is located just in front of the metro station.

Prague Congress Centre (PCC)

5. května 65
140 21 Prague 4
Czech Republic
Tel: +420 261 171 111
www.kcp.cz

FLOOR PLAN - 2ND FLOOR

Opening Ceremony	Forum Hall
Plenary Lectures I-IV	Forum Hall
EJN Lecture	Forum Hall
Symposia II, VIII, XIV	Forum Hall
Symposia I, IV, VII, X, XIII, XVI	Meeting Hall IV
Symposia III, V, IX, XI, XV, XVII	Meeting Hall V
Symposia VI, XII, XVIII	North Hall
Special Interest Sessions I-VI	North Hall
Oral Sessions I, III, V	Meeting Hall IV
Oral Sessions II, IV, VI	Meeting Hall V
Poster Sessions I-III	2 nd Floor Foyer
Registration	2 nd Floor Foyer
Exhibition	2 nd Floor Foyer
Catering	2 nd Floor Foyer
Wi-Fi Area	2 nd Floor Foyer
Speakers' Ready Room	Meeting Room 2.1
Society and Business Meetings	Meeting Room 2.2
Meeting Secretariat	Meeting Hall III



PROGRAMME AT A GLANCE

WEDNESDAY, 11 September 2013			WEDNESDAY, 11 September 2013			
	FORUM HALL	MEETING HALL IV		MEETING HALL V	NORTH HALL	2 ND FLOOR FOYER
17:00-18:00	Opening Ceremony					
18:00-18:15	Break			Break		
18:15-19:15	Plenary Lecture I <i>Helmut Kettenmann</i>					
19:15-20:00	The EJN Best Publication Award 2013 Lecture					

20:00-21:00			Welcome Cocktail			
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THURSDAY, 12 September 2013			THURSDAY, 12 September 2013			
	FORUM HALL	MEETING HALL IV		MEETING HALL V	NORTH HALL	2 ND FLOOR FOYER
09:00-10:00	Plenary Lecture II <i>James W. Fawcett</i>					
10:00-10:30	Coffee Break			Coffee Break		
10:30-12:30	Symposium II	Symposium I		Symposium III		
12:30-14:45	Lunch Break			Lunch Break	13:00-14:00 Special Interest Session I	Poster Session I
14:45-16:00		Oral Session I		Oral Session II	14:45-16:15 Special Interest Session II	
16:00-16:30	Coffee Break			Coffee Break		
16:30-18:30		Symposium IV		Symposium V	Symposium VI	

20:00-23:00			FENS Dinner (by invitation only)			
20:00-23:00			Jazz Boat Trip (tickets required)			

FRIDAY, 13 September 2013				FRIDAY, 13 September 2013		
	FORUM HALL	MEETING HALL IV		MEETING HALL V	NORTH HALL	2 ND FLOOR FOYER
09:00-10:00	Plenary Lecture III <i>Karel Svoboda</i>					
10:00-10:30	Coffee Break			Coffee Break		
10:30-12:30	Symposium VIII	Symposium VII		Symposium IX		
12:30-14:45	Lunch Break			Lunch Break	13:00-14:30 Special Interest Session III	Poster Session II
14:45-16:00		Oral Session III		Oral Session IV	14:45-16:15 Special Interest Session IV	
16:00-16:30	Coffee Break			Coffee Break		
16:30-18:30		Symposium X		Symposium XI	Symposium XII	

20:00-22:00				Meeting Dinner (tickets required)		
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SATURDAY, 14 September 2013				SATURDAY, 14 September 2013		
	FORUM HALL	MEETING HALL IV		MEETING HALL V	NORTH HALL	2 ND FLOOR FOYER
09:00-10:00	Plenary Lecture IV <i>Irina Alafuzoff</i>					
10:00-10:30	Coffee Break			Coffee Break		
10:30-12:30	Symposium XIV	Symposium XIII		Symposium XV		
12:30-14:45	Lunch Break			Lunch Break	13:00-14:30 Special Interest Session V	Poster Session III
14:45-16:00		Oral Session V		Oral Session VI	14:45-16:15 Special Interest Session VI	
16:00-16:30	Coffee Break			Coffee Break		
16:30-18:30		Symposium XVI		Symposium XVII	Symposium XVIII	

20:00-21:30				History of Neuroscience Social (pre-booking required)		
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STIPENDS AND AWARDS



FENS Young Investigator Stipends

The stipends for young investigators were funded by FENS and FENS member societies.

The following individuals were awarded a travel stipend:

Amaya, Daniel (Australia)
Balachandar, Vellingiri (India)
Balasubramanian, Balamuralikrishnan (India)
Barygin, Oleg (Russia)
Battonyai, Izabella (Hungary)
Bazovkina, Daria (Russia)
Brkic, Marjana (Serbia)
De Castro, Vanessa (Spain)
Chitranshi, Nitin (India)
de la Fuente, Verónica (Argentina)
Dobryakova, Yulia (Russia)
Dodurga, Yavuz (Turkey)
Dondas, Andrei (Romania)
Dulovic, Marija (Serbia)
Gedrová, Štefánia (Slovakia)
Gvozdeva, Alisa (Russia)
Hefter, Dimitri (Germany)
Hijazi, Maruan (Spain)
Hladnik, Ana (Croatia)
Holla, Bharath (India)
Isakovic, Andelka (Serbia)
Jašková, Katarína (Slovakia)
Khateb, Mohamed (Israel)
Krajcs, Nóra (Hungary)
Kucharíková, Andrea (Slovakia)
Kulikova, Elizabeth (Russia)
Kumar, Pardeep (India)
Lana, Daniele (Italy)
Lazic, Divna (Serbia)
Lichvárová, Lucia (Slovakia)
Malheiros, Jackeline (Brazil)
Maraula, Giovanna (Italy)
Matiašová, Anna (Slovakia)
Meka Durga, Praveen (Germany)
Mironova, Vera (Russia)
Mitra, Soham (India)

Naumenko, Vladimir (Russia)
Neira, Tanya (Chile)
Petrovic, Jelena (Serbia)
Polajnar, Mira (Slovenia)
Provensi, Gustavo (Italy)
Rojas-Mancilla, Edgardo (Chile)
Ryazantseva, Maria (Russia)
Ševc, Juraj (Slovakia)
Sharikadze, Nino (Georgia)
Sosiedka, Luliia (Ukraine)
Soukup, Dalibor (Ireland)
Stamenkovic, Stefan (Serbia)
Stergiopoulos, Athanasios (Greece)
Tennstaedt, Annette (Germany)
Testic, Vesna (Serbia)
Vergara, Edgar (Mexico)
Vigont, Vladimir (Russia)
Yapislar, Hande (Turkey)
Yisarakun, Waranurin (Thailand)



NENS ALUMNI travel grants

have been awarded to:
Cukic, Milena (Serbia)
Katic, Jelena (Serbia)
Minakaki, Georgia (Greece)
Nagy, Krisztina (Hungary)



The EJN Best Publication Award 2013

In collaboration with FENS and Wiley-Blackwell, EJN is proud to announce that the winner of the „Best Publication Award 2013“ is **Dr. Lisa Schnell**, researcher at the Brain Research Institute of the University and ETH of Zurich, Switzerland. She receives this Award for her first-authored publication in EJN:

„Combined delivery of Nogo-A antibody, Neurotrophin-3 and NMDA-NR2D subunits establishes a functional detour in the hemisectioned spinal cord“, published in the European Journal of Neuroscience, Volume 34, Issue 8, pages 1256-1267, October 2011.



IBRO-WERC and IBRO-CEERC grants

The Western Europe Regional Committee of IBRO and the Central and Eastern Europe Regional Committee of IBRO provided grants to the following participants of the three Training Schools, held at the Institute of Experimental Medicine ASCR from 9 to 11 September 2013.

Amorim, Beatriz (Brazil)
 Chang, Ying-Jou (Taiwan)
 Dave, Arpita (India)
 De Faveri, Sara (Italy)
 Donega, Vanessa (The Netherlands)
 Ebbers, Lena (Germany)
 Gedrová, Stefánia (Slovakia)
 Gvozdeva, Alisa (Russia)
 Horvath, Domonkos (Hungary)
 Menghon-Simpson, Cheah (U.K.)
 Kencebay Manas, Ceren (Turkey)
 LozanoPardo, Stella (Colombia)
 Lu, Hui-Pin (Taiwan)
 Lukáčová, Kristína (Slovakia)
 Mustakeem (India)
 Nagaeva, Elina (Russia)
 Paiva, Daisyléa (Brazil)
 Petrovic, Jelena (Serbia)
 Podobinska, Martyna (Poland)
 Polajnar, Mira (Slovenia)
 Popova, Dina (Finland)
 Roitbak, Tamara (USA)
 Romariz, Simone (Brazil)
 Soukup, Dalibor (Ireland)
 Stanojević, Marija (Serbia)



IBRO-CEERC grants

The Central and Eastern Europe Regional Committee of IBRO also provided travel grants for the Meeting to the following individuals:

Castro, Maite A. (Chile)
 Kuzibayev, Jamshid (Uzbekistan)
 Lejavová, Katarína (Slovakia)
 Podobinska, Martyna (Poland)
 Omelchenko, Oleksii (Ukraine)
 Slobodskoy-Plusnin, Jaroslav (Russia)



IBRO ALUMNI travel stipend

has been awarded to IBRO Alumni Fellow Hanganu-Opatz, Iliana (Germany).



Stipend of the Czech Neuroscience Society

has been awarded to IBRO Alumni Fellow Babušíková, Eva (Slovakia).

SCIENTIFIC PROGRAMME

Wednesday, 11 September 2013

17:00-18:00 **Opening Ceremony** **FORUM HALL**
Prof. Eva Syková, President of the Czech Neuroscience Society, Meeting Chair
Prof. Michal Novák, President of the Slovak Society for Neuroscience
Prof. Marian Jöels, President of the Federation of European Neuroscience Societies
 Concert of Baroco sempre giovane

18:15-19:15 **Plenary Lecture** **FORUM HALL**
Introduced by Eva Syková (Czech Republic)

PL-1 **Helmut Kettenmann (Germany):**
 Defined responses of microglia in different diseases

19:15-20:00 **The EJN Best Publication Award 2013 Lecture** **FORUM HALL**
Chair: Jean-Marc Fritschy (Switzerland)

EJN-1 **Lisa Schnell (Switzerland), Victor Arvanian (USA):**
 "Along the detour to Rome" – Effects of a combinatorial treatment in the hemisectioned rat spinal cord

Thursday, 12 September 2013

09:00-10:00 **Plenary Lecture** **FORUM HALL**
Introduced by Miroslava Anděrová (Czech Republic)

PL-2 **James W. Fawcett (UK):**
 Targeting the extracellular matrix to repair the damaged nervous system

10:00-10:30 **Coffee Break**

10:30-12:30 **Symposium I: Adenosine based therapies in Parkinson's disease** **MEETING HALL IV**
Chair: Kjell Fuxe (Sweden)

S-I-1 **Kjell Fuxe (Sweden):**
 A2A antagonists in models of Parkinson's disease. Mechanisms of antiparkinsonian actions

S-I-2 **Micaela Morelli (Italy):**
 Motor dysfunction and l-dopa-induced dyskinesia: modulation by adenosine and serotonin transmission

S-I-3 **Peter Jenner (UK):**
 Adenosine A2a antagonists in primate models of Parkinson's disease and in clinical trial

S-I-4 **Daniel Segal (Israel):**
 Mannitol – a BBB disrupter is a potent a-synuclein aggregation inhibitor for treating Parkinson's

10:30-12:30 **Symposium II: Developing therapies for treatment of the traumatized brain: stem cells and glia** **FORUM HALL**
Chair: James St John (Australia)

S-II-1 **Eva Syková (Czech Republic):**
 Stem cells and biomaterials for neural repair

S-II-2 **James St John (Australia):**
 The therapeutic potential of glia for neural repair

S-II-3 **Susan Barnett (UK):**
 Olfactory cells for the repair of spinal cord injury

S-II-4 **Francis Feron (France):**
 Restoring memory with human nasal olfactory stem cells

10:30-12:30 **Symposium III: Diversity of pathways of gliotransmission** **MEETING HALL V**
Chair: Yuriy Pankratov (UK)

S-III-1 *Yuriy Pankratov (UK):*
Exocytosis of ATP and glutamate from neocortical astrocytes

S-III-2 *David Spray (USA):*
Bidirectional pannexin-mediated glial- neuronal signalling in trigeminal ganglion and role in orofacial pain

S-III-3 *Justin C. Lee (Korea):*
TREK-1 mediates glutamate release in astrocytes upon GPCR activation

S-III-4 *Arthur Butt (UK):*
Astrocyte ATP-mediated signalling: maintaining axonal excitability in CNS white matter

12:30-14:45 **Lunch Break**

12:30-14:45 **Poster Session I** **2nd FLOOR FOYER**

13:00-14:00 **Special Interest Session I: CARE Lectures** **NORTH HALL**
– organised by the FENS Committee on Animals in Research (CARE)
Chair: Pieter Roelfsema (The Netherlands)

SI-I-1 *Pieter Roelfsema (The Netherlands):*
The role of animal models in neuroscience research in Europe

SI-I-2 *Dana Morávková (Czech Republic):*
The animal models in basic and applied research

14:45-16:15 **Special Interest Session II: Memorial Session in Honour of Jan Bureš** **NORTH HALL**
– sponsored by the European Brain and Behaviour Society
Chair: Josef Syka (Czech Republic)

SI-II-1 *Josef Syka (Czech Republic):*
Jan Bureš (1926-2012)

SI-II-2 *Lynn Nadel (USA):*
Jan Bures: The Turbulent 60s

SI-II-3 *André Fenton (USA):*
Tracing a long-term memory

SI-II-4 *Aleš Stuchlík (Czech Republic):*
Place navigation in the moving world and animal models of brain disorders

14:45-16:00 **Oral Session I: Regeneration, extracellular space, blood brain barrier** **MEETING HALL IV**
Chair: Lydia Vargova (Czech Republic)

O-01 *Daniel Amaya (Australia), J. Ekberg, F. Chehrehasa, J. St John:*
Nerve growth in embryonic mice: The events regulating axonal overextension in the olfactory bulb

O-02 *Lena Stenberg (Sweden), L.B. Dahlin:*
Nerve regeneration is different in male and female in healthy and diabetic rats after nerve repair

O-03 *Michal Cicanic (Czech Republic), M. Edamatsu, Y. Bekku, E. Sykova, T. Ohashi, L. Vargova:*
Diffusion parameters of the extracellular space in the thalamus of aged mice deficient for Bral2

O-04 *Eleni Roussa (Germany), M. Schrödl, M. Speer, D. Dehlike:*
Regulation of acid-base transporters in neural cells following extracellular pH changes

O-05 *Joana Gonçalves (Portugal), T. Martins, N. Milhazes, F. Borges, C. Fontes-Ribeiro, A.P. Silva:*
Methamphetamine causes neuroinflammation and blood-brain barrier dysfunction in mouse hippocampus

14:45-16:00 **Oral Session II: Regeneration** MEETING HALL V
Chair: Susan Barnett (UK)

- 0-06** *Slaven Erceg (Spain), D. Lukovic, L. Sanchez-Valdes, S. Bhattacharya:*
Beneficial role of astrogliosis in promotion of functional recovery upon transplantation
- 0-07** *Dasa Cizkova (Slovak Republic), L. Slovinska, I. Grulova, M. Nagyova, J. Kafka, M. Kuricova, V. Ledecy, M. Cizek:*
Alginate biomaterial releasing GFs promote repair of injured spinal cord: in vitro/in vivo study
- 0-08** *Juraj Sevc (Slovak Republic), V. Kutna, A. Matiasova, Z. Daxnerova:*
Ventricular zone of the spinal cord is the source of cells with oligodendroglial phenotype
- 0-09** *Annette Tennstaedt (Germany), M. Aswendt, G. Schneider, N. Henn, C. Schaefer, M. Hoehn:*
In vitro and in vivo non-invasive tracking and fate specification of human neural stem cells
- 0-10** *James St John (Australia), F. Chehrehasa, J. Ekberg, D. Amaya, A. Mackay-Sim:*
Olfactory ensheathing cells proliferate from local OECs and from precursors in the olfactory mucosa after different type of injuries

16:00-16:30 **Coffee Break**

16:30-18:30 **Symposium IV: Neurotrophic support of the midbrain dopaminergic system** MEETING HALL IV
Chair: Edgar R. Kramer (Germany)

- S-IV-1** *Kerstin Kriegelstein (Germany):*
The versatile functions of Transforming Growth Factors-beta to provide neurotrophic support for the dopaminergic system
- S-IV-2** *Mart Saarma (Finland):*
Biology and therapeutic potential of GDNF and CNF
- S-IV-3** *Jose Lopez-Barneo (Spain):*
Role of GDNF in maintenance of adult nigrostriatal dopaminergic neurons
- S-IV-4** *Edgar R. Kramer (Germany):*
In vivo function of GDNF signaling receptors in the dopaminergic system

16:30-18:30 **Symposium V: Neural Stem Cells and Regeneration Following Stroke** MEETING HALL V
Chair: Zaal Kokaia (Sweden)

- S-V-1** *Zaal Kokaia (Sweden):*
Neurogenesis and stem cell transplantation strategies for stroke
- S-V-2** *Tamara Roitbak (USA):*
Angiogenesis-supporting properties of the neural stem/progenitor cells
- S-V-3** *Mathias Hoehn (Germany):*
Stem cell imaging in stroke
- S-V-4** *Milos Pekny (Sweden):*
Astrocytes as important modulators of neurogenesis and CNS plasticity

16:30-18:30 **Symposium VI: Regulation of NMDA receptor function: from assembly to synapses and memory** NORTH HALL
Chair: Ladislav Vyklický (Czech Republic)

- S-VI-1** *Nathalie Sans (France):*
Regulation of NMDA receptor traffic by scaffolding planar cell polarity proteins
- S-VI-2** *Hilmar Bading (Germany):*
The NMDA receptor paradox: Prosurvival versus death signaling
- S-VI-3** *Ladislav Vyklický (Czech Republic):*
Voltage-independent block of NMDA receptor channels by endogenous neurosteroids
- S-VI-4** *Rolf Sprengel (Germany):*
The function of AMPA and NMDA receptors in spatial learning and memory

Friday, 13 September 2013

09:00-10:00 **Plenary Lecture** FORUM HALL
Introduced by Josef Syka (Czech Republic)

PL-3 **Karel Svoboda (USA):**
The neural circuits underlying active somatosensation

10:00-10:30 **Coffee Break**

10:30-12:30 **Symposium VII: Neuroinflammation and Pain** MEETING HALL IV
Chair: Jiří Paleček (Czech Republic)

S-VII-1 **Michaela Kress (Austria):**
Neuroimmune communication: implications for acute and persistent pain

S-VII-2 **Michel Pohl (France):**
Inflammatory signaling in spinal microglia cells: impact on neighboring cell populations

S-VII-3 **Marzia Malcangio (UK):**
Neuron-Immune interactions in chronic pain

S-VII-4 **Jiří Paleček (Czech Republic):**
Neuroinflammation and modulation of spinal cord synaptic transmission

10:30-12:30 **Symposium VIII: Signalling in neuronal-glia network** FORUM HALL
Chair: Vladimír Párpura (USA)

S-VIII-1 **Vladimír Párpura (USA):**
Spatio-temporal characteristics of exocytosis in astrocytes: single vesicle/molecule measurements

S-VIII-2 **Govindan Dayanithi (Czech Republic):**
Ca²⁺ signalling in neurones and glia in DRG cells: modulation by vasopressin and oxytocin

S-VIII-3 **Dmitry Rusakov (UK):**
Ca²⁺ signal processing in astrocytes: deciphering the key players

S-VIII-4 **Sergei Kirischuk (Germany):**
Astrocytic Na⁺ influences extracellular GABA/ glutamate balance in the neocortex

10:30-12:30 **Symposium IX: Presynaptic NMDA receptors and plasticity** MEETING HALL V
Chair: Ole Paulsen (UK)

S-IX-1 **Antonio Rodriguez-Moreno (Spain):**
Role of presynaptic NMDA receptors in spike timing-dependent plasticity

S-IX-2 **Per Jesper Sjöström (Canada):**
Target-specific expression of presynaptic NMDA receptors in neocortical microcircuits

S-IX-3 **Thomas Nevian (Switzerland):**
Neocortical spike timing-dependent depression requires astrocyte mediated retrograde signaling

S-IX-4 **Ole Paulsen (UK):**
Presynaptic NMDA receptor-dependent self-depression at developing neocortical synapses

12:30-14:45 **Lunch Break**

12:30-14:45 **Poster Session II** 2nd FLOOR FOYER

13:00-14:30 **Special Interest Session III: Special Event on Advocacy** NORTH HALL
– sponsored by the Communication Committee of FENS
Chair: Kiki Thermos (Greece)

SI-III-1 **Kiki Thermos (Greece):**
Opening and introduction

SI-III-2 **Monica Di Luca (Italy):**
The burden of disease and advocacy

SI-III-3 **Mara Dierssen (Spain):**
Case study: Neuroscience advocacy in Spain hits the big time

SI-III-4 **Selma Kanazir (Serbia):**
Case study: Neuroscience in Serbia: Taking the road to advocacy

SI-III-5 **Lara Passante (Belgium):**
Horizon 2020: Available instruments in support of neuroscience

14:45-16:15 **Special Interest Session IV: NORTH HALL****Network of European Neuroscience Schools (NENS): Activities and opportunities**– organised by the NENS Committee of FENS
Chair: Ferdinando Rossi (Italy)**SI-IV-1** **Ferdinando Rossi (Italy):**
What is NENS and how can improve our activities for you?**SI-IV-2** **Jelena Katic (Serbia):**
In vitro model system to study the role of tenascins in astrocyte migration and wound healing**SI-IV-3** **Georgia Minakaki (Greece):**
Characterization of α -synuclein secretion – Focus on exosomes**SI-IV-4** **Krisztina Nagy (Hungary):**
Neural correlates of after-effects caused by adaptation to multiple face displays**SI-IV-5** **Milena Cukic (Serbia):**
How could we apply the measures taken from theory of nonlinear dynamical systems in neuroscience and why?14:45-16:00 **Oral Session III: Synaptic transmission MEETING HALL IV****Chair: Tomas Hromadka (Czech Republic)****0-11** **Michael Schmeisser (Germany), E. Ey, S. Wegener, J. Bockmann, A. Kuebler, A.L. Janssen, P.T. Udvardi, C. Spilker, A.M. Grabrucker, D. Schmitz, M.R. Kreutz, T. Bourgeron, E.D. Gundelfinger, T.M. Boeckers:**
Abnormal glutamate neurotransmission and autistic-like behaviours in mice lacking Shank2**0-12** **Rostislav Turecek (Czech Republic), K. Pysanenko, D. Profant, J. Syka:**

Differential distribution of Ih among layer 5 pyramidal neurons in the rat auditory cortex

