



PROGRAMME

Pécs 25-26 January, 2024

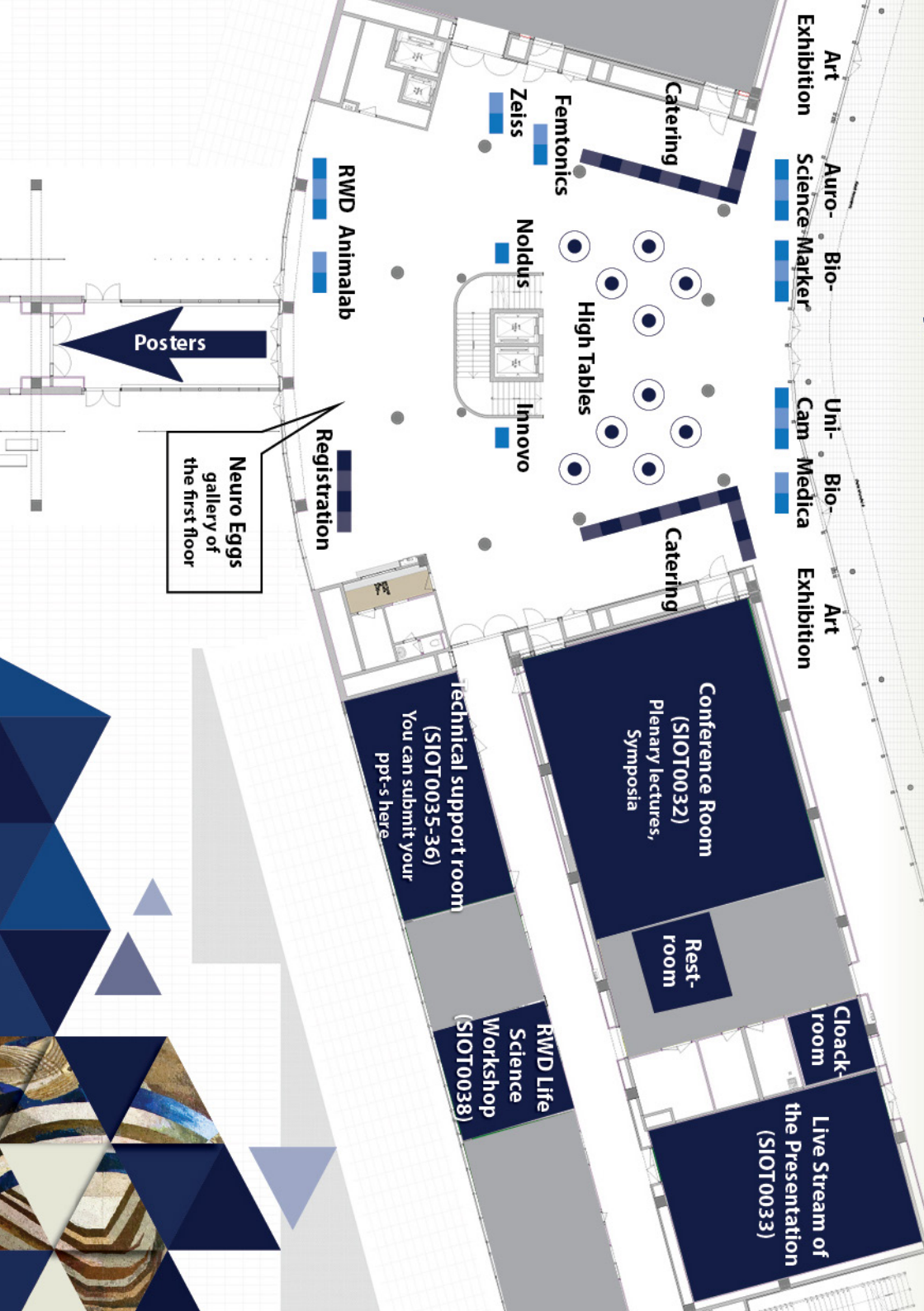
International Neuroscience Conference, Pécs 2024

