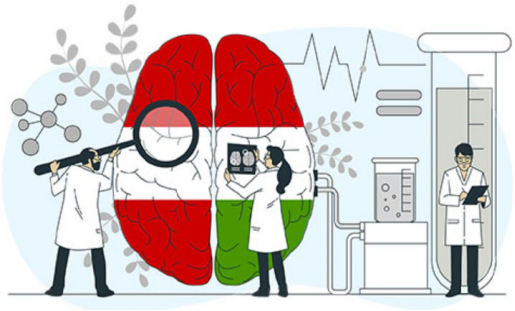
Joint Meeting of the Hungarian Neuroscience Society (MITT) and the Austrian Neuroscience Association (ANA)

HUNGARIAN NEUROSCIENCE SOCIETY

ANA Austrian Neuroscience Association

Austrian Neuroscience Association



1-3 February 2023
Budapest, Hungary

Programme

THINKING AHEAD

FEMTONICS

MICROSCOPY

DEDICATED TO NEUROSCIENCE TO DISCOVER NEW WAYS IN MULTIPHOTON MICROSCOPY

Visit our website and find out more about how can multiphoton microscopes advance your research!

The Organizing Committee is grateful to the following Sponsors and Exhibitors:

SILVER sponsor

SABLE SYSTEMS EUROPE GmbH

BRONZE sponsor

THINKING AHEAD FEMTONICS MICROSCOPY

Exhibitors:

AURO-SCIENCE CONSULTING

Stoelting Europe | ANY-maze Behavioral Tracking Software

ANIMALAB

LNICAM Magyarország Kft.

BIOMEDICA

vizgen

Noldus Information Technology

ZEISS

INVITATION

Dear Colleagues,

We cordially invite all neuroscientists to participate in the **Joint Meeting of the Hungarian Neuroscience Society (MITT) and the Austrian Neuroscience Association (ANA) that will take place on 1st – 3rd February, 2023 at the main building of the Hungarian Academy of Sciences in Budapest.** We have set up an outstanding and topically balanced event in which novel and ground breaking results will be presented in the forms of Plenary lectures, Symposia, and Poster sessions. We feel honoured that renowned international scientists will present their latest results, further emphasizing the importance of Hungarian and Austrian neuroscience research within the international neuroscience community.

The program committee draws on long-standing collaborations between Austrian and Hungarian neuroscientists and invites all members of the Hungarian and Austrian neuroscience community to contribute to a successful conference at the **Hungarian Academy of Sciences in Budapest,** the venue of the most prestigious learned society of Hungary.
We are looking forward to a fruitful and successful meeting!

Isabella Sarto-Jackson
Co-Chair of the Conference

Zoltan Nusser
Co-Chair of the Conference

PROGRAMME OVERVIEW

	01 February	02 February	03 February
8:00	*Registration*		
8:15			
8:30			
8:45			
9:00			
9:15	Opening ceremony	Opening of the 2nd day	Opening of the 3rd day
9:30		**Plenary lecture III** Christian Keysers	**Plenary lecture V** Asya Rolls
9:45	**Plenary lecture I.** Marlene Bartos		
10:00			
10:15			
10:30			
10:45	*Coffee break*	*Coffee break*	*Coffee break*
11:00			
11:10	**Symposium I** NEURAL CONTROL OF SOCIAL BEHAVIOR Chair: Arpad Dobolyi	**Symposium III** COMPUTATIONAL PRINCIPLES OF NEURAL CIRCUITS Chairs: Wiktor Młynarski & Balázs B Ujfalussy	**Symposium V.** ORAL PRESENTATIONS SELECTED FROM ABSTRACTS
11:30			
11:45			
12:00			
12:15			
12:30			
12:55			
13:00	*Lunch break*	*Lunch break*	*Lunch break*
13:15			
13:30			
13:55			
14:00	**Symposium II** NEUROMODULATION OF NEURONAL NETWORKS IN COGNITION AND BEHAVIOR Chairs: Balazs Hangya & Sarah Melzer	**Symposium IV** TIMING IS NOT EVERYTHING: MEDIAL SEPTUM FUNCTIONS BEYOND THETA GENERATIONS Chairs: Viktor Varga & Sanja Mikulovic	**Symposium VI** NEURAL CIRCUITS SUPPORTING NETWORK OPERATIONS Chairs: Bálint Lasztóczi & Judit Makara
14:15			
14:30			
14:45			
15:00			
15:15			
15:30			
15:40			
16:00	**Posters and Coffee** (in which the coffee will be available from 15:40 – 16:40)	**Posters and Coffee** (in which the coffee will be available from 15:40 – 16:40)	**Posters and Coffee** (in which the coffee will be available from 15:40 – 16:40)
16:15			
16:30			
16:45			
17:00			
17:15			
17:30			
17:45			
18:00	**Buzsáki lecture** Adam Kepecs	**Plenary lecture IV. / Otto Loewi Award Lecture** Noelia Urban	**Plenary lecture VI** Christine Heim
18:15			
18:30			
18:45			
19:00			
19:15			*Closing remarks*
19:30			
19:45			
20:00		*Conference dinner*	