0-13 **Tomas Hromadka (Czech Republic), A. Reid, A. Zador:**
Early dynamics of excitation and inhibition maintain late frequency tuning in auditory cortex**0-14** **Aleksey Zaitsev (Russia), D. Lewis:**
Properties of synaptic connections between pyramidal cells and fast-spiking interneurons**0-15** **Anna Klintsova (USA), G. Hamilton:**
Running and complex environment as intervention for neonatal alcohol exposure: granule cell morphology14:45-16:00 **Oral Session IV: Receptors and channels MEETING HALL V****Chair: Werner Sieghart (Austria)****0-16** **Gerald Seifert (Germany), S. Passlick, M. Grauer, C. Schäfer, R. Jabs, C. Steinhäuser:**
Functional and molecular analysis of GABAA receptors in hippocampal NG2 glial cells**0-17** **Martin Horak (Czech Republic), M. Kaniakova, B. Krausova, K. Lichnerova, M. Korinek, V. Vyklicky, L. Vyklicky:**
Specific determinants within membrane domains regulate the early trafficking of NMDA receptors**0-18** **Guadalupe Astorga (France), J. Bao, A. Jalil, J. Bradley, I. Llano:**
Axonal GABA-A receptors regulate parallel fiber excitability in the cerebellar cortex in vivo**0-19** **Lubica Lacinova (Slovak Republic), K. Jaskova, J. Hlinkova, L. Lichvarova:**
Role of L-type calcium channels in NGF-activated differentiation of PC12 cells**0-20** **Ales Balik (Czech Republic), A.C. Penn, I.H. Greger:**
Activity-regulated RNA editing in hippocampus16:00-16:30 **Coffee Break**16:30-18:30 **Symposium X: Functional Consequences of Sensory Loss and Restoration MEETING HALL IV****Chair: Stephen Lomber (Canada)****S-X-1** **Stephen Lomber (Canada):**
Crossmodal plasticity in auditory cortex following hearing loss**S-X-2** **Andrej Kral (Germany):**
Cross-modal reorganization of field DZ in congenital deafness**S-X-3** **Davide Bottari (Germany):**
Sensitive periods for the functional specialization of multisensory and visual processes**S-X-4** **Amir Amedi (Israel):**
'Seeing' and reading with the ears: from basic research to visual rehabilitation

16:30-18:30 **Symposium XI: Neuroglia in Neurodegeneration** MEETING HALL V
Chair: José Julio Rodríguez Arellano (Spain)

S-XI-1 *José Julio Rodríguez Arellano (Spain):*
Neuroglial alterations and recovery in Alzheimer's disease

S-XI-2 *Alexei Verkhratsky (UK):*
Neurological diseases as gliopathologies: general overview

S-XI-3 *Mami Noda (Japan):*
Therapeutic approach to neurodegenerative diseases by medical gases

S-XI-4 *Michael Heneka (Germany):*
Microglial activation in Alzheimer's disease

16:30-18:30 **Symposium XII: Assembly, regulation and function of AMPA receptors at synapses and in neural circuits** NORTH HALL
Chair: Christian Wozny (Germany)

S-XII-1 *Ingo Greger (UK):*
Latest insights into the role of the N-terminal domain (NTD) in AMPA receptor assembly and function

S-XII-2 *Nikolaj Klücker (Germany):*
Cornichons – Cargo exporters advance to AMPA receptor auxiliary subunits

S-XII-3 *Christian Wozny (Germany):*
Regulation of AMPA receptors by protein 4.1

S-XII-4 *Valentin Nägerl (France):*
Superresolution STED imaging of morpho-functional plasticity at hippocampal synapses

Saturday, 14 September 2013

09:00-10:00 **Plenary Lecture** FORUM HALL
Introduced by Michal Novák (Slovak Republic)

PL-4 *Irina Alafuzoff (Sweden):*
Neuropathology of neurodegenerative diseases: past, present and future

10:00-10:30 **Coffee Break**

10:30-12:30 **Symposium XIII: Plasticity of the sensory systems during the developmental critical period and in adulthood** MEETING HALL IV
Chair: Josef Syka (Czech Republic)

S-XIII-1 *Marlies Knipper (Germany):*
News about the role of BDNF in the auditory system

S-XIII-2 *Michael Merzenich (USA):*
A new perspective about "critical period" and "adult" plasticity

S-XIII-3 *Mriganka Sur (USA):*
Rules of plasticity in the developing and adult visual cortex

S-XIII-4 *Josef Syka (Czech Republic):*
Plastic changes of neurons in the auditory midbrain induced by acoustical stimulation during the early postnatal period

10:30-12:30 **Symposium XIV: Novel roles of neuronal auxiliary calcium channel subunits** FORUM HALL
Chair: Jutta Engel (Germany)

S-XIV-1 *Annette Dolphin (UK):*
Role of alpha2delta subunits in calcium channel trafficking

S-XIV-2 *Gerald Obermair (Austria):*
Differential localization and contribution to synaptic functions of neuronal VGCC $\alpha 2\delta$ subunits

S-XIV-3 *Alexandre Favereaux (France):*
Bidirectional integrative regulation of Cav1.2 calcium channel by microRNA miR-103: role in pain

S-XIV-4 *Jutta Engel (Germany):*
The role of calcium channel $\alpha 2\delta$ subunits for hearing function in the cochlea and auditory Brainstem

10:30-12:30 **Symposium XV: Neuroinflammatory signature of Alzheimer's disease brain** MEETING HALL V
Chair: Michal Novák (Slovak Republic)

S-XV-1 *Michal Novák (Slovak Republic):*
Tau mediated neuroinflammation – Two sides of one coin

S-XV-2 *Richard M. Ransohoff (USA):*
Myeloid cells in neurodegeneration: Good guys? Bad guys?

S-XV-3 *Jari Koistinaho (Finland):*
The role of leukocytes in Alzheimer's disease pathogenesis

S-XV-4 *Wolfgang Streit (USA):*
Neurofibrillary degeneration and microglia in human brain

12:30-14:45 **Lunch Break**

12:30-14:45 **Poster Session III** 2nd FLOOR FOYER

13:00-14:30 **Special Interest Session V: Neuroethics: Brain plasticity – positive and negative effects** NORTH HALL

– Roundtable discussion sponsored by the European Dana Alliance for the Brain
Chair: Josef Syka (Czech Republic)

SI-V-1 *Participants: Michael Merzenich (USA),
Mriganka Sur (USA), Andrej Kral (Germany)*

14:45-16:15 **Special Interest Session VI: IBRO Alumni Lectures** NORTH HALL

– sponsored by the IBRO Alumni Committee and the Czech Neuroscience Society
*Chairs: Susan Sara (France),
Eva Syková (Czech Republic)*

SI-VI-1 *Ileana Hanganu-Opatz (IBRO Alumni Fellow,
Germany):*
Ontogeny of uni- and multisensory perception in rodent

SI-VI-2 *Eva Babušíková (IBRO Alumni Fellow, Slovak
Republic):*
Effect of ischaemia on expression of amyloid precursor protein and amyloid beta degrading enzymes

14:45-16:00 **Oral Session V: Disorders of the nervous system I** MEETING HALL IV
Chair: Wolfgang Streit (USA)

- 0-21** *Hana Kubová (Czech Republic), P. Mareš:*
Benzodiazepine withdrawal affects seizure susceptibility in immature rats
- 0-22** *Pavel Mareš (Czech Republic), H. Kubová:*
Ontogeny and pharmacology of cortical postictal refractoriness
- 0-23** *Alex Harper (UK), M. Albasser, A. Maxfield, T. Murray, M. O'Neill, M. Hutton, S. Dix, K. Phillips:*
Longitudinal study of spatial working memory impairments in rTg4510 mice
- 0-24** *Eike D. Schomburg (Germany), H. Steffens, P. Dibaj, T.A. Sears:*
Bilateral spreading of nociceptive reflex activity during muscle inflammation in feline spinal cord
- 0-25** *Michael Collins (USA), N. Khodaie, N. Tajuddin, R.M. Mitchell, E.J. Neafsey:*
Combinatorial brain preconditioning in vitro with low resveratrol and ethanol: SYN

14:45-16:00 **Oral Session VI: Disorders of the nervous system II** MEETING HALL V
Chair: Marlies Knipper (Germany)

- 0-26** *Bredford Kerr (Chile), E. Novoa-Padilla, J. Soto-Covasich, R. Torres-Andrade, C. Mancilla-Medina, M. Rías-Silva, N. Pineda-Mora, A. Philp, D. León:*
The phenotype of a Rett syndrome mouse model is attenuated by continuous environmental enrichment
- 0-27** *Maite A. Castro (Chile), A.I. Acuña, M. Esparza, C. Kramm, F. Beltrán, A. Parra, C. Cepeda, C.A. Toro, R. Vidal, C. Hetz, I.I. Concha, S. Brauchi, M.S. Levine:*
A failure in energy metabolism and antioxidant uptake precede the onset of Huntington's disease
- 0-28** *Shun Wong (Canada), Y. Li, Z. Cheng:*
Radiation-induced neural progenitor dysfunction is p53 dependent
- 0-29** *Vladimir Naumenko (Russia), E. Kondaurova, D. Bazovkina, A. Tsybko:*
Effect of BDNF on 5-HT receptors and genetically defined aggressive and depressive-like behavior
- 0-30** *Riejanne Seigers (The Netherlands), M. Loos, D. Van Tellingen, W. Boogerd, A.B. Smit, S.B. Schagen:*
Cognitive impact of multiple cytotoxic agents in mice

16:00-16:30 **Coffee Break**

16:30-18:30 **Symposium XVI: Multileveled regulation of cholinergic signaling** MEETING HALL IV
Chair: Hermona Soreq (Israel)

- S-XVI-1** *Hermona Soreq (Israel):*
MicroRNA-mediated regulation of the cholinergic control of neuroinflammation
- S-XVI-2** *Vania F. Prado (Canada):*
Modelling neurochemical changes in dementia by targeting the vesicular acetylcholine transporter
- S-XVI-3** *Andres Villu Maricq (USA):*
Wnt signaling and the control of synaptic strength
- S-XVI-4** *Marco Prado (Canada):*
Cholinergic control of executive function

16:30-18:30 **Symposium XVII: Allosteric modulation of ligand-gated ion channels** **MEETING HALL V**
Chair: Hana Zemková (Czech Republic)

- S-XVII-1** *Neil Millar (UK):*
Allosteric modulation of neuronal nicotinic acetylcholine receptors
- S-XVII-2** *Werner Sieghart (Austria):*
Allosteric modulation of GABAA receptors
- S-XVII-3** *Joseph Lynch (Australia):*
Phosphorylation of $\alpha 3$ glycine receptors induces a conformational change in the glycine-binding site
- S-XVII-4** *Hana Zemková (Czech Republic):*
Modulation of P2X4 receptor channel by ivermectin

16:30-18:30 **Symposium XVIII: Molecular genetic aspects of neuro-endocrine-immune interactions under stress** **NORTH HALL**
Chair: Richard Kvetňanský (Slovak Republic)

- S-XVIII-1** *Richard Kvetňanský (Slovak Republic):*
Stress-induced regulation of molecular genetic mechanisms in neuro-endocrine-immune systems
- S-XVIII-2** *James P. Herman (USA):*
Prefrontal cortical mechanisms of stress regulation
- S-XVIII-3** *Rita J. Valentino (USA):*
Sex biased stress signaling: Link to Alzheimers disease
- S-XVIII-4** *Boris Mravec (Slovak Republic):*
Neuro-endocrine-immune interactions in etiopathogenesis of somatic diseases

20:00-21:30 **History of Neuroscience Social** **CZECH MUSEUM OF MUSIC**
- sponsored by the History Committee of FENS
Chair: Helmut Kettenmann (Germany)

- SI-VII-1** *Josef Syka (Czech Republic):*
J. E. Purkyně - one of the founding fathers of neuroscience

POSTER SESSIONS

POSTER SESSION I

Thursday, 12 September 2013 from 12:30-14:45.

Posters with the following topics will be presented:

- A Development**
- A.2 Neurogenesis and gliogenesis
- A.2.a Cell lineage and cell fate specification
- A.2.b Cell migration
- A.2.c Neuronal differentiation
- A.2.d Glial differentiation
- A.3 Stem cells
- A.3.a Stem cells: basic biology and postnatal neurogenesis
- B Excitability, synaptic transmission, network functions**
- B.1 Neurotransmitters and signalling molecules
- B.1.a Glutamate
- B.1.b GABA and glycine
- B.1.c Monoamines
- B.1.d Acetylcholine
- B.1.e Nitric oxide and other gases
- B.1.h Neurotrophins and other growth factors
- B.1.i Cytokines
- B.10 Glia-neuron interactions
- B.2 Ligand gated ion channels
- B.2.b Glutamate receptors
- B.2.c GABA receptors
- B.2.d Glycine receptors
- B.2.h Purines and others
- C Disorders of the nervous system**
- C.1 Alzheimer's disease and other dementias
- C.1.a APP and Abeta
- C.1.b Tau and other pathological proteins
- C.1.c Cellular dysfunction mechanisms
- C.1.d Cognitive function
- C.1.g Therapeutic strategies
- C.10 Demyelinating disorders
- C.11 Trauma
- C.11.a Brain
- C.11.b Spinal cord injury and regeneration
- C.11.c Peripheral nerve
- C.12 Neuro-oncology

D Sensory and motor systems

- D.1.a Olfaction
- D.1.b Taste

E Homeostatic and neuroendocrine systems

- E.1 Neuroendocrine
- E.2 Cardiovascular regulation
- E.3 Respiratory regulation
- E.6 Stress and the brain
 - E.6.a HPA axis
 - E.6.b Stress and neuroimmunology
 - E.6.d Early life experience

List of Posters**A - Development****PI-A-001**

The differentiation potential of neonatal neural stem cells in vitro is affected by Wnt signaling

Kriska J, Honsa P, Dzamba D, Tumova L, Korinek V, Anderova M

PI-A-002

Proliferating radial glial cells in the spinal cord central canal lining of rat are the source of migrating glial cells with non-ependymal phenotype during the postnatal development

Matiašová A, Ševc J, Kútina V, Gedrová Š, Daxnerová Z

PI-A-003

Validation of temozolomide treatment in Long-Evans rats for blockade of adult neurogenesis

Pišťíková A, Hatalova H, Stuchlík A

PI-A-004

Effect of Melatonin on the Cell Proliferation of Substantia Nigra in AMPH-treated Postnatal Rats

Sae-ung K, Govitrapong P, Phansuwan-Pujito P

PI-A-005

GLI2-activation by Apolipoprotein B regulates gliogenesis in the postnatal cerebral cortex

Yoshida A, Yoshikawa Y, Umezawa M, Suzuki K

PI-A-006

Overexpression of DYRK1A prevents the neurotrophic effect of oleic acid in cellular models of Down syndrome

Hijazi M, Fillat C, Medina Jm, Velasco A

PI-A-007

Role of miRNAs in sympathoadrenal development

Narasimhan P, Stubbusch J, Huber K, Ernsberger U, Rohrer H, Unsicker K

PI-A-008

Nuclear receptor 5A2 induces neurogenesis vs astrogliosis & blocks self-renewal of Neural Stem Cells

Stergiopoulos A, Palitis PK

PI-A-009

Nonradial migratory stream in the human and monkey medial telencephalon during early fetal period

Hladnik A, Jovanov Milosevic N, Esclapez M, Petanjek Z

PI-A-010

Immunohistochemically identified neuronal classes in layer I of fetal neocortex

Toronova N, Ergina Yu, Krasnaschekova E, Smolina T

PI-A-011

Adenosine A2A receptor activation reduces IK currents and maturation of oligodendrocyte precursors

Cellai L, Maraula G, Pugliese AM, Pedata F, Coppi E

PI-A-012

Oligodendrocyte plasticity with an intact cell body in vitro

Makinodan M, Okuda-Yamamoto A, Ikawa D, Toritsuka M, Tatsumi K, Okuda H, Fukami S, Yoshino H, Yamamuro K, Okamura K, Yamashita Y, Nakamura Y, Wanaka A, Kishimoto T

PI-A-013

Methodological development of isolation and culture of protoplasmic astrocytes

Yoshikawa Y, Yoshida A, Umezawa M, Suzuki K, Takeda K

PI-A-014

PEDOT-PSS based MEA measurement of neural stem cell differentiation

Torimitsu K, Furukawa Y, Shimada A, Kato K, Iwata H

PI-A-015

Fate commitment control of iPS cells derived from human cord blood on fibronectin patterned domains

Podobinska M, Szablowska-Gadomska I, Augustyniak J, Buzanska L

B - Excitability, synaptic transmission, network functions**PI-B-016**

Baclofen or NNLA effectively suppress α -motoneuronal nNOS expression after spinal cord injury

Lukacova N, Kisucka A, Hricova L, Chalimoniuk M, Strosznajder J, Langfort J, Pavel J, Galik J

PI-B-017

Dopaminergic synaptic vesicles in the rodent striatum contain GABA.

Stensrud MJ, Puchades M, Gundersen V

PI-B-018

Learning Impairments Mediated by Activity Independent NMDAR Signaling

Bertocchi I

PI-B-019

Agonist-dependent kainate receptor endosomal trafficking and recycling in dendritic spines

González-González MI, Petrovic MM, Henley JM

PI-B-020

Differences in the inhibition of tonically and phasically activated NMDA receptors

Vyklicky V, Smejkalova T, Korinek M, Krausova B, Balik A, Horak M, Stastna E, Chodounska H, Vyklicky L

PI-B-021

The inhibitory effect of glycine and GABA on elementary PSP's in spinal motoneurons

Kalinina N, Kurchavyi G

PI-B-022

Comparison of [Ca²⁺]_i in dendrites and boutons of hippocampal GABAergic interneurons

Kisfali M, Lőrincz T, Vizi ES

PI-B-023

A dopaminergic circuitry for sexual motivation in *Drosophila* males.

Fu TF, Kuo SY, Lin CT

PI-B-024

Neuronal D-serine release through Asc-1 transporter regulates NMDAR-dependent synaptic activity

Rosenberg D, Artoul S, Segal CA, Kolodney G, Radzishhevsky I, Foltyn NV, Inoue R, Mori H, Billard JM, Wolosker H

PI-B-025

Pharmacology of choline receptors of the snail tentacle muscles

Krajcs N, Hernádi L, Kiss T

PI-B-026

Pro-apoptotic and anti-necrotic effect of NO on neurons and glial cells under photo-oxidative stress

Kovaleva V, Berezhnaya E, Rudkovskii M, Uzdensky A

PI-B-027

Serotonin depletion on CSD evoked cerebrovascular changes via Nitric Oxide Pathway

Saengjaraentham C, Supornsilpchai W, Ji-au W, Srikiatkachon A, Maneesri-le Grand S

PI-B-028

Chronic paracetamol treatment induced an increase in pro-inflammatory cytokines via NF- κ B signaling

Chantong C, Yisarakun W, Thongtan T, Maneesri-le Grand S

PI-B-029

Immunogold localization of Iba1 in perisynaptic microglial processes in the rat frontal cortex

Sogn CJL, Puchades M, Gundersen V

PI-B-030

Modulation mechanism for type II positive allosteric modulators of alpha7 nicotinic receptors

Szabo AK, Pesti K, Vizi ES, Mike A

PI-B-031

The action of antidepressants and antipsychotics on NMDA and AMPA receptors

Barygin DI, Nagaeva EI, Komarova MS, Fedorova IM, Tikhonov DB

PI-B-032

Possible role of extrasynaptic NMDARs in motoneurons EPSP modulation

Gapanovich S, Antonov S M

PI-B-033

Cell surface targeting of NMDA receptors is regulated by a single amino acid residue

Kaniakova M, Lichnerova K, Vyklicky L, Horak M

PI-B-034

Effects of two NMDA receptors channel-blockers on PTZ-induced seizures

Kim K, Zaitsev A, Lukomskaya N, Lavrentyeva V, Zhabko E, Zubareva D, Vasilev D, Tumanova N, Zhuravin I, Magazanik L

PI-B-035

NMDA receptor regulation by cell membrane cholesterol

Korinek M, Vyklicky V, Kaniakova M, Lichnerova K, Horak M, Krausova B, Smejkalova T, Balik A, Vyklicky L

PI-B-036

Analysis of the amino acid residues of the NMDA receptor involved in the action of steroids

Krausova B, Vyklicky V, Balik A, Vyklicky L

PI-B-037

Effects of Ca²⁺ permeable AMPAR antagonists on mEPSCs in rat cortical fast spiking interneurons

Malkin S, Kim K, Tikhonov D, Zaitsev A

PI-B-038

Regulation of a kainate receptor by NDRG and its potential importance for neuronal function

Matschke V, Seebahn G, Strutz-Seebahn N

PI-B-039

Characterization of spontaneous postsynaptic currents in primary culture of cortical neurons

Sibarov DA, Antonov SM

PI-B-040

Pregnanolone sulfate inhibition of synaptically vs. tonically activated NMDA receptors in slices.

Smejkalova T, Vyklicky V, Vyklicky L

PI-B-041

Clobazam and Diazepam: their effects on GABAA receptors of cerebellar granule cells in culture.

Nikas P, Gatta E, Cupello A, Di Braccio M, Pellistri F, Robello M

PI-B-042

Positive modulators of $\alpha 3\beta$ GlyRs are efficacious in animal models of migraine and chronic pain

Fodor L, Kis-Varga Á, Horváth Cs, Farkas B, Vukics K, Farkas S

PI-B-043

Contribution of transmembrane residues to sensitization and pore dilation of the rat P2X7 receptor

Jindrichova M, Bhattacharya A, Mokdad A, Zemkova H

PI-B-044

Distinct mechanisms of action for competitive P2X3 antagonists

Mike A, Pesti K, Szabo AK, Epresi N, Sperlagh B

PI-B-045

Influence of residues in low-conserved regions near the ATP-binding site of P2X4 receptor

Tvrdonova V, Rokic M, Zemova H

C - Disorders of the nervous system

PI-C-046

Effects of amyloid- β plaques on ongoing activity of barrel cortex neurons

Beker S, Goldin M, Chechik G, Stern EA

PI-C-047

Neuroinflammation-sensitive interactions of amyloid beta peptides and Alzheimer disease

Kristofikova Z, Ripova D, Bartos A, Ricny J, Hegnerova K, Homola J

PI-C-048

Neuroprotective effects of 17-beta-estradiol: A therapeutic potential drug for Alzheimer's disease

Kumar P, Kale R K, Baquer N Z

PI-C-049

Novel brain - like triple cell model for neuron-glia interactions in Alzheimer's disease

Majerová P, Žilková M, Kázmérová Z, Žilka N, Novák M

PI-C-050

Effects of neural stem cells transplantation in memory of mouse model for Alzheimer's disease

Paiva DS, Romariz SAA, Longo BM

PI-C-051

Interaction studies of Alzheimer's *Cathepsin B* protein with inhibitors in presence and absence of Water

Chitranshi N, Tripathi P, Seth P

PI-C-052

Amyloid precursor protein intracellular domain negatively regulates angiogenin transcription

Joanita J, Wong WQ, Stanton LW, Dawe GS

PI-C-053

A β (25-35) induces contextual fear memory disturbances and cholinergic disfunction in rats

Stepanichev M, Lazareva N, Tukhbatova G, Salozhin S, Gulyaeva N

PI-C-054

Abeta1-42 oligomers disturb synaptic plasticity by altering glutamate recycling at the synapse

Varga E, Juhász G, Bozsó Z, Fülöp L, Penke B, Szegedi V

PI-C-055

Gene expression analysis of signaling pathways in a rat model of tauopathy

Cente M, Filipcik P, Opattova A, Novak M

PI-C-056

In vitro Tau phosphorylation performed by soluble and immobilized forms of MAPK and GSK-3 β

Hromadkova L, Vajrychova M, Slovakova M, Kupcik R, Jankovicova B, Bilkova Z, Ripova D

PI-C-057

Synaptic tau proteome of human and rat brains

Jadhav S, Zilka N, Neradil P, Marosova L, Novak M

PI-C-058

Understanding neuron-glia interaction in misfolded truncated tau induced model of neurodegeneration

Kazmerova Z, Zilka N, Zilkova M, Smolek T, Novak M

PI-C-059

Levels of serum antibodies against 5 types of tau protein

Kolarova M, Bartos A, Ricny J, Ripova D

PI-C-060

The self-perpetuating tau truncation circle as the driving force of the neurofibrillary pathology

Kucerak J, Barath P, Kovacech B, Salingova B, Novak M

PI-C-061

Dog's brain and a process of aging

Mađari A, Farbáková J, Herich R, Kandrác D, Szárková A, Fialkovičová M, Ledecký V, Kozák M

PI-C-062

The role of proteasome in prevention of misfolded tau protein accumulation

Opattova A, Filipcik P, Cente M, Novak M

PI-C-063

The adaptive arm of the ER stress - a possible therapeutic target for traumatic brain injury.