INTERNATIONAL BRAIN



RESEARCH ORGANIZATION





Art

Exhibition

Auro-Bio-Science-Marker

Uni-Cam Medica

Art

Exhibition

Catering

Femtonics

Zeiss

RWD Animalab

High Tables

Noldus

Innovo

Registration

Posters

Neuro Eggs gallery of the first floor

Catering

Conference Room (SIOT0032)
Plenary lectures, Symposia

Rest-room

Clock room

Live Stream of the Presentation (SIOT0033)

Technical support room (SIOT0035-36)
You can submit your ppt-s here

RWD Life Science Workshop (SIOT0038)



Dear Colleagues,

We warmly welcome all participants and supporters at the **International Neuroscience Conference 2024** organized by the University of Pécs. The Endre Grastyán theoretical building of the Medical School of the University of Pécs opened in 2021 provides an excellent stage for our meeting. With more than 400 participants from all over the world we expect a lively exchange of research and collaboration ideas, which also serve to train the younger generation. We feel honoured that renowned international scientists will present their latest results in the forms of 4 plenary lectures, 6 symposia, and more than 240 Posters, further emphasizing the importance of Hungarian neuroscience within the international community. We hope that the social events will also help to share ideas and promote networking.

We are looking forward to a fruitful and enjoyable meeting!

Zsuzsanna Helyes and Dóra Zelena
Co-Chairs of the Conference



25 th January, Thursday		26 th January, Friday	
08:30-18:30	Registration, Information	08:30-17:45	Registration, Information
08:30-09:30	Welcome coffee		
09:30-09:40	Opening remarks	08:50-09:00	Opening of the second day
09:40-10:00	Plenary lecture - László Lénárd	09:00-09:45	Plenary lecture III - Jes Olesen (Buzsáki Lecture)
10:00-12:00	Symposium I János Boros - György Buzsáki	09:45-11:15	Symposium IV Viktor Szegedi - Gábor Molnár
12:00-14:00	Lunch break	11:15-11:45	Coffee break
	Poster section I	11:45-13:10	Symposium V Béla Völgyi - Ildikó Telkes - Tamás Kovács-Öller
14:00-15:45	Symposium II Kristóf László - Attila Tóth	13:15-15:15	Lunch break
15:45-16:15	Coffee break		Poster section II
16:15-17:45	Symposium III Zsuzsanna Tóth	15:30-17:00	Symposium VI Zsolt Bagosi - Krisztina Csabafi
17:45-18:30	Plenary lecture II - Zoltán Molnár	17:00-17:45	Plenary lecture IV - Ewelina Knapska
		17:45-18:00	Poster awards, concluding remarks
19:30-23:00	Conference dinner		

The lists of all the posters and the participants
are available in the

Abstract book



Utility of Fiber Photometry and *In Vivo* Imaging in Microcirculation for Neuroscience



Registration

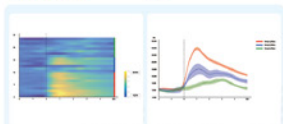
- Blood Flow Monitoring-Laser Speckle Imaging System
- Neurons activity detection *in vivo*-Fiber Photometry System
- Mice Cognitive Assessment System-Olfactometer
- Automated Stereotaxic Instruments with Auto Injection Function

25 January, 2024 **13: 00-14: 00**

7624 Pécs, Szigeti Road 12., Medical School of the University of Pécs,
Grastyán Endre Theoretical Building SIOT0038

$\Delta F/F$ Heatmap

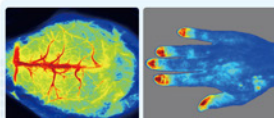
$\Delta F/F$



Fiber Photometry System

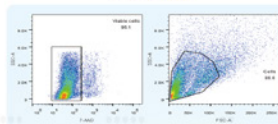
MCAO-Mouse

Hand-Human



RFLSI ZW Laser Speckle Imaging System

Mouse Tumor-Breast Cancer
(induced by 4T1 cell line)



Single Cell Suspension Dissociator



Automated Stereotaxic Instrument



RWD Olfactometer



Compact Small Animal Anesthesia Machine

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CHIEF PATRON

Miklós Nyitrai, *Dean of the Medical School, University of Pécs, Pécs, Hungary*

ORGANIZING COMMITTEE

PRESIDENTS:

Zsuzsanna Helyes, *Department of Pharmacology and Pharmacotherapy, Medical School, University of Pécs, Pécs, Hungary*

