



ELTE
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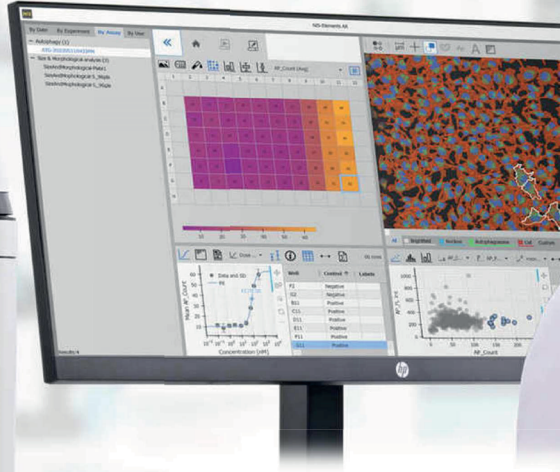
HUNGARIAN
NEUROSCIENCE
SOCIETY



International Neuroscience Conference

29-30 January 2026 - Budapest, Hungary

Programme



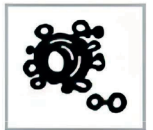
ECLIPSE Ji

Smart Experiment Imaging System

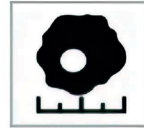
- Research grade microscope in a ready-to-use benchtop lab instrument
- AI trained giving effortless results
- Acquisition and analysis settings autonomously found by the system
- Intuitive usage means no training is required
- Prevents inaccurate interpretation of data due to incorrect acquisition settings or analysis



Intensity Measurement



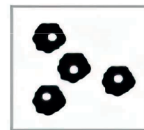
Apoptosis



Size & Morphological analysis



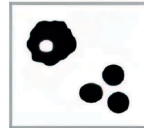
Nuclear Translocation



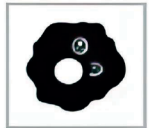
Cell Counting - Endpoint



DNA Damage - Gamma H2AX



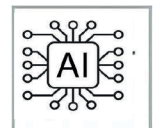
Cytotoxicity



Autophagy



Transfection Efficiency



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Dear Colleagues,

We cordially welcome all neuroscientists at the **International Neuroscience Conference (INC) 2026** of the Hungarian Neuroscience Society (HNS) on **January 29-30, 2026** with a **HunDoc** student pre-conference on **January 28**. This year, **INC 2026** will take place at Eötvös Loránd University, Faculty of Natural Sciences (ELU FNS) in Budapest.

This outstanding scientific event will feature plenary lectures, symposia, and poster sessions, showcasing novel and groundbreaking results from across the field. We are honored to welcome renowned international scientists who will present their latest research, highlighting the importance of Hungarian neuroscience within the international community.

The conference is organized by the HUN-REN Research Centre for Natural Sciences, Institute for Cognitive Neuroscience and Psychology (RCNS ICNP) with more than 300 participants.

We are looking forward to a fruitful and successful meeting in Budapest!

István Ulbert
President of the Conference

Árpád Dobolyi
President of the HNS

DETAILED SCIENTIFIC PROGRAM

	Thursday, 29 January 2026	Friday, 30 January 2026
09:20 – 09:30	OPENING REMARKS	
09:30 – 10:00	Plenary lecture I.	Plenary lecture III.
10:00 – 10:20		
10:20 – 10:40	Coffee break	Coffee break
10:40 – 12:00	Symposium I.	Symposium III.
12:00 – 12:10		
12:10 – 12:30	Lunch break	Lunch break
12:30 – 12:40		
12:40 – 13:00	POSTER SESSION - I.	POSTER SESSION - II.
13:00 – 13:30		
13:30 – 14:00		
14:00 – 14:30		
14:30 – 15:00		
15:00 – 15:30		
15:30 – 16:00	Symposium II.	Symposium IV.
16:00 – 16:30		
16:30 – 17:00		
17:00 – 17:20	Coffee break	Coffee break
17:20 – 18:00	Plenary lecture II.	Plenary lecture IV.
18:00 – 18:10		
18:10 – 18:20		Closing remarks
19:30 – 23:00	Conference Dinner	

Discover IBRO

Federating over 100 organizations globally, IBRO leads an international community of scientists to promote equitable and inclusive access to neuroscience education, training, and research worldwide.

Funding & training opportunities

CAREER DEVELOPMENT



Collaborative Research Grants



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Neuroscience Capacity
Accelerator For Mental Health



Neuroscience Training Grants



Parenthood Grants



Travel Grants

EVENT ORGANIZATION



Schools Support



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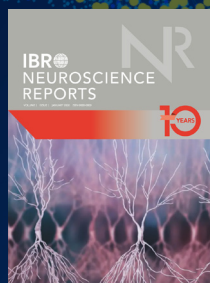
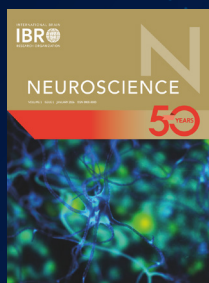
Speaker Support

Discover IBRO's 2026
training opportunities



Discover IBRO's journals

- **RAPID PUBLICATION:** efficient submission & review processes
- **OPEN ACCESS OPTIONS:** possibility of increased reach
- **SUPPORT FOR GLOBAL INITIATIVES:** proceeds support more than 70% of IBRO's activities



IBRO2027
WORLD CONGRESS



CAPE TOWN, SOUTH AFRICA
13-16 SEPTEMBER 2027



See you in Cape Town!

PATRON OF THE CONFERENCE:

Imre Kacskovics, ELU FNS, Dean

PRESIDENT OF THE CONFERENCE:

István Ulbert, HUN-REN RCNS ICNP, Director

PRESIDENT OF THE HNS:

Árpád Dobolyi, ELU FNS, DPN, Chairman

PROGRAM COMMITTEE:

Judit Makara, HUN-REN Institute of Experimental Medicine, Budapest

Zsuzsanna Helyes, University of Pécs

Enikő Kubinyi, Eötvös Loránd University

Balázs Lendvai, Gedeon Richter Plc

László Acsády, HUN-REN Institute of Experimental Medicine, Budapest

ORGANIZING AGENCY:

Remedicon Ltd.

1037 Budapest, Szépvölgyi út 141.

Tel: +36-1-225-0188

Fax: +36-1-225-0189

E-mail: info@remedicon.hu

VENUE OF THE CONFERENCE:

Eötvös Loránd University, (English: ELU, Hungarian: ELTE)

Faculty of Natural Sciences (English: FNS, Hungarian: TTK)

Address: H-1117 Budapest, Pázmány Péter sétány 1/A

Conference participants are asked to use the South entrance, near to university parking lots.

Registration will take place on the ground floor, nearby the South entrance. From here, a staircase leads directly to the cloakroom set up on level -1.

Language

The official language of the conference is English.

Registration desk (South Entrance of Northern Building) opening hours

29 January 08:00-17:00

30 January 09:00-13:00

Exhibition

Exhibitor's stands will be placed in the Sphere Hall ("Gömb aula") and will be on display throughout the Conference next to the poster area.

Meals

Coffee and lunch breaks will be available for the congress participants wearing badges. Please make sure to wear your badge at all times during the conference.

Conference dinner,

29th January 2026 (19:30 - 23:00)

Trófea Grill Restaurant

Address: 1117 Budapest, Hauszmann Alajos. u. 6/b.

The gala dinner voucher assuming you ordered it in advance, is included in the name badge.

The restaurant is 1,7 km from the ELTE building, which is appr. 15-20 min walk.

Indoor parking is available for 400 HUF/hour with direct access to the restaurant.

By public transport: take tram no.1 from "infopark" station towards "Kelenföldi vasútállomás".

Trófea Grill Restaurant is located at the 2nd stop, named as "Huszmann Alajos utca/szerémi út".

Poster Presentations:

Posters will be presented in two sections, on Thursday and Friday, respectively. The posters should be mounted in the morning before the scientific sessions and to be removed from the stands by the end of the day.

29 January:

PS01 Stem cells and development

PS02 Repair and regeneration

PS03 Disorders, disease models

PS07 Behaviour

PS08 Neuroendocrinology

PS10 Novel techniques

30 January:

PS04 Cellular neuroscience

PS05 Systems neuroscience

PS06 Cognitive neuroscience

PS09 Modelling

The presentation and poster abstracts are available in the abstract book

and can be downloaded from the homepage of the conference

Access to all scientific sessions, exhibitions and social events is only permitted with the personal badge provided.

FREE WIFI

SSID: RENDEZVENY

PW: ELTE2601

DETAILED SCIENTIFIC PROGRAM

Thursday, 29 January 2026

08:30 – 18:00 *Registration*

09:20 – 9:30 OPENING REMARKS

9:30 – 10:20 Plenary lecture I.

NEURONAL MECHANISM THAT UNDERLIES SPATIAL LEARNING

József Csicsvári (*Institute of Science and Technology, Klosterneuburg, Austria*)

10:20 – 10:40 *Coffee break*

10:40 – 12:10 Symposium I.

AGING AND REJUVENATION

Co-chairs: Pircs Karolina (*HCEMM-SU Neurobiology and neurodegenerative diseases research group, HUN-REN-SZTAKI-SU Rejuvenation Group*)

& Kerepesi Csaba (*HUN-REN-SZTAKI-SU Rejuvenation Group, MILAB*)

DETERMINING BIOLOGICAL AGE BY AI

Kerepesi Csaba (*HUN-REN-SZTAKI-SU Rejuvenation Group*)

SUPER-RESOLUTION MICROSCOPY FOR STUDYING AGE-RELATED SYNAPTIC CHANGES

Joana Ferreira (*Synapse Architecture Group, MIA-PORTUGAL, University of Coimbra*)

FITAGE: BIOLOGICAL AGING THROUGH THE LENS OF PHYSICAL FITNESS AND FUNCTION

Torma Ferenc (*Research Institute of Sport Science, Hungarian University of Sport Science*)

BRAIN AGE BIOMARKERS DERIVED FROM STRUCTURAL MRI

Vakli Pál (*HUN-REN Research Centre for Natural Science, Brain Imaging Centre*)

DIRECT NEURAL REPROGRAMMING: NEW POSSIBILITY TO MODEL AGING AND AGE-RELATED NEURODEGENERATIVE DISEASES

Pircs Karolina (*HCEMM-SU Neurobiology and neurodegenerative diseases research group, HUN-REN-SZTAKI-SU Rejuvenation Group*)

12:10 – 12:40 *Lunch break*

12:40 – 15:30 POSTER SESSION - I.

DETAILED SCIENTIFIC PROGRAM

15:30 – 17:00	Symposium II. MULTIMODAL MAPS OF MIND: FROM CIRCUITS TO SYSTEMS IN HEALTH AND DISEASE Chair: Gergely Szalay (<i>HUN-REN Institute of Experimental Medicine — Laboratory of 3D Functional Network and Dendritic Imaging</i>)
	BRAIN INTERFACE FOR FAST 3D PHOTOSTIMULATION, VOLTAGE, AND CA ²⁺ IMAGING OF PV-, SOM-, AND VIP-EXPRESSING INTERNEURON NETWORKS AND DENDRITES IN V1 DURING VISUAL LEARNING IN FREELY NAVIGATING ANIMALS Balázs Rózsa (<i>HUN-REN Institute of Experimental Medicine — Laboratory of 3D Functional Network and Dendritic Imaging</i>)
	CORRELATIVE PRECLINICAL IMAGING COMBINING 2P, MRI AND LIGHT-SHEET MICROSCOPY FOR STUDIES OF GLIOBLASTOMA Štěpán Kortus (<i>Institute of Experimental Medicine of the Czech Academy of Sciences</i>)
	IN VIVO IMAGING OF AXONAL PATHOLOGY IN ALZHEIMER'S DISEASE Niedermeier Theresa (<i>Ludwig-Maximilians-Universität München (LMU) Institute for Neuropathology</i>)
	AFFECTIVE STATES FROM AMYGDALA-CORTICAL HIERARCHICAL INTERACTIONS Wulf Haubensak (<i>Medical University of Vienna, Division of Neuronal Cell Biology, Center for Brain Research</i>)
17:00 – 17:20	Coffee break
17:20 – 18:10	Plenary lecture II. (Buzsáki lecture) ASTROCYTES: EMERGING STARS OF ENGRAMS Sheena A. Josselyn (<i>Hospital for Sick Children and The University of Toronto, Canada</i>)
19:30 – 23:00	Gala Dinner (<i>HunDOC2026 - hackathon winners ceremony</i>)

DETAILED SCIENTIFIC PROGRAM

Friday, 30 January 2026

08:00 – 13:00 *Registration, information*

9:30 – 10:20 **Plenary lecture III.**

MULTIDIMENSIONAL STRUCTURE OF ACTIVITY IN TRANSCRIPTOMICALLY IDENTIFIED CORTICAL CELL TYPES

Kenneth Harris (*University College, London, UK*)

10:20 – 10:40 *Coffee break*

10:40 – 12:10 **Symposium III.**

NEUROMETHODS

Chair: Péter Gombkötő (*ETH, Zürich, Department of Information Technology and Electrical Engineering, Institute of Neuroinformatics*)

PROBING LAMINAR ENSEMBLE DYNAMICS IN THE HUMAN NEOCORTEX USING HIGH-DENSITY INTRAOPERATIVE MULTIELECTRODES

Domokos Meszéna (*HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neurosciences and Psychology*)

MRI-VISIBLE ULTRA-FLEXIBLE ELECTRODES FOR STABLE, HIGH-RESOLUTION RECORDINGS OF BRAIN NETWORKS

Péter Gombkötő (*ETH, Zürich, Department of Information Technology and Electrical Engineering, Institute of Neuroinformatics*)

UNLOCKING BRAIN PLASTICITY: A MULTIMODAL APPROACH TO INTERROGATING AND MODIFYING NEURAL CIRCUITS

Daniel Hillier (*HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neurosciences and Psychology, Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest, Hungary*)

COMBINED DEEP-TISSUE IMAGING AND ELECTROPHYSIOLOGY FOR THE TREATMENT OF GLIOBLASTOMA AND TUMOR-RELATED EPILEPSY

Attila Kaszás (*HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neurosciences and Psychology*)

NEXT-GEN CMOS BIOELECTRONICS FOR SCALABLE NEURAL MONITORING AND MODULATION

Gábor Orbán (*Microtechnology for Neuroelectronics (NetS3 Lab), Istituto Italiano di Tecnologia - IIT*)

12:10 – 12:40 *Lunch break*

12:40 – 15:30 **POSTER SESSION - II.**

DETAILED SCIENTIFIC PROGRAM

15:30 – 17:00 Symposium IV.

RESEARCH NETWORKS AROUND RICHTER - HOW OPEN INNOVATION STRATEGIES
COULD ADVANCE TRANSLATIONAL NEUROSCIENCE

Co-chairs: Zsolt Némethy & Balázs Lendvai (*Richter Gedeon Nyrt.*)

GENERAL INTRODUCTION

Zsolt Némethy (*Richter Gedeon Nyrt.*)

TARGETING INFLAMMATORY NETWORKS AND GLIAL MECHANISMS IN CNS
DISORDERS

Ádám Dénes (*HUN-REN Institute of Experimental Medicine*)

IN VITRO MACROPHAGE MODELS FOR DRUG RESEARCH

Szilvia Benkő (*University of Debrecen, Faculty of Medicine, Department of Physiology*)

MESENCHYMAL STEM CELLS IN INFLAMMATION

László Cervenák (*Semmelweis University, Department of Internal Medicine and
Hematology*)

DOPAMINE DYNAMICS IN COMPLEX ASSOCIATIVE LEARNING PARADIGMS

Balázs Hangya (*HUN-REN Institute of Experimental Medicine*)

17:00 – 17:20 Coffee break

17:20 – 18:10 Plenary lecture IV.