Rubovitch V, Baratz-Goldstein R, Pick CG

PI-C-064

Alzheimer's disease-linked presenilin-1 mutations affect calcium channels activity: gain and loss

Ryazantseva M, Skobeleva K, Magnes D, Kaznacheyeva E

PI-C-065

Aged-related cognitive decline in PS1M146L/APP751SL mouse model of Alzheimer's disease

De Castro V, Sanchez-Varo R, Sanchez-Mejias E, Trujillo-Estrada L, Davila JC, Vitorica J, Gutierrez A

PI-C-066

Autophagy induction by Oleuropein Aglycone ameliorates neuropathology in TgCRND8 mice

Ed Dami T, Grossi C, Rigacci S, Ambrosini S, Luccarini I, Stefani M, Casamenti F

PI-C-067

Mesenchymal stem cells reduce the inflammatory reaction in spinal cord injured rats.

Machova Urdzikova L, Ruzicka J, Shannon C, Karova K, Sykova E, Jhanwar-Uniyal M, Jendelova P

PI-C-068

Effects of Sulfite molecule on URG4/URGCP,CyclinD1 and Bcl-2 gene expressions in SH-SY5Y cells*Dodurga Y, Gundogdu G, Tekin V, Koc T, Satiroglu-Tufan L, Bagci G, Kucukatay V*

PI-C-069

Role of Oligodendrocyte Precursor Cells in Metachromatic Leukodystrophy*Brysch K, Gieselmann V, Eckhardt M*

PI-C-070

Vitamin D: plasma level and gene polymorphisms in correlation with progression of multiple sclerosis*Čierny D, Michalik J, Kurča E, Dobrata D, Lehotský J*

PI-C-071

Phosphorylated neurofilament heavy chain in blood serum and CSF of patients with MS and ALS*Gulyaeva N, Fominykh V, Onufriev M, Vorobyeva A, Brylev L, Zakharova M*

PI-C-072

Neuroprotector effect of PPAR agonist in a cellular model of X-linked Adrenoleukodystroph*LozanoPardo S, Arboleda G, Jaramillo J*

PI-C-073

Expression of lanosterol 14alpha-demethylase in the nervous system and its role in myelination.*Song S-Y, Kato C, Nakashima K*

PI-C-074

Possible treatment of acute spinal cord injury in minipigs*Gedrová Š, Dubravčík M, Fabianová K, Zavadská M, Oroszová Z, Karasová M, Kucharíková A, Gálik J*

PI-C-075

Behavioral and immunohistochemical changes in rats with spinal cord injury treated with baclofen*Kucharíková A, Hricová L, Kisucká A, Schreiberová A, Gedrová Š, Lukáčová N*

PI-C-076

Influence of dietary restriction on expression of brevicin in the rat brain following injury*Brkic M, Lazic D, Tesic V, Loncarevic-Vasiljkovic N, Smiljanic K, Mladenovic Djordjevic A, Perovic M, Ruzdijic S, Kanazir S*

PI-C-077

Expression regulation and proteolytic cleavage of L1CAM after experimental brain injury*Dangel L, Bobkiewicz W, Simon K, Sebastiani A, Luh C, Pieter D, Schaible E, Thal SC, Schäfer MK*

PI-C-078

Growth hormone and rehabilitation induce motor improvement depending on the onset of the treatment*Heredia M, Fuente A, Criado JM, Yajeya J, Devesa J, Riolobos AS*

PI-C-079

Physiological changes of neurons in a damaged CNS*Jašková K, Cagalinec M, Pavlovičová M, Jurkovičová D*

PI-C-080

Galectin-1 expression after cortical lesion is modulated by dietary restriction in rats*Lazic D, Brkic M, Loncarevic-Vasiljkovic N, Tesic V, Smiljanic K, Perovic M, Mladenovic Djordjevic A, Cujic D, Bojic-Trbojevic Z, Vicovac Lj, Kanazir S*

PI-C-081

The effect of caloric restriction on age-related changes in the level of BDNF mRNA transcripts in the rat cortex and hippocampus*Pavković Ž, Smiljanic K, Perovic M, Tesic V, Mladenovic Djordjevic A, Loncarevic-Vasiljkovic N, Ruzdijic S, Kanazir S*

PI-C-082

A comparison of recovery after the transplantation of human NSCs and iPS into the rat spinal cord*Amemori T, Romanyuk N, Jendelova P, Onteniente B, Price J*

PI-C-083

Alpha9 integrin activation in neurite outgrowth and axon regeneration*Cheah M, Andrews M, Verhaagen J, Fässler R, Faissner A, Fawcett J*

PI-C-084

Transplantation of MSC in a hydrogel scaffold reduces the inflammatory response in acute SCI

Kollárová Z, Kubinová Š, Hejčl A, Syková E

PI-C-085

Effect of oral administration of Inosine in rats with spinal cord injury

Kuricova M, Grulova I, Slovinska L, Nagyova M, Ledecsky V, Cizkova D

PI-C-086

An organotypic spinal cord slice culture system to quantify astrocytic reaction

Nagyova M, Slovinska L, Grulova I, Kafka J, Kuricova M, Ledecsky V, Cizek M, Cizkova D

PI-C-087

Effect of the controlled release of NTs from biopolymer matrices on NSC proliferation

Romanyuk N, Vetric M, Karová K, Jendelová P, Hruby M, Price J, Syková E

PI-C-088

Tissue repair across PHEMA hydrogels with oriented pores seeded with rat MSCs in spinal cord injury

Růžička J, Hejčl A, Jiráková K, Kubinová Š, Horák D, Jendelová P, Syková E

PI-C-089

Filum terminale – a potential source of neural stem cells?

Slovinska L, Grulova I, Nagyova M, Kuricova M, Kafka J, Ledecsky V, Cizek M, Cizkova D

PI-C-090

Aligned Hydrogel Promotes Regeneration after Spinal Cord Injury In Vivo

Soukup D, Abu-Rub M T, Hamann A, McMahon S, Pandit A

PI-C-091

Targeting Stem Cell Delivery with High-Gradient Magnetic Fields

Tukmachev D, Kubinová Š, Vaněček V, Dejnek A, Zablotskii V, Syková E

PI-C-092

Bergamot essential oil and its extractive fractions reduce SH-SY5Y human neuroblastoma cells growth

Cirmi S, Ferlazzo N, Lombardo G, Calapai G, Navarra M

PI-C-093

Valproic Acid Inhibits the Proliferation Of SHSY5Y Neuroblastoma Cells by URG4/URGCP And CCND1

Dadurga Y, Gundogdu G, Tekin V, Koc T, Satiroglu-Tufan L, Bagci G, Kucukatay V

PI-C-094

Inosin monophosphate dehydrogenase inhibitors induce autophagy in U251 human glioma cell line

Isakovic AM, Misirlic Dencic S, Stanojevic Z, Popovic M, Trajkovic V, Isakovic A

PI-C-095

Elevated levels of expression of TCF-1 and LEF-1 transcription factors in astrocytic brain tumors

Pecina-Slaus N, Kafka A, Tomas D

PI-C-096

The action of plant-derived activators of sirtuins on some aspects of mitochondrial bioenergetics

Sharikadze N, Jajua N, Zhuravliova E, Narmania N, Barbakadze T, Mikeladze D

PI-C-097

Ferromagnetic nanoparticles for MRI-guided magnetic fluid hyperthermia-based glioblastoma treatment

Turnovcova K, Herynek V, Pollert E, Veverka M, Veverka P, Jirak D, Hajek M, Sykova E, Jendelova P

D – Sensory and motor systems

PI-D-098

The distribution of Fos positive cells in the olfactory system neurogenic area of the rat is affected

Fabianova K, Blasko J, Martoncikova M, Racekova E

PI-D-099

Effects of changes in mastication on neurogenesis at the subventricular zone and olfactory functions

Utsugi C, Osada K, Sasajima H, Noguchi T, Miyazono S, Matsuda M, Kashiwayanagi M

PI-D-100

Intranasally administrated rotenone impairs olfactory functions and dopaminergic neurons in the OB

Sasajima H, Miyazono S, Noguchi T, Kashiwayanagi M

PI-D-101

Expression of carnosine synthase in mouse brain*Saile A, Gieselmann V, Eckhardt M*

PI-D-102

Pleasant or unpleasant? Assessment of the influence of olfactory stimuli*Sosiedka IS, Tukaiev SV, Zima IG, Kryzhanovskiy SA, Makarchouk MYu*

PI-D-103

Aging-dependent changes in the ratio between taste receptor cells in ~20-month-old mice*Higure Y, Dhtubo Y, Yoshii K*

PI-D-104

Postnatal development of taste receptor cells in mouse soft palate taste buds.*Dhtubo Y, Hashiguchi Y, Yamasaki T, Yoshii K*

PI-D-105

Action potential shapes for a change in TEA-insensitive current ratio in mouse taste bud cell model*Tateno K, Dhtubo Y, Kimura K, Takeuchi K, Kumazawa T, Yoshii K*

PI-D-106

Aging effects on electrophysiological properties of taste receptor cells in ~20-month-old mice*Takeuchi K, Dhtubo Y, Yoshii K***E – Homeostatic and neuroendocrine systems**

PI-E-107

Physiology of [Ca²⁺]_i oscillations in isolated supraoptic nucleus vasopressin and oxytocin neurones*Srinivasan C, Kortus S, Forostyak O, Ueta Y, Sykova E, Zapotocky M, Verkhratsky A, Dayanithi G*

PI-E-108

The Mechanism of Cardiac Abnormalities in Subarachnoid Hemorrhage*Munakata M, Arai T, Sukegawa H, Tabei R, Kanazawa H, Kimura K, Fukuda K*

PI-E-109

Systemic injection of neurotensin compared to [Ile 9]PK20, a novel antinociceptive hybrid peptide*Kaczyńska K, Szereda-Przestaszewska M, Kleczkowska P, Lipkowski AW*

PI-E-110

Modulation of diabetes-induced mitochondrial dysfunction by Omega-3 fatty acids*Chomova M, Muchova J, Durackova Z*

PI-E-111

Stress-induces activation of the SAS and HPA axis in rats expressing human truncated tau protein*Lejavova K, Ondicova K, Lackovicova L, Novak P, Filipcik P, Mravec B, Novak M, Kvetnansky R*

PI-E-112

Comparison of the chronic stress-induced neuroinflammation in the neocortex and hippocampus*Tishkina A, Piskunov A*

PI-E-113

Stress-restress induces gender-dependent changes in CRH and AVP expression in the rat hypothalamus*Mironova V, Rakitskaya V, Pivina S, Ordyan N*

PI-E-114

Age-related changes in glucocorticoid receptor and 11 β -hydroxysteroid dehydrogenase type 1 in the rat cortex and hippocampus*Tesic V, Perovic M, Mladenovic Djordjevic A, Smiljanic K, Loncarevic-Vasiljkovic N, Ruzdijic S, Kanazir S*

PI-E-115

Evaluation of the role of perivascular macrophages in the IL-1 β -induced neuroendocrine response.*Matsuwaki T, Eskilsson A, Kugelberg U, Blomqvist A*

PI-E-116

Effects of dexamethasone and hypoxia on apoptosis in the cerebellum and behavior in neonatal rats*Bulygina V, Kalinina T, Lanshakov D, Menshanov P, Dygalo N*

PI-E-117

Up-regulation of TH gene expression by glucocorticoids depends on ratio of Jun to Fos mRNA levels*Kalinina TS, Sukhareva EV, Bulygina VV, Shishkina GT, Dygalo NN*

POSTER SESSION II

Friday, 13 September 2013 from 12:30-14:45.

Posters with the following topics will be presented:**A Development**

- A.4 Axon and dendrite development
- A.6 Developmental cell death
- A.7.a Motor systems
- A.7.b Sensory systems
- A.7.c Neocortex
- A.7.d Limbic system
- A.9.b Regeneration
- A.3.a Stem cells: basic biology and postnatal neurogenesis

C Disorders of the nervous system

- C.13 Neurotoxicity, inflammation, and neuroprotection
- C.16 Mental disorders
- C.16.a Schizophrenia
- C.16.b Affective disorders
- C.16.c Anxiety disorders
- C.16.d Autism, mental retardation, and related disorders
- C.16.e Addiction and drugs of abuse
- C.16.f Other
- C.2 Parkinsons disease

D Sensory and motor systems

- D.2 Auditory
- D.3 Vestibular

E Homeostatic and neuroendocrine systems

- E.6.e Stress modulated pathways
- E.7 Regulation of food intake and body weight
- E.8 Biological rhythms and sleep
- E.8.a Clocks
- E.9 Brain blood flow, metabolism, and homeostasis

F Cognition and behaviour

- F.1.c Language
- F.1.d Emotion
- F.1.g Cognitive development and aging
- F.1.h Social cognition
- F.2 Animal cognition and behaviour

List of Posters**A - Development****PII-A-001**

Role of Glutaredoxin 2 in axonal outgrowth and regeneration
Bräutigam L, Schütte LD, Bosch B, Prozorovski T, Hartung HP, Aktas D, Holmgren A, Lillig CH, Berndt C

PII-A-002

SPAR3 a novel protein of Post synaptic density plays a crucial role in lens development
Kanwal N, Bockmann J, Dolnik A, kühl M, Kühl SJ, Boeckers TM

PII-A-003

Cerebellar Circuit of the Mature Rat Following Ethanol-Induced Cell Death in Early Neonatal Life
Napper R

PII-A-004

The effects of aquatic motor activities on motor and language development during early childhood
Nissim M, Ram Tzur R, Mevarech Z, Zion M

PII-A-005

PAC1 expressing structures alter PAC1 isoform splicing during postnatal development in rat retina
Denes V, Czotter N, Lakk M, Berta G, Gabriel R

PII-A-006

Intravitreal injection of PACAP1-38 exerts dramatic developmental effects on the newborn rat retina
Lakk M, Gabriel R, Denes V

PII-A-007

Developmental expression of synaptopodin in the mouse visual system
Schlueter A, Schultz C, Engelhardt M

PII-A-008

Multiple Consequences of Blocking PAC1 Receptors In The Newborn Mammalian Retina
Szabó B, Lakk M, Gábrriel R, Berta G, Dénes V

PII-A-009

Comparative Interneuron Pathology in Neocortex of Human Lissencephalies
Itah M

PII-A-010

The timing of neuronal differentiation in human fetal temporal cortex

Tkachenko L, Shalina E, Smolina T, Krasnoschekova E

PII-A-011

Pubertal modulation of emotion regulation and fear circuitry function in healthy youths

Chauret M, La Buissonniere - Ariza V, Saint-Amour D, Pine D, Maheu F

PII-A-012

3D Nanofibres Scaffold mimics neural progenitor niches.

Alvarez Pinto Z, Castaño D, Planell JA, Engel E, Alcántara A

PII-A-013

Dopamine D3 receptors influence brain recovery and song parameters after excitotoxic lesion

Lukáčová K, Bosíkova E, Niederová L

PII-A-014

Striatal vocal Area X recovery leads to changes in song behavior in adult male zebra finches

Bosíkova E, Lukacova L, Scharff C, Jarvis E, Niederova L

PII-A-015

Characterization of ProSAPs/Shanks in early hippocampal neurons

Halbedl S, Boeckers T, Schmeisser M

PII-A-016

Kainic Acid Induces Alterations in Dendritic Spine Number and Motility in Hippocampal Neurons

Lortkipanidze T, Bikashvili T, Gelazonia L, Japaridze N, Kiladze M, Zhvania M

PII-A-017

Enhanced canonical Notch signaling pathway by a novel CBF-1-binding protein in neural stem cells

Yoon K, Byun S, Han D

PII-A-018

Specific reaction of the SEZ neurogenic niche to the chronic neurodegenerative process in Huntington's disease patients

Mazurova Y, Hornychova J

C - Disorders of the nervous system

PII-C-019

The Neuroprotective Effects of Lithium on Paraquat toxicity in SH-SY5Y cell line

Alural B, Ozerdem A, Genc S, Genc K

PII-C-020

Cardiotonic steroids in subnanomolar doses rescue neurons in excitotoxic stress

Sibarov DA, Abushik PA, Bolshakov AE, Krivoi II, Antonov SM

PII-C-021

Fatigue and Amygdala Atrophy Induced by Systemic Inflammatory Disorder

Schmidt S, Böhme M, Herrmann KH, Reichenbach JR, Claus RA, Gaser C, Witte DW

PII-C-022

Developmental exposure to lead and late life neurotoxicity in rats

Davuljigari CB, Motuku UR, Gottipolu RR

PII-C-023

Sulforaphane protects murine microglia from LPS-induced apoptosis and inflammatory response

Eren E, Tufekci K U, Genc S, Genc K

PII-C-024

Bergamot juice protects neuroblastoma cells against 6-OHDA-induced injury

Ferlazzo N, Cirmi S, Lombardo G, Calapai G, Navarra M

PII-C-025

Erythropoietin downregulates miR-451 and miR-885-5p in SH-SY5Y cell line

Alural B, Onkal Z, Tunali D, Genc K, Genc S

PII-C-026

A cytomegalovirus mouse model to study the crosstalk of immune and nervous system

Christaller W, Podlech J, Reddehase M J, Zipp F, Zipp F, Schaefer M K, Schaefer M K

PII-C-027

Exploring The Effect Of Melatonin On Peripheral Neuropathy In Experimental Diabetic Rats By EDA*Kara AY, Acer H, Tasan S, Ulger Erdem Z, Dolu N*

PII-C-028

Visual evoked potential changes and lipid peroxidation level in streptozotocin-induced diabetic rats*Kencebay Manas C, Basaranlar G, Ozturk N, Derin N, Donmez B O, Ozdemir S, Oguz N*

PII-C-029

Na,K-ATPase isoforms in ouabain signaling cascade against LPS induced NF- κ B activation in glial cell*Kinoshita P, Yshii LM, M Drellana AM, de Sá Lima L, Kawamoto EM, Scavone C*

PII-C-030

Neurodegeneration and microglial activation in the excitotoxic model for neurodegenerative disorders*Kubesova A, Rambousek L, Kleteckova L, Vales K*

PII-C-031

Diffusion tensor imaging correlates of memory performance in children exposed to manganese*Dion L-A, Lao Y, Lepore N, Yepes F, Gilbert G, Bouchard M, Saint-Amour D*

PII-C-032

FGF21 affects NAD⁺ levels and activates PGC-1 α in dopaminergic neurons*Mäkelä J, Tselykh T, Lindholm D*

PII-C-033

Dopamine receptors and RGS proteins in brain neurogenic areas following perinatal asphyxia*Morales P, Rivera BH, Gutiérrez-Hernández MA, Rojas-Mancilla E, Kraus C, Esmar D, Neira-Peña T, Pérez R, Bustamante D, Gebicke-Haerter P, herrera-Marschitz M*

PII-C-034

Influence of homocysteine on cultured human glial cells*Murín R, Škovierová H, Blahovcová E, Mahmood S, Lehotský J*

PII-C-035

Bergamot juice extract attenuates β -amyloid-induced inflammation in a model of activated microglia*Risitano R, Currò M, Cirmi S, Ferlazzo N, Ientile R, Navarra M*

PII-C-036

Nicotinamide decreases PARP-1 activity, inflammation and cell death caused by perinatal asphyxia*Neira-Peña T, Rojas-Mancilla E, Muñoz V, Gutierrez-Hernández M, Bustamante D, Gebicke-Haerter P, Morales P, Hermoso MA, Herrera-Marschitz M*

PII-C-037

Perinatal asphyxia activates HIF pathway leading to inflammation and synaptic impairment*Rojas-Mancilla E, Neira-Peña T, Bustamante D, Leyton L, Morales P, Herrera-Marschitz M*

PII-C-038

Methamphetamine-induced blood-brain barrier dysfunction: role of TNF- α *Silva AP, Coelho-Santos V, Leitão R, Fontes-Ribeiro C*

PII-C-039

Potential anti-inflammatory effect of tianeptine on lipopolisaccharide (LPS)- stimulated microglia.*Slusarczyk J, Basta-Kaim A, Szczesny E, Kurek A, Leskiewicz M, Popiolek-Barczyk K, Mika J*

PII-C-040

Neurotoxicity of silver nanoparticles after acute and chronic exposure - in vitro vs in vivo mod*Struzynska L, Widynska J, Zieminska E, Dabrowska-Bouta B, Frontczak-Baniewicz M*

PII-C-041

Impact of prenatal stress on cytokine production and cell viability in primary cortical microglia.*Szczesny E, Slusarczyk J, Kurek A, Leskiewicz M, Glombik K, Popiolek-Barczyk K, Mika J, Basta-Kaim A*

PII-C-042

Dexamethasone and phytochemicals suppress Lipopolysaccharide induced miR-155 expression in microglia*Tufekci KU, Eren E, Genc S, Genc K*

PII-C-043**Prolactin reduces the effect of excitotoxicity in primary cultures of rat hippocampal neurons***Vergara-Castañeda E, Mendoza-Rodríguez CA, Morales T, Pérez-Domínguez M, Cerbón M, Zepeda Rivera A***PII-C-044****Molecular mechanisms underlying modulatory effects of quercetin in LPS activated rat cortical astrocytes***Arpita D, Jaldeep L, Prakash P***PII-C-045****Monitoring the cytogenetic damage in Down's syndrome patients related to maternal factor***Balasubramanian B, Vellingiri B, Subramaniam M, Keshavarao S***PII-C-046****Involvement of the C1473G polymorphism in TPH2 gene in ethanol-related behavior***Bazovkina D, Kulikov A***PII-C-047****Exploratory gene polymorphic alterations in major depressive disorder***Lehotsky J, Evinova A, Ondrejka I, Babušikova E, Jurečekova J***PII-C-048****Neuroactive steroids, steroid metabolome and neuropsychiatric disorders***Ripova D, Hill M, Bicikova M, Duskova M, Mohr P***PII-C-049****The investigation of predisposition to psychosis in a rat model of non-alcoholic fatty liver disease***Erbas D, Kismali E, Aktug H, Taskiran D***PII-C-050****Long-term consequences of early postnatal bacterial or Toxoplasma infection: animal model***Tejkalová H, Kodym P, Krsek D, Kačer P, Syslová K, Klaschka J, Horáček J***PII-C-051****Mitochondrial dysfunction in mouse brain causes depression-like behavior and HPA axis dysregulation***Kato T, Kubota-Sakashita M, Takaoki K, Kato T***PII-C-052****Mood stabilizer regulates neurogenesis in rat hippocampal neurons***Kim HJ***PII-C-053****Molecular circadian clocks in patients with bipolar disorder***Novakova M, Prasko J, Latalova K, Sumova A***PII-C-054****Effects of different doses carnosine on the sympathetic skin response and anxiety***Acer H, Kara A, Kavraal Ş, Taşan S, Aydoğan S, Dolu N***PII-C-055****Neurospine provide a protecting effect and impaired PTSD-like behavior***Chang S, Huang GJ***PII-C-056****Neonatal stress, MTHFR deficiency and what they have to do with psychopathology***Kezurer N, Galron D, Golan H***PII-C-057****Calcium-dependent mechanisms of the nonsomatic signs of nicotine and amphetamine withdrawal in mice***Biala G, Polak P, Michalak A, Kruk-Slomka M, Budzyska B***PII-C-058****Sex-specific effect of prenatal and adult methamphetamine exposure on rat behavior tested in Laboras***Hřebíčková J, Macúchová E, Nohejlová-Deykun K, Šlamberová R***PII-C-059****Ghrelin in the nucleus accumbens core enhances locomotor activity induced by amphetamine***Lee JW, Jang JK, Cho BR, Kim JH***PII-C-060****ERM proteins signaling in the nucleus accumbens core regulates cocaine-induced locomotor activity***Cho BR, Kim WY, Lee JW, Kim JH*

PII-C-061

Differential regulation of cocaine-induced locomotor activity by leptin in the nucleus accumbens

Kwak M, Kim WY, Lee JW, Kim JH

PII-C-062

Effect of prenatal and adult methamphetamine exposure on cognitive functions of female rats

Macuchova E, Nohejlova-Deykun K, Slamberova R

PII-C-063

Does maternal behavior and pup development depend on the time of prenatal methamphetamine exposure?