ORGANIZING COMMITTEE

Zoltan Nusser, Laboratory of Cellular Neurophysiology, Institute of Experimental Medicine
Isabella Sarto-Jackson, KLI Klosterneuburg

PROGRAM COMMITTEE

Isabella Sarto-Jackson (Konrad Lorenz Institute)
Zoltan Nusser (Institute of Experimental Medicine, Budapest)
Francesco Ferraguti (Medical University of Innsbruck)
Simon Hippenmeyer (Institute of Science and Technology Austria)
Zsuzsanna Helyes (University of Pécs Medical School)
Ádám Dénes (Institute of Experimental Medicine, Budapest)
Thomas Klausberger (Medical University of Wien)
Istvan Mody (UCLA, USA)

ORGANIZING AGENCY

Remedicon Ltd.
1036 Budapest, Galgonya u.7.
Tel: +36-1-225-0188
Fax: +36-1-225-0189
E-mail: info@remedicon.hu
www.remedicon.hu
www.remediconline.hu

REGISTRATION FEES

	until 1 December 2022	from 01 Dec to 20 Jan 2023
MITT/ANA members	65 000 HUF	75 000 HUF
Non members	75 000 HUF	85 000 HUF
Students	45 000 HUF	50 000 HUF
Conference dinner (all including VAT)	20 000 HUF	20 000 HUF

Registration fee includes 44 000 HUF (gross) meal cost as well.

Registration fees for active participants include the entry to scientific programs, conference materials, coffee breaks and sandwich lunches. On-site registration is not possible.

VENUE OF THE CONFERENCE

Hungarian Academy of Sciences
Széchenyi István tér 9.
Budapest, 1051

APPROCHING THE VENUE

Public transportation


2B, 2M stop „Széchényi István tér”


16, 105, 178, 216 stop „Széchényi István tér”


Nearby subway station is „Deák tér”, Metro 1,2,3 or „Vörösmarty tér” Metro 1

Parking garages

http://aranykezparkolo.hu/in-english/
https://boe-parking.hu/vorosmarty-garazs/
Distance to the conference venue is 1 km.

REGISTRATION DESK

Opening hours:
1st February 08:00-18:00
2nd February 08:00-18:00
3rd February 08:00-16:00
Access to all scientific sessions, exhibitions and social events is only permitted with the personal badge provided.

LANGUAGE

The official languages of the congress is English.

MEALS

During the coffee breaks coffee, tea, refreshments, and snacks will be served. Sandwich lunch for each day will be provided. The cost of the meals is included in the registration fee. Coffee breaks and sandwich lunch to be found in „Kodály and Vörösmarty” rooms on the groundfloor and „Krúdy” room on the -1 floor.

THE VENUE OF THE CONFERENCE DINNER

Budapest Mariott Hotel
Address: Apaczai Csere Janos u. 4. Budapest, 1052
1st floor, Ballroom

Conference dinner will start at 20:00 on Thursday, 2 February, 2023. Registration does not include the cost of Conference dinner (20 000 HUF), which needs to be paid separately during the registration. Approaching the restaurant from the Conference (see the map on the page 39)

- *by foot:* the hotel is 800 m from the conference venue, which is an appr. 8-10 min walk.
- *by car:* indoor parking (BOE PARKING) is available for 900 HUF/hour with a direct access to the hotel. Entrance to the underground parking is from Apáczai Csere János street.
- *by public transport:* take tram no. 2 from „Széchényi tér" station towards „Közvágóhíd". Budapest Mariott Hotel is located at the 2nd stop, named as „Vigadó tér".