AI-ASSISTED BRAIN-MACHINE INTERFACE FOR NAVIGATION IN VIRTUAL REALITY

Peter Janssen (*Leuven Brain Institute / KU Leuven Faculty of Medicine, Belgium*)

18:10 – 18:20 Closing remarks

PS01: Stem cells and development

PS01.01 Intravitreal Application of Neuroectodermal Stem Cells Following Optic Nerve Injury

Tamas Bellak¹; Peter Balazs Kocsis²; Levente Laszlofy¹; Rebeka Kristof¹; Adam Meszaros¹; Krisztian Pajer¹; Annamaria Marton³; Csaba Vizler³; Antal Nogradi¹

¹ University of Szeged, Department of Anatomy, Histology and Embryology, Laboratory of Neural Regeneration, Szeged

² University of Szeged, Department of Ophthalmology, Szeged

³ Biological Research Center, Institute of Genetics, National Biotechnology Laboratory, Szeged

PS01.02 Automated and highly reproducible generation of neural spheroids

Maissa Ben Mahmoud¹; Eszter Geiszelhardt¹; András Czirik²; Júlia Tárnoki-Zách²; Katalin Schlett¹; Krisztián Tárnok¹

¹ Eötvös Loránd University, Institute of Biology, Department of Physiology and Neurobiology, Budapest

² Eötvös Loránd University, Institute of Physics and Astronomy, Department of Biological Physics, Budapest

PS02: Repair and regeneration

PS02.01 Intraspinal delivery of chondroitinase-mRNA-LNP promotes morphological and functional recovery after chronic spinal cord contusion injury

Eszter Gál¹; Tamás Bellák¹; Zoltán Fekécs¹; Krisztián Pajer¹; Dénes Török¹; Norbert Pardi²; Antal Nógrádi¹

¹ University of Szeged, Department of Anatomy, Histology and Embryology, Laboratory of Neural Regeneration, Szeged

² University of Pennsylvania, Department of Microbiology, Philadelphia

PS02.02 What is the barrier to methane? Regional Investigation of the Effects of Methane Inhalation on Blood–Brain Barrier Permeability and Brain Mitochondrial Function in a Rat Model of Sepsis

Ataollah Azarkish¹; Balázs Pifka¹; Ákos Kovács¹; Eszter Flanek¹; Levente Gulácsi¹; Krisztina Spisák¹; László Juhász¹; Andrea Szabó¹; Marietta Zita Poles¹

¹ Albert Szent-Györgyi Medical School, Institute of Surgical Research, Szeged

PS02.03 Anti-inflammatory and neuroprotective effects of inflammasome inhibitors following contusion spinal cord injury

Barnabás Pájer¹; Krisztián Pajer¹; Tamás Bellák¹; Rebeka Kristóf¹; Zoltán Fekécs¹; Dénes Török¹; Ádám Mészáros¹; Antal Nógrádi¹

¹ University of Szeged, Anatomy, Histology and Embryology, Laboratory of Neural Regeneration, Szeged

PS02.04 On-demand activation of secretagogin expression regulates neuroblast migration and cortical regeneration

Csenge Dr. Tóth-Körösi^{1,2}; János Dr. Hanics^{1,2}; Tibor Dr. Harkány^{3,4}; Alán Dr. Alpár^{1,2}

¹ Semmelweis University, Department of Anatomy, Budapest

² SE NAP B Research Group of Experimental Neuroanatomy and Developmental Biology, Budapest

³ Medical University of Vienna, Department of Molecular Neurosciences, Center for Brain Research, Vienna

⁴ Karolinska Institutet, Department of Neuroscience, Solna

LIST OF POSTERS

PS02.05 Neuroimmune crosstalk and pharmacological modulation of segment regeneration

Gabriella Laura Tóth¹; János Schmidt²; Edit Pollák³; Zsolt Pirger¹; István Fodor¹; László Molnár¹

¹ HUN-REN Balaton Limnological Research Institute, Tihany

² Institute of Biochemistry and Medical Chemistry, Medical School, University of Pécs, Pécs

³ Institute of Biology, Faculty of Natural Sciences, University of Pécs, Pécs

PS02.06 Less invasive intraperitoneal delivery of human IL-10 mRNA–LNP promotes morphological and functional recovery after spinal cord contusion injury

Zsombor Perdi¹; Zoltán Fekécs¹; Tamás Bellák¹; Rebeka Kristóf¹; Dénes Török¹; Csaba Szigeti¹;

Norbert Pardi²; Krisztián Pajeri¹; Antal Nógrádi¹

¹ University of Szeged, Szent-Györgyi Albert Medical School, Department of Anatomy, Histology and Embryology, Szeged

² University of Pennsylvania, Department of Medicine, Philadelphia

PS02.07 Novel, engineered fusogenic liposome-based anti-oxidant delivery system improves the blood-brain barrier integrity in aging

Boglárka Dr. Csik^{1,2,3}; Santny Shanmugarama^{3,4}; Roland Dr. Patai^{3,4}; Ádám Dr. Nyúl-Tóth^{3,4};

Zoltán Dr. Ungvári^{1,3,4}

¹ Faculty of Medicine, Semmelweis University, Institute of Preventive Medicine and Public Health, Budapest

² Semmelweis University, Health Sciences Program, Doctoral College, Budapest

³ University Of Oklahoma Health Sciences Center, Department of Neurosurgery, Vascular Cognitive Impairment, Neurodegeneration and Healthy Brain Aging Program, Oklahoma City

⁴ University Of Oklahoma Health Sciences Center, Oklahoma Center for Geroscience and Healthy Brain Aging, Oklahoma City

PS03: Disorders, disease models

PS03.01 Pharmacological inhibition of transient receptor potential ankyrin 1 (TRPA1) ion channel may modulate the electric foot shock-induced acute stress responses in mice

János Konkoly¹; Viktória Kormos¹; Erika Pintér¹; Aya Alakrami¹; Dóra Zelena²; Prabhat Kumar²; Balázs Gaszner³

¹ University of Pécs, Medical School, Department of Pharmacology and Pharmacotherapy, Pécs

² University of Pécs, Medical School, Institute of Physiology, Pécs

³ University of Pécs, Medical School, Institute of Anatomy, Pécs

PS03.02 Novel drug candidate binds to delta subunit containing GABAA receptors and improves spatial memory

Orsolya Huzián^{1,2}; Lajos István Nagy^{2,3}; László Hackler Jr.²; Levente Knapp^{2,3}; Ágnes Katalin Kocsis⁴; Ildikó Szöts⁴; Gábor Tamás⁴; László Géza Puskás^{2,3}; Gábor Molnár⁴

¹ Astridbio Technologies, Szeged

² Aperus Pharma, Szeged

³ Avidin Ltd., Szeged

⁴ University of Szeged, Department of Physiology, Anatomy and Neuroscience, HUN-REN-SZTE Research Group for Cortical Microcircuits, Szeged

PS03.03 Application of dehydroepiandrosterone as a neuroprotective agent for the therapy of Alzheimer's disease in a mouse model

Erika Eliza Kvak¹; Szidónia Farkas¹; Adrienn Szabó¹; Dorottya Várkonyi¹; Evelin Szabó¹; Réka Szabó¹; Dóra Zelena¹

¹ University of Pécs, Medical School, Institute of Physiology, Behavioural Physiology and Stress Research Group, Pécs

PS03.04 Treatment of beta-amyloid-induced increased tonic conductance and cognitive deficits by an alpha 5 GABA inverse agonist

Aoife O Connell¹; Beatriz Calvo-Flores Guzman²; Cameron Keighron³; Ying Zhai¹; Jordi Boix²; Katie Peppercorn⁴; Warren Tate⁴; Henry Waldvogel²; Richard Faull²; Johanna Montgomery²; Leo Quinlan³; Andrea Kwakowsky¹

¹ University of Galway, Pharmacology and Therapeutics, Galway

² University of Auckland, Auckland

³ University of Galway, Physiology, Galway

⁴ University of Otago, Dunedin

PS03.05 Cell type-specific rearrangement of perisomatic inhibition in the valproate model of autism

Judit M. Veres¹; Anita Varga^{2,3}; Reéb Zsófia^{1,3}; Viktor Román^{2,4}; Norbert Hájos^{1,5,6}

¹ HUN-REN Institute of Experimental Medicine, Laboratory of Network Neurophysiology, Budapest

² Gedeon Richter Plc., Laboratory of in vivo Pharmacodynamics, Budapest

³ ELTE Eötvös Loránd University, Institute of Biology, Doctoral School of Biology, Budapest

⁴ Semmelweis University, Richter Department, Budapest

⁵ Indiana University Bloomington, The Linda and Jack Gill Center for Neuroscience, Bloomington

⁶ Indiana University Bloomington, Department of Psychological and Brain Sciences, Program in Neuroscience, Bloomington

PS03.06 Local Microglial Activation in a Subretinal Hemorrhage Mouse Model

Boglárka Balogh^{1,2}; Marietta Zille³; Loretta Péntek^{1,2}; Béla Völgyi^{1,2,4}; Tamás Kovács-Öller^{1,2,4}

¹ Szentágothai Research Centre, University of Pécs, Pécs

² Institute of Biology, Faculty of Sciences, University of Pécs, Department of Neurobiology, Pécs

³ University of Vienna, Division of Pharmacology and Toxicology, Department of Pharmaceutical Sciences, Vienna

⁴ NEURON-066 Rethealthsi Research Group, Pécs

PS03.07 Early Effects of Traumatic Brain Injury on Retinal Ganglion Cells and Microglia in a Mouse Model

Loretta Péntek¹; Endre Czeiter^{2,3}; Krisztina Amrein^{2,3}; Boglárka Balogh¹; Dorina Puskás¹; Béla Völgyi^{1,2}; Tamás Kovács-Öller^{1,2}

¹ Faculty of Sciences, University of Pécs, Pécs

² János Szentágothai Research Centre, University of Pécs, Pécs

³ Medical School, University of Pécs, Pécs

PS03.08 Developing cell-based bioassays for clinical trials – the use of patient-derived induced neurons to study autophagy in the Ftl-HD clinical trial

Kinga Vörös¹; Dimitrios Apostolopoulos²; Souha Klibi^{3,4}; Győző Szenci⁵; Anna A. Abbas¹; Ágnes Varga^{1,4}; Roland Zsoldos^{1,4}; Balázs Kis¹; Bendegúz Sramkó¹; Lea Danics¹; Shaline Fazal²; Szabolcs Takáts⁵; Csaba Kerepesi^{3,4}; A. Roger Barker²; Karolina Pircs^{1,4,6}

¹ HCEMM-Semmelweis University, Institute of Translational Medicine Semmelweis University, HCEMM-SU Neurobiology and Neurodegenerative Diseases Research Group, Budapest

² University of Cambridge, Cambridge

³ HUN-REN SZTAKI, Budapest

⁴ HUN-REN-SZTAKI-SU Rejuvenation Research Group, Budapest

⁵ Eötvös Loránd University, Budapest

⁶ Lund University, Lund

PS03.09 Chemogenetic inhibition of focal epilepsy in an optogenetic mouse model

Péter Sere¹; Anna Zalatnai¹; Tamás Kitka²; Péter Barthó¹

¹ HUN-REN TTK, KPI, Alvási Oszcillációk Kutatócsoport, Budapest

² CERATE Therapeutics, Budapest

PS03.10 Investigation of the role of gap junctions in the generation of synchronous physiological and epileptiform activity in human neocortical tissue, in vitro.

Amirmahdi Mojtahedzadeh^{1,2}; Hanga Dormán²; Estilla Zsófia Tóth²; Réka Bod²; Gábor Nagy³; Attila Bagó³; László Halász³; Loránd Erőss³; Johanna Szabó³; Dániel Fabó³; István Ulbert^{2,3,4}; Lucia Wittner^{2,3,4}; Kinga Tóth²

¹ Semmelweis University, Budapest

² Institute of Cognitive Neuroscience and Psychology, HUN-REN Research Center for Natural Sciences, Budapest

³ Centre of Neurosurgery and Neurointervention, Semmelweis University, Budapest

⁴ Faculty of Information Technology and Bionics, Péter Pázmány Catholic University, Budapest

PS03.11 Comparative study of the locus coeruleus in wild-type and PACAP gene knock-out mice with aging

Marcell Schmidt¹; Dániel Pham¹; Balázs Dániel Fülöp¹; Balázs Gaszner¹; Tünde Tóth¹; Adél Jüngling¹; Dóra Reglődi¹; Andrea Tamás¹

¹ University of Pecs Medical School, Department of Anatomy, HUN-REG-PTE PACAP Research Team, Centre for Neuroscience, Pécs

PS03.12 The effect of cholinergic cell manipulation on learning and memory consolidation in female triple transgenic Alzheimer model mice

Dorottya Csiszár¹; Adrienn Szabó¹; Dorottya Várkonyi¹; Erika Eliza Kvak¹; Szidónia Farkas¹; Dóra Zelena¹

¹ Medical School, University of Pécs, Institute of Physiology, Laboratory of Behavioural and Stress Research, Pécs

PS03.13 Survival of human grafted neuronal progenitor cells in human cortical organotypic slice cultures

Rebeka Stelcz^{1,2}; Vera Deli¹; Eszter Juhász¹; Attila Bagó³; Loránd Erőss³; Boglárka Hajnal³; István Ulbert^{1,3,4}; Ágota Apáti¹; Lucia Wittner^{1,2,3}

¹ HUN-REN Research Centre for Natural Sciences, Budapest

² Semmelweis University Doctoral School, Budapest

³ Semmelweis University Clinics of Neurosurgery and Neurointervention, Budapest

⁴ Péter Pázmány Catholic University Faculty of Information Technology and Bionics, Budapest

PS03.14 Investigating the pathological changes of neuromuscular junctions and perisynaptic immune processes in the TDP-43(A315T) transgenic mouse model of ALS

Boglárka Batka^{1,2}; Orsolya Horváth^{1,2}; Kinga Molnár^{1,2}; Bernát Nógrádi^{1,2}; Péter Klivényi^{1,2}

¹ Albert Szent-Györgyi Medical School, University of Szeged, Department of Neurology, Szeged

² Hungarian Research Network, HUN-REN-SZTE Neuroscience Research Group, Szeged

PS03.15 Investigating the effects of C1q on neuronal cells and its co-occurrence with presynaptic activity markers

Márta Pöcz¹; Vilmos Tóth¹; Vanda Tukacs²; Stefánia Pap^{2,3}; Dominik Mátyás^{2,3}; Tamás Molnár¹; Gábor Juhász²; Katalin A. Kékesi²; József Kardos¹

¹ Eötvös Loránd University, Department of Biochemistry, ELTE NAP Neuroimmunology Research Group, Budapest

² InnoScience Hungary Ltd., Mátranovák

³ Eötvös Loránd University, Department of Anatomy, Cell and Developmental Biology, Doctoral School of Biology, Budapest