Malinova M, Hrebickova I, Macuchova E, Ferdova M, Nova E, Pometlova M, Slamberova R

PII-C-064

Effect of prenatal and adult methamphetamine exposure on epileptiform activity in female rats

Slamberova R, Matejovska I, Bernaskova K, Rokyta R

PII-C-065

Sex, drugs and dopamine transporters

Šírová J, Křištofiková Z, Vrajová M, Šlamberová R

PII-C-066

Suppression of a classic and an alternative pathway of serotonin synthesis in rat brain

Kot M, Bromek E, Haduch A, Daniel WA

PII-C-067

Learning and memory in Nogo-A-deficient transgenic rats

Petrásek T, Vojtechova I, Schonig K, Tews B, Schwab ME, Bartsch D, Stuchlik A

PII-C-068

Underestimated symptom? At least one quarter of narcoleptics suffer from nightmares

Piško J, Pastorek L, Šonka K, Buškova J, Nevšimalova S

PII-C-069

PrP prevents heavy metals overload and protects cultured cells against heavy metals toxicity

Prčina M, Kontseková E, Novák M

PII-C-070

Behavioral characterization of Nogo-A knockdown rats with LE/SD F1 genetic background

Vojtechova J, Petrásek T, Sichořová K, Bahník S, Schonig K, Tews B, Schwab ME, Bartsch D, Stuchlik A

PII-C-071

Changes in Ca²⁺-activated K⁺ channels expression in the basal ganglia in a rat model of Parkinson

Amalric M, Camon J, Deltheil T, Manrique C, Guiraudie-Capraz G, Turle-Lorenzo N, Chen L, Mourre C

PII-C-072

N-substituted aminoalkanones as potential drug for treatment neurodegenerative diseases.

Masalov IS, Borovítov ME, Galenko AV, Barygin DI, Veselkina OS

PII-C-073

Parkin Cooperates with GDNF/Ret Signaling in Preventing Neurodegeneration

Meka DP, Ponna SK, Annamneedi A, Finckh B, Winklhofer KF, Kramer ER

PII-C-074

Non mitochondrial effects of MPP⁺ on SNc dopaminergic neurons

Narducci R, Masi A, Landucci E, Morani F, Mannaioni G

PII-C-075

Patient specific dopaminergic neurons from iPSCs as a human in vitro model of PD

Raab S, Klingenstein M, Linta L, Stockmann M, Liebau S

PII-C-076

Cannabinoid receptor CB1 agonist and antagonist treatments in a rat model of Parkinson's disease

Torrão A, Chaves-Kirsten G

D - Sensory and motor systems

PII-D-077

C-terminal modulation of Ca_v1.3 L-type calcium channel in cochlear inner hair cells

Scharinger A, Kuhn S, Schönig K, Sah A, Singewald N, Lee A, Gebhart M, Bartsch D, Koschak A, Sinnegger-Brauns MJ, Engel J, Striessnig J

PII-D-078

Hearing loss with prestin and VAPA deficits in outer hair cells of R6/2 HD mice
Wu CH, Wang SE

PII-D-079

Mechanisms of neuronal processing of interaural disparities in the lateral superior olive
Bures Z, Marsalek P

PII-D-080

Auditory adaptation to radial motion of sound source: the effects of the spectral region
Andreeva IG

PII-D-081

Duration of the auditory aftereffect caused by approaching sound source
Gvozdeva A

PII-D-082

Inhibitor in the inferior colliculus is preserved after acoustic trauma in BDNFPax2 knock-out mice
Chumak T, Popelar J, Zuccotti A, Varakina K, Campanelli D, Lee SC, Rüttiger L, Schimmang T, Knipper M, Syka J

PII-D-083

The long-term effects of early noise exposure on dendritic morphology in the rat auditory pathway
Burianová J, Balogová Z, Ouda L, Lu HP, Syka J

PII-D-084

Evoked responses elicited by acoustic and MGB electrical stimulation in the cat
Horvath D, Fiath R, Wittner L, Ulbert I, Karmos G

PII-D-085

Differences in c-Fos expression in the rat auditory and limbic systems following 22-kHz vocalization
Ouda L, Syka J

PII-D-086

Differential effects of salicylate on evoked responses to high frequency tones and click
Chiu TW, Chang YJ, Wan IL, Su YT, Hu CH, Poon PWF

PII-D-087**Effects of the auditory cortex inactivation on distortion product otoacoustic emissions in rats**

Lindovský J, Popelář J, Jílek M, Syka J

PII-D-088

Functional and morphometric changes of the auditory cortex in the elderly population examined by MRI
Profant D, Škoch A, Balogová Z, Tintěra J, Ibrahim I, Jílek M, Syka J

PII-D-089

Sound exposure in young rats enlarged neurons in the auditory descending system
Lu H, Syka J, Poon P

PII-G-090

Two-Photon Processor and SeNeCA – data from TPLSM processed at speeds down to several ms per frame
Novák D, Tomek J, Syka J

PII-D-091

Effects of loud noise exposure on sound processing in the mouse primary auditory cortex
Zelenka D, Novák D, Šuta D, Popelář J, Syka J

PII-D-092

Time-course of NMDA receptors modulation of hippocampus after vestibular lesion in rodent
Benoit A, Guillamin M, Philoxene B, Boumediene K, Bouyoucef M, Cauvard D, Denise P, Besnard S

PII-D-093

Using gap prepulse inhibition of acoustic startle reflex to assess tinnitus and hyperacusis in rats
Rybalko N, Popelář J, Syka J

PII-D-094

Comparison of EEG patterns during listening to music with different emotional content.
Gozdziewicz D, Jurkowlaniec E

E – Homeostatic and neuroendocrine systems**PII-E-095**

Role of the CRHR1 on the effects of stress in the prefrontal cortex
Uribe A, Solfrank B, Wagner K, Hartmann J, Labermaier C, Harbich D, Müller M, Schmidt M

PII-E-096

Hypothalamic expression of orexigenic and anorexigenic neuropeptides in Tfm rats*Collado P, Díez B, Carrillo B, Pinos H, Hernández-Nuño F, Argente P, Chowen JA*

PII-E-111

Astrocytic infiltration & altered levels of NTFs: Role in decreased longevity of WNIN obese rats*Sinha JK, Ghosh S, Raghunath M*

PII-E-098

EEG microstructure differentiates the functionally distinct cholinergic innervation disorders in rat*Petrovic J, Lazic K, Ciric J, Kalauzi A, Saponjic J*

PII-E-099

Expression of the AMPA receptor subunits in the rat suprachiasmatic nucleus*Červená K, Bendová Z*

PII-E-100

Two-photon microscopy study of nitroglycerin effects on meningeal and cortical microvessels in rats*Pryazhnikov E, Kislin M, Tibeykina M, Toptunov D, Shatillo A, Gröhn O, Giniatullin R, Khirouq L*

PII-E-101

Effect of acute and chronic paracetamol treatment on cerebral microvessels in CSD-induced rats*Yisarakun W, Supornsilpchai W, Chantong C, Srikiatkachorn A, Maneesri-le Grand S*

PII-E-102

Impairment of maternal behaviour by lack of CIN85*Shimokawa N, Ikezawa J, Masuda S, Koibuchi N*

PII-E-117

Reactivity modulation of the hypothalamus neurons as a result of recurring osmotic stimulation*Natrus L, Vyslyy A*

PII-E-104

Effects of brain monoamine levels on daily spontaneous exercise volume in rats*Yanagita S, Kubota N, Ochiai H, Takano Y, Takeda K***F - Cognition and behaviour**

PII-F-105

Regional differences in dendritic morphology of striatal medium spiny neurons in Foxp2 mice*Bicanic I, Bornschein U, Enard W, Hevers W, Paabo S, Petanjek Z*

PII-F-106

Minimal linguistic hierarchies reveal functional segregation within the left inferior frontal cortex*Zaccarella E, Zaccarella E, Friederici AD, Friederici AD*

PII-F-107

Behavioral and brain responses to the maternal smile in premature and full-term infants*Delgado-Herrera M, Santiago-Rodríguez E, Harmony T*

PII-F-108

Limbic Npy1r affects perineuronal net structure in the limbic system*Mele P, Bertocchi I, Longo A, Berbotta S, Rossi F, Carulli D, Eva C*

PII-F-109

Serotonin Pathway in Exercise Induced Antidepressant Like Effect*Peng L, Huang GJ*

PII-F-110

Characterizing age-associated decline of episodic-like memory components in the rodent*Belblidia H, Leger M, Jozet-Alves C, Quedeville A, Calocer F, Boulevard M, Abdelmalek A, Freret T, Schumann-Bard P*

PII-F-111

Audience effects on relational reasoning performance in adolescence*Wolf L K, Dumontheil I, Blakemore S J*

PII-F-112

Environmental enrichment prevented cognitive impairment in infant rats with pneumococcal meningitis*Barichello T, Dagostin VS, Generoso JS, Vilela MC, Comim CM, Elias SG, Simões LR, Quevedo J, Teixeira AL*

PII-F-113

Risk factors of Canine cognitive dysfunction*Farbáková J, Kandrác D, Szárková A, Baranová D, Ledecký V, Kozák M, Mađari A*

PII-F-114

MK-801 impairs coordination of information from dissociated spatial frames on rotating arena

Buchtová H, Valeš K, Stuchlík A, Kubík Š

PII-F-115

Activation of amygdala neurons is involved in yawning responses induced by emotional stress in rats

Kubota N, Amemiya S, Yanagita S, Kita I

PII-F-116

Blockade of histamine H3R reveals heterogeneity of histaminergic neurons: a multidisciplinary study

Provensi G, Munari L, Passani MB, Blandina P

PII-F-117

Attenuation of cognitive impairment by daptomycin in rats submitted to pneumococcal meningitis

Quevedo J, Gonçalves JCN, Generoso JS, Milioli GL, Silvestre C, Costa CS, Coelho JR, Moreira AP, Comim C, Barichello T

PII-F-119

Brain oscillatory dynamics accompanying social interplay

Slobodskoy-Plusnin J, Knyazev G.

POSTER SESSION III

Saturday, 14 September 2013 from 12:30-14:45.

Posters with the following topics will be presented:

B Excitability, synaptic transmission, network functions

- B.3 Ion channels
- B.3.b Calcium channels
- B.3.c Potassium channels
- B.5 Neurotransmitter release
- B.7 Synaptic plasticity
- B.7.a Short-term plasticity
- B.7.b LTP: physiology and behaviour
- B.7.d LTP: postsynaptic mechanisms
- B.7.g Spike-timing dependent plasticity
- B.7.i Structural plasticity
- B.7.j Other
- B.8 Network interactions
- B.8.a Signal propagation
- B.8.b Oscillations and synchrony

C Disorders of the nervous system

- C.2.b Cellular dysfunction mechanisms
- C.2.c Human studies and therapies
- C.2.d Animal models
- C.3 Repeat expansion diseases
- C.3.a Huntington's disease
- C.3.b Others
- C.5 Motor neuron diseases
- C.6 Neuromuscular diseases
- C.7 Developmental disorders
- C.8 Epilepsy
- C.8.a Cellular and circuit mechanisms
- C.8.b Animal models
- C.8.c Human studies
- C.9 Ischemia
- C.9.a Cellular and molecular mechanisms
- C.9.b Inflammation, neuroprotection and tolerance
- C.9.c Animal and human studies

D Sensory and motor systems

- D.7 Pain
- D.7.a Peripheral receptors
- D.7.d Neuropathic pain
- D.8 Tactile/somatosensory
- D.9.c Afferent and central control
- D.9.d Kinematics and EMG

F Cognition and behaviour

- F.2.a Attention
- F.2.b Cognitive learning and memory systems
- F.2.d Fear and aversive learning and memory
- F.2.f Memory modulation, consolidation, and reconsolidation
- F.2.h Learning and memory: pharmacology
- F.1.a Learning and long-term memory
- F.1.e Working memory

G Novel Methods and Technology Development

- G.4.c Electrophysiology
- G.2 Genomics and proteomics
- G.6 Computation, modelling, data analysis and software
- G.1 Molecular and genetic techniques

List of Posters**B – Excitability, synaptic transmission, network functions****PIII-B-001****New chemical classes of ASIC3 potentiators**

Nagaeva EI, Tikhonova TB, Potap'eva NN, Dorofeeva NA, Bolshakov KV, Tikhonov DB

PIII-B-002**Tetraspanin-13 modulates activity of CaV2.2 channels.**

Lichvárová L, Mallmann R, Wilmes T, Castonguay J, Klugbauer N, Lacinova L

PIII-B-003**Compartmentalization of voltage-gated Ca²⁺ channels in the membrane of rat anterior pituitary cells**

Sosial E, Tzour A, Meir T, Canello T, Naveh-many T, Gabizon R, Nussinovitch I

PIII-B-004**Localization of VGCC $\alpha 2\delta$ subunits in CNS neurons and characterization of $\alpha 2\delta$ -1/-3 knockout mice**

Schoepf CL, Geisler S, Campiglio M, Sultana N, Schwarzer C, Stanika RI, Flucher BE, Obermair GJ

PIII-B-005**A Novel CaMKII interaction in the N-terminus of Cav1.2 Regulates Channel Expression**

Simms BA, Assis-Souza I, Black SA, Zamponi GW

PIII-B-006**Distribution of voltage-gated potassium channels in the snail central nervous system**

Battonyai I, Krajcs N, Kiss T, Elekes K

PIII-B-007**Modulation of excitatory synaptic transmission by the somatodendritic release of glycine in MNTB**

Kralikova M, Turecek R

PIII-B-008**The Long Term Potentiation in amygdalar BLA-CeM pathway from of MMP-9 overexpressed overexpressing**

Górkiewicz T, Wawrzyniak M, Kaczmarek L, Knapska E

PIII-B-009**Synaptic fluctuations in cerebellar interneurons connected by a single release site**

Pulido C, Trigo F, Marty A

PIII-B-010**Hebbian mGluR1-mediated long-term potentiation in somatostatin-expressing hippocampal interneurons**

Vasuta OC, Laplante I, Elayoubi K, Lacaille JC

PIII-B-011**Scopolamine injection modulates evoked potentials at synapses of Schaffer Collaterals on CA1 neurons**

Dobryakova Y, Gurskaya O, Markevich V

PIII-B-012**Wnt signaling involvement in synaptic plasticity of hippocampus**

Gurskaya O, Dobryakova Y, Salodzhin S, Markevich V

PIII-B-013**Translational control of PKM ζ in cultured hippocampal neurons**

Kolasov P, Bolshakov A, Salozhin S

PIII-B-014**Computational modeling of acetylcholine influence on STDP in hippocampal CA1 pyramidal neuron**

Dainauskas JJ, Cutsuridis V, Saudargiene A

PIII-B-015**Perineuronal net modifications and plasticity in mouse vestibular nuclei after labyrinthectomy**

Faralli A, Dagna F, Albera R, Rossi F, Carulli D

PIII-B-016

Effect of associative learning on formation of dendritic spine apparatus in mouse barrel cortex

Jasinska M, Siucinska E, Jasek E, Litwin JA, Pyza E, Kossut M

PIII-B-017

Effect of chronic FLX treatment on markers of neuronal plasticity

Popova D, Karpova N, Castren E

PIII-B-018

De-repression of immunoproteasome subunit LMP7 in neuronal cells

Prozorovski T, Schröter F, Klose J, Hartung H-P, Sergeeva D, Kloetzel P-M, Aktas D

PIII-B-019

Correlations between brain size and network properties of the cortex

Gamanut AR, Knoblauch K, Burkhalter A, Kennedy H

PIII-B-020

Dendritic Filtering of Presynaptic Cell Assemblies

Kobayashi C, Matsuki N, Ikegaya C

PIII-B-021

The Role of APP and APLP2 for the Hippocampal Excitation/Inhibition Balance in Mice in vitro

Hefter D, Draguhn A

PIII-B-022

Neuronal characterization of the SLC38 family of amino acid transporters

Bagchi S

PIII-B-023

Genetic determinants of arousability from anesthesia

Gelegen van Eijl C, Gent TC, Ferretti V, Zhang Z, Yustos R, Lan F, Yang Q, Overington DW, Vyssotsky AL, Wisden W, Franks NP

PIII-B-024

Increased learned and innate fear response in mice lacking the IP3KA

Lee HW, Han S, Kim I, Kim H, Kim C-H, Park K, Choi S, Choi J, Rhyu JJ, Shin KS

PIII-B-025

The anti- nociceptive and orexigenic activities of the aqueous extract of Pistacia lentiscus leaves

Duld Mohameden MY

C - Disorders of the nervous system**PIII-C-026**

The role of AMPK in neurotoxic effect of intracellular and extracellular α -synuclein in vitro

Dulovic M, Markovic I, Jovanovic M, Harhaji-Trajkovic Lj, Kravic-Stevovic T, Stefanis L, Xilouri M, Kostic V, Trajkovic V

PIII-C-027

Autophagy protein Beclin1 interacts with Parkin

Liiv J, Choubey V, Kaasik A

PIII-C-028

New approach to diagnosis and correction of the children with mental disorders

Safonicheva D, Safonicheva M

PIII-C-029

Persistent beneficial effects of DBS in behavioral tests with freely moving hemiparkinsonian rats

Badstübner K, Weber I, Nowak A, Gimsa U, Kröger T, Benecke R, Gimsa J, Mix E

PIII-C-030

Effect of dopamine D2 receptor sensitization on behavioral flexibility

Hatalová H, Stuchlík A, Valeš K

PIII-C-031

Hereditary catalepsy in mice is associated with the brain dysmorphology

Kulikova E, Tikhonova M, Kulikov A

PIII-C-032

Reduced hippocampal MEMRI signal in acute phase of pilocarpine model of epilepsy: edema or apoptosis?

Malheiros J, Tannús A, Covolán L

PIII-C-033

The senescence-accelerated OXYS rats as a model of Alzheimer's disease

Stefanova N, Muraleva N, Kolosova N

PIII-C-034**Role of high mobility group box 1 (HMGB1) in SCA17 pathogenesis***Lee-Chen G, Lee L, Wang P, Su M, Chang C***PIII-C-035****Identification of novel selective VMAT2 inhibitors***Downey P, Van der Perren C, Burton M, Gillard M, Quesnel Y, Lebon F***PIII-C-036****Impaired store-operated calcium entry in neuronal model of Huntington's disease***Vigant V, Zimina D, Glushankova L, Kaznacheyeva E***PIII-C-037****Cardiovascular autonomic function in healthy offsprings with parental history of diabetes mellites***Goit R***PIII-C-038****The therapeutic effect of human bone marrow mesenchymal stem cell delivery into symptomatic ALS rats***Forostyak S, Homola A, Jendelova P, Turnovcova K, Svitil P, Sykova E***PIII-C-039****Altered localization, abnormal modification and loss of function of Sigma receptor-1 in ALS***Goswami A***PIII-C-040****Impairment of cellular protein quality control induced by ALS-8 disease -associated mutation of VAPB***Jesse CM, Goswami A, Katona I, Roos A, Schnizler M, Bushuven E, Dreier A, Buchkremer S, Johann S, Bayer C, Deschauer M, Troost D, Weis J***PIII-C-041****Oxidative stress parameters in the G93A transgenic rat model of ALS***Stamenkovic S, Selakovic V, Radenovic L, Andjus P***PIII-C-042****Mutant Sigma receptor 1 (mSigR1) are abnormally modified and contributes to the pathogenesis of ALS***Vollrath JT, Goswami A, Katona I, Jesse CM, Dresser A, Chandrasekar A, Dreier A, Beyer C, Troost D, Weis J***PIII-C-043****Childhood onset familial nemaline rod myopathy: A report of two sibilings***Sharma G, Sood S***PIII-C-044****Investigating rare neurodegenerative diseases with patient specific induced pluripotent stem cells***Klingenstein M, Raab S, Pfänder S, Linta L, Liebau S***PIII-C-045****Deep brain stimulation of two targets responsible for EEG desynchronization in WAG/Rij rats***Blik VA, Lüttjohann AK, Berdiev RK, Chepurnova NE, van Luijtelaaar G***PIII-C-046****BDNF translationally regulates CACNA2D2 Calcium Channel: A target for treatment in absence epilepsy?***Castells Santamaria A, Balada Caballé R, Alcántara S***PIII-C-047****Scopolamine-induced convulsions in fasted mice after food intake: effect of individual housing***Enginar N, Nurten A, Zengin Türkmen A***PIII-C-048****Up-regulation of S100A6 following Status Epilepticus***Filipek A, Jurewicz E, Bednarczyk J, Bot A, Lukasiuk K***PIII-C-049****The dynamics of epileptiform discharges in neocortex and hippocampus during sleep waking cycle***Saralidze E, Ioseliani T, Khuchua L***PIII-C-050****DNA methylation regulates expression of pro-epileptic protease MMP-9 during epileptogenesis***Zybur-Broda K, Amborska R, Bucko J, Kaczmarek L, Rylski M***PIII-C-051****In vitro and cell studies of EPM1 mutants of human stefin B***Polajnar M, Kopitar-Jerala N, Turk V, Zerovnik E*

PIII-C-052**Drafting the Neuronal ceroid lipofuscinoses interactome in the brain***Scifo E, Szawajda A, Dębski J, Uusi-Rauva K, Kesti T, Dadlez M, Gingras A-C, Tyynelä J, Baumann M H, Jalanko A, Lalowski M***PIII-C-053****Retzius nerve cell input membrane resistance increase and bursting activity suppression by magnesium***Stanojević M, Lopičić S, Prostran M, Nedeljkov V***PIII-C-054****The protective effects of AN DBS against spontaneous recurrent seizures***Amorim B, Covolan L, Almeida AC, Cavarsan C, Nobrega J, Miranda M, Aarão M, Madureira AP, Mello LE, Rodriguez A, Hamani C***PIII-C-055****Therapeutic potential of trehalose in polyQ-mediated SCA17***Hsieh H, Chen Z, Hsu H, Tao Y, Lee C, Lee-Chen G***PIII-C-056****Long-lasting effects of postnatal transplantation of neural stem cells in chronic epileptic rats***Romariz S, Paiva DS, Valente MF, Calcagnotto ME, Barnabé GF, Bittencourt S, Mello LE, Longo BM***PIII-C-057****Virtual tests developed for healthy controls and schizophrenia patients based on animal research***Fajnerova J, Vlček K, Rodriguez M, Brom C, Levčík D, Mikoláš P, Konrádová L, Horáček J, Stuchlík A, Bureš J***PIII-C-058****Increase in Cardiovascular Risk Factors in Psychiatric Disorders***Yapislar H***PIII-C-059****Alpha-syntrophin-knockout affects astrocyte volume regulation in the cortex of GFAP/EGFP mice***Butenko D, Benesova J, Mikesova M, Honsa P, Dzamba D, Kriska J, Rusnakova V, Kubista M, Anderova M***PIII-C-060****Single cell gene expression profiling of GFAP-positive glia in the cortex: from development to injury***Dzamba D, Honsa P, Rusnakova V, Stahlberg A, Kubista M, Anderova M***PIII-C-061****Reactive astrocytes increase expression of HCN channels after brain ischemia***Honsa P, Pivonkova H, Rusnakova V, Harantova L, Dzamba D, Kubista M, Anderova M***PIII-C-062****Combined mobilizing agents with focused ultrasound enhance neurogenesis in ischemia***Lee YS, Huang GJ***PIII-C-063****Role of P2 purinergic receptors on dentate gyrus neurotransmission during ischemia in vitro***Maraula G, Gentile F, Coppi E, Mello T, Lana D, Galli A, Pedata F, Pugliese AM***PIII-C-064****Bradykinin affected proteomic profile of ischemic injured rat brain hippocampus***Nemethova M, Talian I, Tkacikova S, Danielisova V, Bonova P, Gottlieb M, Burda J***PIII-C-065****Actions of protease-activated receptors agonists in in vivo and in vitro models of stroke***Zhen X, Ng ESK, Lam FFY***PIII-C-066****Mitochondrial-shaping proteins are altered in NSC-34 and Neuro-2a cells bearing the fALS mutant G93A***Alaimo A, Gorajod RM, Uchitel DD, Kotler ML***PIII-C-067****Regulation of neural cell adhesion molecules by lncRNAs in neuronal maturation and ischemic injury***Kaur P, Sepramaniam S, Karolina DS, Armugam A, Jeyaseelan K*

PIII-C-068

Alzheimer's disease-like pathological features in animal model of induced hyperhomocysteinemia

Kovalska M, Filipcik P, Pavlikova M, Furjelova M, Adamkov M, Lehotsky J

PIII-C-069

Neuron-astrocyte-microglia interactions in a rat model of chronic cerebral ischemia

Lana D, Giovannini MG, Melani A, Pedata F

PIII-C-070

Effect of global brain ischemia and proteasomal stress on the level of proteins of Bcl-2 family

Pilchova I, Klacanova K, Stefanikova A, Klikova K, Dobrota D, Racay P

PIII-C-071

Different sensitivity of neural cells to inhibitors of anti-apoptotic proteins of Bcl-2 family.