Dóra Zelena, *Institute of Physiology, Medical School, University of Pécs, Pécs, Hungary*

MEMBERS:

Valéria Tékus, Éva Borbély, Zsófia Hajna and **Rita Börzsei** from the *Department of Pharmacology and Pharmacotherapy, Medical School, University of Pécs, Pécs, Hungary*

Péter Buzás and **Kristóf László** from the *Institute of Physiology, Medical School, University of Pécs, Pécs, Hungary*

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We'd like to thank the following companies for their support:

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 **GEDEON RICHTER**

We'd like to thank the **Biomedicines** and **Neurology International** journals by MDPI for sponsoring the awards for the poster presentation awards!



biomedicines

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***neurology
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The co-organizers of the 'Functional investigations
 in human brain sample' symposium:

 **HCEMM**
 Translational Medicine

Exhibitors:

 **BioMarker Kft.****UNICAM**
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CONFERENCE

Conference date: **25-26th January, 2024**
Conference venue: **University of Pécs,
Grastyán Endre Theoretical Block (new building)**
Address: HU7624 Pécs, Szigeti road 12.
Conference language: The official language of the congress is English.

REGISTRATION DESK

Thursday between 8.30 am – 6.30 pm
Friday between 8.30 am – 5.45 pm

CLOAKROOM

Opening hours:

Grastyán Endre Theoretical Block (new building)

25th January (Thursday) 8.00 am – 6.30 pm

26th January (Friday) 8:00 am – 7:00 pm

Romhányi György Theoretical Block (old building)

25th January (Thursday) 6.30 am – 12.00 am

PARKING

The area around the university is a paid parking zone.

[Parking zones](#)  

[Public Transportation](#)  

WIFI

Network: **INC2024**
Password: **Mitt2024**

ORAL PRESENTATIONS

For lectures, we use an MS Windows-based computer projector with MS Power Point Office application. Please hand over the material of the presentation in PPT or compatible format, if possible, on a USB stick, to the technical staff in the technical support room (SIOT0035/36) at least half an hour before your session starts.

Due to the large number of participants, the presentations will also be broadcast in a smaller lecture hall (SIOT0033). For this reason, we would like to ask you to stay behind the podium during your presentation, because the camera will be recording that spot.

Lecturers and the symposium organizers should keep the time limits strictly.

POSTER PRESENTATIONS

Posters will be presented on 25-26th January, Thursday and Friday, in University of Pécs, Romhányi György Hall (Aula)

We ask the poster presenters not to leave their poster during the own presentation period if possible.

IMPORTANT DATES:

Poster session I. • 25th January (Thursday), 1 pm – 2 pm

Installation date: 25th January (Thursday), 8.00 am – 11.30 am

Collection date: 25th January (Thursday), 2.00 pm – 2.30 pm

Poster session II. • 26th January (Friday), 2.15 pm – 3.15 pm

Installation date: 26th January (Friday), 8.30 am – 12.30 pm

Collection date: 26th January (Friday), 3.30 am – 5 pm

Our colleagues will provide tools for the installation on-site.

COFFEE BREAK AND LUNCH

The coffee and lunch breaks will be served in the Grastyán Endre Theoretical Block Hall.

A badge is always required to use the service.

The registration fee includes: participation in the scientific program, and the coffee and lunch breaks for 1 person.

GALA DINNER

Venue: **University of Pécs, Romhányi György Hall** (Aula)

Address: HU7624 Pécs, Szigeti road 12.

Date: **25th January (Thursday)**

Dinner tickets can be found in the registration package.

Please don't forget to bring your gala dinner ticket with you!

Arrival time: 7.15 pm – 7.30 pm

Concert: 7.30 pm – 8.15 pm – Mihály Boros (piano)

Dinner & Dance until 11:00 pm

In order to avoid delaying the concert, please make sure to arrive and take your seats on time!

Concert by Mihály Boros pianist

Mihály Boros, who will be performing at the gala dinner of the conference, is a Junior Prima award-winning pianist, who won the televised classical music talent search called Virtuosos, presented himself at the Lincoln Center's Avery Fisher Hall in New York, and appeared in front of the Swiss audience in Zurich as a special prize winner of the Armel Opera Festival with the Pannon Philharmonic Orchestra.