PS03.16 Trifluoperazine protects brain slices from hypoosmotic injury

Melinda Szabó¹; Rita Frank^{1,2}; Ákos Menyhárt^{1,2}; Eszter Farkas^{1,2}

¹ Department of Cell Biology and Molecular Medicine, Albert Szent-Györgyi Medical School and Faculty of Science and Informatics, University of Szeged, Szeged

² Hungarian Centre of Excellence for Molecular Medicine, Cerebral Blood Flow and Metabolism Research Group, Szeged

PS03.17 Optimized Cyclopean Steady-State VEP Pipeline for Objective Assessment of Human Stereopsis

János Radó¹; Eszter Mikó-Baráth¹; Péter Hegyi¹; Gábor Jandó¹; Péter Buzás¹

¹ University of Pécs Medical School, Institute of Physiology, Pécs

PS03.18 Transcriptomic alteration of the medial preoptic area in socially isolated rats

Tamara Hajdu¹; Tamás Láng¹; Fanni Dóra^{1,2}; Botond Drahos¹; Réka Kovács¹; Árpád Dobolyi¹

¹ Semmelweis University, Anatomy, Histology and Embryology, Laboratory of Neuromorphology, Budapest

² Semmelweis University, Human Brain Tissue Bank, Budapest

PS03.19 Novel prognostic biomarkers to detect disease progression for personalised ALS patient care

Zalán Kádár^{1,2,3}; Rebeka Kristófi¹; Ádám Mészáros¹; Péter Klivényi^{2,3}; Bernát Nógrádi^{2,3}; Antal Nógrádi¹

¹ Albert Szent-Györgyi Medical School, University of Szeged, Department of Anatomy, Histology and Embryology, Laboratory of Neural Regeneration, Szeged

² Albert Szent-Györgyi Medical School, University of Szeged, Department of Neurology, Szeged

³ Hungarian Research Network, University of Szeged, HUN-REN-SZTE Neuroscience Research Group, Szeged

- PS03.20 Investigation of the effects of a short PACAP fragment in ischemic retinopathy**
Inez Bosnyak¹; Viktoria Lili Bauer¹; Alexandra Vaczy¹; Edina Szabo¹; Dorottya Molitor¹; Balazs Meresz¹; Olivia Orosz²; Tamas Atlasz²; Gabor Toth³; Dora Reglodi¹
¹ Department of Anatomy, HUN-REN-PTE PACAP Research Team, Medical School, University of Pecs, Pecs
² Department of Sports Biology and Kinesiology, Faculty of Sciences, University of Pecs, Pecs
³ Institute of Medical Chemistry, University of Szeged, Szeged
- PS03.21 Evaluation of the effect of the interleukin-1 receptor antagonist Anakinra® in a translational model of inflammation-sensitized hypoxic-ischemic encephalopathy**
Renáta Fábán¹; Ferenc Domoki¹; Gyöngyi Kis²; Marietta Ábel¹; Gábor Remzsó¹; Emma Balog¹; Éva Rózsa¹; Valéria Tóth-Szűki¹; Viktória Kovács¹
¹ Albert Szent-Györgyi Medical School, University of Szeged, Department of Physiology, Experimental Neonatology Research Group, Szeged
² Faculty of Science and Informatics, University of Szeged, Department of Physiology, Anatomy and Neuroscience, Szeged
- PS03.22 APOE Genotype Profiling in Alzheimer's Disease Patients to Support iPSC-Based Investigations**
Orsolya Pantl^{1,2}; Edit Szabó¹; Ágota Apáti¹; Balázs Sarkadi¹
¹ Institute of Molecular Life Sciences, HUN-REN Research Centre for Natural Sciences, Budapest
² Doctoral School, Semmelweis University, Budapest
- PS03.23 Behavioral consequences of the chemogenetic silencing of the ventral tegmental area in rats I.: Psychomotor vigilance and general motivation**
Angelika Bodo^{1,2}; Zsolt Kristóf Bali^{1,2}; Nóra Bruszt¹; Zsóka Mária Ábel^{1,2,3}; Fruzsina Kovács^{1,2,3}; István Hernádi^{1,2,3}
¹ University of Pécs, Szentágotthai Research Centre, Translational Neuroscience Research Group, Pécs
² University of Pécs, Grastyán Translational Research Center, Pécs
³ University of Pécs, Faculty of Sciences, Department of Neurobiology, Pécs
- PS03.24 Investigating the first and second hits in disease development: the vasopressin-deficient (AVP-Cre/Cre) genetic background and prenatal valproate-exposure affects early development of rat pups**
 Katalin Várallyai¹; Evelin Szabó¹; Kristóf László¹; Dóra Zelena¹
¹ University of Pécs, Medical School, Center for Neuroscience, Institute of Physiology, Szentágotthai Research Center, Behavioral Physiology and Stress research group, Pécs
- PS03.25 The histone deacetylase inhibitor SAHA restores blood-brain barrier integrity in a human stem cell-based model of ischemic stroke**
Koppány Párdi¹; Anikó Szecskó^{1,2}; Zuhao Cui^{1,2}; Gergő Porkoláb¹; Zsófia Hoyk¹; Csilla Kovács¹; Janet Folasade Adegbite¹; Nárcisz M. Cser¹; László Déz³; Krisztina Nagy^{3,4}; Virág Fodor¹; Mária A. Deli¹; Szilvia Veszélka¹
¹ HUN-REN Biological Research Centre Szeged, Institute of Biophysics, Biological Barriers Research Group, Szeged
² University of Szeged, Doctoral School of Biology, Szeged
³ HUN-REN Biological Research Centre Szeged, Institute of Biophysics, Biophotonics and Biomicrofluidics Research Group, Szeged
⁴ University of Szeged, Department of Experimental Physics, Institute of Physics, Szeged

PS03.26 Peripherally induced acute neuroinflammation leads to electrophysiological and proteomic changes in the visual system of rats

Stefánia Krisztina Pap^{1,2,3}; Dániel Mittl^{1,2}; Dominik Mátyás^{1,2,3}; Vanda Tukacs^{3,1}; Éva Hunyadi-Gulyás⁴; Zsuzsanna Darula^{4,5}; Katalin Adrienna Kékesi^{3,1,2}; Gábor Juhász^{3,1}

¹ ELTE Eötvös Loránd University, Institute of Biology, Laboratory of Proteomics, Budapest

² ELTE Eötvös Loránd University, Institute of Biology, Department of Physiology and Neurobiology, Budapest

³ InnoScience Ltd., Mátzanovák

⁴ HUN-REN Biological Research Centre, Core Facility Proteomics Research Group, Szeged

⁵ Hungarian Centre of Excellence for Molecular Medicine, Single Cell Omics Advanced Core Facility, Szeged

PS03.27 TRPA1 modulates urocortin 1 turnover in the centrally projecting Edinger-Westphal nucleus in a CGRP-induced migraine model

Ammar Al-Omari¹; Péter Poszovác¹; Balázs Gaszner²; Viktória Kormos¹

¹ University of Pécs Medical School, Department of Pharmacology and Pharmacotherapy, Pécs

² University of Pécs Medical School, Department of Anatomy, Research Group for Mood Disorders, Pécs

PS03.28 The response of peptidergic neurons in the Edinger-Westphal nucleus to chronic stress is modulated by pregnancy

Dániel Hegedüs¹; Zsófia Havasi¹; Zsófia Cezarina Németh²; Viktória Kormos²; Balázs Gaszner¹

¹ University of Pécs Medical School, Department of Anatomy, Research Group for Mood Disorders, Pécs

² University of Pécs Medical School, Department of Pharmacology and Pharmacotherapy, Pécs

PS03.29 Lost in Translation: A Single Developmental Assumption Led to a Decade of Timing Bias in Avian ASD Models

Paulina Hoppa¹; Gergely Zachar¹

¹ Semmelweis Egyetem, Anatómiai, Szövet- és Fejlődéstani Intézet, Budapest

PS03.30 Impaired Thermoregulation in Female 3xTg-AD Mice: NK3 Receptor–Dependent Responses

Dorottya Várkonyi^{1,2}; Erika Eliza Kvak Kvak^{1,2}; Evelin Szabó^{1,2}; Szidónia Farkas^{1,2}; Choi Muyong¹; Dóra Zelena^{1,2}

¹ University of Pécs, Medical School, Institute of Physiology, Pécs

² University of Pécs, Szentágotthai Research Centre, Centre for Neuroscience, Pécs

PS03.31 SIRT3 deficiency unmasks EMPA-mediated modulation of Sirtuin expression following MPTP-induced neurotoxicity

Orsolya Horváth^{1,2,3}; Kinga Molnár¹; Péter Klivényi¹

¹ University of Szeged, Albert Szent-Györgyi Medical School, Department of Neurology, Szeged

² University of Szeged, Doctoral School of Clinical Medicine, Szeged

³ HUN-REN-SZTE Functional Clinical Genetics Research Group, Hungarian Research Network, Szeged

PS03.32 Advancing Two-Photon Calcium Imaging in Glioma Research Through Open-Hardware and Open-Software Innovations

Gergely Katona¹; Andrea Slézia¹; András Dávid²; Ábel Petik³; Dániel Hillier³; Péter Nagy⁴; Kornélia Szébényi⁵; István Ulbert⁶; András Füredi⁴; Attila Kaszás¹

¹ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Multimodal Neurotechnology Research Group, Budapest

² Budapest University of Technology and Economics, Budapest

³ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Visual Systems Neuroscience Research Group, Budapest

⁴ HUN-REN Research Centre for Natural Sciences, Institute of Molecular Life Sciences, Drug Resistance Research Group, Budapest

⁵ HUN-REN Research Centre for Natural Sciences, Institute of Molecular Life Sciences, Metabolic Drug-interactions Research Group, Budapest

⁶ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Integrative Neuroscience Research Group, Budapest

PS03.33 CCL2-CCR2 axis as a driver of neuromuscular denervation in amyotrophic lateral sclerosis

Bernát Nógrádi^{1,2,3}; Kinga Molnár^{4,1}; Rebeka Kristóf⁴; Orsolya Horváth¹; Yu-Ting Huang^{2,3}; Zara Ridgwa^{2,3}; Amaia Elicegui⁵; Sandra Fuertes-Alvarez⁵; Sonia Alonso-Martin⁵; Gábor J. Szebeni⁶; Nikolett Gémes⁶; Abdullah Ramadan^{2,3}; Hannah L. Smith^{2,3}; István A. Krizbai⁴; Roland Patai⁴; László Siklós⁴; Péter Klivényi¹; Helena Chaytow^{2,3}; Thomas H. Gillingerwater^{2,3}

¹ University of Szeged, Department of Neurology, Szeged

² University of Edinburgh, Edinburgh Medical School: Biomedical Sciences, Edinburgh

³ Euan MacDonald Centre for Motor Neuron Disease Research, Edinburgh

⁴ HUN-REN Biological Research Centre, Institute of Biophysics, Szeged

⁵ Biogipuzkoa Health Research Institute, Stem Cells and Aging Group, San Sebastian

⁶ HUN-REN Biological Research Centre, Core Facility, Laboratory of Functional Genomics, Szeged

PS03.34 Thalamocortical network mechanisms underlying absence epilepsy in a humanized mouse model

Zsombor Juhász¹; Aletta Magyar^{1,2}; Péter Berki¹; Péter Barthó³; Ferenc Mátyás^{1,2}; Sándor Borbély^{1,3}

¹ HUN-REN Institute of Experimental Medicine, Neuronal Network and Behaviour Research Group, Budapest

² Semmelweis University, Semmelweis University Doctoral School, Budapest

³ HUN-REN Research Centre for Natural Sciences, Sleep Oscillation Research Group, Budapest

PS03.35 Bursting Neuronal Activity In Vivo: Insights from Pre-Surgical Microelectrode Recordings in Patients with Drug-Resistant Epilepsy

Ágnes Kandrás^{1,2}; Brieg Oude¹; Anthony Pinto¹; Bertrand Mathon^{1,3}; Katia Lehongre¹; Valerio Frazzini^{1,4}; Vincent Navarro^{1,4}

¹ Paris Brain Institute, Paris

² HUN-REN Research Centre for Natural Sciences, Budapest

³ Pitié-Salpêtrière Hospital, Neurosurgery Department, Paris

⁴ Pitié-Salpêtrière Hospital, Epilepsy Unit, Reference Center for Rare Epilepsies, Paris

- PS03.36 Region-specific changes in NECAB2 and calbindin positive interneurons across brain regions involved in the epileptic circuitry in a kainic acid model of temporal lobe epilepsy**
Ádám Szentes¹; Anna Fehér¹; Zsolt-András Nagy¹; Melinda Toth¹; Nándor-István Todor¹; Károly Orbán-Kis¹; Tibor Szilágyi¹; Krisztina Kelemen¹
¹ George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureş, Physiology, Neurophysiology, Târgu Mureş
- PS03.37 Modulation of neuronal firing by β -cyclodextrin-complexed rufinamide and phenytoin in an in vitro temporal lobe epilepsy model**
Zsolt-András Nagy¹; Előd Bomher¹; Ágnes Csüdör²; Ádám Szentes¹; Máté Sárosi²; Rita – Judit Kiss¹; Károly Orbán-Kis¹; Tibor Szilágyi¹
¹ George Emil Palade University of Medicine, Pharmacy, Science and Technology of Târgu Mures, Department of Physiology, Târgu Mureş
² University of Debrecen, Debrecen
- PS03.38 The power of zebrafish: cost-effective, quick, and reliable tool to trace the neurodegenerative effects of micro- and nanoplastics**
Ferenc Budán¹; Gábor Hancsicsák¹; Anna Katinka Mukli¹; Gejin De¹; Alexandra Júlia Hencz¹; Dávid Szép¹; Renáta Gajdács-Dóró¹; Haonan Li¹; Ágnes Végvári¹; József Pál¹; Szilárd Pál²; Ádám Horváth²; Domokos Máthé^{3,4}; Attila Sík¹
¹ University of Pécs, Medical School, Institute of Physiology, Pécs
² University of Pécs, Institute of Pharmaceutical Technology and Biopharmacy, Pécs
³ Faculty of Medicine, Semmelweis University,, Department of Biophysics and Radiation Biology-HUN-REN TKI 1094, Budapest
⁴ HCEMM-SU In Vivo Imaging Advanced Core Facility, Budapest
- PS03.39 Studying the Effect of Cariprazine in Induced Neurons Directly Reprogrammed from Huntington's Disease Patient Fibroblasts**
Anna Anoir Abbas^{1,2}; Idris Jimoh²; Balázs Kis^{1,2}; Anikó Göblös³; Roger A. Barker⁴; Zoltán L. Veréb³; Johan Jakobsson⁵; Lajos Kemény^{1,3}; Tibor Pankotai^{1,3}; Judit Mária Molnár²; Karolina Pircs^{2,1,5}
¹ HCEMM, Szeged
² Semmelweis University, Budapest
³ University of Szeged, Szeged
⁴ University of Cambridge, Cambridge
⁵ Lund University, Lund
- PS03.40 Shared Cellular Hubs as Potential Therapeutic Targets in Osteoarthritis and Alzheimer's Disease**
László Ducza¹; Wang Zhangzheng¹; Krisztián Juhász¹; Csaba Matta¹; Luca Paluska¹; Al-Mnaseer Ahmed Mohammed Fahih¹; Mansour Hana¹; Roland Takács¹
¹ University of Debrecen, Faculty of Medicine, Anatomy, Histology and Embryology, Debrecen
- PS03.41 NLRP3 inflammasome activation is a potential driver of motor neuron degeneration in ALS**
Botond Csont^{1,2}; Bernát Nógrádi^{1,2}; Tamás Ferenc Polgár^{1,2}; Miklós Nemes^{1,2}; Orsolya Horváth^{1,2}; Péter Klivényi^{1,2}
¹ Albert Szent-Györgyi Medical School, University of Szeged, Department of Neurology, Szeged
² Hungarian Research Network, University of Szeged, HUN-REN-SZTE Neuroscience Research Group, Szeged