Racay P, Svartberg S, Pilchová I, Klačanová K, Kovalská M, Dobrota D

PIII-C-072

Litter size, ageing, cognition and microglia: morphometrical analysis of septum and dentate gyrus

Viana L, Lima CM, Oliveira MA, Almeida INF, Diniz DG, Torres JB, Pereira A, Batista-de-Oliveira M, Lopes AAC, Silva RFM, Abadie-Guedes R, Santos AA, Lima DSC, Guedes RCA, Picanço-Diniz CW

PIII-C-073

Role of alpha-syntrophin on extracellular diffusion parameters during experimental cell swelling

Dmytrenko L, Cicanic M, Anderova M, Vorisek I, Sykova E, Vargova L

PIII-C-074

Role of endothelin receptors in seizures development in the model of focal ischemia in immature rats

Tsenov G, Otahal J, Vondrakova K, Kubova H

PIII-C-075

Repeated disulfiram exposure modifies thermal thresholds and orofacial inflammatory pain

Alexa T, Dondas A, Luca A, Spiridon I, Bohotin CR

PIII-C-076

Molecular Identification of Hsp90/70 an Alzheimer disease amyloid-associated protein

Bajic V, Milicevic Z, Spremo Potparevic B, Zivkovic L

PIII-C-077

Intranasal mesenchymal stem cell delivery: Orchestrating regeneration following hypoxia-ischemia

Donega V, Nijboer CH, van Tilborg G, van Velthoven C, van Bel F, Dijkhuizen RM, Kavelaars A, Heijnen CJ

PIII-C-078

Clinical and Genetic aspects of Moroccan patients with Alzheimer's Disease

El Kadmiri N, Elmoutawakil B, Slassi I, Nadifi S

PIII-C-079

RAGE blockade delays the onset and progression of Amyotrophic Lateral Sclerosis in SOD1 mice

Juraneck J, Geddis M, Rosario R, Kaplan B, Kelly L, Zou YS, Schmidt AM

PIII-C-080

Differential patterns of α -synuclein, TNF- α , and IL-1 β ; dopaminergic neurotoxicity by Paraquat

Mitra S

PIII-C-081

Identification of chromosomal alterations and Mecp2 mutations in RETT syndrome patients

Vellingiri B, Kathannan San, K Sasi

D - Sensory and motor systems**PIII-D-082**

Pain processing modulation by anesthesia mode: comparison of pentobarbital, ketamine and isoflurane

Butovas S, Boltersdorf A, Christoph T

PIII-D-083

The Effects of Single versus Repeated Administration of Disulfiram on Experimental Pain in Mice

Dondas A, Alexa T, Luca A, Chiriac I, Bohotin RC

PIII-D-084

Only some antidepressants diminished microglia activation in neuropathic pain

Makuch W, Rojewska E, Zychowska M, Popiolek-Barczyk K, Mika J, Przewlocka B

PIII-D-085

Down-regulation of proinflammatory cytokines enhances efficiency of some opioid receptor ligands

Popiolek-Barczyk K, Rojewska E, Makuch W, Zychowska M, Przewlocka B, Mika J

PIII-D-086

Pain modulation

Ambalayam S, Jain S, Mathur R

PIII-D-087

Sensory vasopressin and oxytocin unveiled in rats

Forostyak D, Forostyak S, Arboleda D, Strunin D, Ueta Y, Sykova E, Verkhatsky A, Dayanithi G

PIII-D-088

The contribution of leptin in spinal cord inflammation after multiple cervical root transection

Huang MC, Lin CT, Lin YL, Chang KT, Hsiao HY, Cheng H

PIII-D-089

Shoulder pain as the first sign of a brain tumor : case report

Imamovic Dz, Nakicevic A, Alajbegovic A, Suljic E

PIII-D-090

Angiotensin II increases the pain perception after the chronic constriction injury

Pavel J, Orszova Z, Hricova L, Lukacova N

PIII-D-091

Texture coarseness coding in the Secondary Somatosensory Cortex (SII) of the rat

Khateb M, Pachter I, Schiller Y, Schiller J

PIII-D-092

Task-positive (TPN) and task-negative (TNN) neural networks in human during motor task execution

Omelchenko D, Rozhkova Z

PIII-D-093

The Efficiency Of Melatonin Against Peripheral Neuropathy In Streptozotocin Induced Diabetic Rats

Tasan S, Ulger Erdem Z, Acer H, Kara Ay, Dolu N

PIII-D-094

Dose dependent effect of lidocaine on the nerve conduction rate of rat sciatic nerve

Ulger Erdem Z, Tasan S, Kara Ay, Acer H, Dolu N

PIII-D-095

Acetylcholine receptor mRNA metabolism at the neuromuscular junction

Delers P, Karmouch J, Belanger G, Jasmin B, Legay C

PIII-D-096

Function of adult hippocampal neurogenesis involved in emotional response

Tsai Cheng-Yu, Arnold S, Huang Guo-Jen

PIII-D-097

The potentiate effect of CGRP on TRPV1 activity in rat trigeminal neurons

Chatchaisak D, Connor M, Chetsawang B

F - Cognition and behaviour**PIII-F-098**

Unimodal and multimodal alternation in conditions of sensorimotor integration

Aydarkin E

PIII-F-099

Mineralocorticoid receptors as genetic resilience factor under chronic stress?

Kanatsou S, Harris AP, Seckl JR, Krugers H, Joëls R

PIII-F-100

Effects of cortical structures lesions, NMDAR's blockade and tDCS on spatial working memory in rats

Wesierska MJ, Duda W, Malinowska M, Dockery CA

PIII-F-101

Buspirone shifts coping strategy in new environmental context of anxious and non-anxious mice

Horváth J, Szögi T, Müller G, Szegedi V

PIII-F-102

Modulatory effect of 17- β estradiol on performance of ovariectomized rats on the shock-probe task

Jacob S, Gervais N, J, Barrett-Bernstein M, Brake W, G, Mumby D, G

PIII-F-103

Npas4 expression in the barrel cortex: effects in learning-induced plasticity.

Kaliszewska A, Kossut M

PIII-F-104

Calcineurin phosphatase as a negative regulator of fear memory: control on NF-kappaB signaling

de la Fuente V, Federman N, Fustiřiana M, Zalcmán G, Romano A

PIII-F-105

Effect of MK-801 on behavioral flexibility in an animal model of schizophrenia

Entlerova M, Svojanovska B, Lobellova V, Fajnerova I, Kubik S, Vales K, Stuchlik A

PIII-F-106

Corticosterone into the dorsal striatum impairs memory retrieval of an inhibitory avoidance task

Martínez P, Serafín N, Prado-Alcalá RA, Roozendaal B, Quirarte GL

PIII-F-107

Maladaptive responses to negative feedback in methamphetamine-treated rats

Stolyarova A, Rodriguez D, Izquierdo A

PIII-F-108

Effects of enhanced environmental on hippocampal electrophysiological changes in the epilepsy

Kelořlan S, Dolu N, Bitiktař S

PIII-F-109

Ovariectomy induced Neurodegeneration

Simonyan K

G - Novel Methods and Technology Development

PIII-G-110

Improve longterm performance of chronic intracortical implants by creating bioinspired microprobes

De Faveri S, Maggolini E, Benfenati F, Fadiga L

PIII-G-111

Effect of right and left rTMS in patients with major depressive disorder. Clinical and electrophysiological study

García-Anaya M, González J, Armas G, Ricardo J

PIII-G-112

Discovering interaction partners of fatty acid 2-hydroxylase

Hardt R, Giesemann V, Eckhardt M

PIII-G-113

Alpha-Theta Biofeedback in Subjects with Early Onset, Family History Positive Alcoholism

Holla B, Viswanath B, Benegal V, Murthy P, Girimaji SC, Mukundan CR, Paulomi N, Sharma M

PIII-G-114

Endoscopic removal of intracerebral haemorrhage

Kuzibayev J

PIII-G-115

Remyelinating and neuroprotective effects of glial cell transplants in the axotomise

Sandvig I, Hoang L, Olsen Ø, Berry M, Haraldseth O, Barnett SC, Sandvig A

PIII-G-116

Estimation of brain regions targeted by nanoparticle based on transcriptomics data

Umezawa M, Shimizu M, Tainaka H, Takeda K

PIII-G-117

Ectopic expression of mammalian melanopsin in Drosophila photoreceptors

Yasin B, Minke B

PIII-G-118

Development of new prognostic parameters in acute ischemic supratentorial stroke using quantitative electroencephalography

Kuznietsov AA

PIII-G-119

Two-Photon Processor and SeNeCA - data from TPLSM processed at speeds down to several ms per frame

Novák O, Tomek J, Syka J

INFORMATION FOR SPEAKERS

- The Speakers' Ready Room with technical equipment and staff to review media and download your presentation will be available, and a technician will be in every session room to provide assistance when needed.
- Please bring your presentation on a USB memory stick or CD in MS PowerPoint or Adobe PDF format and submit it in the SPEAKERS READY ROOM at the Meeting venue at least 120 minutes prior to your session! You can of course bring it earlier, in one of the coffee / lunch breaks. In case your talk has been scheduled for the morning session, please come to the Speakers' Ready Room one day before the day of your presentation.
- Please be present in the session room 15 minutes prior to the start of your session and follow the instructions from the Chairman and/or technician.
- During your lecture a remote control will be available for controlling your presentation.
- At the end of the Meeting, all presentations will be deleted from the presentation system and computers on-site.

INFORMATION FOR POSTER PRESENTERS

- The poster area is located on the 2nd floor foyer of the Prague Congress Centre. Posters will be organized according to topics and numbers.
- There will be three Poster Sessions, one on each day. Poster Session I will be held on Thursday, 12 September, Poster Session II on Friday, 13 September and Poster Session III on Saturday, 14 September.
- The poster boards will be mounted in landscape orientation, maximum size of the poster is 97 cm (height) x 180 cm (width).
- There will be no organized or moderated discussions over posters, and it is expected that the authors will be present during the lunch break (12:30-14:45) to discuss their posters with interested colleagues. In addition, we advise that they stay in the poster area also during coffee breaks for informal discussion of their work.
- Fixing material (pins and stickers) will be available in the Posters Area.
- Please mount your poster on the assigned poster board (marked by your number which was previously distributed and can be found in the Final Programme) at the assigned time and date.
- In case any assistance is needed, please ask the staff in the poster area. Please make sure you remove your poster before the end of the day's poster session.
- Posters must be removed at the end of the day by 19:00. Posters that are not dismantled by the stated time will be removed by the staff and discarded.

Set-up: every day from 08:00-09:00

Dismantling: every day from 18:00-19:00

BUSINESS MEETINGS

FENS Trust Foundation Meeting

Date: Tuesday, 10 September 2013
Time: 14:00 to 18:00
Location: Corinthia Hotel, 22nd floor

FENS Executive Committee Meeting

Date: Wednesday, 11 September 2013
Time: 08:30-17:30
Date: Thursday, 12 September 2013
Time: 08:30-14:00
Location: Prague Congress Centre, Meeting Room 2.2

FENS Communication Committee Meeting

Date: Thursday, 12 September 2013
Time: 14:30 to 17:30
Location: Prague Congress Centre, Meeting Room 2.2

SOCIAL EVENTS

Welcome Cocktail

Date: Wednesday, 11 September 2013
Time: 20:00 to 21:00
Location: Prague Congress Centre, ZOOM Restaurant, 1st floor
Price: included in the registration fee
Dresscode: smart casual

FENS Dinner (by invitation only)

Date: Thursday, 12 September 2013
Time: 20:00 to 23:00
Location: Kaiserštejnský palác (Kaiserstein Palace), Malostranské náměstí 23/37, Praha 1
Entertainment: classical music
Dress code: business casual
Menu: buffet
Transportation: metro A (green line) to Malostranská stop, then by tram No. 12, 20, 22 to Malostranské náměstí stop

Jazz Boat Trip (tickets required)

Date: Thursday, 12 September 2013
Time: 20:00 (boarding time) to 23:00
Location: boat Kotva, gate 5 under the Cechuv Bridge (Čechův most)
Entertainment: Marcel Flemr Blues Band
Price: 40 EUR
Dress code: casual
Menu: three course menu + welcome drink
Transportation: metro A (green line) to Staroměstská stop, then by tram No. 17 to Právnická fakulta stop

Meeting Dinner (pre-booking required)

Date: Friday, 13 September 2013
Time: 20:00 to 22:00
Location: Restaurant Petřínské terasy, Petřínské sady 393, Praha 1 (on the Petřín Hill)
Entertainment: Jazz/swing band
Dress code: casual
Menu: warm and cold buffet
Price: 50 EUR / 30 EUR for students
Transportation: metro C (red line) to I.P. Pavlova stop, then by tram No. 22 to Újezd stop, then by the Funicular to Nebozíček stop OR metro A (green line) to Malostranská stop, then by tram No. 22 to Pohořelec stop and 15 min walk downhill through the Petřín Hill

History of Neuroscience Social (tickets required)

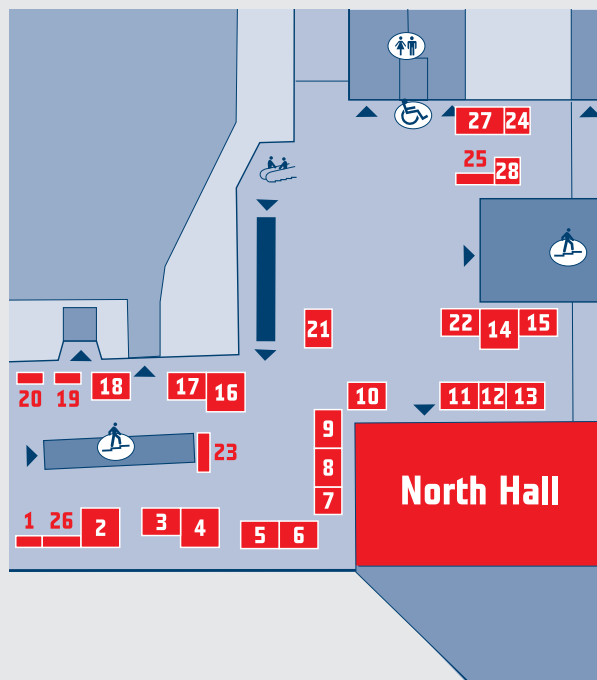
Date: Saturday, 14 September 2013
Time: 20:00 to 21:30
Location: the Czech Museum of Music, Karmelitská 2/4, Praha 1
Entertainment: Kaprálová Quartet
Dress code: casual
Price: included in the registration fee / pre-booking required
Transportation: metro A (green line) to Malostranská stop; then by tram No. 12, 20, 22 to Hellichova stop OR metro C (red line) to I.P. Pavlova stop, then by tram No. 22 to Hellichova stop.

EXHIBITORS

The organisers sincerely thank the following exhibitors for their support of the FENS Featured Regional Meeting 2013.

Stand No.	Company name
8	Abcam Plc
14	Advanced Targeting Systems
16	BIOPAC Systems, Inc.
25	BioTech a.s.
15	BlackRock Microsystems
21	Carl Zeiss Microscopy GmbH
24	Cayman Pharma s.r.o.
27	Federation of European Neuroscience Societies
2	Fine Science Tools GmbH
9	Jackson ImmunoResearch Europe Ltd
28	Leica Microsystems GmbH
20	Life Technologies Czech Republic s.r.o.
22	The Magstim Company Ltd.
6	Media Cybernetics UK
7	Moor Instruments Ltd
3	Multi Channel Systems MCS GmbH
23	Neuralynx Europe, Inc.
19	NeuroNexus Technologies BV
1	NIKON spol. s r. o.
17	Noldus Information Technology
12	NOVUS BIOLOGICALS Ltd
11	npi electronic GmbH
10	Peprotech EC LTD
26	Psychology Software Tools, Inc.
5	SENSAPEX
13	THORLABS GmbH
4	TSE Systems GmbH
18	UGO BASILE S.R.L.

Exhibition Plan



GENERAL INFORMATION

Airport

Prague International Airport handles flights of most European carriers and also overseas flights. It is located 30-45 minutes from the centre of Prague. Good connection between the airport and the city centre is provided by public transport buses and taxis. You can easily get to the city centre using one of the public buses. For the quickest transport to the city centre or the nearest metro station, we advise using bus No. 119 (to metro A Dejvicka). Unfortunately there is no subway or train connection to the city.

Abstracts

All abstracts are published in the electronic version of Book of Abstracts on a USB which is included in the conference bag.

Badge

A Meeting identification badge will be included in the conference material provided upon registration. There will be no admittance to the scientific sessions without the badge.

Certificate of Attendance

A Certificate of Attendance will be issued to all registered participants and is available for pick-up at the Registration desk after the first day of the Meeting the earliest.

Coffee Breaks and Lunches

Coffee breaks and lunches are available for Meeting participants and will be served in the exhibition area on the 2nd floor foyer.

Currency and Banking

Czech crown (CZK, Kč) is the official currency of the Czech Republic. Exchange of foreign currency is available at Prague international Airport and at most hotels, banks and exchange offices. International credit cards are accepted for payments in hotels, restaurants and shops. Payment in cash in EUR is also available in some restaurants and shops, please ask for details on-site.

Duplication/Recording

Any form of recording (audio recording, auto taping, digital taping, photography and video) is prohibited. Permission to do so should be sought from the Meeting Organizers.

Electricity

The Czech Republic uses a 230 volt 50 Hz system, sockets are the standard European type and two-prong round pin plugs, with a hole for a male grounding pin. To use electric appliances from your country you may need a special voltage converter with an adapter plug.

Hotel Accounts

All participants are reminded to settle their hotel bills for extras prior to departure with a hotel reception.

Important Telephone Numbers

150: Fire

155: Ambulance

156: Prague Police

158: Police

112: General Emergency for Europe

The country code of the Czech Republic is 00420.

Insurance

The organisers do not accept responsibility for individual medical, travel or personal insurance. All participants are strongly advised to take out their own personal insurance before travelling to the Meeting.

Internet

Wireless internet connection is available on the 2nd floor foyer.

Language

The official language of the Meeting is English. Simultaneous translation will not be provided.

Main Entrance

Entrance No. 5 of the Prague Congress Centre will be used as the main entrance to access the FENS Featured Regional Meeting site.

Mobile Phones

Participants are kindly requested to keep their mobile phones in the off position in the session rooms while sessions are being held.

Parking

Parking spaces are available in the underground garages of the Prague Congress Centre. The parking fee is not included in the registration fee.

Programme Changes

The organisers cannot assume liability for any changes in the program due to external or unforeseen circumstances.

Public Transport

Prague has a good public transport system, which includes 3 metro lines, trams and buses. Prague's Metro system is quite new and efficient. During peak hours trains run every 1 or 2 minutes and off peak at least every 10 minutes. Passengers need a valid ticket to travel on the city public transport system. The ticket must be stamped as soon as you get on a bus or tram, or enter the transport area (in the case of a metro station).

All registered participants of the Meeting will receive a free public transport ticket on-site which is valid for the dates of the Meeting.

Registration Fees

Delegate	470 EUR
Student	210 EUR
Meeting Dinner	50 EUR
Meeting Dinner – students	30 EUR
Accompanying person	100 EUR

The registration fee includes:

- admission to the Opening Ceremony and Welcome Cocktail
- admission to the scientific programme and exhibition area
- admission to the History of Neuroscience Social (pre-booking required)
- conference materials (incl. Final programme, Book of Abstracts on USB)
- refreshments (6 coffee breaks and 3 lunches)
- Prague transport ticket for the duration of the Meeting

The Accompanying person fee includes:

- admission to the Opening Ceremony and Welcome Cocktail
- admission to the Meeting Dinner
- half day tour of Prague on Thursday, 12 September 2013 from 09:30–13:00.

The English speaking guide will collect you by entrance No. 10 of the PCC and take you for a walking tour of the historical part of the city.

Registration Desk Opening Hours

The registration desk is located on the 2nd floor foyer of the Prague Congress Centre and will be open during the times indicated below:

Wednesday, 11 September 2013	13:00–20:00
Thursday, 12 September 2013	08:00–18:30
Friday, 13 September 2013	08:30–18:30
Saturday, 14 September 2013	08:30–18:30

Shopping

Most shops in Prague are open from 8:00 to 18:00 Monday through Sunday, big shopping centres (Arkády at Pankrác metro station or OC Chodov at Chodov metro station) are open until 20:00.

Speakers' Ready Room

All speakers are asked to upload their presentation at the Speakers' Ready Room (Meeting Room 2.1 on 2nd floor) at least two hours before the beginning of the session or the day before in case of a morning session.

Due to the online presentation system, all speakers are kindly requested to use provided PC on-site. At the end of the Meeting, all presentations will be deleted from the presentation system and on-site computers.

The Speakers' Ready Room will be open during the times indicated below:

Wednesday, 11 September 2013	14:00–20:00
Thursday, 12 September 2013	08:00–18:30
Friday, 13 September 2013	08:00–18:30
Saturday, 14 September 2013	08:00–16:30

Smoking Policy

For the comfort and health of all participants, smoking is not permitted at the Meeting venue.