By the time he was 18, he had entered twelve piano competitions, winning first place in all of them.

He gave concerts in London, Milan, Paris, Stockholm, Gothenburg, Brussels, Tokyo, Osaka, Beijing, Shanghai, São Paulo, among others.

Your intention to participate had to be indicated during registration before the date of the conference. It is no longer possible to register for the dinner on-site.

Photo by Lajos Kalmár



ART EXHIBITIONS

Venue: University of Pécs, Grastyán Endre Theoretical Block

Flashes

Zsuzsanna Katatics *Art teacher,
Fine Arts Therapist, Dombóvár,
Hungary*

The basic concept of the exhibition is the artistic representation of parts of the human body. The works exhibited represent visual images from a unique perspective, an abstract idea based on structures of the human body. Hidden in the paintings one can discover anatomical structures, organs or their simplified parts. As technical approach, mainly graphical art, the viewer can enjoy the dynamics of the visual elements, their complexity and the harmony of colors.



Pain narrative and artistic representation

Prof. Márta Nyilas *Faculty of
Music and Visual Art, University of
Pécs, Pécs, Hungary*

Kamilla Boda *Department of Be-
havioural Sciences, Medical School,
University of Pécs, Pécs, Hungary*

Dr. Árpád Csathó *Department
of Behavioural Sciences, Medical
School, University of Pécs, Pécs,
Hungary*

In the course entitled Pain Narratives and Art Representation, students from the Faculty of Music and Visual Art created artworks based on structured interviews

with patients living with chronic pain. The interview questions covered affective,



cultural, and physical aspects of pain. The students created artworks with a free interpretation that, in addition to their artistic value, could also function as a non-verbal means of communication between doctors and patients in a photo-documented form.



**NEURO EGGS – artworks from
a unique course on manual skill
development** (gallery of the first floor)

József L. Szentpéteri, ITD – *Institute of Transdisciplinary Discoveries,
Medical School, University of Pécs, Pécs, Hungary*

Traditional Easter egg dying is a way more complex activity than then it seems at first glance. Such recognition initiated to create a university course, which helps polishing manual skills for medical students through a dramatically alternate way they got used to. The aim of the course is to develop and polish manual skills through alternative ways, which causes not just pleasure but creates artwork. Besides manual skills, this course helps to develop patience, focus, precision, and tolerance of monotony. Within the frames of the course, students can polish their manual skills by absorbing several aspects of traditional Easter egg-dying methods. Activities include engraving and carving with a professional engraver; syringe and medical needle use; wax melting; precision wax applying to the uneven surface; precision painting; acidic etching. On top of it, created artworks can be exhibited as well, which motivates many other students.

WORKSHOP

Utility of Fiber Photometry and In Vivo Imaging in Microcirculation for Neuroscience

A workshop will be held in room SIOT0038 (see map) on 25 January (Thursday) between 1-2 pm.

For more information about the workshop, please [click here](#).

MEETING POLICY ON PHOTOGRAPHY, FILMING AND RECORDING

No photographs, video recording or audio recordings may be permitted in the scientific sessions at this conference unless otherwise authorized in advance by the Scientific Programme Committee. By entering this event you agree to being photographed which may be used for marketing or promotional purposes. The Society encourages the use of social media before, during, and after the annual meeting, so long as it falls within embargo and communications rules. If you do so, please use **#INC2024**.

LIABILITY AND OTHER INSURANCE

The published participation fee does not include accident, illness, baggage, and liability insurance fees. Thus, in the event of an accident, illness or damage, the organizers are not in a position to assume any responsibility or compensation.

