7th Pannonian Symposium on Central Nervous System Injury

30 August – 1 September 2017, Pécs, Hungary
További információ:
Lilly Hungária Kft.
1075 Budapest, Madách I. u. 13–14. Tel.: +36-1/328-5100
www.lilly.hu

The first Pannonian Symposium on CNS Injury in 2000 sought to provide a unique environment for evaluation of translational research in traumatic brain injury, a pioneering concept at that time.

Contemporary thought now appreciates that communication between basic scientists and clinicians is essential to improve the relevance and impact of basic science discovery as well as the quality of patient care and management - a major goal that the Pannonian symposia has embraced for more than 15 years.

Traditions can be measured in decades as well as in centuries. This year the Pannonian Symposium is linked to celebration of the 650th anniversary of the founding of the University of Pécs, one of the first universities in Europe, and currently a comprehensive university serving over 30,000 Hungarian and international students.

Appreciating the past – but looking to the future – we embrace this premise as the motto of the 7th Pannonian Symposium on Central Nervous System Injury, an event also linked to the State of Hungarian Science meeting on the 1st of September. The Pannonian Symposium will herald this large scale scientific meeting that will include the National Brain Program, launched and financed by the Government of Hungary.

Presentations from worldwide experts on brain injury research with a focus on pathobiology and applied clinical research as well as patient care should help contribute to a better understanding of and ultimately, better treatments for our brain-injured population.

The organizers believe that – like our previous Pannonian conferences – this symposium will be highly informative and will inspire collaborative efforts in various areas of research focusing on CNS injury and repair.

The host city of Pécs harbors a special medieval atmosphere, with the majority of the city included in the World’s Cultural Heritage designation (UNESCO). Pécs is also a colorful and exciting Central-European city that served as the European Capital of Culture in 2010.

As hosts of this symposium we look forward to the 17th anniversary of our first meeting, to welcome you again to Pécs, anticipating that this meeting will again be an academic and social success, while commemorating the founding of our University!

András Büki
M.D., Ph.D., D.Sc.

John T. Povlishock
M.D., Ph.D.

Tamás Dóczi
M.D., Ph.D., D.Sc.
PRACTICAL INFORMATION

CONGRESS VENUE

University of Pécs – Szentágothai Research Centre (20, Ifjúság street)

CHAIR OF THE ORGANIZING COMMITTEE

• **András Büki**, M.D., Ph.D., D.Sc.
  Chair of the Organizing Committee
  Professor and Chair Department of Neurosurgery, Pecs University, Pecs, Hungary
  Past-President of the International Neurotrauma Society
  Secretary of the Hungarian Neurosurgical Society
  Member of the Hungarian College of Neurosurgeons
  Board Member of the European Brain Injury Consortium

• **Prof. John T. Povlishock**, M.D., Ph.D.
  Co-chair of the Organizing Committee
  Professor and Chair, Department of Anatomy and Neurobiology
  Medical College of Virginia Campus of Virginia Commonwealth University
  Director, Commonwealth Center for the Study of Brain Injury
  Editor-in-Chief, Journal of Neurotrauma

• **Prof. Tamás Dóczi**, M.D., Ph.D., D.Sc.
  Co-chair of the Organizing Committee
  Professor Department of Neurosurgery, Pecs University, Pecs, Hungary
  Member of the Hungarian Academy of Sciences

CONGRESS BUREAU

Partners Pécs Kft. • E-mail: cns@pcongress.hu • [www.pcongress.hu](http://www.pcongress.hu)

INFORMATION/REGISTRATION DESK

 Opening time on 30th August: 07.15–18.00
 Opening time on 31st August: 08.00–18.00

SOCIAL PROGRAMME

• **29th August** Welcome reception at Hotel Makár
• **30th August** Gala Dinner Pezsgőház at 19:30
  (bus departs from Hotel Makár at 19:15)
• **30th August** Exploring city Pécs for accompanist
  (bus departs from Szentágothai Research Centre at 13:00)
• **31st August** Wine dinner at Tenkes Csárda 20:00
  (bus departs from Hotel Makár at 19:00)
PRACTICAL INFORMATION

PARKING

Parking is possible in Ifjúság útja 30 next to the Szentágothai János Research Centre Pécs for 2000 HUF/day/car or 160 HUF/hour/car (VAT included) or free in the street next to Hotel Makár.