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

LIABILITY AND INSURANCE

The Organisers cannot accept liability for personal accidents or loss of or damage to private property of participants. Participants are advised to organize their own personal travel and health insurance for their trip.

MEETING POLICY ON PHOTOGRAPHY, FILMING AND RECORDING

No photographs, video recording or audio recordings may be permitted in the scientific sessions at this meeting unless otherwise authorised in advance by the Scientific Programme Committee. Attendees consent to their filming and sound recording as members of the audience. By entering this event you agree to being filmed or photographed which may be used for marketing or promotional purposes.

ORAL PRESENTATIONS

For the lecturers, MS Office / Power Point presentation facilities will be provided. Lecturers are kindly asked to give their presentations on USB stick to the technician before the morning or the afternoon session. Any special needs (e.g. the use of own laptop) should be discussed in time with the technician. Lecturers and the symposium organizers should keep the time limits strictly. Plenary and Symposia lectures will be presented in the Conference Room on the 1st floor.

POSTER PRESENTATIONS

Posters will be presented on 1-2-3 February in two locations (see the map on the page 37-38) Posters are expected to be mounted on the day of the presentation, before the scientific sessions and can remain displayed for 1 days, until the end of the poster session. Stands are 100x120 cm in portrait format and will be numbered in advance. Tools necessary for mounting the posters will be provided on spot by the organizers. Posters presented by students as first authors will automatically take part in the poster competition.

Poster presenters are asked to stand by their poster during the following time:
01 February 15:40-18:00 ID 101-188
02 February 15:40-18:00 ID 201-287
03 February 15:40-18:00 ID 301-388

The poster abstracts are available on the Conference's website.

EXHIBITION

Exhibitors' stands will be placed in the 1st floor and will be on display throughout the Conference next to the poster area, near to the lecture room.

FREE WIFI

Free wifi is available at the Conference venue
Network: MARS
Password: Pa38Geo9

Wednesday, 1 Feb 2023

09:15 – 09:30 Opening ceremony (Isabella Sarto-Jackson and Zoltán Nusser)

09:30 – 10:30 **Plenary lecture I.**
Marlene Bartos (Albert Ludwigs Universität Freiburg Institute for Physiology, Department of Physiology, Freiburg, Germany)
DENTATE GYRUS CIRCUITS FOR ENCODING, RETRIEVAL AND DISCRIMINATION OF EPISODIC MEMORIES

10:30 – 11:10 Coffee break

11:10 – 12:55 **Symposium I.**
NEURAL CONTROL OF SOCIAL BEHAVIOR
Chair: Arpad Dobolyi (Department of Physiology and Neurobiology, Eötvös Loránd University, Budapest, Hungary)

Shlomo Wagner (Department of Neurobiology, Faculty of Natural Sciences, University of Haifa, Haifa,Israel)
NEURAL CORRELATES OF SOCIAL DECISION MAKING IN MICE

Árpád Dobolyi (Department of Physiology and Neurobiology, Eötvös Loránd University, Budapest, Hungary)
THE CONTROL OF SOCIAL BEHAVIOURS BY THALAMO-PREOPTIC PROJECTIONS

Françoise Muscatelli (Laboratory of Perinatal Imprintings and Neurodevelopmental Disorders, Institut de Neurobiologie de la Méditerranée (INMED)-INSERM, Marseille, France)
EARLY LIFE OXYTOCIN IMPRINTING SHAPES THE NORMAL AND PATHOLOGICAL SOCIAL BRAIN

Attila Tóth (Department of Physiology and Neurobiology, Eötvös Loránd University, Budapest, Hungary)
SLEEPING MOTHERS – SLEEP AND WAKEFULNESS DURING THE REPRODUCTIVE CYCLE IN FEMALE RATS

Petra Varró (Department of Physiology and Neurobiology, Eötvös Loránd University, Budapest, Hungary)
FUNCTIONAL ALTERATIONS OF CORTICAL NETWORKS IN A RAT MODEL OF AUTISM

12:55 – 13:55 Lunch

13:55 – 15:40 **Symposium II.**
NEUROMODULATION OF NEURONAL NETWORKS IN COGNITION AND BEHAVIOR
Chairs: Balázs Hangya (Institute of Experimental Medicine, Budapest, Hungary) & Sarah Melzer (Medical University Vienna, Center for Brain Research, Vienna, Austria)

Armin Lak (Oxford University, Department of Physiology, Anatomy and Genetics, Oxford, UK)
DOPAMINERGIC CIRCUITS FOR PERCEPTUAL DECISIONS