ORGANIZING AGENCY



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Thursday, 25 January 2024

08:30 - 18:30 REGISTRATION, INFORMATION

09:30 - 09:40 OPENING REMARKS

09:40 - 10:00 PLENARY LECTURE: THE HUNGARIAN NEUROSCIENCE SOCIETY 30 YEARS AGO

László Lénárd *Emeritus professor, Institute of Physiology, Pécs University Medical School, Pécs, Hungary*

10:00 - 12:00 Symposium I. Neuroscience and Philosophy

CHAIRS: **János Boros** (*Professor, Faculty of Cultural Sciences, Education and Regional Development, University of Pécs, Pécs*)

György Buzsáki (*Professor, Neuroscience Institute, School of Medicine, New York University, New York*)

10:00 - 10:25 WAYS TO THINK ABOUT THE BRAIN: EMERGENCE OF COGNITION FROM ACTION

György Buzsáki PhD *Professor, Neuroscience Institute, New York University, School of Medicine, NY*

10:25 - 10:50 WHAT NEUROBIOLOGY TEACHES US ABOUT MORALITY

Patricia Churchland *Professor, University of California, San Diego*

10:50 - 11:15 WHAT DOES A THEORY OF CONSCIOUSNESS NEED TO EXPLAIN

Christof Koch, PhD *Meritorious Investigator, Allen Institute, Seattle; Chief Scientist, Tiny Blue Dot Foundation, Santa Monica*

11:15 - 11:40 OUR FOUR REALMS OF EXISTENCE

Joseph LeDoux *Director, The Emotional Brain Institute, NYU; Professor of Neural Science and Psychology, NYU; Professor of Psychiatry and Child & Adolescent Psychiatry, NYU Langone*

11:40 - 11:50 THE MIND IN THE BRAIN FROM INSIDE OUT

Reflections on György Buzsáki, The Brain from inside out, Oxford University Press, 2019.

János Boros *Professor, Faculty of Cultural Sciences, Education and Regional Development, University of Pécs, Pécs*

11:50 - 12:00 Discussion

12:00 - 14:00 LUNCH BREAK

12:00 - 14:00 POSTER SESSION I.

14:00 - 15:45 Symposium II. Preclinical examination of autism spectrum disorder

CHAIRS: *Kristóf László (Associate Professor, Institute of Physiology, Medical School and Centre for Neuroscience, University of Pécs, Pécs)*

Attila Tóth (Senior Lecturer, Institute of Physiology, Medical School and Centre for Neuroscience, University of Pécs, Pécs)

14:00 - 14:25 A FUNCTIONAL BRAIN NETWORK APPROACH TO STUDY VALPROIC ACID CAUSED AUTISM IN RODENTS AND THE USE OF ALTERNATIVE MODEL SPECIES IN AUTISM RESEARCH

Gergely Zachar *Department of Anatomy, Histology and Embryology, Semmelweis University, Budapest, Hungary*

14:25 - 14:50 FUNCTIONAL AND MORPHOLOGICAL ALTERATIONS OF STRIATAL NEURONS IN THE AUTISM-RELATED MODEL

Jan Bakos *Faculty of Medicine, Comenius University in Bratislava; Institute of Experimental Endocrinology, Biomedical Research Center, Slovak Academy of Sciences*

14:50 - 15:15 AUTISM SPECTRUM DISORDER ASSOCIATED BEHAVIORAL SYMPTOMS AND THEIR RELATIONSHIP WITH THE MICROBIOME

Kitti Mintál *Institute of Physiology, Medical School, University of Pécs; Medical and Engineering Multidisciplinary Cellular Bioimpedance Research Group, Szentágotthai Research Centre, University of Pécs*

15:15 - 15:40 THE INTRAAMYDALOID OXYTOCIN AMELIORATES SOME AUTISTIC-LIKE SYMPTOMS IN VALPROATE-INDUCED AUTISM RODENT MODEL

Kristóf László *Institute of Physiology, University of Pécs, Medical School, Pécs, Hungary; Neuropeptides, cognition, animal models of neuropsychiatric disorders research group, Institute of Physiology, Medical School, University of Pécs, Pécs, Hungary; Neuroscience Center, University of Pécs, Pécs, Hungary*

15:45 - 16:15 COFFEE BREAK

16:15 - 17:45 Symposium III. Molecular Biology of Stress Disorders

CHAIR: Zsuzsanna Tóth (*Department of Anatomy, Histology and Embryology, Semmelweis University, Budapest*)

16:15 - 16:40 DOPAMINE AND STRESS-RELATED DISORDERS: TRANSLATION FROM STUDIES IN NEONATES TO SEARCHING THE MOLECULAR MECHANISMS IN ANIMAL MODELS

Daniela Jezova *Institute of Experimental Endocrinology, Biomedical Research Center, Slovak Academy of Sciences, Bratislava, Slovakia*