COFFEE BREAK

During the breaks between the scientific presentations, coffee, soft drinks, mineral water as well as savoury and sweet biscuites will be served to the congress participants.

LUNCH

The lunch will be served in the restaurant of the hotel. On 30th August: 12:05–13:00, on 31st August: 12:10–13:10.

BADGES AND TICKETS

All participants are requested to wear their badges throughout the scientific programmes, only with this badge you can participate on coffee and lunch breaks. Those registered for the Gala Dinner should bring their ticket, as it is a precondition of participation. Thank you for your understanding.

PRESENTATIONS

The length of the oral lectures is 10, 15 or 20 minutes. There will be a counter showing the time elapsed on the screen and it will produce a quiet sound signal one minute before the time available elapses to remind the lecturer to finish. Please hand over the material of your lecture with your name and the title of your lecture added to the technical team working in the lecture room, either in the morning or in the break between sessions.

POSTERS

Posters will be displayed on e-poster systems at the main hall next to the exhibitors – according to the assignment number found in the programme brochure. Presenters of posters are kindly asked to attend at the two e-poster systems and display their presentation.
TUESDAY, 29th August 2017

19:00 – 22:00  WELCOME RECEPTION AT HOTEL MAKÁR
FACULTY DINNER

WEDNESDAY, 30th August 2017
Szentágothai Research Centre

08:00 – 08:30  Opening ceremony
Prof. Dr. József Bódis (Rector of University Pécs)
Dr. John T. Povlishock (Professor and Chair, Department of Neurobiology, Virginia Commonwealth University)
Prof. Dr. Tamás Dóczi (Professor and Emeritus Chair at Pécs University Department of Neurosurgery, Member of the Hungarian Academy of Sciences)
Balázs Fürjes (Managing Director of EIT Health Innostar)

THE GLOBAL BURDEN OF TRAUMATIC BRAIN INJURY
Chair: John T. Povlishock – Tamás Dóczi

08:30 – 08:50  THE GLOBAL EPIDEMIOLOGY OF TRAUMATIC BRAIN INJURY – WHERE CAN WE GO, WHAT EFFORTS SHOULD BE MADE?
Andrew I. R. Maas (Antwerp, Belgium)

08:50 – 09:10  EPIDEMIOLOGY OF TRAUMATIC BRAIN INJURY IN CHINA AND ASIA
Guoyi Gao (Shanghai, China)

09:10 – 09:30  OUTCOME ASSESSMENT FOLLOWING TBI
Nicole von Steinbüchel-Rheinwall (Göttingen, Germany)

09:30 – 09:50  EPIDEMIOLOGY OF TRAUMATIC BRAIN INJURY IN AFRICA
Anthony Figaji (Cape Town, South Africa)

09:50 – 10:00  Discussion

10:00 – 10:10  Coffee break
GLIAL, AXONAL AND VASCULAR PATHOLOGY IN TBI
Chair: Andrew I. R. Maas – András Büki

10:10 – 10:30 THE ROLE OF OLGODENDROGLIA IN TBI
Niklas Marklund (Lund, Sweden)

10:30 – 10:50 ADVANCED NEUROIMAGING OF DIFFUSE AXONAL INJURY
Alexander Potapov (Moscow, Russia)

10:50 – 11:05 VASCULAR PATHOLOGY IN TRAUMATIC BRAIN INJURY
Ákos Koller (Pécs, Budapest, Hungary)

11:05 – 11:25 DIFFUSE BRAIN INJURY – NEURONS, AXONS, VASCULAR NETWORKS. WHAT CAN WE LEARN FROM BASIC SCIENCE?
John T. Povlishock (Richmond, Virginia, United States)

