

Final report of the 7th International Symposium on Experimental and Clinical Neurobiology held on June 23-27, 2013 in Kosice, Slovakia, for International Society for Neurochemistry – ISN

7th International Symposium on Experimental and Clinical Neurobiology is one of the most important events in the field of Neurosciences in Slovakia. With its usually 3-year periodicity is already quite established in the calendars of neuroscientists, not only in Slovakia.

Organizers: The Symposium was organized by the **Institute of Neurobiology Slovak Academy of Sciences**. Co-organizing organizations: Slovak Society for Neuroscience, Institute of Neuroimmunology Slovak Academy of Sciences, Czech and Slovak Neurochemical Society, P. J. Safarik University in Kosice, and Jessenius Faculty of Medicine J. A. Comenius University in Martin.

Participations: We had **110 active participants** from all over the world. 50 participants were from abroad, from totally **12 countries**. Majority of participants came from Europe (Portugal, Spain, France, Ukraine, Czech republic, Hungary, Poland, Serbia, Slovenia), but we had also participants from USA and Kuwait. There were **31 oral** and **71 poster presentations**. Scientific programme was focused on latest findings in the research of neurodegenerative diseases, trauma and ischemia/reperfusion injury of the CNS, the molecular mechanisms of neurotoxicity and neuroprotection, and regenerative diseases (see Programme and Abstract Book). Thanks to generous support of the Symposium supporters and sponsors, the Organizing Committee was able to invite **11 invited guests**, internationally distinguished scientists in the field of Neurosciences. The Organizing Committee could also award totally **35 young scientists** (Young Investigator Awards), which covered all expenses in Slovakia for active participants – young scientists (see List of participants in Programme and Abstract Book). A Special Issue of Cellular and Molecular Neurobiology (IF=2,293) consisting of selected presentations of Symposium participants is prepared.

Evaluation: According the participants feedback, the scientific value of the conference, as well as social program and overall Symposium organization were very positively evaluated. As is apparent from the title of the Symposium, one of the goals was to link experimental science with clinical practice. For first time in the history of these symposia was included Clinical Section under participations of leading foreign and local neurologists, neurosurgeons and neurotherapists.

Publicity: The Symposium supporters were advertised on the Symposium WEB page (<http://www.neurobiology.sk/symposium/index.php/sponsorsexhibitors>), in on-line and printed Symposium materials (see Programme and Abstract Book), on News section of WEB page of the Slovak Academy of Sciences (http://www.sav.sk/index.php?doc=services-news&source_no=20&news_no=5010).

Social program: Besides high quality scientific programme, traditional parties – Get-together and Farewell party in the Tokaj region, with opera performance (G. Verdi – Rigoletto) were highly appreciated by all participants.

Financing: The Symposium could not be organized solely from the registration fees. It was financed from the resources obtained from supporters and sponsors. There were no institutional budget resources at all. Therefore, the ISN contribution was very important, substantial. Without such support it wouldn't be absolutely possible to organize conference of such scope and significance.

Final financial report: Financial contribution of 7000 USD from ISN-CC was used to cover the expenses for 1 invited speaker, and for 23 Young Investigator Award holders. The names and expenses of participants covered by ISN-CC funds are attached bellow.

List of 16 Young Investigator Award holders fully covered using ISN funds (Advanced graduate students)