16:40 - 17:05 BRAIN AREA-SPECIFIC INTERACTIONS BETWEEN EFFECTS OF EARLY LIFE ADVERSITY AND CHRONIC VARIABLE MILD STRESS IN THE THREE HIT MODEL OF DEPRESSION

Balázs Gaszner *Department of Anatomy and Research Group for Mood Disorders, Center for Neuroscience, Medical School, University of Pécs*

17:05 - 17:30 NEUROMODULATORS IN STRESS DISORDERS: EMERGENCE OF PROLACTIN-RELEASING PEPTIDE

Zsuzsanna E. Tóth *Department of Anatomy, Histology and Embryology, Semmelweis University, Budapest, Hungary*

17:30 - 17:45 STRESS RELATED METABOLIC CHANGES, IMPLICATION IN STRESS DISORDERS

Dániel Kuti *Laboratory of Molecular Neuroendocrinology, Institute of Experimental Medicine, HUN-REN, Budapest, Hungary*

17:45 - 18:30 PLENARY LECTURE: EVOLUTION OF THALAMOCORTICAL DEVELOPMENT

Zoltán Molnár *Professor of Developmental Neuroscience, Department of Physiology, Anatomy and Genetics, University of Oxford, Oxford, United Kingdom*

19:15 - 23:00 GALA DINNER

(Medical School, Romhányi Aula, University of Pécs)

Friday, 26 January 2024

08:30 - 17:45 REGISTRATION, INFORMATION

08:50 - 09:00 Opening of the second day

09:00 - 09:45 PLENARY LECTURE: TRANSLATION FROM MAN TO ANIMAL IN MIGRAINE - Buzsáki Lecture

Jes Olesen (Brain Prize in 2021) *Clinical Professor, Department of Clinical Medicine, University of Copenhagen, Copenhagen, Denmark*

09:45 - 11:15 Symposium IV. Functional investigations in human brain sample

Co-organized by HCEMM Nonprofit Kft.

CHAIRS: **Viktor Szegedi** (*Assistant Professor, Department of Physiology, Anatomy and Neuroscience, University of Szeged, Szeged*)

Gábor Molnár (*Department of Physiology, Anatomy and Neuroscience, University of Szeged, Szeged*)

09:45 - 10:05 DIFFERENCES IN ACTIONS OF NMDA RECEPTOR MEDIATED NEOCORTICAL ASTROCYTE-NEURON COMMUNICATION BETWEEN MICE AND HUMANS

Balázs Pál *Department of Physiology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary; Doctoral School of Molecular Medicine, University of Debrecen, Debrecen, Hungary*

10:05 - 10:30 FROM VIRAL INJECTION TO ELECTROPHYSIOLOGY AND IMAGING WITHIN 24 HOURS USING SEMLIKI FOREST VIRUS

Albert Gidon *Humboldt-Universität zu Berlin, Charite, NeuroCure, Germany*

10:30 - 10:50 ROLE OF EXCITATORY AND INHIBITORY CIRCUITS IN THE GENERATION OF SYNCHRONIES EMERGING IN THE HUMAN NEOCORTEX, IN VITRO

Lucia Wittner *Research Centre for Natural Sciences, Budapest, Hungary*

10:50 - 11:15 MODULATION OF GIANT DEPOLARIZING POTENTIALS (GDPS) IN HUMAN LARGE BASKET CELLS BY NOREPINEPHRINE AND ACETYLCHOLINE

Dirk Feldmeyer *Forschungszentrum Jülich, Jülich, Germany*

11:15 - 11:45 COFFEE BREAK

11:45 - 13:15 Symposium V. Information processing in the early visual system; retina and retinorecipient brain centers

CHAIRS: Béla Völgyi (*Professor, Institute of Biology, Department of Neurobiology, University of Pécs, Pécs*) • Ildikó Telkes (*Institute of Physiology, Medical School and Centre for Neuroscience, University of Pécs, Pécs*) • Tamás Kovács-Öller (*Research Fellow, Institute of Biology, Department of Neurobiology, University of Pécs, Pécs*)