11:25 – 11:45 THE NEUROPATHOLOGICAL APPROACH TO DIFFUSE BRAIN INJURY
William Stewart (Glasgow, Scotland, United Kingdom)

11:45 – 12:05 Discussion

12:05 – 13:00 Lunch

TRANSLATION RESEARCH
– MYTH OR THE FUTURE OF SCIENCE
Chair: Ronald L. Hayes – Ákos Koller

13:05 – 13:25 TRANSLATIONAL RESEARCH – WHERE ARE WE?
WHERE DO WE GO FROM THE POINT OF THE CLINICIAN?
Alex Valadka (Richmond, Virginia, United States)

13:25 – 13:45 REVIEW TALK ON THE OPERATION BRAIN TRAUMA THERAPY PROGRAM: STANDARDISATION OF PRECLINICAL SCIENCES IN NEUROTRAUMA RESEARCH
Helen M. Bramlett (Miami, Florida, United States)

13:45 – 14:05 TRANSLATIONAL RESEARCH – WHERE ARE WE AND WHERE DO WE GO FROM THE POINT OF THE BASIC SCIENTIST?
Robert Vink (Adelaide, Australia)

14:05 – 14:25 THE FUTURE OF TRANSLATIONAL RESEARCH IN EUROPE.
WHAT DID WE ACHIEVE? WHERE DO WE GO?
Marten Risling (Stockholm, Sweden)

14:25 – 14:45 Discussion
CLINICAL TRIALS AND GRANTS IN TBI
Chair: Peter Hutchinson – Péter Tóth

14:45 – 15:05 A REVIEW OF DRUG TRIALS AND THE PERSPECTIVE OF PHARMACEUTICAL RESEARCH IN THE FIELD OF NEUROTRAUMA
Andreas Unterberg (Heidelberg, Germany)

15:05 – 15:25 EPO DOES NOT ALTER SERUM PROFILES OF UCH-L1 AND PNF-H
Cristina Morganti-Kossmann (Melbourne, Australia)

15:25 – 15:45 IS COOLING STILL COOL?
Martin Smrčka (Brno, Czech Republic)

15:45 – 16:05 SURGICAL TRIALS IN THE FIELD OF TRAUMATIC BRAIN INJURY – RECENT DEVELOPMENTS AND FUTURE PERSPECTIVE
Peter Hutchinson (Cambridge, United Kingdom)

16:05 – 16:15 TBI DATABASES – AN INVALUABLE RESOURCE OF BIG DATA?
Dénes V. Ágoston (Bethesda, Maryland, United States)

16:15 – 16:30 Discussion

16:30 – 18:00 Coffee break

16:30 – 18:00 POSTER SESSION
Presentation of the best abstracts

16:00 – 17:00 General Assembly of Hungarian Neurosurgical Society

17:00 – 18:00 INTS Board Meeting

19:30 – 22:30 GALA DINNER AT PEZSGŐHÁZ
Bus departs from Hotel Makár at 19:15
THURSDAY, 31st August 2017  
Szentágothai Research Centre

**BIOMARKERS OF TBI**  
Chair: Niklas Marklund – Endre Czeiter

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:00 – 08:20</td>
<td>BIOMARKERS IN THE EARLY DIAGNOSIS OF TRAUMATIC BRAIN INJURY, THE SCANDINAVIAN EXPERIENCE</td>
<td>Bo-Michael Bellander</td>
<td>(Stockholm, Sweden)</td>
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<td>08:20 – 08:40</td>
<td>SUBACUTE AND CHRONIC BIOMARKERS IN TRAUMATIC BRAIN INJURY</td>
<td>Kevin W. Wang</td>
<td>(Gainesville, Alachua County, Florida, United States)</td>
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<td>08:40 – 09:00</td>
<td>RESULTS AND FUTURE PERSPECTIVE OF BIOMARKER RESEARCH UNDER THE FRAMEWORK OF THE INTBIR COLLABORATION</td>
<td>Ramon Diaz-Arrastia</td>
<td>(Philadelphia, Pennsylvania, United States)</td>
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<tr>
<td>09:20 – 09:40</td>
<td>HARMONISATION AND SYSTEMATIC APPROACH TO THE SOPHISTICATED USE OF BIOMARKERS IN THE FIELD OF TRAUMATIC BRAIN INJURY</td>
<td>Stefania Mondello</td>
<td>(Messina, Italy)</td>
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<td>09:40 – 09:50</td>
<td>Discussion</td>
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<td>09:50 – 10:10</td>
<td>Coffee break</td>
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**CONTEMPORARY CLINICAL CARE FOR SCI**  
Chair: Randall Chesnut – Robert Veres