Taxi Service

In the city centre, taxis can be hailed from the street but we strongly recommend to use hotel taxis or to call taxi by phone through the radio taxi service. Most taxis do not accept credit cards. The official fare is approximately 30 CZK per kilometre so please check the price which should be listed on the car before you get into the car.

AAA taxi: +420 14014
City Taxi: +420 257 257 257
Profi Taxi: +420 844 700 800

Time Zone

The Czech Republic is on Central European Time - Greenwich Mean Time (GMT) plus 1 hour. From April to October is summer time, i.e. GMT + 2 hours.

Tipping

The usual tips in restaurants are 10%.

LIST OF AUTHORS

Aarão M.	PIII-C-054	Armugam A.	PIII-C-067
Abadie-Guedes R.	PIII-C-072	Arnold S.	PIII-D-096
Abdelmalek A.	PII-F-110	Arpita D.	PII-C-044
Abu-Rub M. T.	PI-C-090	Arsen S.	EJN-1
Abushik P. A.	PII-C-020	Artoul S.	PI-B-024
Acuña A. I.	O-27	Arvanian V. L.	EJN-1
Adamczak J.	S-V-3	Assis-Souza I.	PIII-F-005
Adamkov M.	PIII-C-068	Astorga G.	O-18
Agnati L. F.	S-I-1	Aswendt M.	O-09, S-V-3
Aktas D.	PII-A-001,	Augustyniak J.	PI-A-015
	PIII-B-018	Aydarkin E.	PIII-F-098
	PL-4	Babušíkova E.	PII-C-047,
Alafuzoff I.	PIII-C-066		SI-VI-2
Alaimo A.	PIII-D-089	Bading H.	S-VI-2
Alajbegovic A.	O-23	Badstübner K.	PIII-C-029
Albasser M.	PIII-B-015	Bagchi S.	PIII-B-022
Albera R.	PII-A-012	Bagci G.	PI-C-068,
Alcántara A.	PIII-C-046		PI-C-093
Alcántara S.	PIII-D-083	Bahnik S.	PII-C-070
Alexa T.	PIII-C-054	Balada Caballé R.	PIII-C-046
Almeida A. C.	PIII-C-072	Balasubramanian B.	PII-C-045
Almeida I. N. F.	PII-C-019,	Balik A.	O-20,
Alural B.	PII-C-025		PI-B-020,
	PII-A-012		PI-B-035,
Alvarez Pinto Z.	PII-C-071		PI-B-036
Amalric M.	O-01, O-10	Balogová Z.	PII-D-083,
Amaya D.	PIII-C-050		PII-D-088
Amborska R.	PI-C-066	Banerjee A.	S-IX-4
Ambrosini S.	S-X-4	Bannerman D. M.	S-VI-4
Amedi A.	PII-F-115	Bao J.	O-18
Amemiya S.	PI-C-082	Baquer N. Z.	PI-C-048
Amemori T.	PIII-C-054	Baranová D.	PII-F-113
Amorim B.	PI-A-001,	Barath P.	PI-C-060
Anderova M.	PIII-C-059,	Baratz-Goldstein R.	PI-C-063
	PIII-C-060,	Barbakadze T.	PI-C-096
	PIII-C-061,	Bard L.	S-VIII-3
	PIII-C-073	Barichello T.	PII-F-112,
Andjus P.	PIII-C-041,		PII-F-117
	SI-IV-2	Barnabé G. F.	PIII-C-056
Andreeva I. G.	PII-D-080	Barnett S.	PIII-G-115,
Andrews M.	PI-C-083		S-II-3
Annamneedi A.	PII-C-073	Barrett-Bernstein M.	PIII-F-102
Antonov S. M.	PI-B-032,	Bartos A.	PI-C-047,
	PI-B-039,		PI-C-059
	PII-C-020	Bartsch D.	PII-C-067,
Arboleda D.	PIII-D-087		PII-C-070,
Arboleda G.	PI-C-072		PII-D-077
Argente P.	PII-E-096		
Armas G.	PIII-G-111		

Barygin O. I.	PI-B-031, PII-C-072	Blandina P. Blik V. A.	PII-F-116 PIII-C-045
Basaranlar G.	PII-C-028	Blomqvist A.	PII-E-115
Basta-Kaim A.	PII-C-039, PII-C-041	Bobkiewicz W. Bockmann J.	PI-C-077 O-11, PII-A-002
Batista-de-Oliveira M.	PIII-C-072	Boeckers T.	O-11, PII-A-002, PII-A-015
Battonyai I.	PIII-B-006	Böhme M.	PII-C-021
Baumann M. H.	PIII-C-052	Bohotin R. C.	PIII-D-083
Baumhoff P.	S-X-2	Bojic-Trbojevic Z.	PI-C-080
Bayer C.	PIII-C-040	Bolshakov A.	PII-C-020, PIII-B-013
Bazovkina D.	O-29, PII-C-046	Bolshakov K. V.	PIII-B-001
Bednarczyk J.	PIII-C-048	Boltersdorf A.	PIII-D-082
Beker S.	PI-C-046	Bonova P.	PIII-C-064
Bekku Y.	O-03	Boogerd W.	O-30
Belanger G.	PIII-D-095	Borges F.	O-05
Belblidia H.	PII-F-110	Bornschein U.	PII-F-105
Beltrán F.	O-27	Borovito M. E.	PII-C-072
Bendová Z.	PII-E-099	Boroto-Escuela D. O.	S-I-1
Benecke R.	PIII-C-029	Bosch B.	PII-A-001
Benegal V.	PIII-G-113	Bosíkova E.	PII-A-013, PII-A-014
Benesova J.	PIII-C-059	Bot A.	PIII-C-048
Benfenati F.	PIII-G-110	Bottari D.	S-X-3
Bennett E.	S-XVI-1	Bouchard M.	PII-C-031
Benoit A.	PII-D-092	Boucher Y.	S-VII-2
Berbotto S.	PII-F-108	Boulouard M.	PII-F-110
Berdiev R. K.	PIII-C-045	Boumediene K.	PII-D-092
Berezhnaya E.	PI-B-026	Bourgeron T.	O-11
Bernaskova K.	PII-C-064	Bouyoucef M.	PII-D-092
Berndt C.	PII-A-001	Bowers W. J.	EJN-1
Berry M.	PIII-G-115	Bradley J.	O-18
Berta G.	PII-A-005, PII-A-008	Brake W. G.	PIII-F-102
Bertocchi I.	PI-B-018, PII-F-108	Brauchi S.	O-27
Besnard S.	PII-D-092	Bräutigam L.	PII-A-001
Beyer C.	PIII-C-042	Brkic M.	PI-C-076, PI-C-080
Bhattacharya A.	PI-B-043	Brom C.	PIII-C-057
Bhattacharya S.	O-06	Bromek E.	PII-C-066
Biala G.	PII-C-057	Brown D.	S-XIV-4
Bicanic I.	PII-F-105	Bryle L.	PI-C-071
Bicikova M.	PII-C-048	Brysch K.	PI-C-069
Bikashvili T.	PII-A-016	Buchanan K. A.	S-IX-2
Bilkova Z.	PI-C-056	Buchkremer S.	PIII-C-040
Billard J. M.	PI-B-024	Buchtová H.	PII-F-114
Bitiktaş S.	PIII-F-108	Bucko J.	PIII-C-050
Bittencourt S.	PIII-C-056	Budzynska B.	PII-C-057
Black S. A.	PIII-B-005	Buffo A.	SI-IV-2
Blackman A. V.	S-IX-2		
Blahovcová E.	PII-C-034		
Blakemore S. J.	PII-F-111		

Bulygina V.	PI-E-116, PII-E-117	Chantong C.	PI-B-028, PII-E-101
Burda J.	PIII-C-064	Chatchaisak D.	PIII-D-097
Bures Z.	PII-D-079	Chauret M.	PII-A-011
Bureš J.	PIII-C-057	Chaves-Kirsten G.	PII-C-076
Burianová J.	PII-D-083	Cheah M.	PI-C-083
Burkhalter A.	PIII-B-019	Chehrehasa F.	O-01, O-10
Burton M.	PIII-C-035	Chechik G.	PI-C-046
Bushuven E.	PIII-C-040	Chen L.	PII-C-071
Bustamante D.	PII-C-033, PII-C-036, PII-C-037	Chen Z.	PIII-C-055
		Cheng H.	PIII-D-088
		Cheng Z.	O-28
Bušková J.	PII-C-068	Chepurnova N. E.	PIII-C-045
Butenko O.	PIII-C-059	Chetsawang B.	PIII-D-097
Butovas S.	PIII-D-082	Chiriac I.	PIII-D-083
Butt A.M.	S-III-4	Chiu T. W.	PII-D-086
Buzanska L.	PI-A-015	Cho B. R.	PII-C-059, PII-C-060
Byun S.	PII-A-017		
Cagalinec M.	PI-C-079	Chodounska H.	PI-B-020
Calapai G.	PI-C-092, PII-C-024	Choi J.	PIII-B-024
		Choi S.	PII-B-024
Calcagnotto M. E.	PIII-C-056	Chomova M.	PI-E-110
Calocer F.	PII-F-110	Choubey V.	PIII-C-027
Camon J.	PII-C-071	Chowen J. A.	PII-E-096
Campanelli D.	PII-D-082	Christaller W.	PII-C-026
Campiglio M.	PIII-B-004, S-XIV-2	Christoph T.	PIII-D-082
		Chumak T.	PII-D-082, S-XIII-1
Canello T.	PIII-B-003		
Carrillo B.	PII-E-096	Cicanic M.	O-03, PIII-C-073
Carulli D.	PII-F-108, PIII-B-015	Ciric J.	PII-E-098
		Cirmi S.	PI-C-092, PII-C-024, PII-C-035
Casamenti F.	PI-C-066		
Castaño O.	PII-A-012	Ciruela F.	S-I-1
Castells Santamaria A.	PIII-C-046	Cizek M.	O-07, PI-C-086, PI-C-089
Castonguay J.	PIII-B-002		
Castren E.	PIII-B-017	Cizkova D.	O-07, PI-C-085, PI-C-086, PI-C-089
Castro M. A.	O-27		
Cauvard O.	PII-D-092	Claus R. A.	PII-C-021
Cavarsan C.	PIII-C-054	Coelho J. R.	PII-F-117
Cellai L.	PI-A-011	Coelho-Santos V.	PII-C-038
Cempelli D.	S-XIII-1	Collado P.	PII-E-096
Cente M.	PI-C-055, PI-C-062	Collins M. A.	O-25
		Comim C.	PII-F-112, PII-F-117
Cepeda C.	O-27		
Cerbón M.	PII-C-043	Concha I. I.	O-27
Chalimoniuk M.	PI-B-016	Connor M.	PIII-D-097
Chandrasekar A.	PIII-C-042		
Chang C.	PIII-C-034		
Chang K. T.	PIII-D-088		
Chang S.	PII-C-055		
Chang Y. J.	PII-D-086		

Coppi E.	PI-A-011, PIII-C-063	Di Braccio M. Di Luca M.	PI-B-041 SI-III-2
Costa C. S.	PII-F-117	Dibaj P.	O-24
Costa G.	S-I-2	Dierssen M.	SI-III-3
Costa R. P.	S-IX-2	Díez B.	PII-E-096
Covolán L.	PIII-C-032, PIII-C-054	Dijkhuizen R. M. Diniz D. G.	PIII-C-077 PIII-C-072
Craig M. T.	S-IX-4	Dion L.-A.	PII-C-031
Criado J. M.	PI-C-078	Dix S.	O-23
Cujic D.	PI-C-080	Długaiczek J.	S-XIV-4
Cukic M.	SI-IV-5	Dmytrenko L.	PIII-C-073
Cupello A.	PI-B-041	Dobrota D.	PI-C-070, PIII-C-071, SI-VI-2
Curro M.	PII-C-035		
Cutsuridis V.	PIII-B-014	Dobryakova Y.	PIII-B-011, PIII-B-012
Czotter N.	PII-A-005		
Červená K.	PII-E-099	Dockery C. A.	PIII-F-100
Čierny D.	PI-C-070	Dodurga Y.	PI-C-068, PI-C-093
Dabrowska-Bouta B.	PII-C-040		
Dadlez M.	PIII-C-052	Dolnik A.	PII-A-002
Dagna F.	PIII-B-015	Dolphin A. C.	S-XIV-1
Dagostin V. S.	PII-F-112	Dolu N.	PIII-F-108
Dahlin L. B.	O-02	Dondas A.	PIII-D-083
Dainauskas J. J.	PIII-B-014	Donega V.	PIII-C-077
Dangel L.	PI-C-077	Donmez B. O.	PII-C-028
Daniel W. A.	PII-C-066	Dorofeeva N. A.	PIII-B-001
Danielisova V.	PIII-C-064	Downey P.	PIII-C-035
Das R.	S-IV-4	Draguhn A.	PIII-B-021
Davila J. C.	PI-C-065	Dreier A.	PIII-C-040, PIII-C-042
Dawe G. S.	PI-C-052		
Daxnerová Z.	O-08, PI-A-002	Dresser A.	PIII-C-042
Dayanithi G.	PI-E-107, PIII-D-087, S-VIII-2	Dubravčík M. Duda W.	PI-C-074 PIII-F-100
De Castro V.	PI-C-065	Dulovic M.	PIII-C-026
De Faveri S.	PIII-G-110	Dumontheil I.	PII-F-111
de la Fuente V.	PIII-F-104	Durackova Z.	PI-E-110
de Sá Lima L.	PII-C-029	Duskova M.	PII-C-048
Dębski J.	PIII-C-052	Dygalo N.	PI-E-116
Dejneka A.	PI-C-091	Dygalo N. N.	PI-E-117
Delers P.	PIII-D-095	Ozamba D.	PI-A-001, PIII-C-059, PIII-C-060, PIII-C-061
Delgado-Herrera M.	PII-F-107		
Deltheil T.	PII-C-071	Eckhardt M.	PI-C-069, PI-D-101, PIII-G-112
Dénes V.	PII-A-005, PII-A-006, PII-A-008		
Denise P.	PII-D-092	Ed Dami T.	PI-C-066
Derin N.	PII-C-028	Edamatsu M.	O-03
Deschauer M.	PIII-C-040	Egoz-Matia N.	S-I-4
Devesa J.	PI-C-078		
Di Biase V.	S-XIV-2		

Ekberg J.	O-01, O-10, S-II-2	Feron F. Ferraro L. Fialkovičová M.	S-II-4 S-I-1 PI-C-061
Elayoubi K.	PIII-B-010	Fiath R.	PII-D-084
Elekes K.	PIII-B-006	Filip M.	S-I-1
Elgar D.	S-IX-2	Filipčík P.	PI-C-055, PI-C-062, PI-E-111, PIII-C-068
Elias S. G.	PII-F-112		
Emmanouilidou E.	SI-IV-3		
Enard W.	PII-F-105	Filipek A.	PIII-C-048
Engel E.	PII-A-012	Fillat C.	PI-A-006
Engel J.	PII-D-077, S-XIV-4	Finckh B.	PII-C-073
	PII-A-007	Flucher B. E.	PIII-B-004, S-XIV-2
Engelhardt M.	PIII-C-047		
Enginar N.	PIII-F-105	Fodor L.	PI-B-042
Entlerova M.	PI-B-044	Foltyn N. V.	PI-B-024
Epresi N.	O-06	Fominykh V.	PI-C-071
Erceg S.	PII-C-023, PII-C-042	Fontes-Ribeiro C.	O-05, PII-C-038
Eren E.	PI-A-010	Forostyak D.	PI-E-107, PIII-D-087
Ergina Yu.	PI-A-007	Forostyak S.	PIII-C-038, PIII-D-087
Ersnberger U.	PI-A-009		
Escalpez M.	PI-E-115	Franz Ch.	S-XIII-1
Eskilsson A.	PII-C-033	Frenkel-Pinter M.	S-I-4
Esmar D.	O-27	Freret T.	PII-F-110
Esparza M.	PII-F-108	Friauf E.	S-XIV-4
Eva C.	PII-C-047	Friederici A. D.	PII-F-106
Evinova A.	O-11	Frontczak-Baniewicz M.	PII-C-040
Ey E.	PI-C-074	Fu T. F.	PI-B-023
Fabianová K.	PIII-G-110	Fuente A.	PI-C-078
Fadiga L.	PI-C-083	Fujita K.	S-XI-3
Faissner A.	PII-C-057, PIII-F-105	Fukami S.	PI-A-012
Fajnerova I.	PII-B-015	Furjelova M.	PIII-C-068
Faralli A.	PI-C-061, PII-F-113	Furukawa Y.	PI-A-014
Farbáková J.	PI-B-042	Fustiřana M.	PIII-F-104
Farkas B.	PI-B-042	Fuxe K.	S-I-1
Farkas S.	PI-C-083	Gabizon R.	PIII-B-003
Fässler R.	S-XIV-3	Gabriel R.	PII-A-005, PII-A-006, PII-A-008
Favereaux A.	PI-C-083, PL-2		
Fawcett J.	PII-F-104	Galenko A. V.	PII-C-072
Federman N.	EJN-1	Galik J.	PI-B-016, PI-C-074
Federoff H. J.	PI-B-031		
Fedorova I. M.	S-XIV-4	Galli A.	PIII-C-063
Fell B.	SI-II-3	Galron D.	PII-C-056
Fenton A.	PII-C-063	Galter D.	S-I-1
Ferdova M.	PI-C-092, PII-C-024, PII-C-035	Gamanut A. R.	PIII-B-019
Ferlazzo N.		Gapanovich S.	PI-B-032
		García-Anaya M.	PIII-G-111

Gaser C.	P11-C-021	Goswami A.	P111-C-039,
Gatta E.	PI-B-041		P111-C-040,
Gazit E.	S-I-4		P111-C-042
Gebhart M.	P11-D-077	Gottlieb M.	P111-C-064
Gebicke-Haerter P.	P11-C-033,	Govitrapong P.	PI-A-004
	P11-C-036	Gozdziejewicz O.	P11-D-094
Geddis M.	P111-C-079	Grabrucker A. M.	O-11
Gedrová Š.	PI-A-002,	Grauer M.	O-16
	PI-C-074,	Greenberg D.	S-XVI-1
	PI-C-075	Greger I.	O-20,
			S-XII-1
Geisler S.	P111-B-004,	Gröhn D.	P11-E-100
	S-XIV-2	Grossi C.	PI-C-066
Gelazonia L.	P11-A-016	Grulova I.	O-07,
Genc K.	P11-C-019,		PI-C-085,
	P11-C-023,		PI-C-086,
	P11-C-025,		PI-C-089
	P11-C-042		
Genc S.	P11-C-019,	Guedes R. C. A.	P111-C-072
	P11-C-023,	Guillamin M.	P11-D-092
	P11-C-025,	Guiraudie-Capraz G.	P11-C-071
	P11-C-042	Gullo M.	EJN-1
Generoso J. S.	P11-F-112,	Gulyaeva N.	PI-C-053,
	P11-F-117		PI-C-071
Gentile F.	P111-C-063	Gundelfinger E. D.	O-11
Gervais N. J.	P111-F-102	Gundersen V.	PI-B-017,
Ghosal S.	S-XVIII-2		PI-B-029
Gieselmann V.	PI-C-069,	Gundogdu G.	PI-C-068,
	PI-D-101,		PI-C-093
	P111-G-112	Gurskaya O.	P111-B-011,
	P11-C-031		P111-B-012
Gilbert G.	P111-C-035	Gutierrez A.	PI-C-065
Gillard M.	P111-C-029	Gutierrez-Hernández	P11-C-033,
Gimsa J.	P111-C-029	M.	P11-C-036
Gimsa U.	P111-C-029		
Gingras A.-C.	P111-C-052	Gvozdeva A.	P11-D-081
Giniatullin R.	P11-E-100	Haduch A.	P11-C-066
Giovannini M. G.	P111-C-069	Hajek M.	PI-C-097
Girard S.	S-II-4	Halbedl S.	P11-A-015
Girimaji S. C.	P111-G-113	Hamani C.	P111-C-054
Glombik K.	P11-C-041	Hamann A.	PI-C-090
Glushankova L.	P111-C-036	Hamilton G.	O-15
Golan Hava	P11-C-056	Hamner M. A.	S-XI-3
Goldin M.	PI-C-046	Han D.	P11-A-017
Gonçalves J.	O-05	Han L.	S-XVII-3
Gonçalves J. C. N.	P11-F-117	Han S.	P111-B-024
González J.	P111-G-111	Hanganu-Opatz I.	SI-VI-1
González-González	PI-B-019	Hanin G.	S-XVI-1
M. I.		Haraldseth O.	P111-G-115
Gonzalez-Rueda A.	S-IX-4	Harantova L.	P111-C-061
Górkiewicz T.	P111-B-008	Harbich D.	P11-E-095
Gorojod R. M.	P111-C-066	Hardt R.	P111-G-112
		Harhaji-Trajkovic Lj.	P111-C-026

Hariprasad Shenoy B.	S-X-3	Horáček J.	P11-C-050,
Harmony T.	P11-F-107		P111-C-057
Harris A. P.	P111-F-099	Horák D.	PI-C-088
Hartmann J.	P11-E-095	Horak M.	O-17,
Hartung H. P.	P11-A-001,		PI-B-020,
	P111-B-018		PI-B-033,
	PI-D-104		PI-B-035
Hashiguchi Y.	PI-A-003,	Horner P. J.	EJN-1
Hatalová H.	P111-C-030	Hornychova J.	P11-A-018
	S-III-4	Horváth Cs.	P11-B-042
Hawkins V.	S-III-1	Horvath D.	P11-D-084
Haydon P.G.	S-III-1	Horváth J.	P111-F-101
Hecker D.	S-XIV-4	Hrebíčková I.	P11-C-058,
Hefter D.	P111-B-021		P11-C-063
Hegnerova K.	PI-C-047		PI-B-016,
Heijnen C. J.	P111-C-077	Hricová L.	PI-C-075,
Hejřl A.	PI-C-084,		P111-D-090
	PI-C-088		O-13
Heneka M.	S-XI-4	Hromadka T.	PI-C-056
Henley J. M.	PI-B-019	Hromadkova L.	PI-C-087
Henn N.	O-09	Hruby M.	P11-D-088
Henneberger C.	S-VIII-3	Hsiao H. Y.	P111-C-055
Heredia M.	PI-C-078	Hsieh H.	P111-C-055
Herich R.	PI-C-061	Hsu H.	P11-D-086
Herman J. P.	S-XVIII-2	Hu C. H.	P11-C-055,
Hermoso M. A.	P11-C-036	Huang G. J.	P11-F-109,
Hernádi L.	PI-B-025		P111-C-062,
Hernández-Nuño F.	P11-E-096		P111-D-096
Herrera-Marschitz M.	P11-C-033,	Huang M. C.	P111-D-088
	P11-C-036,	Huber K.	PI-A-007
	P11-C-037	Hubka P.	S-X-2
Herrmann K. H.	P11-C-021	Hunanyan A. S.	EJN-1
Herynek V.	PI-C-097	Hutton M.	O-23
Hetz C.	O-27	Ibrahim I.	P11-D-088
Hevers W.	P11-F-105	Ientile R.	P11-C-035
Higashi C.	S-XI-3	Ikawa D.	PI-A-012
Higure Y.	PI-D-103	Ikegaya C.	P111-B-020
Hijazi M.	PI-A-006	Ikezawa J.	P11-E-102
Hill M.	P11-C-048	Imamovic Dz.	P111-D-089
Hladnik A.	PI-A-009	Inoue R.	PI-B-024
Hlinkova J.	O-19	Isakovic A.	PI-C-094
Hoang L.	P111-G-115	Isakovic A. M.	PI-C-094
Hoehn M.	O-09, S-V-3	Itoh M.	P11-A-009
Holla B.	P111-G-113	Iwata H.	PI-A-014
Holmgren A.	P11-A-001	Izquierdo A.	P111-F-107
Homola A.	P111-C-038	Jabs R.	O-16
Homola J.	PI-C-047	Jacob S.	P111-F-102
Honsa P.	PI-A-001,	Jadhav S.	PI-C-057
	P111-C-059,	Jakovcevski I.	SI-IV-2
	P111-C-060,	Jalanko A.	P111-C-052
	P111-C-061	Jaldeep L.	P11-C-044