Isabel Beets (KU Leuven, Animal Physiology and Neurobiology, Leuven, Belgium)
DECODING THE NEUROPEPTIDERGIC CONNECTOME AND MODULATION OF LEARNING IN C. ELEGANS

Sarah Melzer (Medical University Vienna, Center for Brain Research, Vienna, Austria)
NEUROPEPTIDERGIC MODULATION OF CORTICAL CIRCUITS FOR FEAR MEMORY

Tommaso Patriarchi (University of Zürich, Institute of Pharmacology and Toxicology, Zürich, Switzerland)
A NEXT-GENERATION OPTICAL TOOLKIT TO STUDY NEUROMODULATORY FUNCTIONS AND SIGNALING

15:40 – 18:00 **Posters and Coffee**
(in which coffee will be available between 15:40 – 16:40)

18:00 – 19:00 **Buzsáki lecture**
Adam Kepecs (Washington University School of Medicine, Department of Neuroscience, Washington, USA)
MISTUNED BRAIN CIRCUITS AND BROKEN MENTAL ALGORITHMS: A CROSS-SPECIES APPROACH TO PSYCHIATRY

Thursday, 2 Feb 2023

09:30 – 10:30 **Plenary lecture III.**
Christian Keysers (Netherlands Institute for Neuroscience (KNAW) and University of Amsterdam, Netherlands)
A CROSS-SPECIES APPROACH TO THE NEURAL BASIS OF EMPATHY AND PROSOCIALITY

10:30 – 11:10 Coffee break

11:10 – 12:55 **Symposium III.**
COMPUTATIONAL PRINCIPLES OF NEURAL CIRCUITS
Chairs: Wiktor Młynarski (Institute of Science and Technology Austria, Klosterneuburg, Austria) & Balázs Ujfalussy (Department of Biological Computation, Institute of Experimental Medicine, Budapest, Hungary)

Wiktor Młynarski (Institute of Science and Technology Austria, Klosterneuburg, Austria)
SHARED COMPUTATIONAL PRINCIPLES OF SENSORY ADAPTATION AND ATTENTIONAL MODULATION

Gergő Orbán (Computational Systems Neuroscience Lab, Wigner Research Centre, Budapest, Hungary)
GEOMETRY OF TASK-REPRESENTATION IN THE VISUAL CORTEX

Jean-Pascal Pfister (Institute of Neuroinformatics, ETH, Zurich, Switzerland,Department of Physiology, University of Bern, Bern, Switzerland)
NONLINEAR FILTERING AS A UNIFYING PRINCIPLE FOR SYNAPTIC PLASTICITY

Heloisa Chiossi (Institute of Science and Technology Austria, Klosterneuburg, Austria)
HIERARCHICAL VARIABLE REPRESENTATION IN THE HIPPOCAMPUS SUPPORTS COMPLEX TASK LEARNING

Guillaume Hennequin (Neural Dynamics and Control Group, Computational and Biological Learning Lab, Department of Engineering, University of Cambridge, Cambridge, UK)
NEURAL NETWORKS THAT LEARN TO PLAN EXPLAIN HUMAN BEHAVIOR AND HIPPOCAMPAL REPLAY

12:55 – 13:55 Lunch

13:55 – 15:40 **Symposium IV.**
TIMING IS NOT EVERYTHING: MEDIAL SEPTUM FUNCTIONS BEYOND THETA GENERATION
Chairs: Viktor Varga (Subcortical Modulation Research Group, Institute of Experimental Medicine, Budapest, Hungary) & Sanja Mikulovic, (Cognition and Emotion Research Group, Leibniz Institute for Neurobiology, Magdeburg, Germany)

Sanja Mikulovic (Cognition and Emotion Research Group, Leibniz Institute for Neurobiology, Magdeburg, Germany)
WHAT DOES MEDIAL SEPTUM AND THE SONG „I LIKE TO MOVE IT" HAVE IN COMMON?