PS04: Cellular neuroscience**PS04.01 Tracking of the Transient Receptor Potential Ankyrin 1 (TRPA1) receptor protein by fluorescent JT010 ligand in wild type and mutant TRPA1 variants expressing cell lines and endogenous TRPA1 expressing cells**

Katalin Szabó¹; Géza Makkai^{2,4}; Péter Ábrányi-Balogh³; János Konkoly¹; Dóra Judit Kiss³; Balázs István Tóth⁴; Viktória Kormos¹; György M Keserű³; Dóra Zelena⁴; Erika Pintér¹

¹ University of Pécs, Medical School, Institute of Pharmacology and Pharmacotherapy, Pécs

² University of Pécs Medical School, Institute of Physiology, Nano-Bio-Imaging Core Facility, Pécs

³ Research Centre for Natural Sciences HUN-REN, Institute of Organic Chemistry, Budapest

⁴ University of Pécs, Medical School, Institute of Physiology, Pécs

PS04.02 Connectivity of enkephalinergic interneurons in the superficial laminae of the spinal dorsal horn

Lidia Gömöri^{1,2}; Kornél Kovács²; Tobin Koshy²; Ayesha Muneeb²; Levente Bögsz²; Éva Kókai²; Miklós Sivadó²; Timea Krisztina Nánásiné Molnár²; Angelika Varga²; Péter Szücs^{1,2}

¹ University of Debrecen, HUN-REN Neuroscience Research Group, Debrecen

² University of Debrecen, Department of Anatomy, Histology and Embryology, Debrecen

PS04.03 Specialized axon initial segment enables low firing threshold and rapid action potential output in fast-spiking interneurons of the human neocortex

Emőke Bakos¹; Ádám Tiszlavicz¹; Viktor Szegedi¹; Abdennour Douida¹; Szabina Furdan¹; Daphne Welter²; Jonathan Laundry²; Balázs Bende¹; Gábor Hutóczki³; Pál Barzóc⁴; Gábor Tamás⁴; Vladimir Benes²; Attila Szűcs⁵; Karri Lamsa¹

¹ Hungarian Center of Excellence for Molecular Medicine, Szeged

² EMBL, Heidelberg

³ University of Debrecen, Debrecen

⁴ University of Szeged, Szeged

⁵ Eötvös Loránd University, Budapest

PS04.04 iGluSNFR3 imaging of individual hippocampal CA1 pyramidal cell synapses in vitro reveals heterogeneous release probability and short-term plasticity

Noemi Holderith¹; Zoltan Nusser¹

¹ HUN-REN Institute of Experimental Medicine, Budapest

PS04.05 Anatomical investigation of regions generating spontaneous population activity in the human epileptic hippocampal formation

Nour Essam^{1,2}; Dorka Nagy³; Kinga Tóth¹; Loránd Erőss⁴; Dániel Fabó³; István Ulbert^{1,2,4}; Lucia Wittner^{1,4}

¹ HUN-REN Research Centre for Natural Sciences, 1117 Budapest

² Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, 1083 Budapest

³ Eötvös Loránd University, Faculty of Natural Sciences, 1117 Budapest

⁴ National Institute of Mental Health, Neurology and Neurosurgery, 1145 Budapest

PS04.06 Altered molecular composition of a specific subset of prefrontal cortical excitatory synapses in schizophrenia

Andrea Lorincz¹; Maria Ashaber¹; Zoltan Nusser¹

¹ HUN-REN Institute of Experimental Medicine, Laboratory of Cellular Neurophysiology, Budapest

- PS04.07 Semi-automated workflow for the post-hoc histological characterization of neurons recorded in behaving mice with one-photon microscopy**
Hanga Dormán¹; Elja Belhade²; Michael Graupner²; Lucia Wittner¹
¹ HUN-REN Research Centre for Natural Sciences, Budapest
² Saints-Pères Paris Institute for the Neurosciences, Paris
- PS04.08 Hybrid synapses: possible electrical-chemical synapse interactions in the mouse retina**
Liliana Ross¹; Gergely Szarka¹; Boglárka Balogh¹; Loretta Péntek¹; Tamás Kovács-Öller¹; Béla Völgyi¹
¹ University of Pécs, Pécs
- PS04.09 Synapse loss in the hippocampus of depressed patients**
Abigél Sebők-Tornai^{1,2}; Péter Szocsics^{3,4}; Zsófia Maglóczy^{3,4}; Péter Gombás⁵; Craig A Stockmeier⁶; Boldizsár Czéh^{1,2}
¹ University of Pécs, Szentágotthai János Research Centre, Neurobiology of Stress Research Group, Pécs
² University of Pécs, Medical School, Department of Laboratory Medicine, Pécs
³ HUN-REN Institute of Experimental Medicine, Human Brain Research Laboratory, Budapest
⁴ Semmelweis University, Department of Psychiatry and Psychotherapy, Budapest
⁵ St. Borbála Hospital, Department of Pathology, Tatabánya
⁶ University of Mississippi Medical Center, Department of Psychiatry and Human Behavior, Jackson MS
- PS04.10 Studying neuronal autophagy in human ageing using induced neurons directly reprogrammed from adult human dermal fibroblasts**
Roland Zsoldos^{1,2}; Kinga Vörös¹; Zsófia Koltai¹; Chandramouli Muralidharan³; Anikó Göblös⁴; Idris János Jimoh⁵; Bence Király²; Anna Anoir Abbas¹; Balázs Kis¹; Ágnes Varga^{1,2}; Csaba Kerepesi^{2,6}; Johan Jakobsson³; Mária Judit Molnár⁵; Lajos Kemény⁴; Karolina Pircs^{1,2,3}
¹ HCEMM-SU Neurobiology and Neurodegenerative Diseases Research Group, Institute of Translational Medicine, Semmelweis University, Budapest
² HUN-REN-SZTAKI-SU Rejuvenation Research Group, Office for Supported Research Groups (TKI), Hungarian Research Network (HUN-REN), Budapest
³ Laboratory of Molecular Neurogenetics, Lund University, Lund
⁴ HCEMM-Szeged University, Szeged University, Szeged
⁵ Institute of Genomic Medicine and Rare Disorders, Semmelweis University, Budapest
⁶ Institute for Computer Science and Control (SZTAKI), Hungarian Research Network (HUN-REN), Budapest
- PS04.11 Rejuvenation in human derived induced neurons**
Vivien Pillár¹
¹ Institute of Translational Medicine, Neurobiology and Neurodegenerative Diseases Research Group, Budapest
- PS04.12 Conserved Kir channel mechanisms governing intrinsic excitability in human and rodent parvalbumin neurons**
Karri Lamsa¹
¹ Hungarian Centre of Excellence for Molecular Medicine, Szeged

PS04.13 Neuron density and inhibitory balance predict local synchrony in vitro but not in vivo in the human neocortex

Katalin Zs. Tóth^{1,2}; Réka Bod^{1,2}; Yossef Michaeli^{1,2}; Orsolya Farkas^{1,3}; Loránd Erőss⁴; László Entz⁴; Dániel Fabó⁴; István Ulbert^{1,4,3}; Kinga Tóth¹; Lucia Wittner^{1,4}

¹ Hun-REN Research Centre for Natural Sciences, Budapest

² Semmelweis University Doctoral School, Budapest

³ Péter Pázmány Catholic University, Faculty of Information Technology and Bionics, Budapest

⁴ Semmelweis University Clinics of Neurosurgery and Neurointervention, Budapest

PS04.14 Investigation of Autophagy Changes in Human Induced Neurons Using Live-Cell Imaging

Zsófia Koltai¹; Roland Zsoldos^{1,2}; Kinga Vörös¹; Chandramouli Muralidharan³; Anikó Göblös⁴; Idris János Jimoh⁵; Bence Király²; Anna Anoir Abbas¹; Balázs Kis¹; Ágnes Varga¹; Csaba Kerepesi^{2,6}; Johan Jakobsson³; Mária Judit Molnár⁵; Lajos Kemény⁴; Karolina Pircs¹

¹ HCEMM-SU, Neurobiology and Neurodegenerative Diseases Research Group, Semmelweis University, Budapest

² HUN-REN-SZTAKI-SU Rejuvenation Research Group, Office for Supported Research Groups (TKI), Hungarian Research Network (HUN-REN), Budapest

³ Lund University, Laboratory of Molecular Neurogenetics, Lund

⁴ HCEMM, Szeged University, Szeged

⁵ Institute of Genomic Medicine and Rare Disorders, Faculty of Medicine, Semmelweis University, Budapest

⁶ Institute for Computer Science and Control (SZTAKI), Hungarian Research Network (HUN-REN), Budapest

PS04.15 Hunting for drugs: repurposing AMPK-targeting drugs in Huntington's disease

Balázs Kis¹; Daniella Hühn²; Zsófia Márta Mező¹; Ágnes Varga^{1,3}; Anna Anoir Abbas¹; Idris Jimoh⁴; Ulrike Uhrig⁵; Zádori Dénes⁶; Péter Klivényi⁶; Anikó Göblös⁷; A. Barker Roger⁸; Lajos Kemény⁷; Mária Judit Molnár⁴; Oscar Fernandez-Capetillo^{2,9}; Karolina Pircs^{1,3,10}

¹ HCEMM-Semmelweis University, Institute of Translational Medicine, HCEMM-SU Neurobiology and Neurodegenerative Diseases Research Group, Budapest

² Karolinska Institute, Division of Genome Biology, Department of Medical Biochemistry and Biophysics, Science for Life Laboratory, Stockholm

³ HUN-REN SZTAKI-SU, Rejuvenation Group, HUN-REN Supported Research Groups, Budapest

⁴ Institute of Genomic Medicine and Rare Disorders, Semmelweis University, Faculty of Medicine, Budapest

⁵ EMBL, Chemical Biology Core Facility, Heidelberg

⁶ Albert Szent-Györgyi Clinical Centre, Albert Szent-Györgyi Faculty of Medicine, University of Szeged, Department of Neurology, Szeged

⁷ HCEMM-USZ, University of Szeged, Human neuron physiology and therapy Core Group, Szeged

⁸ Wellcome-MRC Cambridge Stem Cell Institute & John van Geest Centre for Brain Repair, Department of Clinical Neurosciences, Cambridge

⁹ Spanish National Cancer Research Centre, Genomic Instability Group, Madrid

¹⁰ HCEMM-USZ, University of Szeged, Human neuron physiology and therapy Core Group, Szeged

- PS04.16 State-dependent recruitment of human cortical microcircuits: enhanced local synchrony and phase alignment in vitro compared to in vivo condition**
 Réka Bod^{1,2}; Yossef Michaeli³; Orsolya Farkas^{1,4}; Loránd Erőss⁵; László Entz⁵; Dániel Fabó⁵; István Ulbert^{1,4,5}; Kinga Tóth¹; Lucia Wittner^{1,5}
¹ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Integrative Neuroscience, Budapest
² Semmelweis University Doctoral School, János Szentágotthai Neurosciences Division, Budapest
³ Semmelweis University, Faculty of Medicine, Budapest
⁴ Péter Pázmány Catholic University, Faculty of Information Technology and Bionics, Budapest
⁵ Semmelweis University, Clinics of Neurosurgery and Neurointervention, Budapest
- PS04.17 Characterization of an aging related ATF3 driven galectin-3 expressing microglial cell population**
 Tamás Lakat¹; Tamás Kiss^{1,2}; Alexandra Krisztin-Németh³; Anna Abbas⁴; Kinga Vörös⁴; Karolina Pircs⁴; István Pesti³; Yaqub Mir⁵; Ádám Légrádi³
¹ Data Science and Me Ltd., Kecskemét
² 1st Department of Paediatrics, Semmelweis University, Budapest
³ Department of Cell Biology and Molecular Medicine, University of Szeged, Szeged
⁴ Neurobiology and Neurodegenerative Diseases Research Group, HCEMM-Semmelweis University, Budapest
⁵ Lund University Hospital, Department of Clinical Sciences, Epilepsy Centre, Lund
- PS04.18 Selective, genetically induced increase in synaptic vesicle priming**
 Mohammad Aldahabi¹; Flora Balint¹; Andrea Lorincz¹; Noa Lipstein²; Nils Brose³; Zoltan Nusser¹
¹ HUN-REN Institute of Experimental Medicine, Laboratory of Cellular Neurophysiology, Budapest
² Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP), Berlin
³ Max Planck Institute for Multidisciplinary Sciences, Department of Molecular Neurobiology, Göttingen
- PS04.19 Medio-lateral gradients in the medial entorhinal cortex**
Áron Olivér Kolozsvári¹; Szilárd Szőcs¹; Ágnes Agócs-Laboda¹; Gergely Szarka¹; Béla Völgyi¹; Dominik Berényi¹; Csaba Varga¹
¹ Szentágotthai Research Centre, Institute of Physiology, University of Pécs, Medical School, Pécs
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Joanna Sandle¹; Femke Waleboer²; Aneta Lisowska³; Mark Hoogendoorn³; Brian Kalmbach⁴; Ed S. Lein⁴; Rachel Dalley⁴; Brian Lee⁴; Christiaan P.J. de Kock²; Gábor Tamás¹; Gábor Molnár¹
¹ University of Szeged, Department of Physiology, Anatomy and Neuroscience, Szeged
² Vrije Universiteit Amsterdam, Center for Neurogenomics and Cognitive Research, Amsterdam
³ Vrije Universiteit Amsterdam, Department of Computer Science, Amsterdam
⁴ Allen Institute for Brain Science, Seattle
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Ágnes Agócs-Laboda¹; Szilárd Szőcs¹; Áron Olivér Kolozsvári¹; Rashmit Kaur²; Zoltán Máté³; Zsuzsanna Erdélyi³; Ferenc Erdélyi³; Nóra Henn-Mike¹; Klaudia Barabás¹; Csaba Földy²; Csaba Varga¹
¹ Szentágotthai Research Centre, Inst. of Physiology, Medical School, University of Pécs, Pécs
² Brain Research Institute, Faculties of Medicine and Science, University of Zürich, Zürich
³ HUN-REN Institute of Experimental Medicine, Medical GeneTechnology Unit, Budapest

PS04.22 Glial fibrillar acidic protein (GFAP)-positive neurons in human postoperative neocortical brain samples

Eszter Juhász¹; Estilla Zs. Tóth¹; Liza Szalai¹; Rebeka Stelcz¹; Loránd Erőss²; Péter Orbay²; Imre Fedorcsák²; István Ulbert^{1,2,3}; Kinga Tóth¹; Lucia Wittner^{1,2}

¹ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest

² Semmelweis University Clinics of Neurosurgery and Neurointervention, Budapest

³ Péter Pázmány Catholic University, Faculty of Information Technology and Bionics, Budapest

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István Fodor¹; Luis Alfonso Yañez-Guerra²; Bence Kiss³; János Schmidt³; Veronica Rivi⁴; Cristina Benatti⁴; Edit Pollák⁵; László Molnár¹; Tomohiro Osugi⁶; Shin Matsubara⁶; Honoo Satake⁶; Tibor Kiss¹; Károly Elekes¹; Zsolt Pirger¹