Jalil A.	O-18	Kafka J.	D-07,
Jang J. K.	PII-C-059		PI-C-086,
Jankovicova B.	PI-C-056		PI-C-089
Janssen A. L.	O-11	Kalauzi A.	PII-E-098
Japaridze N.	PII-A-016	Kale R. K.	PI-C-048
Jaramillo J.	PI-C-072	Kalinina N.	PI-B-021
Jarvis E.	PII-A-014	Kalinina T.	PI-E-116,
Jasek E.	PIII-B-016		PI-E-117
Jasinska M.	PIII-B-016	Kaliszewska A.	PIII-F-103
Jaskova K.	O-19	Kanatsou S.	PIII-F-099
Jasmin B.	PIII-D-095	Kanazir S.	PI-C-076,
Jašková K.	PI-C-079		PI-C-080,
Jendelova P.	PI-C-067,		PI-E-114,
	PI-C-082,		SI-III-4
	PI-C-097,	Kandráč D.	PI-C-061,
	PIII-C-038		PII-F-113
Jendelová P.	PI-C-087,	Kaniakova M.	O-17,
	PI-C-088,		PI-B-033,
	S-II-1		PI-B-035
Jenner P.	S-I-3	Kanwal N.	PII-A-002
Jesse C. M.	PIII-C-040,	Kaplan B.	PIII-C-079
	PIII-C-042	Karasová M.	PI-C-074
Jeyaseelan K.	PIII-C-067	Karmos G.	PII-D-084
Jhanwar-Uniyal M.	PI-C-067	Karmouch J.	PIII-D-095
Ji-au W.	PI-B-027	Karolina D. S.	PIII-C-067
Jílek M.	PII-D-087,	Karová K.	PI-C-067,
	PII-D-088		PI-C-087
Jindrichova M.	PI-B-043	Karpova N.	PIII-B-017
Jirak D.	PI-C-097	Kashiwayanagi M.	PII-D-099,
Jiráková K.	PI-C-088		PI-D-100
Joanita J.	PI-C-052	Kathannan San	PIII-C-081
Joëls M.	PIII-F-099	Katic J.	SI-IV-2
Johann S.	PIII-C-040	Kato C.	PI-C-073
Johnson S.	S-XIII-1	Kato K.	PI-A-014
Jojua N.	PI-C-096	Kato T.	PII-C-051,
Jovanov Milosevic N.	PI-A-009		PII-C-051
Jovanovic M.	PIII-C-026	Katona I.	PIII-C-040,
Jozet-Alves C.	PII-F-110		PIII-C-042
Juraneck J.	PIII-C-079	Kaur P.	PIII-C-067
Jurečekova J.	PII-C-047	Kavelaars A.	PIII-C-077
Jurewicz E.	PIII-C-048	Kawamoto E. M.	PII-C-029
Jurkovičová D.	PI-C-079	Kazmerova Z.	PI-C-058
Jurkowlaniec E.	PII-D-094	Kaznacheyeva E.	PI-C-064,
Kaasik A.	PIII-C-027		PIII-C-036
Kaczmarek L.	PIII-B-008,	Kážmérová Z.	PI-C-049
	PIII-C-050	Kekunnaya R.	S-X-3
Kaczyńska K.	PI-E-109	Kelly L.	PIII-C-079
Kačer P.	PII-C-050	Keloğlan S.	PIII-F-108
Kafka A.	PI-C-095	Kencebay Manas C.	PII-C-028
		Kennedy H.	PIII-B-019
		Keramioti M.	SI-IV-3

Kerr B.	O-26	Koc T.	PI-C-068,
Keshavarao S.	PII-C-045		PI-C-093
Kestavi T.	PIII-C-052	Kodym P.	PII-C-050
Kettenmann H.	PL-1	Koibuchi N.	PII-E-102
Kezurer Noa	PII-C-056	Koistinaho J.	S-XV-3
Khateb M.	PIII-D-091	Kokaia Z.	S-V-1
Khroug L.	PII-E-100	Kolarova M.	PI-C-059
Khodaie N.	O-25	Kollárová Z.	PI-C-084
Kiladze M.	PII-A-016	Kolodney G.	PI-B-024
Kim C.-H.	PIII-B-024	Kolosov P.	PIII-B-013
Kim H.	PIII-B-024	Kolosova N.	PIII-C-033
Kim H. J.	PII-C-052	Komarova M. S.	PI-B-031
Kim I.	PIII-B-024	Kondaurova E.	O-29
Kim J. H.	PII-C-059,	Konrádová L.	PIII-C-057
	PII-C-060,	Kontseková E.	PII-C-069
	PII-C-061	Kopitar-Jerala N.	PIII-C-051
	PI-B-034,	Kopp B.	S-XVIII-2
	PI-B-037	Korinek M.	O-17,
Kim K.	PII-C-060,		PI-B-020,
Kim W. Y.	PII-C-061		PI-B-035
Kimura K.	PI-D-105	Korinek V.	PI-A-001
Kinoshita P.	PII-C-029	Kortus S.	PI-E-107
Kirischuk S.	S-VIII-4	Koschak A.	PII-D-077
Kisfali M.	PI-B-022	Kossut M.	PIII-B-016,
Kishimoto T.	PI-A-012		PIII-F-103
Kislin M.	PII-E-100	Kostic V.	PIII-C-026
Kiss T.	PI-B-025,	Kot M.	PII-C-066
	PIII-B-006	Kotler M. L.	PIII-C-066
Kisucká A.	PI-B-016,	Kovacech B.	PI-C-060
	PI-C-075	Kovaleva V.	PI-B-026
Kis-Varga Á.	PI-B-042	Kovalská M.	PIII-C-068,
Kita I.	PII-F-115		PIII-C-071
Klačanová K.	PIII-C-071	Kozák M.	PI-C-061,
Klaschka J.	PII-C-050		PII-F-113
Kleczkowska P.	PI-E-109	Krajcs N.	PI-B-025,
Kleteckova L.	PII-C-030		PIII-B-006
Klingenstein M.	PII-C-075,	Kral A.	S-X-1,
	PIII-C-044		S-X-2,
	O-15		SI-V-1
Klintsova A.	S-XII-2	Kralikova M.	PIII-B-007
Klöcker N.	PIII-B-018	Kramer E. R.	PII-C-073,
Kloetzl P.-M.	PIII-B-018		S-IV-4
Klose J.	PIII-B-002	Kramm C.	O-27
Klugbauer N.	PIII-B-008	Krasnoschekova E.	PI-A-010,
Knapaska E.	PII-D-082,		PII-A-010
Knipper M.	S-XIII-1,	Kraus C.	PII-C-033
	S-XIV-4	Krausova B.	O-17,
Knoblauch K.	PIII-B-019		PI-B-020,
Knyazev G.	PII-F-119		PI-B-035,
Kobayashi C.	PIII-B-020		PI-B-036
		Kravic-Stevovic T.	PIII-C-026

Kress M.	S-VII-3	Kuricova M.	O-07,
Kreutz M. R.	O-11		PI-C-085,
Krieglstein K.	S-IV-1		PI-C-086,
Kriska J.	PI-A-001,		PI-C-089
	PIII-C-059	Kurt S.	S-XIV-4
Křištofiková Z.	PI-C-047,	Kútna V.	O-08,
	PII-C-065		PI-A-002
Krivoi I. I.	PII-C-020	Kuzibayev J.	PIII-G-114
Kröger T.	PIII-C-029	Kuznietsov A. A.	PIII-G-118
Krsek D.	PII-C-050	Kvetnansky R.	PI-E-111,
Krugers H.	PIII-F-099		S-XVIII-1
Kruk-Slomka M.	PII-C-057	Kwak M.	PII-C-061
Kryzhanovskiy S. A.	PI-D-102	La Buissonniere-Ariza	PII-A-011
Kubesova A.	PII-C-030	V.	
Kubík Š.	PII-F-114,	Labermaier C.	PII-E-095
	PIII-F-105	Lacaille J. C.	PIII-B-010
Kubinová Š.	PI-C-084,	Lacinova L.	O-19,
	PI-C-088,		PIII-B-002
	PI-C-091,	Lackovicova L.	PI-E-111
	S-II-1	Lakk M.	PII-A-005,
Kubista M.	PIII-C-059,		PII-A-006,
	PIII-C-060,		PII-A-008
	PIII-C-061	Lalanne T.	S-IX-2
Kubota N.	PII-E-104,	Lalo U.	S-III-1
	PII-F-115	Lalowski M.	PIII-C-052
Kubota-Sakashita M.	PII-C-051	Lam F. F. Y.	PIII-C-065
Kubová H.	O-21,	Lana D.	PIII-C-063,
	O-22,		PIII-C-069
	PIII-C-074	Land R.	S-X-2
Kucerak J.	PI-C-060	Landucci E.	PII-C-074
Kucharíková A.	PI-C-074,	Langfort J.	PI-B-016
	PI-C-075	Lanshakov D.	PI-E-116
Kucukatay V.	PI-C-068,	Lao Y.	PII-C-031
	PI-C-093	Laplante I.	PIII-B-010
Kuebler A.	O-11	Latalova K.	PII-C-053
Kugelberg U.	PI-E-115	Lavrentyeva V.	PI-B-034
Kühl M.	PII-A-002	Lazareva N.	PI-C-053
Kühl S. J.	PII-A-002	Lazic D.	PI-C-076,
Kuhn S.	PII-D-077		PI-C-080
Kulikov A.	PII-C-046,	Lazic K.	PII-E-098
	PIII-C-031	Lebon F.	PIII-C-035
	PIII-C-031	Ledecký V.	O-07,
Kulikova E.	PI-C-048		PI-C-061,
Kumar P.	PI-D-105		PI-C-085,
Kumazawa T.	PI-B-023		PI-C-086,
Kuo S. Y.	PI-C-056		PI-C-089,
Kupcik R.	PI-C-070		PII-F-113
Kurča E.	PI-B-021	Lee A.	PII-D-077
Kurchavyi G.	PII-C-039,	Lee C.	PIII-C-055
Kurek A.	PII-C-041	Lee H. W.	PIII-B-024

Lee J. C.	S-III-3	Llano I.	O-18
Lee J. W.	PII-C-059,	Lobelova V.	PIII-F-105
	PII-C-060,	Lombardo G.	PII-C-092,
	PII-C-061		PII-C-024
Lee L.	PIII-C-034,	Lomber S. G.	S-X-1,
	S-XIII-1		S-X-2
Lee S. C.	PII-D-082	Loncarevic-	PI-C-076,
Lee Y. S.	PIII-C-062	Vasiljkovic N.	PI-C-080,
Lee-Chen G.	PIII-C-034,		PI-E-114
	PIII-C-055	Longo A.	PII-F-108
Legay C.	PIII-D-095	Longo B. M.	PI-C-050,
Leger M.	PII-F-110		PIII-C-056
Lehotsky J.	PII-C-047,	Loos M.	O-30
	PIII-C-068	Lopes A. A. C.	PIII-C-072
Lehotský J.	PI-C-070,	Lopez-Barneo J.	S-IV-3
	PII-C-034	Lopičić S.	PIII-C-053
Leitão R.	PII-C-038	Lőrincz T.	PI-B-022
Lejavova K.	PI-E-111	Lortkipanidze T.	PII-A-016
León D.	O-26	LozanoPardo S.	PI-C-072
Lepore N.	PII-C-031	Lu H.	PII-D-083,
Leskiewicz M.	PII-C-039,		PII-D-089
	PII-C-041	Luca A.	PIII-D-083
Levčik D.	PIII-C-057	Luccarini I.	PI-C-066
Levine M. S.	O-27	Luh C.	PI-C-077
Levy-Sakin M.	S-I-4	Lukacova L.	PII-A-014
Lewis D.	O-14	Lukáčová K.	PII-A-013
Ley P.	S-X-3	Lukáčová N.	PI-B-016,
Leyton L.	PII-C-037		PI-C-075,
Li Y.	O-28		PIII-D-090
Lichnerova K.	O-17,	Lukasiuk K.	PIII-C-048
	PI-B-033,	Lukomskaya N.	PI-B-034
	PI-B-035	Lukovic D.	O-06
Lichvárová L.	O-19,	Lüttjohann A. K.	PIII-C-045
	PIII-B-002	Lynch J. W.	S-XVII-3
Lieb A.	S-XIV-2	M. Drellana A. M.	PII-C-029
Liebau S.	PII-C-075,	Machova Urdzikova L.	PI-C-067
	PIII-C-044	Mackay-Sim A.	O-10
Liiv J.	PIII-C-027	Macúchová E.	PII-C-058,
Lillig C. H.	PII-A-001		PII-C-062,
Lima C. M.	PIII-C-072		PII-C-063
Lima D. S. C.	PIII-C-072	Mađari A.	PI-C-061,
Lin C. T.	PI-B-023,		PII-F-113
	PIII-D-088	Madureira A. P.	PIII-C-054
Lin Y. L.	PIII-D-088	Magazanik L.	PI-B-034
Lindholm D.	PII-C-032	Maggiolini E.	PIII-G-110
Lindovský J.	PII-D-087	Magnes D.	PI-C-064
Lindsay S.	S-II-3	Maheu F.	PII-A-011
Linta L.	PII-C-075,	Mahmood S.	PII-C-034
	PIII-C-044	Majerová P.	PI-C-049
Lipkowski A. W.	PI-E-109	Makarchouk M. Yu.	PI-D-102
Litwin J. A.	PIII-B-016	Mäkelä J.	PII-C-032

Makinodan M. PI-A-012
Makuch W. PIII-D-084,
PIII-D-085

Malcangio M. S-VII-4
Malinova M. PII-C-063
Malinowska M. PIII-F-100
Malkin S. PI-B-037
Mallmann R. PIII-B-002
Mancilla-Medina C. O-26
Maneesri-le Grand S. PI-B-027,
PI-B-028,
PII-E-101
Mannaioni G. PII-C-074
Manrique C. PII-C-071
Maraula G. PI-A-011,
PIII-C-063

Marcellino D. S-I-1
Marcotti W. S-XIII-1
Mareš P. O-21, O-22
Maricq A. S-XVI-3
Markevich V. PIII-B-011,
PIII-B-012

Markovic I. PIII-C-026
Marosova L. PI-C-057
Marsalek P. PII-D-079
Martínez P. PIII-F-106
Martins T. O-05
Marty A. PIII-B-009
Masalov I. S. PII-C-072
Masi A. PII-C-074
Masliah E. S-I-4
Masuda S. PII-E-102
Matejovska I. PII-C-064
Matiašová A. O-08,
PI-A-002

Matschke V. PI-B-038
Matsuda M. PI-D-099
Matsuki N. PIII-B-020
Matsuwaki T. PI-E-115
Mauborgne A. S-VII-2
Maxfield A. O-23
Mazurova Y. PII-A-018
McKlveen J. S-XVIII-2
McMahon S. PI-C-090
Medina J. M. PI-A-006
Meir T. PIII-B-003
Meka D. P. PII-C-073,
S-IV-4

Melani A. PIII-C-069
Mele P. PII-F-108

Mello L. E. PIII-C-054,
PIII-C-056
Mello T. PIII-C-063
Mendell L. M. EIN-1
Mendoza-Rodríguez C. A. PII-C-043
Menshanov P. PI-E-116
Meredith M. A. S-X-1
Merzenich M. S-XIII-2,
SI-V-1

Mevarech Z. PII-A-004
Michalak A. PII-C-057
Michalik J. PI-C-070
Mika J. PII-C-039,
PII-C-041,
PIII-D-084,
PIII-D-085
Mike A. PI-B-030,
PI-B-044
Mikeladze D. PI-C-096
Mikesova M. PIII-C-059
Mikoláš P. PIII-C-057
O-05
Milhazes N. PII-F-117
Milioli G. L. S-XVII-1
Millar N. SI-IV-2
Milosevic M. SI-IV-3
Minakaki G. PIII-G-117
Minke B. PIII-C-054
Miranda M. PI-E-113
Mironova V. PI-C-094
Misirlic Dencic S. O-25
Mitchell R. M. PIII-C-080
Mitra S. PIII-C-029
Mix E. PI-D-099,
PI-D-100
Mladenovic Djordjevic A. PI-C-080,
PI-E-114
Mohr P. PII-C-048
Mokdad A. PI-B-043
Morales P. PII-C-033,
PII-C-036,
PII-C-037
Morales T. PII-C-043
Moravkova A. SI-I-2
Moreau A. W. S-IX-2
Moreira A. P. PII-F-117
Morelli M. S-I-2
Mori H. PI-B-024
Moroni F. PII-C-074

Mourre C. PII-C-071
Mravec B. PI-E-111,
S-XVIII-4

Muchova J. PI-E-110
Mukundan C. R. PIII-G-113
Müller G. PIII-F-101
Müller M. PII-E-095
Mumby D. G. PIII-F-102
Munari L. PII-F-116
Muñoz V. PII-C-036
Muraleva N. PIII-C-033
Murín R. PII-C-034
Murray T. O-23
Murthy P. PIII-G-113
Myers B. S-XVIII-2
Nadel L. SI-II-2
Nagaeva E. I. PI-B-031,
PIII-B-001

Nägerl V. S-XII-4
Nagy K. SI-IV-4
Nagyova M. O-07,
PI-C-085,
PI-C-086,
PI-C-089
S-XI-3

Nakabeppu Y. PI-A-012
Nakamura Y. PI-C-073
Nakashima K. PIII-D-089
Nalivaeva N. SI-VI-2
Napper R. PII-A-003
Narasimhan P. PI-A-007
Narducci R. PII-C-074
Narmania N. PI-C-096
Naumenko V. O-29
Navarra M. PI-C-092,
PII-C-024,
PII-C-035
PIII-B-003
O-25

Naveh-many T. PIII-C-053
Nefsey E. J. PII-C-033,
PII-C-036,
PII-C-037
PIII-C-064
Neradić P. PI-C-057
Nevian T. S-IX-3
Nešvimalova S. PII-C-068
Ng E. S. K. PIII-C-065
Niederová L. PII-A-013,
PII-A-014
PIII-C-077

Niklas P. PII-C-071
Nimmervoll B. PI-E-111,
S-XVIII-4
Nissim M. PI-E-110
Nivet E. PIII-G-113
Nobrega J. PIII-F-101
Noda M. PII-E-095
Noguchi T. PIII-F-102
PII-F-116
PII-C-036
PIII-C-033
PII-C-034
O-23
PIII-G-113
S-XVIII-2
SI-II-2
PI-B-031,
PIII-B-001
S-XII-4
SI-IV-4
O-07,
PI-C-085,
PI-C-086,
PI-C-089
S-XI-3
PI-A-012
PI-C-073
PIII-D-089
SI-VI-2
PII-A-003
PI-A-007
PII-C-074
PI-C-096
O-29
PI-C-092,
PII-C-024,
PII-C-035
PIII-B-003
O-25
PIII-C-053
PII-C-033,
PII-C-036,
PII-C-037
PIII-C-064
PI-C-057
S-IX-3
PII-C-068
PIII-C-065
PII-A-013,
PII-A-014
PIII-C-077

Nohejlová-Deykun K. PII-C-058,
PII-C-062
PII-C-063
PI-C-049,
PI-C-055,
PI-C-057,
PI-C-058,
PI-C-060,
PI-C-062,
PI-E-111,
PII-C-069,
S-XV-1
PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Nova E. PII-C-063
Novák M. PI-C-049,
PI-C-055,
PI-C-057,
PI-C-058,
PI-C-060,
PI-C-062,
PI-E-111,
PII-C-069,
S-XV-1
PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Novák D. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Novak P. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Novakova M. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Novoa-Padilla E. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Nowak A. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Nurten A. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Nurten A. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Obermair G. J. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Ochiai H. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Oehlke O. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Oguz N. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Ohtubo Y. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Okamura K. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Okuda H. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Oliveira M. A. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Olsen Ø. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Olson L. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Omelchenko O. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Ondicova K. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Ondrejka I. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

O'Neill M. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Onkal Z. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Onteniente B. PII-D-091,
PIII-G-119
PII-C-053
O-26
PIII-C-029
PIII-C-047
PIII-B-003
PIII-B-004,
S-XIV-2,
S-XIV-4
PII-E-104
O-04
PII-C-028
PII-D-103,
PI-D-104,
PI-D-105,
PI-D-106
PI-A-012
PI-A-012
PII-C-072
PIII-G-115
S-I-1
PIII-D-092
PI-E-111
PII-C-047
O-23
PII-C-025
PI-C-082

Onufriev M.	PI-C-071	Perovic M.	PI-C-076,
Oohashi T.	O-03		PI-C-080,
Opattova A.	PI-C-055,		PI-E-114
	PI-C-062	Pesti K.	PI-B-030,
	PI-E-113		PI-B-044
Ordyan N.	PI-C-074,	Petanjek Z.	PI-A-009,
Oroszová Z.	PIII-D-090		PII-F-105
	PI-D-099	Petrasek T.	PII-C-067,
Osada K.	PIII-C-074		PII-C-070
Otahal J.	PII-D-083,	Petrovic J.	PII-E-098
Ouda L.	PII-D-085	Petrovic M. M.	PI-B-019
	S-IX-2	Pfänder S.	PIII-C-044
Oyryer J.	PII-C-028	Phansuwan-Pujito P.	PI-A-004
Ozdemir S.	PII-C-019	Phillips K.	O-23
Ozerdem A.	PII-C-028	Philoxene B.	PII-D-092
Ozturk N.	PII-F-105	Philp A.	O-26
Paabo S.	PIII-D-091	Picanço-Diniz C. W.	PIII-C-072
Pachter I.	PI-C-050,	Pick C. G.	PI-C-063
Paiva D. S.	PIII-C-056	Pieter D.	PI-C-077
	S-VII-1	Pilchová I.	PIII-C-071
Palecek J.	PI-C-090	Pine D.	PI-A-011
Pandit A.	S-III-1,	Pineda-Mora N.	O-26
Pankratov Y.	S-III-4	Pinna A.	S-I-2
	PIII-B-024	Pinos H.	PII-E-096
Park K.	S-VIII-1	Pirone A.	S-XIV-4
Parpura V.	O-27	Piskunov A.	PI-E-112
Parra A.	PII-F-116	Pišťíková A.	PI-A-003
Passani M. B.	SI-III-5	Pivina S.	PI-E-113
Passante L.	O-16	Pivonkova H.	PIII-C-061
Passlick S.	PII-C-068	Planell J. A.	PII-A-012
Pastorek L.	S-I-4	Podlech J.	PII-C-026
Patrick C.	PIII-G-113	Podobinska M.	PI-A-015
Paulomi N.	S-IX-1,	Pohl M.	S-VII-2
Paulsen O.	S-IX-4	Polajnar M.	PIII-C-051
	PI-B-016,	Polak P.	PII-C-057
Pavel J.	PIII-D-090	Politis P. K.	PI-A-008
	PIII-C-068	Pollert E.	PI-C-097
Pavlikova M.	PI-C-079	Pometlova M.	PII-C-063
Pavlovičová M.	PI-C-095	Ponna S. K.	PII-C-073
Pecina-Slaus N.	PI-A-011,	Poon P.	PII-D-086,
Pedata F.	PIII-C-063,		PII-D-089
	PIII-C-069	Popelář J.	PII-D-082,
	S-V-4		PII-D-087,
Pekny M.	PI-B-041		PII-D-091,
Pellistri F.	PII-F-109		PII-D-093,
Peng L.	O-20		S-XIII-1
Penn A. C.	PIII-C-072	Popiolek-Barczyk K.	PII-C-039,
Pereira A.	PII-C-033		PII-C-041,
Pérez R.	PII-C-043		PIII-D-084,
Pérez-Domínguez M.			PIII-D-085
		Popova D.	PIII-B-017