Peter Petersen (University of Copenhagen, Copenhagen, Denmark)
HOW THE BRAIN NAVIGATES IN SPACE AND TIME: ROLES AND MECHANISMS OF THE THETA RHYTHM

Balázs Hangya (Lendulet Laboratory of Systems Neuroscience, Institute of Experimental Medicine, Budapest, Hungary)
THE MEDIAL SEPTUM MODULATES HIPPOCAMPAL OSCILLATIONS BEYOND THE THETA RHYTHM

Antal Berényi (Lendulet Oscillatory Neuronal Networks Research Group, Department of Physiology, University of Szeged, Szeged, Hungary)
NOVEL THERAPEUTIC TARGETS FOR ELECTRICAL STIMULATION IN EPILEPSY – THE MEDIAL SEPTUM AND BEYOND

15:40 – 18:00 Posters and Coffee
(in which coffee will be available between 15:40 – 16:40)

18:00 – 18:30 **Plenary lecture IV. / Otto Loewi Award Lecture**
Noelia Urban (IMBA - Institute of Molecular Biotechnology of the Austrian Academy of Sciences)
LOCAL AND SYSTEMIC REGULATION OF ADULT NEUROGENESIS

18:30 – 19:00 Pioneer in Austrian Neuroscience Award 2023
Alois Saria (Medical University Innsbruck)

20:00 – 24:00 Gala dinner, Budapest Mariott Hotel

Friday, 3 Feb 2023

09:30 – 10:30 **Plenary Lecture V.**

Asya Rolls (Rappaport Institute for Medical Research Technion, Israel Institute of Technology, Haifa, Israel)
IMMUNOCEPTION: NEURONAL REPRESENTATION AND REGULATION OF IMMUNITY

10:30 – 11:10 Coffee break

11:10 – 12:55 **Symposium V.**

ORAL PRESENTATIONS SELECTED FROM ABSTRACTS

Chair: Sébastien Couillard-Despres (Paracelsus Medical University, Institute Experimental Neuroregeneration, Salzburg, Austria)

Ágnes Szabó (Pázmány Péter Catholic University, Budapest, Hungary)
TRANSPARENT, THIOL-ENE/ACRYLATE-BASED ELECTRODE ARRAY FOR LONGTERM MULTIMODAL NEUROIMAGING (Poster ID 159)

Ábel Petik (Research Centre for Natural Sciences, Budapest, Hungary)
RAPID RETINOTOPY MAPPING USING FUNCTIONAL ULTRASOUND IMAGING OF DEEP VISUAL CORTEX IN CATS (Poster ID 178)

Marie-Theres Hochwartner (Paracelsus Medical University, Institute Experimental Neuroregeneration, Salzburg, Austria)
SCULPTING ADULTHOOD IN THE BRAIN NETWORKS: A NOVEL MAP OF DORMANT PRECURSOR MATURATION IN CORTICAL AND SUBCORTICAL AREAS (Poster ID 266)

Cihan Önal (Institute of Science and Technology Austria, Klosterneuburg, Austria)
FUNCTIONAL HEMISPHERIC ASYMMETRY OF MEDIAL HABENULA IS ASSOCIATED WITH FEAR EXPRESSION VIA MODULATION OF GABAB RECEPTOR SIGNALING IN MICE (Poster ID 306)

Csaba Cserép (Institute of Experimental Medicine, Budapest, Hungary)
MICROGLIA MONITOR, PROTECT AND NURTURE NEURONS VIA SOMATIC PURINERGIC JUNCTIONS (Poster ID 208)

Dávid Csabai (University of Pécs, Szentágothai János Research Centre, Pécs, Hungary)
ULTRASTRUCTURAL ANALYSIS OF SYNAPSES IN THE HIPPOCAMPUS OF PATIENTS SUFFERING FROM MAJOR DEPRESSIVE DISORDER (Poster ID 334)

Viktória Kormos (University of Pécs, Department of Pharmacology and Pharmacotherapy, Pécs, Hungary)
FUNCTIONALLY ACTIVE TRANSIENT RECEPTOR POTENTIAL ANKYRIN 1 ION CHANNEL IS DOWNREGULATED IN THE CENTRALLY PROJECTING EDINGERWESTPHAL NUCLEUS UPON ACUTE ALCOHOL EXPOSURE (Poster ID 158)

Christopher Currin (Institute of Science and Technology Austria, Klosterneuburg, Austria)
HUMAN CORTICAL CULTURES AND ARTIFICIAL MODELS: UNDERSTANDING INDIVIDUALS WITH EPILEPSY (Poster ID 172)

12:55 – 13:55 Lunch

13:55 – 15:40 **Symposium VI.**
NEURAL CIRCUITS SUPPORTING NETWORK OPERATIONS
Chairs: Bálint Lasztóczi (Division of Cognitive Neurobiology, Center for Brain Research, Medical University of Vienna, Vienna, Austria) & Judit Makara (Laboratory of Neuronal Signaling, Institute of Experimental Medicine, ELRN, Budapest, Hungary)