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<tr>
<td>10:10 – 10:30</td>
<td>CONTEMPORARY CARE FOR ACUTE SPINE INJURY: REVIEW OF THE AVAILABLE GUIDELINES</td>
<td>Oliver W. Sakowitz</td>
<td>(Ludwigsburg, Germany)</td>
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<td>10:30 – 10:50</td>
<td>NEUROMODULATION OF THE SPINAL CORD TO RECOVER MOTOR AND AUTONOMIC FUNCTION</td>
<td>Reggie V. Edgerton</td>
<td>(California, Los Angeles, United States)</td>
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<tr>
<td>10:50 – 11:10</td>
<td>CONTEMPORARY ACHIEVEMENTS IN NEURO REHABILITATION: WHAT CAN WE OFFER THE AVERAGE PATIENT AND WHAT IS THE FUTURE?</td>
<td>W. Dalton Dietrich</td>
<td>(Miami, Florida, United States)</td>
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<tr>
<td>11:10 – 11:25</td>
<td>CONTEMPORARY CARE OF CERVICAL SPINE INJURIES</td>
<td>Róbert Veres</td>
<td>(Budapest, Hungary)</td>
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## Scientific Programme (31st Aug)

### 11:25 – 11:40
**Minimally Invasive Spine Surgery**
Attila Schwarcz *(Pécs, Hungary)*

### 11:40 – 12:00
**The Future of Spine Surgery – Is There a Role for Neurosurgeons?**
Michael Fehlings *(Toronto, Canada)*

### 12:00 – 12:10
**Discussion**

### 12:10 – 13:10
- **Lunch**
- **INTS Board Meeting** *(2nd Floor A214)*

### Contemporary Clinical Care for TBI
Chair: *Antonino Germano – Lajos Bogár*

### 13:10 – 13:30
**From the Scene Till the OR – Assessing Best Practices for the First 60 Minutes of TBI Care**
Mark Wilson *(London, United Kingdom)*

### 13:30 – 13:50
**Invasive and Non-Invasive Approaches for Neuro Monitoring at the ICU – My Vision for the Forthcoming 25 Years**
Marek Czosnyka *(Cambridge, United Kingdom)*

### 13:50 – 14:10
**Altered Haemostasis: And Unrecognized and Under Treated Player in the Outcome of Traumatic Brain Injury**
Marc Maegele *(Köl n, Germany)*

### 14:10 – 14:25
**Neuroimaging in Severe Traumatic Brain Injury**
Dávid Kiss *(Szeged, Hungary)*

### 14:25 – 14:40
**State of the Art MRI Tools in the Neurosurgical Care – What Can We Expect from PET MR?**
Tamás Dóczi *(Pécs, Hungary)*

### 14:40 – 15:00
**Is There a Routine Anaesthesia for Severe Head Injury with Particularly Emphasise on Polytrauma Cases?**
Steven Robicsek *(Gainesville, Florida, United States)*

### 15:00 – 15:20
**Contemporary Tools of Neuro Monitoring at the ICU. What is For Routine and What is For Research?**
Nino Stocchetti *(Milan, Italy)*

### 15:20 – 15:30
**Discussion**

### 15:30 – 15:50
Coffee break
ORGANIZATION OF CARE
– GUIDELINES AND THEIR APPLICATION
Chair: Nino Stocchetti – Michael Fehlings