¹ HUN-REN Balaton Limnological Research Institute, Tihany

² Institute for Life Sciences, University of Southampton, Southampton

³ Institute of Biochemistry and Medical Chemistry, Medical School, University of Pécs, Pécs

⁴ Metabolic and Neural Sciences, University of Modena and Reggio Emilia, Modena

⁵ Institute of Biology, Faculty of Natural Sciences, University of Pécs, Pécs

⁶ Bioorganic Research Institute, Suntory Foundation for Life Sciences, Seika

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István Fodor¹; Bence Gálik²; Péter Urbán²; János Schmidt³; Réka Svigruha¹; Sándor Gonda^{1,4}; György Kemenes^{1,5}; Ildikó Kemenes^{1,5}; Zsolt Pirger¹

¹ HUN-REN Balaton Limnological Research Institute, Tihany

² Genomics and Bioinformatics Core Facilities, Szentágotthai Research Centre, University of Pécs, Pécs

³ Institute of Biochemistry and Medical Chemistry, Medical School, University of Pécs, Pécs

⁴ Department of Pharmacognosy, University of Debrecen, Debrecen

⁵ School of Life Sciences, Sussex Neuroscience, Brighton

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Abdenmour Douida¹; Viktor Szegedi^{1,2}; Attila Szucs³; Emőke Bakos^{1,2}; Ádám Tiszlavicz¹; Daphne Welter⁴; Jonathan Landry⁴; Szabina Furdan¹; Gabor Hutocski⁵; Pal Barzo⁶; Gabor Tamas⁷; Karri Lamsa^{1,2}

¹ Hungarian Center of Excellence for Molecular Medicine, Research Group for Human neuron physiology and therapy, Szeged

² University of Szeged, Department of Physiology, Anatomy and Neuroscience, Szeged

³ Eötvös Loránd University, Neuronal Cell Biology Research Group, Budapest

⁴ European Molecular Biology Laboratory, Heidelberg

⁵ University of Debrecen Clinical Centre, Department of Neurosurgery, Debrecen

⁶ University of Szeged, Department of Neurosurgery, Szeged

⁷ University of Szeged, Department of Physiology, Anatomy and Neuroscience, ELKH-SZTE Research Group for Cortical Microcircuits, Szeged

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Anikó Szecskó^{1,2}; Koppány Párdi¹; Zuhao Cui^{1,2}; Gergő Porkoláb^{1,3}; Zsófia Hoyk¹; Csilla Kovács¹; Nárcisz M. Cser¹; Krisztina Tóth⁴; Ádám Dénes⁴; Csilla Sajben⁵; Roland Tengölics⁵; Mária A. Deli¹; Szilvia Veszelka¹

¹ HUN-REN Biological Research Centre, Institute of Biophysics, Biological Barriers Research Group, Szeged

² University of Szeged, Doctoral School of Biology, Szeged

³ Trinity College Dublin, Smurfit Institute of Genetics, Dublin

⁴ HUN-REN Institute of Experimental Medicine, Neuroimmunology Research Group, Budapest

⁵ HUN-REN Biological Research Centre, Core Facilities, Metabolomics Laboratory, Szeged

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Paulina Hoppa¹; Katalin Berta¹; Teadora Tyler¹; Erzsébet Frank¹; Gergely Rácz²; István Adorján¹

¹ Semmelweis Egyetem, Anatómiai, Szövet- és Fejlődéstani Intézet, Budapest

² Semmelweis Egyetem, Patológiai és Kísérleti Rákkutató Intézet, Budapest

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Teadora Tyler^{1,2}; Gábor M. Mórotz^{3,4,5}; Tamás Kovács^{3,4,5}; Zoltán V. Varga^{3,4,5}; Zdravko Petanjek⁶; Árpád Dobolyi^{1,2}; István Adorján²

¹ Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

² Semmelweis University, Department of Anatomy, Histology and Embryology, Budapest

³ Semmelweis University, Department of Pharmacology and Pharmacotherapy, Center for Pharmacology and Drug Research & Development, Budapest

⁴ Semmelweis University, HCEMM-SU Cardiometabolic Immunology Research Group, Budapest

⁵ MTA-SE Momentum Cardio-oncology and Cardio-immunology Research Group, Budapest

⁶ University of Zagreb, Croatian Institute for Brain Research, Zagreb

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János Horváth¹; Sándor Bordé¹; Boglárka Bozsó¹; Robert Averkin¹; Gábor Tamás¹

¹ University of Szeged Faculty of Science and Informatics, Physiology, Anatomy and Neuroscience, HUN-REN-SZTE Research Group for Cortical Microcircuits, Szeged

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¹ HUN-REN Biological Research Centre, Szeged

² Doctoral School of Biology, University of Szeged, Szeged

³ Wyss Institute, Harvard University, Boston

⁴ University of Luxembourg, Belvaux

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Dániel Balogh¹; János Brunner¹; Antónia Arszovszki¹; Eszter Sipos¹; János Szabadics¹

¹ HUN-REN Institute of Experimental Medicine, Cellular Neuropharmacology, Budapest

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Shima Rashidiani¹; Viktória Kormos²; Balázs Gaszner³; , Dóra Zelena⁴

¹ Institute of Physiology, Medical School, University of Pécs, Hungary, Pécs

² Department of Pharmacology and Pharmacotherapy, Medical School, University of Pécs, Pécs

³ Department of Anatomy, Medical School and Research Group for Mood Disorders, Centre for Neuroscience, University of Pécs, Pécs

⁴ Institute of Physiology, Medical School, University of Pécs, Pécs

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Melinda E. Gazdik^{1,2,3}; Anna A. Abbas¹; Balázs Kis¹; Ádám Tiszlavicz⁴; Lea Danics¹; Kai K. Kummer⁵; Katalin Schlett²; Karri P. Lämsä⁴; Karolina Pircs^{1,3}; Attila Szűcs^{1,2,3}

¹ Semmelweis University, Institute of Translational Medicine, HCEMM-SU Neurobiology and Neurodegenerative Diseases Research Group, Budapest

² Institute of Biology, Eötvös Loránd University, Department of Physiology and Neurobiology, Cellular Neurobiology Research Group, Budapest

³ Hungarian Research Network (HUN-REN), Office for Supported Research Groups (TKI), HUN-REN-SZTAKI-SU Rejuvenation Research Group, Budapest

⁴ Hungarian Centre of Excellence for Molecular Medicine, HCEMM Human Neuron Physiology and Therapy Core Group, Szeged

⁵ Institute of Physiology, Medical University of Innsbruck, Innsbruck

PS05: Systems neuroscience

PS05.01 Investigating the role of major cholinergic cell populations during Pavlovian conditioning

Réka Kispál¹; Írisz Szabó¹; Dániel Schlingloff^{1,2}; Balázs Hangya^{1,3}

¹ HUN-REN Institute of Experimental Medicine, Lendület Laboratory of Systems Neuroscience, Budapest

² University of Copenhagen, Laboratory of Systems Neuroscience, Copenhagen

³ Medical University of Vienna, Division of Neurophysiology, Center for Brain Research, Vienna

PS05.02 Investigating neuromodulator release during implicit learning in a stochastic alternating serial reaction time task in mice

Yahya Sulok¹; Írisz Szabó¹; Réka Kispál¹; Hanga Dormán¹; Balázs Hangya^{1,2}

¹ HUN-REN Institute of Experimental Medicine, Lendület Laboratory of Systems Neuroscience, Budapest

² Medical University of Vienna, Center for Brain Research, Division of Neurophysiology, Vienna

PS05.03 Effects of post-weaning social isolation on baseline and recovery sleep and EEG patterns in male rats

Dorka Kárács¹; Tünde Hajnik¹; Attila Tóth¹

¹ Eötvös Loránd University, Faculty of Science, Physiology and Neurobiology, In vivo electrophysiology, Budapest

PS05.04 High-density spatiotemporal single-unit activity profiling and cell-type identification in the human neocortex

Orsolya Farkas^{1,2}; William Munoz³; Richard Hardstone³; Brian Coughlin⁴; Irene Caprara³; Mohsen Jamali³; István Ulbert^{1,2,5}; Ziv M. Williams³; Sydney S. Cash⁴; Angelique C. Paulk⁴; Domokos Meszéna^{1,2,4}

¹ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Integrative Neuroscience Group, Budapest

² Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Budapest

³ Massachusetts General Hospital, Harvard Medical School, Department of Neurosurgery, Boston, MA

⁴ Center for Neurotechnology and Neurorecovery, Massachusetts General Hospital, Harvard Medical School, Department of Neurology, Boston, MA

⁵ Semmelweis University, Faculty of Medicine, Department of Neurosurgery and Neurointervention, Budapest

PS05.05 Investigating neuromodulator dynamics with fiber photometry in mice during a reversal learning paradigm

Annamária Benke¹; Írisz Szabó¹; Bálint Király^{1,2}; Yi Shih Lee¹; Vivien Pillár^{1,3}; Balázs Hangya^{1,4}

¹ HUN-REN Institute of Experimental Medicine, Lendület Laboratory of Systems Neuroscience, Budapest

² Institute of Artificial Intelligence, Medical University of Vienna, Vienna

³ Semmelweis University – HCEMM, Neurobiology and Neurodegenerative Diseases Research Group, Budapest

⁴ Center for Brain Research, Medical University of Vienna, Division of Neurophysiology, Vienna

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Abel Petik^{1,2}; Klaudia Csikos^{1,3}; Domonkos Horvath^{1,2}; Attila B. Dobos¹; Botond Roska⁴; Daniel Hillier^{1,2}

¹ Institute of Cognitive Neuroscience and Psychology, HUN-REN Research Centre for Natural Sciences, Budapest

² Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest

³ János Szentágothai Neuroscience Doctoral School, Semmelweis University, Budapest

⁴ Institute for Molecular and Clinical Ophthalmology Basel, Basel

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Kolos Németh¹; Márta Jelítai¹; Viktor Varga¹

¹ Institute of Experimental Medicine, Subcortical Modulation Research Group, Budapest

- PS05.08 Directional bias of dendrites in parvalbumin-expressing wide-field amacrine cells of the rat retina**
Levente Rác¹; Fruzsina György¹; Ildikó Telkes¹; Katalin Fusz¹; Tibor Zoltán Jánosi^{2,1}; Péter Kóbori¹; Kristóf László¹; Péter Buzás¹
¹ University of Pécs Medical School, Institute of Physiology, Pécs
² University of Pécs Medical School, István Ábrahám Nano-Bio-Imaging Core Facility, Pécs
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¹ HUN-REN Institute of Experimental Medicine, Budapest
² Roska Tamás Doctoral School of Sciences and Technology, Budapest
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Gergely Szarka^{1,2,3}; Áron Olivér Kolozsvári³; Csaba Varga³; Béla Völgyi^{1,2}
¹ University of Pécs, Szentagothai Research Centre, Pecs
² University of Pécs, Faculty of Natural Sciences, Neurobiology Department, Pecs
³ University of Pécs, Medical School, Institute of Physiology, Pecs
- PS05.11 Neural circuits involving the cholinergic lateral septum might mediate processing of aversive stimuli**
Victoria Lyakhova^{1,2}; Dániel Schlingloff^{1,3}; Réka Kispál¹; Ágnes Simon^{1,4}; Erika Gyengesi Bilaver⁵; Balázs Hangya^{1,6}
¹ HUN-REN Institute of Experimental Medicine, Lendület Laboratory of Systems Neuroscience, Budapest
² Semmelweis University, Doctoral College, Budapest
³ University of Copenhagen, Department of Neuroscience, Systems Neuroscience Laboratory, Copenhagen
⁴ University of Szeged, Albert Szent-Györgyi School of Medicine, Szeged
⁵ Western Sydney University, School of Medicine, Penrith
⁶ Medical University of Vienna, Center for Brain Research, Division of Neurophysiology, Vienna
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Róbert Layouts¹; Ferenc Csikor¹; Márton A. Hajnal¹; Gergő Orbán¹
¹ HUN-REN Wigner Research Centre for Physics, Department of Computational Sciences, Computational Systems Neuroscience Lab, Budapest
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Ferenc Csikor¹; Balázs Mészéna¹; Katalin Ócsai²; Gergő Orbán¹
¹ HUN-REN Wigner Research Centre for Physics, Department of Computational Sciences, Computational Systems Neuroscience Lab, Budapest
² Budapest University of Technology and Economics, Institute of Mathematics, Department of Algebra and Geometry, Budapest
- PS05.14 Pup induced activation pattern of distinct posterior intralaminar thalamic neuron types in female mice**
András Lukács¹; Szilvia Bartók¹; Melinda Cservenák¹; Árpád Dobolyi¹
¹ Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

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Domonkos Horváth^{1,2}; Klaudia Csikos^{1,3}; Abel Petik^{1,2}; Alan Urban⁴; Botond Roska⁵; Daniel Hillier^{1,2}

¹ HUN-REN Research Centre for Natural Sciences, Budapest

² Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Budapest

³ Semmelweis University Doctoral School, Budapest

⁴ Vlaams Instituut voor Biotechnologie, Ghent

⁵ Institute for Molecular and Clinical Ophthalmology Basel, Basel

PS05.16 Acetylcholine and dopamine track progression in the serial reaction time task in mice

Hanga Dormán¹; Yahya Sulok¹; Írisz Szabó¹; Vivien Pillár²; Bálint Király³; Balázs Hangya³

¹ HUN-REN Institute of Experimental Medicine, Budapest

² Semmelweis University, Budapest

³ Medical University of Vienna, Vienna

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Klaudia Csikós^{1,2}; Ábel Petik^{1,3}; Domonkos Horváth^{1,3}; Alan Urban⁴; Dániel Hillier^{1,2,3}

¹ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest

² Semmelweis University Doctoral School, Budapest

³ Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Budapest

⁴ Neuro-Electronics Research Flanders (NERF), VIB, Department of Neuroscience KU Leuven, *imec*, Leuven

PS05.18 Home cage gamma oscillation pattern in the rat prelimbic area predicts behavior in the modified successive alley paradigm

Levente Gellért¹; Lee Qun²; Jiale Wang³; Antal Berényi^{1,4,5}

¹ University of Szeged, Department of Physiology, MTA-SZTE "Momentum" Oscillatory Neural Networks Research Group, Szeged

² Xuzhou Medical University, Research Center for Biochemistry and Molecular Biology, Jiangsu Key Laboratory of Brain Disease and Bioinformation, Xuzhou

³ École Supérieure de Physique et de Chimie Industrielles de la Ville de Paris, Paris

⁴ Neunos ZRt, Szeged, 6725, Hungary, Szeged

⁵ University of Szeged, HCEMM-SZTE Magnetotherapeutics Research Group, Szeged

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Rege Sugárka Papp^{1,2}; Miklós Palkovits^{1,2}

¹ Semmelweis University, Department of Anatomy, Histology and Embryology, Budapest

² Semmelweis University, Human Brain Tissue Bank, Budapest

PS05.20 State-dependent inter-slice synchronization in isolated cortical tissue revealed by AI-driven spectral analysis

Mihály Rámpay^{1,2}; Kinga Tóth¹; Réka Bod¹; Nour Essam¹; Lucia Wittner¹; István Ulbert¹