1. **Czubowicz Kinga**, Mossakowski Medical Research Centre, PAS, Warsaw, Poland, Poster Session: Neurodegenerative Diseases; *Czubowicz K, Strosznajder RP.*: Sphingosine-1-phosphate and transcription regulation: from oxidative stress to neuronal death in ceramide toxicity. Implications for neurodegenerative diseases.
2. **Cierny Daniel, MD**, Jessenius Faculty of Medicine, Comenius University, Martin, Slovakia, Poster Session: Clinical Neuroscience; *Cierny D, Michalik J, Dobrota D, Lehotsky J.*: Association study of the inflammatory gene polymorphisms in the clinical course of multiple sclerosis.
3. **Devaux Stephanie**, University of Lille, Lille, France, Poster Session: Plasticity and Regenerability in the CNS; *Devaux S, Cizkova D, Marrec-Croq FL, Franck J, Slovinska L, Grulova I, Lefebvre Ch, Fournier I, Salzet M.*: Proteomic analyses along the rostro-caudal axis of injured spinal cord.
4. **Goncharova Kateryna**, Bogomoletz Institute of Physiology, Kiev, Ukraine, Poster Session: Plasticity and Regenerability in the CNS; *Goncharova K, Osadchenko I, Kovalenko T, Pierzynowski S, Skibo G.*: Synaptic plasticity in aged brain.
5. **Jevtic Gordana**, School of Medicine, University of Belgrade, Belgrade, Serbia, Poster Session: Cell signalling, neurotoxicity and neuroprotection; *Jevtic G, Radonjic N, Velimirovic M, Stojkovic T, Petronijevic N.*: The expression of neuronal and glial markers in animal models of schizophrenia.
6. **Khomula Eugen**, International Center of Molecular Physiology, NASU, Kiev, Ukraine, Poster Session: Cell signalling, neurotoxicity and neuroprotection; *Khomula E, Borisyuk A, Viatchenko-Karpinski V, Belan P, Voitenko N.*: Specific changes in slow and fast T-type calcium currents are associated with positive and negative types of STZ-diabetic neuropathy.
7. **Knapp Levente**, University of Szeged, Szeged, Hungary, Poster Session: Cell signalling, neurotoxicity and neuroprotection; *Knapp L, Kocsis K, Kovacs-Öller T, Gellert L, Varga D, Ozsvar A, Kis Z, Völgyi B, Toldi J, Farkas T.*: Mechanisms involved in kainic acid-induced postconditioning after global ischemia in rat hippocampus.
8. **Kocsis Kitti**, University of Szeged, Szeged, Hungary, Poster Session: Cell signalling, neurotoxicity and neuroprotection; *Kocsis K, Knapp L, Kovacs-Öller T, Gellert L, Olah G, Heredi J, Menyhart A, Kis Zs, Völgyi B, Toldi J, Farkas T.*: Combination of oxaloacetate and acetyl-L-carnitine posttreatment prevents functional impairment in the hippocampus after global hypoperfusion.
9. **Lubina-Dabrowska Natalia**, Military Institute of Medicine, Warsaw, Poland, Poster Session: Cell signalling, neurotoxicity and neuroprotection; *Lubina-Dabrowska N, Tomczykiewicz K, Langfort J, Stepien A, Chalimoniuk M.*: Effect of interferon beta on the regulation of NO/GC/cGMP pathway in brain cortex rats with experimental autoimmune encephalomyelitis (EAE).
10. **Petras Martin**, Jessenius Faculty of Medicine, Comenius University, Martin, Slovakia, Poster Session: Traumatic and ischemia/reperfusion injury of the CNS; *Petras M, Kovalska M, Tatarkova Z, Lehotsky J, Drgova A.*: Effect of hyperhomocysteinemia on the gene expression of

the nervous tissue antioxidant enzymes after induced ischemic tolerance.

11. **Pilchova Ivana**, Jessenius Faculty of Medicine, Comenius University, Martin, Slovakia, Poster Session: Traumatic and ischemia/reperfusion injury of the CNS; *Pilchova I, Klacanova K, Stefanikova A, Klikova K, Dobrota D, Racay P.*: Global brain ischemia induced disturbances in ERK1/2 signalling and 26S proteasomal complex do not have impact on the level of selected proteins of Bcl-2 family.
12. **Pyszko Joanna**, Medical Research Centre, PAS, Warsaw, Poland, Poster Session: Neurodegenerative Diseases, *Pyszko J, Strosznajder JB.*: The role of sphingosine kinases-1/sphingosino-1-phosphate in experimental model of Parkinson disease.
13. **Stojkovic Tihomir**, School of Medicine, University of Belgrade, Belgrade, Serbia, Poster Session: Traumatic and ischemia/reperfusion injury of the CNS; *Stojkovic T, Velimirovic M, Jevtic G, Nikolic T, Radonjic N, Petronijevic N.*: Effects of pretreatment with vitamins d and c on the brain glutathione metabolism in gerbils subjected to transient global cerebral ischemia.
14. **Tymchenko Svitlana**, Crimea State Medical University, Simferopol, Ukraine, Poster Session: Clinical Neuroscience, *Tymchenko S, Negerish A, Evstafyeva E.*: Functional antagonism between zinc, copper and lead related to heart rate variability.
15. **Velimirovic Milica, MD**, School of Medicine, University of Belgrade, Belgrade, Serbia, Poster Session: Traumatic and ischemia/reperfusion injury of the CNS; *Velimirovic M, Jevtic G, Stojkovic T, Radonjic N, Nikolic T, Petronijevic N.*: The effects of vitamin D3 and dehydroascorbic acid on oxidative stress parameters in the brain of gerbils exposed to transient global cerebral ischemia.
16. **Wilkaniec Anna**, Mossakowski Medical Rresearch Centre, PAS, Warsaw, Poland, Poster Session: Neurodegenerative Diseases, *Wilkaniec A, Czapski GA, Adamczyk A.*: The role of purinergic receptors in alpha synuclein mediated mitochondrial dysfunction and dopaminergic cell death.