15:50 – 16:10  ORGANISATION OF NEUROTRAUMA SYSTEMS IN EUROPE WITH PARTICULAR EMPHASIS ON THE TARN DATABASE AND NICE
Fiona Lecky (Manchester, United Kingdom)

16:10 – 16:30  ORGANISATION OF THE NEUROTRAUMA SYSTEM IN JAPAN – HOW TRANSLATIONAL RESEARCH AFFECTS THE EVERYDAY CARE?
Maeda Takeshi (Tokyo, Japan)

16:30 – 16:45  TRAUMATIC BRAIN INJURY-RELATED HYPOPITUITARISM: WHEN AND HOW TO MONITOR?
Orsolya Nemes (Pécs, Hungary)

16:45 – 17:05  A CRITICAL APPRAISAL OF GUIDELINES FOR THE TREATMENT OF TRAUMATIC BRAIN INJURY
Randall Chesnut (Washington, D.C., United States)

17:05 – 17:25  CONTEMPORARY CLINICAL CARE FOR TRAUMATIC BRAIN INJURY – EUROPEAN CONSEQUENCES OF THE AANS GUIDELINES, IDEAS FROM A DEVELOPED COUNTRY
Antonino Germano (Messina, Italy)

17:25 – 17:35  Discussion

POSTERS SELECTED FOR ORAL PRESENTATION

17:35 – 17:40  MECHANISMS OF CEREBRAL MYOGENIC DYSFUNCTION FOLLOWING TRAUMATIC BRAIN INJURY
Nikolett Szarka (University of Pécs, Hungary)

17:40 – 17:45  EFFECT OF LUMBAR CSF DRAINAGE AS ICP LOWERING INTERVENTION ON LONG TERM OUTCOME AFTER SEVERE TBI
Gábor Nardai (Péterfy Hospital and Accident Centre)

17:45 – 17:50  CHARACTERISTICS AND OUTCOMES OF ELDERLY PATIENTS WITH TRAUMATIC BRAIN INJURY
Kim Se-hyuk (Ajou University Medical Center, Korea)

17:50 – 17:55  EFFECT OF LUMBAR CSF DRAINAGE AS ICP LOWERING INTERVENTION ON LONG TERM OUTCOME AFTER SEVERE TBI
Karan Mladen (Neurological Clinic, Vojvodnia, Serbia)

17:55 – 18:10  Discussion and Closing remarks

20:00 – 23:00  WINE DINNER IN VILLÁNY
Bus departs from Hotel Makár at 19:00
Nikolett Szarka  
*Department of Neurosurgery and Szentágothai Research Centre, University of Pécs, Pécs, Hungary*  
The effect of hypertension on traumatic brain injury-induced cerebral myogenic dysfunction

Éva Majoros  
*B.A.Z County Central Hospital and University Hospital, Neurosurgical Department*  
Secondary coagulopathy and its consequences with thrombocyte aggregation inhibitor drugs in head trauma patients

Arnold Tóth  
*Neurosurgical Clinic, Radiological Clinic, University of Pécs, Pécs, Hungary*  
Transient disappearance of traumatic microbleeds on susceptibility weighted imaging in rats

Misun Choi  
*Ajou University Medical Center, Department of Neurosurgery, Suwon, Korea*  
Continuous renal replacement therapy for acute renal failure in patients with traumatic brain injury

Máté Hazay  
*Neurosurgical Clinic, University of Pécs, Pécs, Hungary*  
Reconstruction of Decompressive Craniectomy by Finite Element Simulations

Tadepalli Sai Ambika  
*NMR Research Group, Szentagothai Research Centre*  
*Department of Experimental Neurobiology, Faculty of Sciences, University of Pécs, Pécs, Hungary*  
Evaluation of Cognitive Dysfunction and White Matter Integrity following Mild Traumatic Brain Injury in Rats