11:45 - 11:50 Introduction

11:50 - 12:10 THE DARK SIDE OF VISION: DETECTION OF SINGLE PHOTONS FROM THE RETINA TO PERCEPTION

Petri Ala-Laurila *Department of Biosciences, University of Helsinki, Helsinki, Finland; Professor, Department of Neuroscience and Biomedical Engineering, Aalto University, Espoo, Finland*

12:10 - 12:30 RETINAL GANGLION CELL DIVERSITY IN HUMANS AND NON-HUMAN PRIMATES

Ulrike Grünert *Associate Professor, Ophthalmology and Visual Science, Faculty of Medicine and Health, Clinical Ophthalmology and Eye Health, Save Sight Institute, Sydney, Australia*

12:30 - 12:50 GANGLION CELL GAP JUNCTIONS SUBSERVE THE DETECTION OF APPROACH MOTION IN THE RETINA

Gergely Szarka *Szentágothai Research Centre, University of Pécs, Pécs, Hungary; Department of Neurobiology, University of Pécs, Pécs, Hungary; Center for Neuroscience, University of Pécs, Pécs, Hungary*

12:50 - 13:10 PHYSIOLOGY OF STANDARD AND NON-STANDARD AFFERENT VISUAL PATHWAYS IN PRIMATES

Paul R. Martin *Professor, Faculty of Medicine and Health, Clinical Ophthalmology and Eye Health, Save Sight Institute, Sydney, Australia*

13:15 - 15:15 LUNCH BREAK

13:15 - 15:15 POSTER SESSION II.

15:30 - 17:00 Symposium VI. Neuropeptides in Health and Disease

CHAIRS: Krisztina Csabafi (*Adjunct Professor, Department of Pathophysiology, Albert Szent-Györgyi School of Medicine, University of Szeged, Szeged*)

Zsolt Bagosi (*Associate Professor, Department of Pathophysiology, Albert Szent-Györgyi School of Medicine, University of Szeged, Szeged*)

15:30 - 15:50 UNRAVELING THE COMPLEXITY: THE MULTIFACETED SIGNIFICANCE OF CRF AND UROCORTINS IN STRESS AND PSYCHIATRIC DISORDERS

Tamás Kozicz *Professor, Department of Clinical Genomics, MayoClinic, Rochester, MN, USA*

15:50 - 16:10 UROCORTINS MODULATE SOCIAL BEHAVIOR THROUGH DIFFERENT CRF RECEPTORS AND PATHWAYS

Zsolt Bagosi *Associate Professor, Department of Pathophysiology, Albert Szent-Györgyi Medical School, University of Szeged, Szeged, Hungary*

16:10 - 16:30 KISSPEPTINS ACTIVATE THE HYPOTHALAMUS-PITUITARY-ADRENAL AXIS AND INDUCE ANXIETY

Krisztina Csabafi *Department of Pathophysiology, Albert Szent-Györgyi Medical School, University of Szeged, Szeged, Hungary*

16:30 - 16:45 THE ROLE OF OBESTATIN IN DEPRESSION-LIKE BEHAVIOR IN MICE

Júlia Szakács *Department of Pathophysiology, Albert Szent-Györgyi Medical School, University of Szeged, Szeged, Hungary*

16:45 - 17:00 OXYTOCIN RECEPTOR EXPRESSION IN PRIMARY SENSORY NEURONS: UNVEILING HOW OXYTOCIN AND ITS RECEPTOR CONTRIBUTE TO THE SENSORY PROCESSING AND THE MODULATION OF PAIN

Gyöngyi Kis *Department of Physiology, Albert Szent-Györgyi Medical School, University of Szeged and Department of Physiology, Anatomy and Neuroscience, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary*

17:00 - 17:45 **PLENARY LECTURE: THE CENTRAL AMYGDALA AS A MOTIVATIONAL HUB: PAVING THE WAY FOR PERSONALIZED THERAPIES IN BEHAVIORAL DISORDERS**
Ewelina Knapska *Associate Professor, Laboratory of Emotions Neurobiology, Nencki Institute of Experimental Biology, Warsaw, Poland*

17:45 - 18:00 **POSTER AWARDS, CONCLUDING REMARKS**

1. PTE AOK
2. Hotel Makár
3. MTA PAB székház
4. Barbakán Hotel
5. Arkádia Hotel
6. Dóm Zarándokház