Judit Makara (Laboratory of Neuronal Signaling, Institute of Experimental Medicine, ELRN, Budapest, Hungary)
DENDRITIC CA^{2+} SPIKES SUPPORT DIVERSE COMPUTATIONS BY HIPPOCAMPAL PYRAMIDAL CELLS

Márton Rózsa (MTA-SZTE Research Group for Cortical Microcircuits, Department of Physiology, Anatomy, and Neuroscience, University of Szeged, Szeged, Hungary)
TEMPORAL DISPARITY OF ACTION POTENTIALS TRIGGERED IN AXON INITIAL SEGMENTS AND DISTAL AXONS IN THE NEOCORTEX

Jake Watson (Institute of Science and Technology Austria, Klosterneuburg, Austria)
CELL-SPECIFIC WIRING ROUTES INFORMATION FLOW THROUGH HIPPOCAMPAL CA3

Bálint Lasztóczi (Division of Cognitive Neurobiology, Center for Brain Research, Medical University of Vienna, Vienna, Austria)
PATHWAY SPECIFIC REGULATION OF INFORMATION TRANSFER BY HIPPOCAMPAL NEUROGLIAFORM CELLS

15:40 – 18:00 **Posters and Coffee**
(in which coffee will be available between 15:40 – 16:40)

18:00 – 19:00 **Plenary lecture VI.**
Christine Heim (Charité – Universitätsmedizin Berlin, Institut für Medizinische Psychologie, Berlin, Germany)
NEUROBIOLOGICAL CONSEQUENCES OF EARLY-LIFE STRESS: FROM MECHANISMS TO NOVEL APPROACHES FOR THE DEVELOPMENTAL PROGRAMMING OF LIFELONG HEALTH

19:00 – Closing remarks, announcement of poster prize winners

LIST OF POSTERS

Day 1 • Behaviour • Poster ID:101

Control of social grooming by a thalamo-preoptic neuronal pathway

Dávid Keller, Tamás Láng, Melinda Cservenák, Gina Puska, János Barna, Veronika Csillag, Imre Farkas, Dóra Zelena, Fanni Dóra, Stephanie Küppers, Lara Barteczko, Ted B. Usdin, Miklós Palkovits, Mazahir T. Hasan, Valery Grinevich, Arpád Dobolyi

Day 2 • Behaviour • Poster ID:201

Effects of cohousing mice and rats on stress levels and the attractiveness of dyadic social interaction in C57BL/6J and CD1 mice and Sprague Dawley rats

Gerald ZERNIG, Hussein GHAREH, Helena BERCHTOLD

Day 3 • Behaviour • Poster ID:301

Sociogenomic study of the rodent nervous system

Vivien Csikós, Rashmi Kumari, Fanni Dóra, Arpád Dobolyi

Day 1 • Behaviour • Poster ID:102

Different projections from the medial prefrontal cortex inhibit social behaviors

Luca Darai, Dávid Keller, Árpád Dobolyi

Day 2 • Behaviour • Poster ID:202

Female, but not male, mice favor prosocial choices

Klaudia Misiołek, Marta Klimczak, Magdalena Chrószcz, Łukasz Szumiec, Anna Bryksa, Karolina Przyborowicz, Jan Rodriguez Parkitna, Zofia Harda

Day 3 • Behaviour • Poster ID:302

Development of an automated behavioral training framework for cats

Gaspar J. Schliszka, Domonkos Horvath, Sarolt K. Gintner, Julio Loera, Klaudia Csikos, Klaudia Spitzer, Attila B. Dobos, Daniel Hillier

Day 1 • Behaviour • Poster ID:103

Chemogenetic evidence that posterior intralaminar thalamic neurons modulates aggressive behavior in rats

Tamás Láng, Dávid Keller, Árpád Dobolyi

Day 2 • Behaviour • Poster ID:203

Activation of the social decision-making and social-stress network in valproate-treated, autism-model mice

Róbert Gergely Kemecsei, Viktória Horváth, András Csillag, Gergely Zachar

Day 3 • Behaviour • Poster ID:303

The role of prefrontal somatostatin interneurons and neurotrophin signaling in stress coping