Noémi Kovács  
*Department of Neurosurgery, University of Pécs, Pécs, Hungary*  

Krisztina Amrein  
*Department of Neurosurgery, University of Pécs, Pécs, Hungary*  
*University of Pécs, Szentágothai Research Centre, Pécs, Hungary*  
Development of the Serum Biobank as well as the Central Proteomic Lab of the CENTER-TBI “Collaborative European NeuroTrauma Effectiveness Research in TBI” project: current state – future challenges
GALA DINNER (30th Aug)

Date: 30th August 2017
Start: 19:30 Pezsgőház (Szent István tér 12)
Travel: Bus departs from Hotel Makár at 19:15
        Home journey at 22:00 and 23:30

Pezsgő Ház (in English: Champagne House) is the first champagne factory in
Hungary which is in the heart of the city. It was established by Lőrinc Littke a Polish
merchant family in 1859, and it was pos-
sessed by the family until the end of the
Second World War. It is an interesting fact
that Franz Josef king of Austria, Hungary
and Bohemian, also the first emperor of
Austro-Hungarian Monarchy visited the
facility in 1890. The factory has a tunnel system which is more than 2 kilometre
long under the medieval city centre. This location is widely used for gala dinners,
weddings and any other kind of celebrations, because it takes you back to the 19th
century glamour.

Please don’t forget to bring your ticket with you!

TENKES CSÁRDA (31st Aug)

Date: 31st August 2017
Start: 20:00 Tenkes Csárda
Travel: Bus departs from Hotel Makár at 19:00
        Home journey at 22:30 and 24:00

The Tenkes Csárda (Inn, it is pronounced as
“tsarda”) lies in the gate of the well-known
Villány wine regions. Keeping the old
Hungarian style and flavours, soups are
served in enamelled re pots, fried meats
are served on wooden plates and fresh
bread comes right from the wood-burning
oven. Native Hungarian and Gypsy music
makes every course complete.

Please don’t forget to bring your ticket with you!
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KIZÁRÓLAGOS MAGYARORSZÁGI FORGALMAZÓ

Fototronic kft. 1112 Budapest, Oltvány u. 2.;
www.fototronic.hu | Tel.: +36 30 3116944 | e-mail: peter.csokonay@fototronic.hu
The University of Pécs, established by King Louis the Great in 1367, celebrates the 650th anniversary of its foundation in 2017. University represents and embraces a great tradition dating back to medieval times, and is actively linked to the task of institutionalizing contemporary knowledge directed both to the present and the future at the same time.

GOALS
The primary goals of the anniversary events are rooted in maintaining, cherishing and emphasizing traditions, including conveying and preserving cultural values, internationalization and innovation. Our university wishes to contribute to the international appreciation of Hungarian sciences, education and academic enlightenment through the course of the planned events.

SCIENCE, INNOVATION AND RESEARCH
Supporting innovation and talent is an accentuated task, one in which the UP actively supports innovation and technology transfer processes. The professional background is clearly proven: 870 of our lecturers possess academic qualifications, 160 of them are Doctors of the Hungarian Academy of Sciences (HAS), and 16 are full members of the HAS. The recently established Szentágothai Research Centre aspires to be one of the leading Central-European research centres, thanks to our medical and scientific research group.

TRAINING AND COURSES
Nearly 300 training programs can be selected from higher-level educational training, bachelor and master training and doctoral programs at the UP, in nearly all fields. The national and international appreciation of our university is enhanced by training programs in foreign languages, international student exchange programs, including fifteen special collegiums, and 22 doctoral schools.
SUPPORTERS

EFOP-3.6.1.-16-2016-00004 Comprehensive Development for Implementing Smart Specialization Strategies at the University of Pécs
EFOP-3.6.2.-16-2017-00008 The role of neuro-inflammation in neurodegeneration: from molecules to clinics

PÉCSI DIAGNOSZTIKAI KÖZPONT

MTA-PTE Clinical Neuroscience MR Research Group
MTA-PTE Klinikai Idegtudományi Képalkotó Kutatócsoport
További információ:
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www.lilly.hu