¹ HUN-REN RCNS, CPI, Integrative Neuroscience Research Group, Budapest

² Semmelweis University, János Szentágothai Neuroscience Doctoral School, Institute of Experimental Medicine, Budapest

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Ákos Arató¹; Barnabás Dudás¹; Gábor Perlaki¹; Gergely Orsi¹; Nagy Szilvia Anett¹; Gegely Darnai¹; József Janszky¹

¹ University of Pécs, Pécs

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Orsolya Horváth^{1,2}; Petra Csizmadia¹; Nóra Csikós¹; Lili Kővári^{1,3}; Szabolcs Várbíró^{4,5}; Dóra Gerszi⁵; Dorina Greff⁵; Zsófia Anna Gaál¹

¹ Institute of Cognitive Neuroscience and Psychology, HUN-REN Research Centre for Natural Sciences, Budapest

² Doctoral School of Psychology (Cognitive Science), Budapest University of Technology and Economics, Budapest

³ Doctoral School of Psychology, ELTE Eötvös Loránd University, Budapest

⁴ Department of Obstetrics and Gynecology, University of Szeged, Szeged

⁵ Centre for Translational Medicine, Semmelweis University, Budapest

PS06.03 Differential association between electrophysiological sleep and depression given ADHD risk and pharmacotherapy

Vivien Reicher¹; Boglárka Kertész²; Róbert Bódizs³; Orsolya Szalárdy³; János M. Réthelyi⁴; Nóra Bunford¹

¹ Research Centre for Natural Sciences, Budapest, Institute of Cognitive Neuroscience and Psychology, Clinical and Developmental Neuropsychology Research Group, Budapest

² Eötvös Loránd University, Institute of Psychology, Budapest

³ Semmelweis University, Institute of Behavioural Sciences, Budapest

⁴ Semmelweis University, Department of Psychiatry and Psychotherapy, Budapest

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Olívia Mária Huszár¹; Noémi Harcsa-Pintér¹; Gabriella Eördegh²; Kálmán Tót¹; Ádám Kiss³; András Kelemen³; Ádám Schlégl⁴; Attila Nagy¹

¹ Albert Szent-Györgyi Medical School, University of Szeged, Department of Physiology, Szeged

² Faculty of Health Sciences and Social Studies, University of Szeged, Department of Theoretical Health Sciences and Health Management, Szeged

³ University of Szeged, Department of Technical Informatics, Szeged

⁴ Medical School, University of Pécs, Department of Orthopaedics, Pécs

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Noémi Harcsa-Pintér¹; Kálmán Dr. Tót¹; Adél Papp¹; Olívia Mária Huszár¹; Gabriella Dr. Eördegh²; Balázs Dr. Bodosi¹; Anett Dr. Csáti³; János Dr. Tajti³; Attila Dr. Nagy¹

¹ Albert Szent-Györgyi Medical School, University of Szeged, Department of Physiology, Szeged

² Faculty of Health Sciences and Social Studies, University of Szeged, Department of Theoretical Health Sciences and Health Management, Szeged

³ University of Szeged, Department of Neurology, Szeged

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Szabolcs Sáringer¹; András Benyhe¹; Péter Kaposvári¹

¹ University of Szeged, Albert Szent-Györgyi Medical School, Department of Physiology, Szeged

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Michelle Fitos¹; Raissa de Oliveira Negrão¹; Ayanna Carla de Moraes Gerônimo¹; Renáta Cserjési²

¹ Doctoral School of Psychology, ELTE Eötvös Loránd University, Budapest, Hungary, eMIND, Budapest

² Institute of Psychology, ELTE Eötvös Loránd University, Budapest, Hungary, eMIND, Budapest

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¹ University of Szeged, Albert Szent-Györgyi Medical School, Department of Physiology, Szeged

² University of Szeged, Faculty of Health Sciences and Social Studies, Department of Theoretical Health Sciences and Health management, Szeged

³ University of Szeged, Department of Pediatrics and Pediatric Health Center Albert Szent-Györgyi Health Centre, Szeged

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Gabriella Eördegh¹; Balázs Bodosi²; Noémi Harcsa-Pintér²; Ákos Pertich²; Kálmán Tóti²; Attila Nagy²

¹ Faculty of Health Sciences and Social Studies, University of Szeged, Department of Theoretical Health Sciences and Health Management, Szeged

² Albert Szent-Györgyi Medical School, University of Szeged, Department of Physiology, Szeged

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Szabolcs Sáringer¹; András Benyhe¹; Péter Kaposvári¹

¹ University of Szeged, Department of Physiology, Szeged

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Hedvig Süti¹; Regina Gerencsér¹; András Benyhe¹; Péter Kaposvári¹; Szabolcs Sáringer¹

¹ University of Szeged, Department of Physiology, Szeged

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Alexandra Júlia Hencz, PhD¹; Assel Kamysbayeva²; Dávid Szép, PhD¹; Renáta Gajdács-Dóró¹; Dóra Zelena, PhD¹

¹ Institute of Physiology, Medical School, University of Pécs, Pécs

² Institute of Biology, Faculty of Sciences, University of Pécs, Pécs

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¹ Albert Szent-Györgyi Medical School, University of Szeged, Department of Physiology, Szeged

² Faculty of Health Sciences and Social Studies, University of Szeged, Department of Theoretical Health Sciences and Health Management, Szeged

³ Bethesda Children's Hospital, Budapest

⁴ Vadaskert Child and Adolescent Psychiatric Hospital, Budapest

⁵ Doctoral College of Semmelweis University, Mental Health Sciences Division, Interdisciplinary Social Sciences Doctoral Program, Budapest

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¹ Eötvös Loránd University, Department of Ethology, Neuroethology of Communication Lab, Budapest

² Eötvös Loránd University, Institute of Biology, Doctoral School of Biology, Budapest

³ The Ministry of Culture and Innovation, National Research, Development and Innovation Office, Cooperative Doctoral Program 2023, Budapest

⁴ University of Oslo, Department of Psychology, Oslo

⁵ Eötvös Loránd University, NAP Canine Brain Research Group, Budapest

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¹ Albert Szent-Györgyi Medical School, University of Szeged, Department of Physiology, Szeged

² Faculty of Health Sciences and Social Studies, University of Szeged, Department of Theoretical Health Sciences and Health Management, Szeged

³ University of Szeged, Department of Neurology, Szeged

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¹ Eötvös Loránd University, Department of Ethology, Neuroethology of Communication Lab, Budapest

² University of Veterinary Medicine Budapest, Budapest

³ Eötvös Loránd University, Department of Ethology, Barks Lab, Budapest

⁴ Eötvös Loránd University, Doctoral School of Biology, Budapest

⁵ University of Oslo, Department of Psychology, Oslo

⁶ Eötvös Loránd University, ELTE NAP Canine Brain Research Group, Budapest

⁷ University of Santiago de Compostela, Department of Animal Pathology, Faculty of Veterinary, Campus Terra, Lugo

⁸ University of Naples Federico II, Department of Biology, Naples

⁹ William James Center for Research, ISPA – Instituto Universitário, Lisbon

¹⁰ Utrecht University, Faculty of Social and Behavioral Sciences, Utrecht

¹¹ Eötvös Loránd University, MTA-ELTE Lendület "Momentum" Companion Animal Research Group, Budapest

PS06.17 Cortical Activity in Acquired Equivalence Learning in Children with Tourette Syndrome: An EEG Study

Kata Fodor¹; Csongor Darvasi¹; Noémi Harcsa-Pintér¹; Kálmán Tóti¹; Adél Papp¹; Bence Nagy¹; Olívia Huszár¹; Gabriella Eördegh²; Attila Nagy¹

¹ Szent-Györgyi Albert Medical School, University of Szeged, Department of Physiology, Szeged

² Faculty of Health Sciences and Social Studies, University of Szeged, Department of Theoretical Health Sciences and Health Management, Szeged

PS06.18 Disrupting Binocular Integration Alters Visuomotor Prediction: A VR-EEG Study

Bendeguz Fekete¹; Harald Barzan^{2,3}; Vasile Vlad Moca²; Raul Muresan²; Mirella Barboni⁴; Gabriella Trieb¹; Aphrodite Babakhani⁴; Zoltan Zsolt Nagy⁴; Daniel Hillier^{1,5}

¹ Institute of Cognitive Neuroscience and Psychology, HUN-REN Research Centre for Natural Sciences, Budapest

² Transylvanian Institute of Neuroscience, Department of Experimental and Theoretical Neuroscience, Cluj-Napoca

³ Technical University of Cluj-Napoca, Basis of Electronics Department, Cluj-Napoca

⁴ Semmelweis University, Department of Ophthalmology, Budapest

⁵ Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Budapest

PS06.19 Representation and causal dynamics in a mesoscale cortical network of visual working memory

Bálint Varga^{1,2}; Marcell Stippinger¹; Fülöp Bazsó¹; Attila Bencze^{1,3}; Zoltán Somogyvári¹; Tamás Kiss¹; Isao Hasegawa^{4,5}; Hisashi Tanigawa^{4,6}; László Négyessy¹

¹ HUN-REN Wigner Research Centre for Physics, Department of Computational Sciences, Theoretical Neuroscience and Complex Systems Research Group, Budapest

² Semmelweis University, Semmelweis Doctoral School, Budapest

³ Óbuda University, Electrophysics Institute, Budapest

⁴ Niigata University, Department of Physiology, Niigata

⁵ Niigata University, Center for Transdisciplinary Research, Niigata

⁶ Zhejiang University, Interdisciplinary Institute of Neuroscience and Technology, Hangzhou

PS06.20 In vivo GABA and Glutamate Levels in the Human Cortex

Zsófia Kürtös^{1,2}; Gergely Orsi^{2,3,4}; Gábor Perlaki^{3,5,6}; Boldizsár Czéh^{1,7}; Szilvia Anett Nagy^{3,5,6}

¹ Structural Neurobiology Research Group, Szentágotthai Research Centre, University of Pécs, Pécs

² Pécs Diagnostic Centre, Pécs

³ HUN-REN-PTE Clinical Neuroscience MR Research Group, Pécs

⁴ Department of Neurology, Medical School, University of Pécs, Pécs

⁵ Experimental Parkinson's Disease Research Group, Szentágotthai Research Centre, University of Pécs, Pécs

⁶ Department of Medical Imaging, Faculty of Health Sciences, University of Pécs, Pécs

⁷ Department of Laboratory Medicine, Medical School, University of Pécs, Pécs

PS06.21 A functional magnetic resonance study examining the long-term effect of formal music education on emotion processing during the Emotional Face Matching Task.

Mónika Gálber^{1,2}; Szilvia Anett Nagy^{2,3,4}; Elza Flóra Lakner¹; Gergely Orsi^{4,5,6}; Gábor Perlaki^{2,3,4}; Boldizsár Czéh^{1,7}

¹ University of Pécs, Szentágotthai Research Centre, Structural Neurobiology Research Group, Pécs

² University of Pécs, Szentágotthai Research Centre, Experimental Parkinson Disease Research Group, Pécs

³ University of Pécs, Faculty of Health Sciences, Pécs

⁴ HUN-REN-PTE, Clinical Neuroscience MR Research Group, Pécs

⁵ University of Pécs, Medical School, Department of Neurology, Pécs

⁶ Pécs Diagnostic Centre, Pécs

⁷ University of Pécs, Medical School, Department of Laboratory Medicine, Pécs

PS06.22 Single Trial Source-resolved EEG Analysis of a Free Viewing Neuroaesthetic Task with Independent Component Analysis

Iffah Syafiqah Suhaili¹; Zoltan Nagy^{1,2}; Zoltan Juhasz¹

¹ University of Pannonia, Department of Electrical Engineering and Information Systems, Bioelectric Brain Imaging Laboratory, Veszprem

² Semmelweis University, Heart and Vascular Centre, Budapest

PS06.23 The effects of CMTD intervention on U8-U12 soccer players' multifocal attention and multisensory integration: a longitudinal study.

Szabolcs Székely^{1,2}; Anna Gergely¹; József Topál¹

¹ Institute of Cognitive Neuroscience and Psychology, Budapest

² Institute of Psychology, Adaptation Research group, Budapest

PS06.24 Progressive ratio paradigm in macaques - probing the effects of reward value and pharmacological challenges

Judit Inkeller^{1,2}; Balázs Knakker^{1,2}; Rafaella Minea Riszt^{1,2,3}; Anna Padányi^{1,2};

Antonieta Vitális-Kovács^{1,2}; Evelin Kiefer^{1,2}; István Hernádi^{1,2,4}

¹ University of Pécs, Grastyán E. Translational Research Centre, Pécs

² University of Pécs, Centre for Neuroscience, Pécs

³ University of Pécs, Medical School, Pécs

⁴ University of Pécs, Faculty of Sciences, Department of Neurobiology, Pécs

PS06.25 Evaluating cholinergic modulation in a cognitive battery paradigm in non-human primates

Rafaella Mínea Riszt^{1,2,3}; Balázs Knakker^{1,3}; Anna Padányi^{1,3}; Judit Inkeller^{1,3}; Antonietta Vitális-Kovács^{1,3}; Evelin Kiefer^{1,3}; István Hernádi^{1,2,3}

¹ Grastyán E. Translational Research Centre, University of Pécs, Pécs

² Medical School, University of Pécs, Pécs

³ Centre for Neuroscience, University of Pécs, Pécs

PS06.26 Transcranial magnetic stimulation based cortical excitability measure in awake non-human primates

Anna Padányi^{1,2}; Balázs Knakker¹; Rafaella Mínea Riszt^{1,2}; Judit Inkeller¹; Evelin Kiefer¹; István Hernádi^{1,2,3}

¹ University of Pécs, Grastyán E. Translational Research Centre, Pécs

² University of Pécs, Medical School, Pécs

³ University of Pécs, Faculty of Sciences, Department of Neurobiology, Institute of Biology, Pécs

PS06.27 Proactive interference in object-location short-term memory - a comparison between humans and rhesus macaques

Balázs Knakker¹; Anna Padányi^{1,2}; Viktória Pál¹; Evelin Kiefer¹; István Hernádi^{1,2,3}

¹ University of Pécs, Grastyán E. Translational Research Centre, Pécs

² University of Pécs, Medical School, Pécs

³ University of Pécs, Faculty of Sciences, Department of Neurobiology, Pécs

PS06.28 ERP indices of initial response to reward: redundancy, unique variance, reliability across 3 measurement occasions and generalization of reliability across clinical and demographic groups

György Hátori¹; Nóra Bunford¹

¹ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Clinical and Developmental Neuropsychology Research Group, Budapest

PS07: Behaviour

PS07.01 Oxytocin receptor expressing neurons in the medial preoptic area inhibit aggression via ventromedial hypothalamic projection

Botond Drahos¹; Tamás Láng¹; Árpád Dobolyi^{1,2}; Valery Grinevich³

¹ Semmelweis University, Department of Anatomy, Histology and Embryology, Laboratory of Neuromorphology, Budapest

² Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

³ University of Heidelberg, Department of Neuropeptide Research in Psychiatry, Mannheim

PS07.02 Dynorphin signaling drives adolescent shifts in social reward

Klaudia Misiołek¹; Maria Kaczmarczyk-Jarosz²; Łukasz Szumiec¹; Zofia Harda¹; Barbara Ziolkowska¹; Jan Rodriguez Parkitna¹

¹ Maj Institute of Pharmacology, Polish Academy of Sciences, Department of Molecular Neuropharmacology, Krakow