List of 6 Young Investigator Award holders with Registration fees covered using ISN funds
(Advanced graduate students) (Accommodation was paid from other sources or they did not need it)

1. **Blasko Juraj**, Institute of Neurobiology, SAS, Kosice, Slovakia, Poster Session: Plasticity and Regenerability in the CNS; *Blasko J, Lievajova K, Martoncikova M, Racekova E.*: Morphological basis for potential neuronal regulation of postnatal neurogenesis in the rat rostral migratory stream.
2. **Gedrova Stefania**, Institute of Neurobiology, SAS, Kosice, Slovakia, Poster Session: Traumatic and ischemia/reperfusion injury of the CNS; *Gedrova S, Galik J, Dubravcik M, Lievajova K, Zavodska M, Schreiberova A, Karasova M, Lukacova N.*: Porcine model of compression spinal cord injury and possible treatment therapies.
3. **Hvizdosova Natalia, Dr.**, Faculty of Medicine, P. J. Safarik University, Kosice, Slovakia, Poster Session: Plasticity and Regenerability in the CNS; *Hvizdosova N, Tomasova L, Bolekova A, Kolesar D, Kluchova D.*: Postnatal development of nitrergic neurons in the rat prefrontal cortex.
4. **Kucharikova Andrea**, Institute of Neurobiology, SAS, Kosice, Slovakia, Poster Session: Traumatic and ischemia/reperfusion injury of the CNS; *Kucharikova A, Hricova L, Schreiberova A, Gedrova S, Zavodska M, Lukacova N.*: The effect of repeated baclofen treatment on motor

activity and mnos-immunoreactivity in medullar gigantocellular reticular nuclei and in motoneurons of lumbar spinal cord in rats after spinal cord injury.

5. **Kuricova Maria**, University of Veterinary Medicine and Pharmacy, Kosice, Slovakia, Poster Session: Traumatic and ischemia/reperfusion injury of the CNS; *Kuricova M, Ledecy V, Cizkova D, Grulova I, Slovinska L, Nagyova M.*: Inosine administration in rats with spinal cord injury.
6. **Kutna Viera**, Faculty of Science, P. J. Safarik University, Kosice, Slovakia, Poster Session: Plasticity and Regenerability in the CNS; *Kutna V, Sevc J, Matiasova A, Gombalova Z, Daxnerova Z.*: Enigmatic cerebrospinal fluid-contacting neurons arise even after the termination of neurogenesis in the spinal cord of rat during the embryonic development and retain their immature-like characteristics until adulthood.

1 Young Investigator Award holder with registration fee and partially covered travel expense using ISN funds (Young postdoctoral fellows) (Accommodation was paid from other sources)

Scholtzova Henrieta, PhD, NYU School of Medicine, New York, USA, Poster Session: Neurodegenerative Diseases, *Scholtzova H, Nehete PN, Nehete BP, Holmes A, Sabado R, Williams LE, Wisniewski T.*: Testing of innate immunity stimulation via tlr9 on cerebral amyloid angiopathy using non-human primates.

1 Invited speaker who's expenses were fully covered using ISN funds:

Saavedra Juan M, Prof. MD, Section on Pharmacology, NIMH, Bethesda, USA, Session: Traumatic and ischemia/reperfusion injury of the CNS I, *Juan M Saavedra*: Angiotensin II AT₁ receptor blockers as treatments for inflammatory brain disorders.

EXPENSES CALCULATION:

• Registration fees and accommodation for 16 Young Investigator Award holders:

Registration fee		100 USD	
Accommodation (Colloseo Residence hotel)	23 USD/night	92 USD / 4 nights	
TOTAL (14 holders)	14 x 192 USD =	2 688 USD	
Registration fee		100 USD	
Accommodation (hotel Akadémia)	33 USD/night	132 USD / 4 nights	
TOTAL (2 holders)	2 x 232 USD =	464 USD	
TOTAL (16 holders)		2688 + 464 USD =	3 152 USD

• Registration fee for 6 Young Investigator Award holder:

Registration fee		100 USD	
TOTAL (1 holder)	6 x 100 USD =	600 USD	

• Registration fee and partially covered travel expenses for 1 Young Investigator Award holder:

Registration fee		200 USD	
Partially covered travel expense (Airfare)		200 USD	
TOTAL (1 holder)	1 x 400 USD =	400 USD	

• Expenses for Invited speaker prof. Juan M Saavedra (USD):

Registration fee		200 USD	
Accommodation (Hotel Ambassador)	88 USD/night	352 USD/4 nights	

Travel expenses (Airfare)	2199 USD	
TOTAL (1 invited speaker)	1 x 2751 USD =	2751 USD
• <u>Administrative expenses (postal, phone, stationery)</u>		97 USD

TOTAL EXPENSES covered by ISN:	7 000 USD
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The EUR/USD conversion rate (1 EUR = 1.3341 USD) was calculated from actual rate of money transfer.

Young Investigators Award covered:

- *Registration fee*
- *Accommodation for 4 nights*

Registration fee covered:

- *Preparation and printing of Programme and Abstract Book*
- *Preparation and update of Symposium WEB site*
- *Social events – Get-together and Farewell Parties, Opera performance*
- *Lunch per each day*
- *Refreshments (coffee breaks)*

Dear members of ISN Conference Committee, thank you for your generosity and support of our Symposium. Your support significantly contributed to success of the Symposium, and it is highly appreciated! Thank you very much!

Kosice, 24. 7. 2013

Jaroslav PAVEL, PhD
Chair, 7ISECN Organizing Committee