Popovic M.	PI-C-094	Rigacci S.	PI-C-066
Potap'eva N. N.	PIII-B-001	Riolobos A. S.	PI-C-078
Prado M. A. M.	S-XVI-4	Ríos-Silva M.	O-26
Prado V. F.	S-XVI-2	Ripova D.	PI-C-047,
Prado-Alcalá R. A.	PIII-F-106		PI-C-056,
Prakash P.	PII-C-044		PI-C-059,
Prasko J.	PII-C-053		PII-C-048
Prčina M.	PII-C-069	Risitano R.	PII-C-035
Price J.	PI-C-082,	Rivera B. H.	PII-C-033
	PI-C-087	Robello M.	PI-B-041
	O-12,	Rockenstein E.	S-I-4
Profant D.	PII-D-088	Röder B.	S-X-3
Prostran M.	PIII-C-053	Rodríguez A.	PIII-C-054
Provenci G.	PII-F-116	Rodríguez D.	PIII-F-107
Prozorovski T.	PII-A-001,	Rodríguez J.	S-XI-2
	PIII-B-018	Rodríguez M.	PIII-C-057
	PII-E-100	Rodríguez-Arellano J.J.	S-XI-1
Pryazhnikov E.	PIII-D-084,	Rodríguez-Moreno A.	S-IX-1,
Przewlocka B.	PIII-D-085		S-IX-4
	PI-B-017,	Roelfsema P.	SI-I-1
Puchades M.	PI-B-029	Rohrer H.	PI-B-007
	PI-A-011,	Roitbak T.	S-V-2
	PIII-C-063	Rojas-Mancilla E.	PII-C-033,
	PIII-B-009		PII-C-036,
Pulido C.	O-12		PII-C-037
Pysanenko K.	PIII-B-016	Rojewska E.	PIII-D-084,
Pyza E.	PIII-C-035		PII-D-085
Quesnel Y.	PII-F-112,	Rokic M.	PI-B-045
Quevedo J.	PII-F-117	Rokyta R.	PII-C-064
	PII-F-110	Roman F.	S-II-4
Quiedeville A.	PIII-F-106	Romano A.	PIII-F-104
Quirarte G. L.	PII-C-075,	Romanyuk N.	PI-C-082,
Raab S.	PIII-C-044		PI-C-087
	PIII-C-071	Romariz S.	PI-C-050,
Racay P.	PIII-C-041		PIII-C-056
Radenovic L.	PI-B-024	Romero-Fernandez W.	S-I-1
Radzishhevsky I.	PI-E-113	Roos A.	PIII-C-040
Rakitskaya V.	PII-A-004	Roozendaal B.	PIII-F-106
Ram Tzur R.	PII-C-030	Rosario R.	PIII-C-079
Rambousek L.	S-XV-2	Rosenberg D.	PI-B-024
Ransohoff R.	S-XI-3	Rossi F.	PII-F-108,
Ransom B. R.	S-III-1		PIII-B-015,
Rasooli-Nejad A.	S-VI-4		SI-IV-1
Rawlins J. N. P.	PII-C-026	Roussa E.	O-04
Reddehase M. J.	PII-C-021	Rozhkova Z.	PIII-D-092
Reichenbach J. R.	O-13	Rubovitch V.	PI-C-063
Reid A.	PIII-B-024	Rübsamen R.	S-XIV-4
Rhyu I. J.	PIII-G-111	Rudkovskii M.	PI-B-026
Ricardo J.	PI-C-047,	Rusakov D.	S-VIII-3
Ricny J.	PI-C-059		
	S-II-3		
Riddell J.			

Rusnakova V.	PIII-C-059, PIII-C-060, PIII-C-061	Scharinger A. Schick B. Schiller J.	PII-D-077 S-XIV-4 PIII-D-091
Rüttiger L.	PII-D-082, S-XIII-1, S-XIV-4	Schiller Y. Schimmang T.	PIII-D-091 PII-D-082, S-XIII-1 S-XIV-2
Ruzdijic S.	PI-C-076, PI-E-114	Schlick B. Schlueter A.	PII-A-007
Růžička J.	PI-C-067, PI-C-088	Schmeisser M.	O-11, PII-A-015
Ryazantseva M.	PI-C-064	Schmidt A. M.	PIII-C-079
Rybalko N.	PII-D-093	Schmidt M.	PII-E-095
Rylski M.	PIII-C-050	Schmidt S.	PII-C-021
Saarma M.	S-IV-2	Schmitz D.	O-11
Saengjaroenatham C.	PI-B-027	Schneider G.	O-09
Sae-ung K.	PI-A-004	Schnell L.	EJN-1
Safonicheva M.	PIII-C-028	Schnizler M.	PIII-C-040
Safonicheva O.	PIII-C-028	Schoepf C. L.	PIII-B-004
Sah A.	PII-D-077	Schomburg E. D.	O-24
Saile A.	PI-D-101	Schönig K.	PII-C-067, PII-C-070, PII-D-077
Saint-Amour D.	PII-A-011, PII-C-031		S-XIV-2
Salingova B.	PI-C-060	Schöpff C. L.	PI-C-075
Salozhin S.	PI-C-053, PIII-B-012, PIII-B-013	Schreiberová A. Schrödl M. Schröter F.	O-04 PIII-B-018
Sanchez-Mejias E.	PI-C-065	Schultz C.	PII-A-007
Sanchez-Valdes L.	O-06	Schumann-Bard P.	PII-F-110
Sanchez-Varo R.	PI-C-065	Schütte L. D.	PII-A-001
Sanderson D. J.	S-VI-4	Schwab M. E.	EJN-1 , PII-C-067, PII-C-070
Sandvig A.	PIII-G-115		S-XIV-2
Sandvig I.	PIII-G-115		PIII-B-004
Sans N.	S-VI-1	Schwartz A.	S-XIV-4
Santiago-Rodríguez E.	PII-F-107	Schwarzer C.	PIII-C-052
Santos A. A.	PIII-C-072	Schweizer M.	O-24
Saponjic J.	PII-E-098	Scifo E.	PI-C-077
Sasajima H.	PI-D-099, PI-D-100	Sears T. A.	PIII-F-099
Sasi K.	PIII-C-081	Sebastiani A.	PI-B-038
Satiroglu-Tufan L.	PI-C-068, PI-C-093	Seckl J. R. Seeböhm G.	S-VI-4 PI-B-024
Saudargiene A.	PIII-B-014	Seeburg P. H.	S-1-4
Savtchenko L.	S-VIII-3	Segal C. A.	O-16
Scavone C.	PII-C-029	Segal D.	O-30
Schaefer C.	O-09	Seifert G.	PIII-C-041
Schaefer M. K.	PII-C-026	Seigers R.	PIII-C-067
Schäfer C.	O-16	Selakovic V.	PIII-F-106
Schäfer M. K.	PI-C-077	Sepramaniam S.	PIII-B-018
Schagen S. B.	O-30	Serafin N.	O-08
Schaible E.	PI-C-077	Sergeeva D.	PII-A-010
Scharff C.	PII-A-014	Sevc J. Shalina E.	

Shaltiel-Karyo R.	S-1-4	Smolina T.	PI-A-010, PII-A-010
Shan Q.	S-XVII-3	Sogn C. J. L.	PII-B-029
Shannon C.	PI-C-067	Solfrank B.	PII-E-095
Sharikadze N.	PI-C-096	Song S.-Y.	PI-C-073
Sharma M.	PIII-G-113	Soreq H.	S-XVI-1
Shatililo A.	PII-E-100	Sosial E.	PIII-B-003
Shenhar-Tsarfaty S.	S-XVI-1	Sosiedka I. S.	PI-D-102
Shifman S.	S-XVI-1	Soto-Covasich J.	O-26
Shimada A.	PI-A-014	Soukup D.	PI-C-090
Shimizu M.	PIII-G-116	Speer M.	O-04
Shimokawa N.	PII-E-102	Sperlagh B.	PI-B-044
Shin K. S.	PIII-B-024	Spilker C.	O-11
Shishkina G. T.	PI-E-117	Spitzweck B.	S-IV-4
Sibarov D. A.	PI-B-039, PII-C-020	Spray D.	S-III-2
	PII-C-070	Sprengel R.	S-VI-4
Sichova K.	S-XVII-2	Srikiatkachorn A.	PI-B-027, PII-E-101
Sieghart W.	O-05, PII-C-038	Srinivasan C.	PI-E-107
Silva A. P.	PIII-C-072	St John J.	O-01, O-10, S-II-2
Silva R. F. M.	PII-F-117		PIII-C-060
Silvestre C.	PIII-B-005	Stahlberg A.	PIII-C-041
Simms B. A.	PII-F-112	Stamenkovic S.	PIII-B-004
Simões L. R.	PI-C-077	Stanika R. I.	PIII-C-053
Simon K.	S-XIII-1	Stanojević M.	PI-C-094
Singer W.	PII-D-077	Stanton L. W.	PI-C-052
Singewald N.	PII-D-077	Stastna E.	PI-B-020
Sinnegger-Brauns M. J.		Stefani M.	PI-C-066
Siucinska E.	PIII-B-016	Stefanis L.	PIII-C-026
Sjostrom J.	S-IX-2	Stefanova N.	PIII-C-033
Skobeleva K.	PI-C-064	Steffens H.	O-24
Slamberova R.	PII-C-062, PII-C-063, PII-C-064	Steinhäuser C.	O-16
	PII-F-119	Stenberg L.	O-02
Slobodskoy-Plusnin J.	PI-C-056	Stensrud M. J.	PI-B-017
Slovakova M.	O-07, PI-C-085, PI-C-086, PI-C-089	Stepanichev M.	PI-C-053
Slovinska L.	PI-C-085, PI-C-086, PII-C-039, PII-C-041	Stergiopoulos A.	PI-A-008
	PI-B-020, PI-B-035, PI-B-040	Stern E. A.	PI-C-046
	PI-C-076, PI-C-080, PI-E-114	Stockmann M.	PII-C-075
Smiljanic K.	O-30	Stolyarova A.	PIII-F-107
	PI-C-058	Streit W.	S-XV-4
Smit A. B.		Striessnig J.	PII-D-077
Smolek T.		Strosznajder J.	PI-B-016
		Strunin D.	PIII-D-087
		Strutz-Seeböhm N.	PI-B-038
		Struzynska L.	PII-C-040
		Stubbusch J.	PI-A-007

Stuchlík A.	PI-A-003, PII-C-067, PII-C-070, PII-F-114, PIII-C-030, PIII-C-057, PIII-F-105, SI-II-4	Syková E. Syslová K. Szablowska- Gadomska I. Szabo A. K. Szabó B. Szárková A.	PIII-D-087, S-II-1 PII-C-050 PI-A-015 PI-B-030, PI-B-044 PII-A-008 PI-C-061, PII-F-113 PII-C-039, PII-C-041 PIII-F-101 PI-E-109 PIII-F-101 PIII-C-052 PI-A-002 PII-C-065 PII-D-088 PII-C-034 PII-C-058, PII-C-065 PII-C-068 PII-D-091 PIII-G-116 O-25 PII-E-104 PII-C-051 PI-A-013, PII-E-104, PIII-G-116 PI-D-105, PI-D-106 PIII-C-064 S-XVII-3 S-I-1 PIII-C-032 PII-C-055 PI-D-105 PI-A-012 PII-F-112 PII-C-050 PI-C-068, PI-C-093 O-09, S-V-3 PI-C-076, PI-C-080, PI-E-114 PII-C-067, PII-C-070
Su M.	PIII-C-034	Szárková A.	
Su Y. T.	PII-D-086		
Subramanium M.	PII-C-045	Szczesny E.	
Sukhareva E. V.	PI-E-117		
Suljic E.	PIII-D-089	Szegedi V.	
Sultana N.	PIII-B-004	Szereda-	
Sumova A.	PII-C-053	Przestaszewska M.	
Supornsilpchai W.	PI-B-027, PII-E-101	Szögi T. Szwajda A.	
Sur M.	S-XIII-3, SI-V-1	Ševc J. Šírová J.	
Suzuki K.	PI-A-005, PI-A-013	Škoch A. Škovierová H.	
Svartberg S.	PIII-C-071	Šlamberová R.	
Svitil P.	PIII-C-038		
Svoboda K.	PL-3	Šonka K.	
Svojanovska B.	PIII-F-105	Šuta D.	
Syka J.	O-12, PII-D-082, PII-D-083, PII-D-085, PII-D-087, PII-D-088, PII-D-089, PII-D-091, PII-D-093, PIII-G-119, SI-II-1, SI-V-1, SI-VII-1, S-XIII-1, S-XIII-4	Tainaka H. Tajuddin N. Takano Y. Takaoki K. Takeda K. Takeuchi K. Talian I. Talwar S. Tanganelli S. Tannús A. Tao Y. Tateno K. Tatsumi K. Teixeira A. L. Tejkalová H. Tekin V. Tennstaedt A. Tescic V. Tews B.	
Syková E.	O-03, PI-C-067, PI-C-084, PI-C-087, PI-C-088, PI-C-091, PI-C-097, PI-E-107, PIII-C-038, PIII-C-073,		

Thal S. C.	PI-C-077	Tvrdonova V.	PI-B-045
Thermos K.	SI-III-1	Tyynelä J.	PIII-C-052
Thongtan T.	PI-B-028	Tzour A.	PIII-B-003
Tibeykina M.	PII-E-100	Uchitel O. D.	PIII-C-066
Tikhonov D.	PI-B-031, PI-B-037, PIII-B-001	Udvardi P. T. Ueta Y.	O-11 PI-E-107, PIII-D-087
Tikhonova M.	PIII-C-031	Ulbert I.	PII-D-084
Tikhonova T. B.	PIII-B-001	Umezawa M.	PI-A-005, PI-A-013, PIII-G-116
Tillack K.	S-IV-4		
Tillein J.	S-X-2		
Tintëra J.	PII-D-088	Unsicker K.	PI-A-007
Tishkina A.	PI-E-112	Upton A. L.	S-IX-4
Tkachenko L.	PII-A-010	Uribe A.	PII-E-095
Tkacikova S.	PIII-C-064	Utsugi C.	PII-D-099
Tomas D.	PI-C-095	Uusi-Rauva K.	PIII-C-052
Tomek J.	PIII-G-119	Uzdensky A.	PI-B-026
Toptunov D.	PII-E-100	Vajrychova M.	PI-C-056
Torimitsu K.	PI-A-014	Valente M. F.	PIII-C-056
Toritsuka M.	PI-A-012	Valentino R. J.	S-XVIII-3
Toro C. A.	O-27	Valeš K.	PII-C-030, PII-F-114, PIII-C-030, PIII-F-105
Toronova N.	PI-A-010		
Torrão A.	PII-C-076		
Torres J. B.	PIII-C-072		
Torres-Andrade R.	O-26	van Bel F.	PIII-C-077
Trajkovic V.	PI-C-094, PIII-C-026	Van der Perren C. van Luijtelaar G.	PIII-C-035 PII-C-045
Trigo F.	PIII-B-009	Van Tellingen D.	O-30
Troost D.	PIII-C-040, PIII-C-042	van Tilborg G. van Velthoven C.	PIII-C-077 PIII-C-077
Trujillo-Estrada L.	PI-C-065	Vaněček V.	PI-C-091
Tsai C.-Y.	PIII-D-096	Varakina K.	PII-D-082
Tselykh T.	PII-C-032	Vargova L.	O-03, PIII-C-073
Tsenov G.	PIII-C-074		
Tsybko A.	O-29	Vasilev D.	PI-B-034
Tudor Jones A. A.	S-IX-2	Vasuta O. C.	PIII-B-010
Tufekci K. U.	PII-C-023, PII-C-042	Vekrellis K.	SI-IV-3
Tukaiev S. V.	PI-D-102	Velasco A.	PI-A-006
Tukhbatova G.	PI-C-053	Vellingiri B.	PII-C-045, PIII-C-081
Tukmachev D.	PI-C-091	Vergara-Castañeda E.	PII-C-043
Tumanova N.	PI-B-034	Verhaagen J.	PI-C-083
Tumova L.	PI-A-001	Verkhatsky A.	PI-E-107, PIII-D-087, S-VIII-2, S-XI-2
Tunali D.	PII-C-025		
Turecek R.	O-12, PIII-B-007		
Turk V.	PIII-C-051	Veselkina O. S.	PII-C-072
Turle-Lorenzo N.	PII-C-071	Vetrik M.	PI-C-087
Turner A.	SI-VI-2	Veverka M.	PI-C-097
Turnovcova K.	PI-C-097, PIII-C-038	Veverka P.	PI-C-097
		Viana L.	PIII-C-072

Vicovac Lj.	PI-C-080	Wong W. Q.	PI-C-052
Vidal R.	O-27	Wozny C.	S-XII-3
Vignes M.	S-II-4	Wu C. H.	PII-D-078
Vigont V.	PIII-C-036	Xilouri M.	PIII-C-026
Vilela M. C.	PII-F-112	Yajeya J.	PI-C-078
Viswanath B.	PIII-G-113	Yamafuji M.	S-XI-3
Vitorica J.	PI-C-065	Yamamuro K.	PI-A-012
Vizi E. S.	PI-B-022,	Yamasaki T.	PI-D-104
	PI-B-030	Yamashita Y.	PI-A-012
Vlček K.	PIII-C-057	Yanagita S.	PII-E-104,
Vojtechova I.	PII-C-067,		PII-F-115
	PII-C-070	Yapislar H.	PIII-C-058
Vollrath J. T.	PIII-C-042	Yasin B.	PIII-G-117
Vondrakova K.	PIII-C-074	Yepes F.	PII-C-031
Vorisek I.	PIII-C-073	Yisarakun W.	PI-B-028,
Vorobyeva A.	PI-C-071		PII-E-101
Vrajová M.	PII-C-065	Yoon K.	PII-A-017
Vukics K.	PI-B-042	Yoshida A.	PI-A-005,
Vyklický L.	O-17,		PI-A-013
	PI-B-020,	Yoshii K.	PI-D-103,
	PI-B-033,		PI-D-104,
	PI-B-035,		PI-D-105,
	PI-B-036,		PI-D-106
	PI-B-040,	Yoshikawa Y.	PI-A-005,
	S-VI-3		PI-A-013
Vyklický V.	O-17,	Yoshino H.	PI-A-012
	PI-B-020,	Yshii L. M.	PII-C-029
	PI-B-035,	Zablotskii V.	PI-C-091
	PI-B-036,	Zaccarella E.	PII-F-106
	PI-B-040	Zador A.	O-13
Wagner K.	PII-E-095	Zaitsev A.	O-14,
Wan I. L.	PII-D-086		PI-B-034,
Wanaka A.	PI-A-012		PI-B-037
Wang P.	PIII-C-034	Zakharova M.	PI-C-071
Wang Q.	S-XVII-3	Zalcman G.	PIII-F-104
Wang S. E.	PII-D-078	Zamponi G. W.	PIII-B-005
Wawrzyniak M.	PIII-B-008	Zapotocky M.	PI-E-107
Weber I.	PIII-C-029	Zavodská M.	PI-C-074
Wegener S.	O-11	Zelenka D.	PII-D-091
Weis J.	PIII-C-040,	Zemkova H.	PI-B-043,
	PIII-C-042		S-XVII-4
Wesierska M. J.	PIII-F-100	Zemova H.	PI-B-045
Widynska J.	PII-C-040	Zengin Türkmen A.	PIII-C-047
Wiedermann D.	S-V-3	Zepeda Rivera A.	PII-C-043
Wilmes T.	PIII-B-002	Zerovnik E.	PIII-C-051
Winklhofer K. F.	PII-C-073	Zhabko E.	PI-B-034
Witte D. W.	PII-C-021	Zhang Y.	S-IX-4
Wittner L.	PII-D-084	Zhen X.	PIII-C-065
Wolf L. K.	PII-F-111	Zheng K.	S-VIII-3
Wolosker H.	PI-B-024	Zhuravin I.	PI-B-034
Wong S.	O-28	Zhuravliova E.	PI-C-096

Zhvania M.	PII-A-016
Ziemińska E.	PII-C-040
Zima I. G.	PI-D-102
Zimina O.	PIII-C-036
Zion M.	PII-A-004
Zipp F.	PII-C-026
Zou Y. S.	PIII-C-079
Zubareva O.	PI-B-034
Zuccotti A.	PII-D-082,
	S-XIII-1,
	S-XIV-4
Zybura-Broda K.	PIII-C-050
Zychowska M.	PIII-D-084,
	PIII-D-085
Žilka N.	PI-C-049,
	PI-C-057,
	PI-C-058,
	S-XV-1
Žilková M.	PI-C-049,
	PI-C-058

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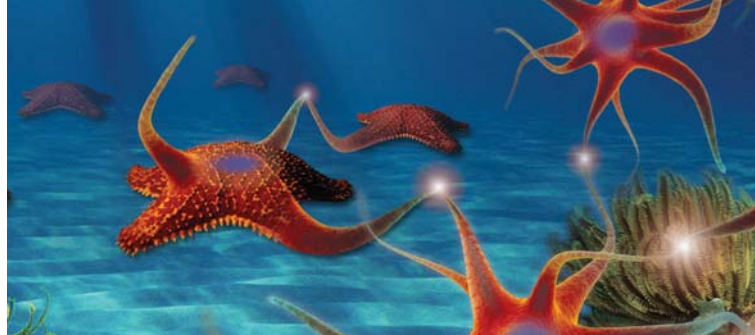
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Cayman Pharma s.r.o.

ul. Práce 657
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Czech Republic
Tel.: (+420) 315.664.387

Ing. Eliška Žížková

Sales Specialist
Tel.: (+420) 736 505 902
eliska.zizkova@caymanpharma.cz

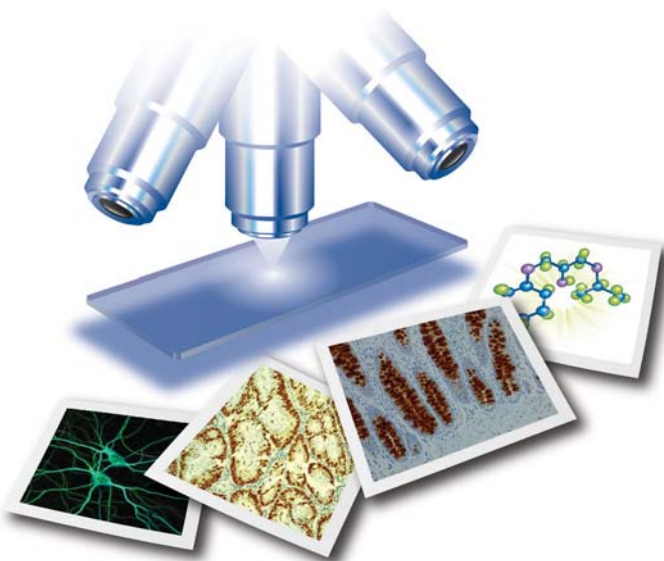

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