Mate Toth, Bendeguz Aron Varga, Mano Aliczki, Gyula Balla, Zoltan Kristof Varga, Eva Mikics

Day 1 • Behaviour • Poster ID:104

Interconnectivity of the segregated cortico-thalamo amygdalar pathways

Ákos Babiczky, Kinga Kocsis, Aletta Magyar, Péter Berki, Sándor Borbély, Ferenc Mátyás

Day 2 • Behaviour • Poster ID:204

Ovariectomy-induced cognitive alterations in female mice - an IntelliCage study

Melinda Cservenák, Kata Hanga Kása, László Détári, Árpád Dobolyi

Day 3 • Behaviour • Poster ID:304

Increased astrocytic synchronization promotes memory consolidation

Márton Péter, László Héja

Day 1 • Behaviour • Poster ID:105

Effect of embrional valproic acid treatment on social behavior and brain activation of domestic chicks (gallus gallus)

Barnabás Dávid Balázs, Ronald Kőnig, Zeöld Blanka, Gergely Zachar

Day 2 • Behaviour • Poster ID:205

Alpha7 nicotinic acetylcholine receptor agonist PHA-543613 effectively reverses cognitive deficits of aged rats in the psychomotor vigilance task

Zsolt Kristóf Bali, Nóra Bruszt, Lili Veronika Nagy, Kornélia Bodó, Péter Engelmann, Kitti Göntér, Sai Ambika Tadepalli, István Hernádi

Day 3 • Behaviour • Poster ID:305

Brain-wide activity mapping deciphering anatomical code in trauma vulnerability

Gyula Y Balla, László Szente, Bendegúz Á Varga, Manó Aliczki, Zoltán K Varga, László Bíró, Zoltán Balogh, Huba Szebik, Máté Tóth, Éva G Mikics

Day 1 • Behaviour • Poster ID:106

High concentration posttraumatic sucrose exposure diminished recent but not remote fear memories in mice

Prabhat Kumar, Pedro Correia, Imola Plangár, Dóra Zelena

Day 2 • Behaviour • Poster ID:206

The tachykinin hemokinin-1 mediates behavioural alterations in a chronic variable mild stress mouse model

Éva Borbély, Eszter Kepe, Nikolett Szentes, Zsuzsanna Helyes

Day 3 • Behaviour • Poster ID:306

Functional hemispheric asymmetry of medial habenula is associated with fear expression via modulation of GABAB receptor signaling in mice

Cihan Önal, Peter Koppensteiner, Ryuichi Shigemoto

Day 1 • Behaviour • Poster ID:107

Neuropeptide mediated effects of thalamic neurons on the lateral septum in suckling rodents

Vivien Szendi, Gina Puska, Melinda Cservenák, Máté Egyed, Nikolett Arrasz, Árpád Dobolyi

Day 2 • Behaviour • Poster ID:207

Afferents of the paraventricular thalamic nucleus (PVT) and the role of PVT in stress induced behavioral alterations

Zsolt Buday, László Biró, Anna Jász, Kata Kóta, Orsolya Szalárdy, Krisztina Horváth, Gergely Komlósi, Róbert Bódizs, Krisztina J. Kovács, László Acsády

Day 3 • Behaviour • Poster ID:307

AgRP neurons modulate exploratory behavior during calorie restriction

Eszter Balkó, Mátyás Kapiller, Dietrich Marcelo O., Ferenc Mátyás, Boglárka Barsy, Lilla Dénes, Bence Rácz, Tamás Horváth

Day 1 • Behaviour • Poster ID:108

Prolactin-releasing peptide (PrRP) and depressive-like behaviour in rats

Anita Kovács, Evelin Szabó, Kristóf László, László Lénárd, Zsuzsanna Tóth, Viktória Kormos, Dóra Zelena

Day 2 • Cellular neuroscience • Poster ID:208

Microglia monitor, protect and nurture neurons via somatic purinergic junctions

Csaba Cserép, Balázs Pósfai, Anett Schwarcz, Nikolett Lénárt, Eszter Szabadits, Anna Kellermayer, Rebeka Fekete, Zsuzsanna Környei, Zsófia László, Zsolt Lele, István Katona, Ádám Dénes

Day 3 • Cellular neuroscience • Poster ID:308

Gating changes explain increased dihydropyridine sensitivity of human pathogenic CACNA1D voltage-gated calcium channel mutations

