

Report on the 5th Pannonian Symposium on CNS Injury

Supported by the ISN Small Conference Grant

On behalf of the Organizing Committee of the Symposium I would like to express our gratitude to the ISN Conference Committee for supporting our conference.

While handing over our warmest wishes and thanks we also would like to briefly report on our meeting and the use of the funds generously donated by ISN.

The Symposium was held on the 14-15th of May, in Hotel Palatinus, Pécs, Hungary.

On the *13th of May* those who were interested had an opportunity to attend the hand-over of the new 1,5T whole-body MRI machine at the Pecs Diagnostic Center accompanied by a report on the various scientific projects and grants associated with the 3T MRI exclusively dedicated to R&D at the Diagnostic Center.

Invited speakers met an informal dinner where they were able to discuss forthcoming tasks including the role of the selected chairpersons.

The Symposium attracted almost 160 participants including more than 30 invited speakers from Europe and the United States; the participants arrived from a record number of countries, representing 14 nations and 4 continents. Altogether 21 poster presentations and 32 oral presentations were held, in 2 poster sessions and 7 oral sessions chaired by a mixed chair-structure of one international and one Hungarian expert/session.

Abstracts have been published in the *Ideggyógyászati Szemle/Clinical Neuroscience*, a journal also listed in PubMed.

In an attempt to provide a brief summary of the Symposium each session will be reviewed briefly.

I. "SAVE WHAT CAN BE SAVED"

EGT / Norwegian Financial Mechanism

0114/NA/2008-3/ÓP-9 VSZ.

**APPLIED NEUROLOGICAL RESEARCH
USING HIGH-FIELD MAGNETIC RESONANCE IMAGING**

This session provided an introduction to the bulk of research and clinical information gained by state of the art tools of imaging including data on the metabolic alterations following traumatic

brain injury (TBI) as well as tractography (diffusion tensor imaging) and susceptibility weighted imaging in experimental and clinical analysis of TBI of various severity interfaced with data on cognitive follow-up.

II-III. EXPERIMENTAL THERAPY OF TRAUMATIC BRAIN AND SPINAL CORD INJURY

This session aimed to analyse various aspects of neuronal degeneration involving the soma, axons and synaptic structures in a widespread series of animal strains (including transgenic animals) and models (including focal, diffuse and blast injury). Also, a set of therapeutic interventions involving estrogen and particularly its' analogues specifically discussing the "magic bullet" approach were also presented.

IV. INTRACEREBRAL COMPARTMENTS AND BARRIERS: THE CEREBRAL FLUID HOMEOSTASIS

This session missed its' usual contributor, Professor Marmarou, who has been remembered both at the website and the opening ceremony where Professor John T. Povlishock, Co-Chair of the Organizing Committee reiterated Professor Marmarous's carrier and contribution to the progress of science in developing countries including the success of the First Pannonian Symposium.

The presentations summarized novel findings on cerebral edema in experimental models of TBI as well as their application in clinical practice including summary of patho-biologically driven diagnostic tools and novel therapeutic strategies.

V. SPECIAL TOPICS IN CLINICAL CARE FOR TBI

Various aspects of guideline-development in mild and moderate as well as severe TBI were discussed and reviews on the management of penetrating head injury, craniocervical trauma were presented. The role of therapeutic hypothermia and hyperoxia were also discussed.

VI. CLINICAL STUDY DESIGN-CURRENT CLINICAL STUDIES IN CNS INJURY OF VARIOUS ORIGIN

Basic problems of clinical study design and the bench-to-bedside approach had been discussed, introducing novel clinical trials aimed at the control of intracranial pressure and the extent of intracranial hematomas.

VII. BIOMARKERS AND THEIR ROLE IN NEUROMONITORING

The last oral session summarized contemporary knowledge on the role of biomarkers in clinical decision-making while also focusing on the role and methods of outcome prediction at the clinical practice.

Besides the oral sessions posters focusing on CNS injury of various origin were also toured and discussed (see attached program).

Upon the success of the scientific program and social events associated with Pécs 2010-Europe's Capital of Culture festivities the Organizing Committee has already received requests and support for the initiation of the 6th Symposium on CNS Injury.

The financial support provided by the ISN was used for:

- Registration fee of 11 ISN awarded participants, including:

Lucia Merlo	Italy
Andrej Desenica	Croatia
Guy Elor	Hungary
Gábor Hutóczki	Hungary
Dávid Kis	Hungary
Sarun Koirala	Nepal
Viktor Kővári	Hungary
Sergej Marasanov	Croatia
Péter Olivér Nagy	Hungary
Dávid Nagy	Hungary
Luca Denaro	Italy

- their expenses (including registration /11x100USD, in sum 1100USD and accommodation /33 nights for 70USD each, in sum 2310 USD);
some of the expenses of the invited speakers (contribution to their accommodation) has been paid from the left over of the ISN grant

(In sum: 4500USD has been invoiced on behalf of/in conjunction with ISN support)

Total expenses of the meeting reached 78.000 USD and the income from sponsorship, grants and funds as well as registration reached 69.000 USD, the debt was balanced by the Olivecrona Foundation of the Department of Neurosurgery).

Attached please find:

- 1., Complete program booklet (with sponsor list on pg. 22-23) including the list of ISN-fellows (pg 21)
- 2., Flyer of the meeting
- 3., List of participants
- 4., Representative pictures of groups of participants

Again, many thanks for the support of the ISN which again made us capable of organizing our Symposium.

Yours truly,

Andras Buki

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