² Maj Institute of Pharmacology, Polish Academy of Sciences, Department of Physiology, Krakow

- PS07.03 Critical role of basal amygdala output to dorsomedial striatum in Pavlovian fear learning**
Zsófia Reéb^{1,2}; Bőborka Bruzsik^{1,3}; Gergő Attila Nagy^{1,3}; Dániel László Magyar^{1,3,4}; Orsolya I. Papp¹; Judit M. Veres¹; Erzsébet Gregori¹; Cecília Pardo-Bellver¹; Máté Tóth¹; Manó Aliczki¹; Éva Mikics¹; Norbert Hájos^{1,4,5}
¹ HUN-REN Institute of Experimental Medicine, Laboratory of Network Neurophysiology, Budapest
² ELTE Eötvös Loránd University, Institute of Biology, Doctoral School of Biology, Budapest
³ Semmelweis University, János Szentágothai Doctoral School of Neurosciences, Budapest
⁴ The Linda and Gill Institute for Neuroscience, Indiana University, Bloomington
⁵ Indiana University Bloomington, Program in Neuroscience, Department of Psychological and Brain Sciences, Bloomington
- PS07.04 Chemogenetic modulation of the vasopressinergic system influences social interactions**
Kristóf László¹; Dávid Vörös¹; Jan Bakos²; Barbora Bugár Bodorová²; Bettina Réka László¹; Erika Kertes¹; Tamás Ollmann¹; Barnabás Bálint¹; Vivien Fodor¹; László Lénárd¹; Dóra Zelena³
¹ Medical School, University of Pécs, Pécs, Hungary., Physiology Department, Neuropeptides, Cognition, Animal Models of Neuropsychiatric Disorders Research Group, Pécs
² Institute of Experimental Endocrinology, Biomedical Research Center, Slovak Academy of Sciences, Bratislava
³ Medical School, University of Pécs, 7624 Pécs, Hungary., Physiology, Pécs
- PS07.05 Memory consolidation correlates with synchronized astrocyte activity**
Márton Péter¹; László Héja¹
¹ HUN-REN Research Centre for Natural Sciences, Institute of Organic Chemistry, Chemical Biology Research Group, Budapest
- PS07.06 Social Touch Suppresses Aggression via Thalamic Mechanisms**
 Tamás Láng¹; Botond Drahos¹; Fanni Dóra¹; Dávid Keller¹; Vivien Szendi²; Gina Puska^{2,3}; Valery Grinevich⁴; Árpád Dobolyi³; Valery Grinevich⁴; Árpád Dobolyi²
¹ Semmelweis University, Department of Anatomy, Histology and Embryology, Laboratory of Neuromorphology,, Budapest
² Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest
³ University of Veterinary Medicine Budapest, Department of Zoology, Budapest
⁴ University of Heidelberg, Department of Neuropeptide Research in Psychiatry, Central Institute of Mental Health,, Mannheim
- PS07.07 Behavioral consequences of the chemogenetic silencing of the ventral tegmental area in rats II.: Memory, locomotor activity and anxiety**
Zsolt Kristóf Bali^{1,2}; Angelika Bodó^{1,2}; Nóra Bruszt¹; Zsóka Mária Ábel^{1,2,3}; Fruzsina Kovács^{1,2,3}; István Hernádi^{1,2,3}
¹ University of Pécs, Szentágothai Research Centre, Translational Neuroscience Research Group, Pécs
² University of Pécs, Grastyán Translational Research Center, Pécs
³ University of Pécs, Faculty of Sciences, Department of Neurobiology, Pécs
- PS07.08 Behavioral effects of guanfacine in a triple-hit schizophrenia rat model**
Szonja Bianka Plesz¹; Gabriella Kekesi¹; Gyongyi Horvath^{1,2,3}
¹ University of Szeged, Albert Szent-Györgyi Medical School, Department of Physiology, Szeged
² University of Szeged, Albert Szent-Györgyi Medical School, Department of Medical Physics and Informatics, Szeged
³ University of Tokaj, Sztárai Institute, Sárospatak

PS07.09 Medial preoptic oxytocin receptor-expressing neurons control social behavior in rats

Máté Egyed¹; Lilla Radvan¹; Vivien Szendi¹; Gina Puska^{1,2}; Valery Grinevich³; Árpád Dobolyi¹

¹ Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

² University of Veterinary Medicine Budapest, Department of Zoology, Budapest

³ Central Institute of Mental Health, University of Heidelberg, Department of Neuropeptide Research in Psychiatry, Mannheim

PS07.10 The effects of fifth-generation mobile phone-like radiofrequency exposure on general well-being and declarative memory of adolescent rats

Nóra Bruszt¹; Zsóka Mária Ábel^{1,2}; Zsolt K. Bali^{1,3}; György Thuróczy⁴; Zsuzsanna Vecsei⁴; Philippe Leveque⁵; István Hernádi^{1,2,3}

¹ Szentágotthai Research Centre, Translational Neuroscience Research Group, Pécs

² University of Pécs, Department of Neurobiology, Pécs

³ Grastyán Translational Research Center, University of Pécs, Pécs

⁴ National Center for Public Health and Pharmacy, Budapest

⁵ Université de Limoges, CNRS, XLIM, Limoges

PS07.11 Distinct roles of two types of medial prefrontal cortical projection neurons in the social behaviour of rats

Luca Darai¹; Tamara Cecília Kállai¹; Dávid Keller^{2,3}; Melinda Cservenák¹; Árpád Dobolyi¹

¹ Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

² Semmelweis University, Department of Anatomy, Histology and Embryology, Laboratory of Neuromorphology, Budapest

³ University of Cologne, Faculty of Medicine, Institute for System Physiology, Cologne

PS07.12 Isoform-specific and age-dependent behavioural roles of Caskin scaffold proteins

Daniel Kimsanaliev¹; András Török¹; Norbert Bencsik¹; Katalin Schlett¹

¹ Eötvös Loránd University, Department of Physiology and Neurobiology, Cellular Neurobiology Group, Budapest

PS07.13 Chemogenetic and pup-induced activation of a thalamo-preoptic pathway suggests its maternal function

Lilla Radvan¹; Vivien Szendi¹; Tamás Láng²; Máté Egyed¹; Gina Puska^{1,3}; Árpád Dobolyi^{1,2}

¹ Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

² Semmelweis University, Department of Anatomy, Histology and Embryology, Laboratory of Neuromorphology, Budapest

³ University of Veterinary Medicine Budapest, Department of Zoology, Budapest

PS07.14 Lateral thalamic input to the dorsomedial hypothalamic nucleus as a possible regulatory pathway of enhanced food intake in rodent mothers

Bereniké Dorka Kovács^{1,2}; Vivien Szendi²; Lilla Radvan²; Gina Puska^{1,2}

¹ University of Veterinary Medicine Budapest, Department of Zoology, Budapest

² Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

PS07.15 AI-based analysis of social behaviour in rodents: development and validation of an automated workflow using DeepLabCut and Emerenka

Vivien Szendi¹; Bereniké Dorka Kovács^{2,1}; Szilvia Bartók¹; Attila Bartók³; Tamara Hajdu⁴; Tamás Láng⁴; Gina Puska^{2,1}; Árpád Dobolyi¹

¹ Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

² University of Veterinary Medicine Budapest, Department of Zoology, Budapest

³ Eyenet Ltd, Atkár

⁴ Semmelweis University, Department of Anatomy, Histology and Embryology, Laboratory of Neuromorphology, Budapest

PS07.16 IntelliCage assessment reveals cognitive deficits intensified by ovariectomy in 3xTg-AD mice

Tamara Kállai¹; Melinda Cserenák¹; Luca Darai¹; Dóra Zelena²; László Détári³; Árpád Dobolyi¹

¹ Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

² Medical School, University of Pécs, Institute of Physiology, Pécs

³ Eötvös Loránd University, Department of Physiology and Neurobiology, Budapest

PS07.17 Screening social behaviour in non-human primates within an open field environment: A novel AI-based technical approach for preclinical research in behavioural pharmacology.

Evelin Kiefer^{1,2}; Balázs Knakker^{1,2}; István Hernádi^{1,2,3}

¹ University of Pécs, Grastyán E. Translational Research Centre, Pécs

² University of Pécs, Centre for Neuroscience, Pécs

³ University of Pécs, Faculty of Sciences, Department of Neurobiology, Pécs

PS07.18 Assessment of motivational anhedonia in rats for preclinical psychiatric drug evaluation

Zsófia Rita Hernádi^{1,2,3}; Eszter Bálint²; Viktor Román²; Erika Pintér³; István Hernádi¹

¹ University of Pécs, Szentágothai Research Center, Translational Neuroscience Research Group, Pécs

² Gedeon Richter Plc., Department of Pharmacology and Drug Safety Research, Budapest

³ University of Pécs, Department of Pharmacology and Pharmacotherapy, Pécs

PS07.19 Contrasting foraging and reinforcement learning computations in the prefrontal cortex of macaques

Zsombor Ungvárszki^{1,2}; Clement Goussi-Denjean²; Anna Szekely¹; Gergo Orban²; Matteo di Volo²; Emmanuel Procky²

¹ Computational Systems Neuroscience Lab, Wigner Research Center for Physics, Budapest, Hungary, Budapest, Hungary

² Univ Lyon, Université Lyon 1, Inserm, Stem Cell and Brain Research Institute U1208, Bron, France, Lyon, France

PS08: Neuroendocrinology

PS08.01 Dual effects of antidepressant fluoxetine treatment on central corticotropin-releasing hormone neurons

András Varga¹; Bence Pytel¹; Zsombor Márton¹; Viktória Kormos²; Balázs Gaszner¹; László Ákos Kovács¹

¹ University of Pécs, Medical School and Centre for Neuroscience, Research Group for Mood Disorders, Pécs

² University of Pécs, Department of Pharmacology and Pharmacotherapy, Pécs

PS08.02 Investigation of pituitary adenylate cyclase-activating polypeptide (PACAP) in patients undergoing transcatheter aortic valve implantation (TAVI)

Kata Anna Toller¹; Balázs Magyari²; Bálint Kittka²; Tünde Tóth¹; Dóra Reglődi¹; Beata Polgár³; Andrea Tamás¹

¹ University of Pécs, Medical School, Department of Anatomy, Pécs

² University of Pécs, Medical School, Heart Institute, Pécs

³ University of Pécs, Medical School, Institute of Medical Microbiology and Immunology, Pécs

PS08.03 Cell-cell communication in the human arcuate nucleus based on single cell sequencing data

Fanni Dóra^{1,2}; Teodora Tyler^{3,2}; Éva Renner¹; Alán Alpár¹; Miklós Palkovits¹; Árpád Dobolyi^{3,2}

¹ Semmelweis University, Human Brain Tissue Bank, Budapest

² Semmelweis University, Department of Anatomy, Histology and Embryology, Laboratory of Neuromorphology, Budapest

³ Eötvös Loránd University, Department of Physiology and Neurobiology, Laboratory of Molecular and Systems Neurobiology, Budapest

PS08.04 Fasting activates proglucagon-producing neurons of the posterior hypothalamic area

István Várkonyi¹; Csaba Fekete¹; Zsolt Liposits²; Gábor Wittmann¹

¹ HUN-REN Institute of Experimental Medicine, Laboratory of Integrative Neuroendocrinology, Budapest

² HUN-REN Institute of Experimental Medicine, Laboratory of Endocrine Neurobiology, Budapest

PS08.05 Silencing Nesfatin-1/NUCB2 expression in the supraoptic nucleus modulates renal function

Klaudia Sípós¹; Miklós Geiszt²; Zsuzsanna E. Tóth¹

¹ Semmelweis University, Department of Anatomy, Histology, and Embryology, Laboratory of Neuroendocrinology and In Situ Hybridization, Budapest

² Semmelweis University, Department of Physiology, Budapest

PS08.06 Novel proglucagon (Gcg)-expressing neuron populations in the mouse brain include fasting-responsive GLP-1-producing neurons in the posterior hypothalamic area

Gábor Wittmann¹; Andrea Kádár¹; István Várkonyi¹; Csaba Fekete¹

¹ HUN-REN Institute of Experimental Medicine, Laboratory of Integrative Neuroendocrinology, Budapest

PS08.07 Characterization of the energy balance and glucose homeostasis of nesfatin-1 knockout mice

Katalin Könczöl¹; Rege Sugárka Papp¹; Klaudia Sípós¹; Zsuzsanna E. Tóth¹

¹ Semmelweis University, Department of Anatomy, Histology, and Embryology, Laboratory of Neuroendocrinology and In Situ Hybridization, Budapest

PS08.08 A Systematic Review and Meta-analysis of Metabolic Biomarker Alterations in Preclinical Post-Traumatic Stress Disorder Models

Prabhat Kumar¹; Imola Plangár¹; Arie Arizandi Kurnianto²; Dóra Zelena¹

¹ Institute of Physiology, Medical School, Centre for Neuroscience, Szentágotthai Research Centre, University of Pécs, Pécs

² Centre for Health Technology Assessment and Pharmacoeconomic Research, Faculty of Pharmacy, University of Pécs, Pécs

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PS08.09 Alterations in urocortin-1 and corticotropin releasing hormone systems in the rotenone model of Parkinson's disease and their response to levodopa/benserazide and fluoxetine treatments

Bence Pytel¹; János Kocsa¹; Zsombor Márton¹; Bernadett Kovács¹; József Farkas¹; László Á. Kovács¹; Nóra Füredi¹; Viktória Kormos²; Balázs Gaszner¹

¹ University of Pécs Medical School, Department of Anatomy, Research Group for Mood Disorders, Pécs

² University of Pécs Medical School, Department of Pharmacology and Pharmacotherapy, Pécs

PS08.10 Obligatory peptidergic neurons of the Edinger-Westphal nucleus show transient glutamatergic phenotype in utero

Zsófia Havasi¹; Dániel Hegedüs¹; Viktória Kormos²; Balázs Gaszner¹

¹ University of Pécs Medical School, Department of Anatomy, Research Group for Mood Disorders, Pécs

² University of Pécs Medical School, Department of Pharmacology and Pharmacotherapy, Pécs

PS09: Modelling

PS09.01 TAAVE: A VAE with Adaptable Priors Explains Contextual Modulation in the Visual Cortex

Balázs Meszéna¹; Keith Thomas Murray²; Márton A. Hajnal¹; Julien Corbo³; O. Batuhan Erkat³; Pierre-Olivier Polack³; Gergő Orbán¹

¹ HUN-REN Wigner RCP, DCS, CSNL, Budapest

² Princeton Neuroscience Institute, New Jersey

³ Center for Molecular and Behavioral Neuroscience, Rutgers University, Newark

PS09.02 Mathematical modelling of intracellular Ca²⁺ concentration changes in Deiters cells using ATP induction

Fruzsina Fazekas^{1,2}; Tibor Zelles^{2,3,4}; Eszter Berekméri^{1,2,3}

¹ University of Veterinary Medicine Budapest, Department of Zoology, Budapest

² Semmelweis University, Department of Oral Biology, Budapest

³ Semmelweis University, Department of Pharmacology And Pharmacotherapy, Budapest

⁴ Institute of Experimental Medicine, Laboratory of Molecular Pharmacology, Budapest

PS09.03 Separate or share? Orthogonalization and alignment in hierarchical cascade computations

Andrea Albert¹; Gergő Orbán¹; Márton A. Hajnal¹

¹ HUN-REN Wigner Research Centre for Physics, Department of Computational Sciences, Computational Systems Neuroscience Lab, Budapest

PS09.04 Investigation of the molecular mechanisms of long-term postsynaptic plasticity using detailed, optimized computational models

Gábor Farkas^{1,2}; Máté Mohácsi^{1,2}; Luca Tar^{1,2}; Szabolcs Káli^{1,2}

¹ HUN-REN Institute of Experimental Medicine, Cerebral Cortex Research Group, Theoretical Neuroscience Research Laboratory, Budapest

² Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Budapest

PS09.05 Structural determinants of gap junction formation and function

Agnes Simon¹; László Héja¹; Julianna Kardos¹

¹ Research Centre for Natural Sciences, HUN REN, Institute for Organic Chemistry,, Budapest

PS09.06 Computational and Electrophysiological Evidence for Kv1-Dependent Firing Pattern Changes Induced by Cariprazine

Ádám Tiszlavicz¹; Melinda E. Gazdik^{1,2,3}; Anna A. Abbas^{1,2}; Balázs Kis^{1,2}; Lea Danics^{1,2}; Katalin Schlett³; Karolina Pircs^{1,2}; Attila Szűcs^{1,2,3}; Karri Lamsa¹

¹ Hungarian Centre of Excellence for Molecular Medicine, Szeged

² Semmelweis University, Budapest

³ Eötvös Loránd University, Budapest

PS09.07 Divisive normalization underlying efficient inference in a deep generative model account of V1

Domonkos Martos¹; Josefina Catoni²; Ferenc Sikor¹; Balázs Meszéna¹; Enzo Ferrante²; Diego H. Milone²; Rodrigo Echeveste²; Gergő Orbán¹

¹ HUN-REN Wigner RCP, Department of Computational Sciences, Computational Systems Neuroscience Lab, Budapest

² Research Institute for Signals, Systems and Computational Intelligence sinc(i), FICH-UNL/CONICET, Santa Fe

PS10: Novel techniques

PS10.01 Enhancing AAV Neutralization Assay Sensitivity for Patient Eligibility Assessment Using the coreTIA Platform

Petra Réka Molnár^{1,2}; Beatrix Kovács^{1,3,4}; Fanni Somogyi^{1,3}; Viktória Szabó⁵; Domonkos Horváth^{1,6}; Attila Balázs Dobos¹; Zoltán Zolt Nagy⁵; István Hernádi⁷; Ferenc Mátyás⁸; Wim Vanduffel⁹; Zsuzsanna Szemlaky¹⁰; Áron Szepesi^{4,11}; István Ulbert^{1,3,6}; Balázs Rózsa^{4,11}; Dániel Hillier^{1,3,6}

¹ Institute of Cognitive Neuroscience and Psychology, HUN-REN Research Centre for Natural Sciences, Budapest

² Faculty of Science, Eötvös Loránd University, Budapest

³ János Szentágothai Neurosciences Division, Semmelweis University Doctoral School, Budapest

⁴ Laboratory of 3D Functional Network and Dendritic Imaging, HUN-REN Institute of Experimental Medicine, Budapest

⁵ Semmelweis University, Department of Ophthalmology, Budapest

⁶ Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest

⁷ Grastyán Translational Research Center, and Szentágothai Research Center, Center for Neuroscience, University of Pécs, Pécs

⁸ Neuronal Network and Behavior Research Group, HUN-REN Institute of Experimental Medicine, Budapest

⁹ Laboratory for Neuro- and Psychophysiology, Leuven Brain Institute, KULeuven, Leuven

¹⁰ South-Pest Central Hospital, National Institute for Infectology and Hematology, Department of Hematology and Stem Cell Transplantation, Budapest

¹¹ BrainVisionCenter, Budapest

PS10.02 Long-term functional AAV-mediated brain transduction in large animal models

Fanni Somogyi^{1,2}; Beatrix Kovács^{1,2}; Klaudia Csikós^{1,2}; Ábel Petik^{3,2}; Domonkos Horváth^{3,2}; Attila Balázs Dobos²; Lucia Wittner^{2,4}; Dániel Hillier^{2,3,5}

¹ Semmelweis University, János Szentágothai Doctoral School of Neurosciences, Budapest

² HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest

³ Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Budapest

⁴ Institute of Mental Health, Neurology and Neurosurgery, Budapest

⁵ Eötvös Loránd University, Department of Physiology and Neurobiology, Budapest

PS10.03 Validation of highly flexible, ultra-long SEEG probes realized using compact bond interfaces for deep brain recording

Levente Víg^{1,2}; Balázs Barkóczy¹; Marc Keller^{3,4}; Patrick Ruther^{3,4}; Domonkos Horváth^{1,5}; Klaudia Csikós^{1,6}; Rebeka Stelcz^{1,6}; Eszter Juhász¹; Dániel Hillier^{1,5}; István Ulbert^{1,5,7}; Richárd Fiáth^{1,5}

¹ Institute of Cognitive Neuroscience and Psychology, HUN-REN Research Centre for Natural Sciences, Budapest

² Pázmány Péter Catholic University, Roska Tamás Doctoral School of Sciences and Technology, Budapest

³ University of Freiburg, Department of Microsystems Engineering (IMTEK), Freiburg

⁴ University of Freiburg, University Center BrainLinks-BrainTools, Freiburg

⁵ Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Budapest

⁶ Semmelweis University, János Szentágothai Neuroscience Doctoral School, Budapest

⁷ Semmelweis University, Department of Neurosurgery and Neurointervention, Faculty of Medicine, Budapest

PS10.04 Polymer-based flexible multishank probes for simultaneous intracortical microstimulation and two-photon calcium imaging

Balázs Barkóczy¹; Eszter Nguyen¹; Csaba Horváth¹; Melinda Rácz¹; Linda Judák^{2,3}; Frederik Ceyssens^{4,5}; Peter Janssen⁶; Lucia Wittner¹; Maarten Schelles^{4,5}; Richárd Fiáth^{1,7}

¹ Institute of Cognitive Neuroscience and Psychology, HUN-REN Research Centre for Natural Sciences, Budapest

² Laboratory of 3D Functional Network and Dendritic Imaging, HUN-REN Institute of Experimental Medicine, Budapest

³ BrainVisionCenter Research Institute and Competence Center, Budapest

⁴ ReVision Implant, Haasrode

⁵ Micro- and NanoSystems, Department of Electrical Engineering, Leuven

⁶ Laboratory for Neuro- and Psychophysiology, Leuven

⁷ Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest

PS10.05 A Novel Miniature tFUS Device for Neural Modulation: From Cellular Mechanisms to Proof-of-Concept Applications

Veronika Hází^{1,2}; Édua Édes^{2,3}; Barnabás Kovács⁴; Aletta Mészáros^{2,5}; Zoltán Somogyvári²; Eszter Sipos⁶; Attila Szűcs⁷; Tamás Kiss²; Marcell Stippinger²

¹ Semmelweis University, Doctoral School, Budapest

² HUN-REN Wigner Research Centre for Physics, Computational Sciences, Theoretical Neuroscience and Complex Systems, Budapest

³ Eötvös Loránd University, Biology, Budapest

⁴ Veres Péter High School, Budapest

⁵ Eötvös Loránd University, Physics and Astronomy, Budapest

⁶ HUN-REN Institute of Experimental Medicine, Virus Technology Unit, Budapest

⁷ Eötvös Loránd University, Physiology and Neurobiology, Budapest

PS10.06 Cell- and Layer-Specific Modulation of Somatosensory Cortex by Focal Infrared Neurostimulation: Evidence for TRPV1 Ion Channel Involvement from High-Density Laminar Recordings

Zsófia Balogh-Lantos¹; Ágoston Csaba Horváth¹; Katalin Kovács-Rozmer^{2,3,4}; Richárd Fiáth^{1,5}; Zsuzsanna Helyes^{2,3}; Zoltán Fekete^{1,6}

¹ Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Research Group for Implantable Microsystems, Budapest

² University of Pécs, Medical School, Department of Pharmacology and Pharmacotherapy, HUN-REN-PTE Chronic Pain research Group, Pécs

³ National Laboratory for Drug Research and Development, Budapest

⁴ University of Pécs, Faculty of Pharmacy, Institute of Pharmaceutical Chemistry, Pécs

⁵ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest

⁶ HUN-REN Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Sleep Oscillation Research Group, Budapest

PS10.07 A multistep analysis workflow for the classification of cortical LFP events

Sándor Bordé¹; János Horváth¹; Boglárka Bozsó¹; Robert G. Averkin¹; Gábor Tamás¹

¹ University of Szeged, Department of Physiology, Anatomy and Neuroscience, HUN-REN-SZTE Research Group for Cortical Microcircuits, Szeged

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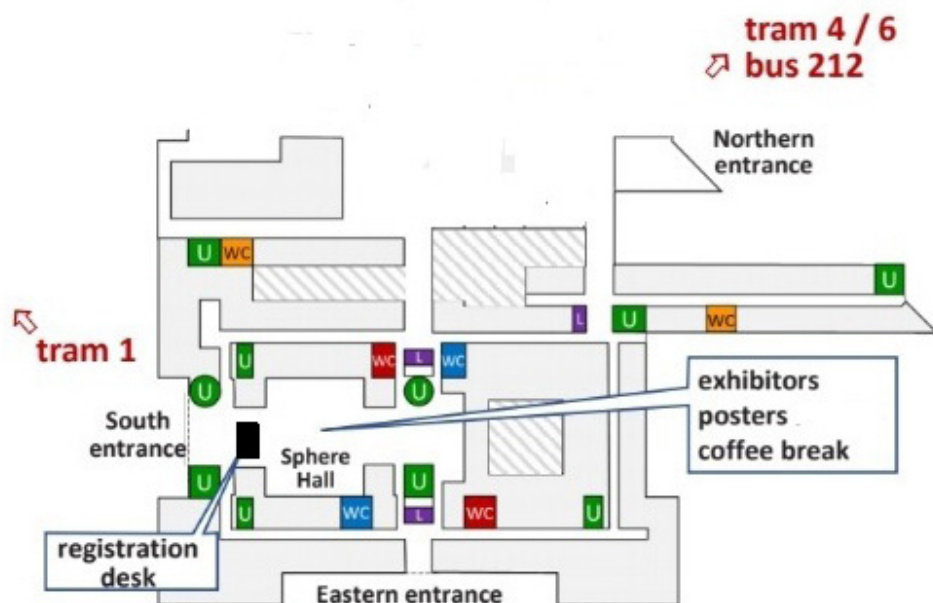
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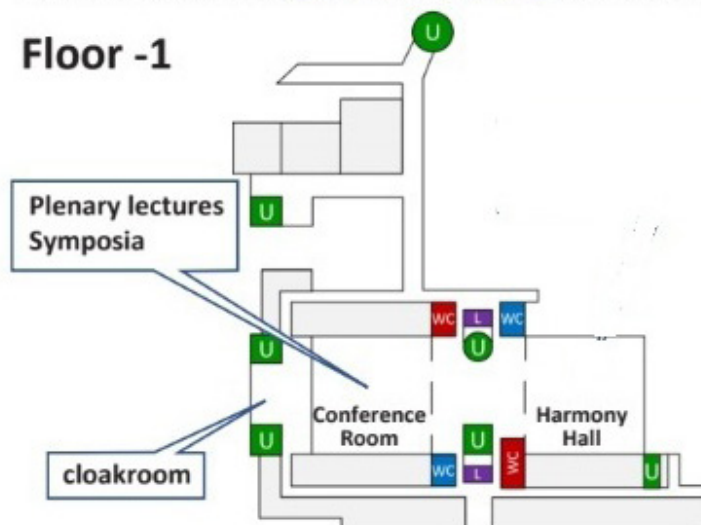
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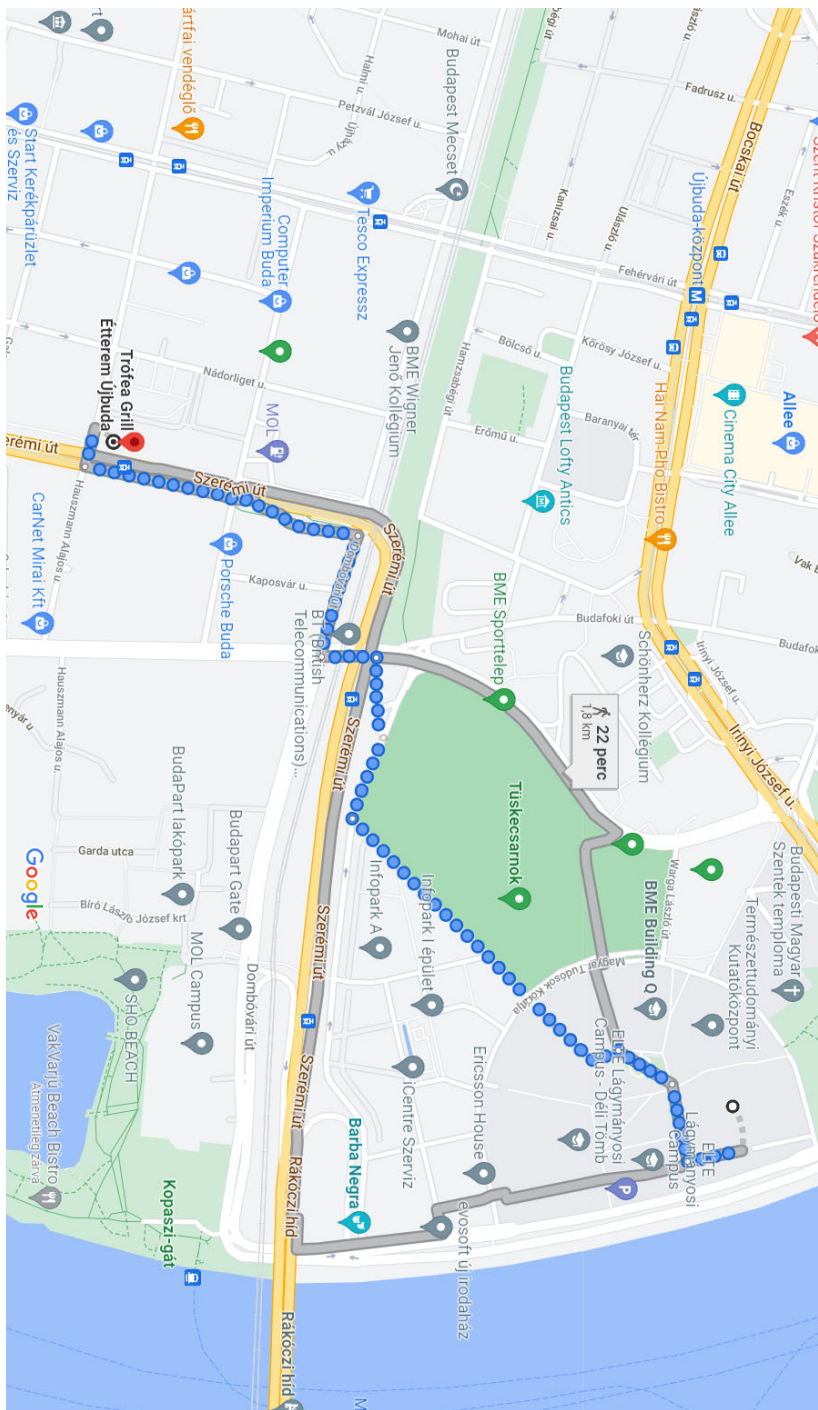


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