Ferenc Török, Nadine J. Ortner, Joerg Striessnig*

Day 1 • Cellular neuroscience • Poster ID:109

A two-pool vesicle release mechanism in medial habenula terminals underlies GABAB receptor-mediated potentiation

Peter Koppensteiner, Pradeep Bhandari, Cihan Önal, Carolina Borges-Merjane, Elodie Le Monnier, Yukihiro Nakamura, Tetsushi Sadakata, Makoto Sanbo, Masumi Hirabayashi, Nils Brose, Peter Jonas, Ryuichi Shigemoto

Day 2 • Cellular neuroscience • Poster ID:209

Distribution profile and ratio of Cav2 channels and the plasma membrane Ca2+-ATPase in cerebellar and hippocampal neurons

Botond Gaal, Akos Kulik, Daniel Althof

Day 3 • Cellular neuroscience • Poster ID:309

HCN channels at the somatic membrane ensure rapid input–output function of human neocortex fast-spiking interneurons

Viktor Szegedi, Emőke Bakos, Szabina Furdan, Bálint Kovács, Dániel Varga, Miklós Erdélyi, Pál Barzó, Attila Szűcs, Gábor Tamás, Karri Lamsa

Day 1 • Cellular neuroscience • Poster ID:110

CaMKIIα promoter-controlled circuit manipulations target both pyramidal cells and inhibitory interneurons in cortical networks

Judit M. Veres, Tibor Andrási, Petra Nagy-Pál, Norbert Hájos

Day 2 • Cellular neuroscience • Poster ID:210

Investigating the expression of kynurenine aminotransferase-2 in primary cell cultures

Gyula Jenei, Emma Balog, József Toldi, Zsolt Kis

Day 3 • Cellular neuroscience • Poster ID:310

Single cell composition and ligand-receptor based signaling within the human caudate nucleus

Teadora Tyler, Árpád Dobolyi, Zdravko Petanjek, Istvan Adorjan

Day 1 • Cellular neuroscience • Poster ID:111

Dual activation of mu and delta opioid receptors by new oxymorphone analogues produces effective antinociception without the risks of antinociceptive tolerance and physical dependence in mice

Maria Guastadisegni, Veronika Ernst, Dominik Pircher, Barbara Brunner, Helmut Schmidhammer, Mariana Spetea

Day 2 • Cellular neuroscience • Poster ID:211

Antinociceptive efficacy of selective κappa-opioid receptor agonists HS665 and HS666 in chronic inflammatory pain without inducing anxiety-like behavior in mice

Aina-Leonor Olive-Marti, Filippo Erli, Helmut Schmidhammer, Mariana Spetea

Day 3 • Cellular neuroscience • Poster ID:311

Intranasal application of the neuropeptide alarin leads to c-fos activation

Sara Huber, Susanne M Brunner, Andrea Ramspacher, Christina Kreutzer, Sarah Hochmann, Susan Tzotzos, Bernhard Fischer, Hendrik Fischer, Dirk Strunk, Sebastien Couillard-Despres, Barbara Kofler

Day 1 • Cellular neuroscience • Poster ID:112

Molecular mechanisms and physiological importance of a novel interaction between Kv channels across families

Ilaria Sanvido, Theodora Kalpachidou, Vijayaram K. Reningunta, Moritz Lindner, Michael G. Leitner, Kai K. Kummer

Day 2 • Cellular neuroscience • Poster ID:212

Towards an understanding of cell type dynamics in an animal model for chronobiology and light

Nadja Milivojev, Florian Raible, Kristin Tessmar-Raible

Day 3 • Cellular neuroscience • Poster ID:312

Optical recording of unitary synaptic connections using Voltron

Bálint Tamás, Ádám Szatai, Eszter Sipos, Antónia Arszovszki, János Brunner, János Szabadics

Day 1 • Cellular neuroscience • Poster ID:113

Nimodipine reduces LPS-induced microglial activation in primary mixed and isolated microglia cell culture

István Pesti, Eszter Farkas, Károly Gulya

Day 2 • Cellular neuroscience • Poster ID:213

Dynamic rearrangement of active zones at hippocampal mossy fiber boutons during synaptic plasticity

Olena Kim, Yuji Okamoto, Ryuichi Shigemoto, Peter Jonas

Day 3 • Cellular neuroscience • Poster ID:313

Species dependent and developmentally regulated connectivity shapes information storage in the hippocampal CA3 cell network.

Victor Manuel Vargas Barroso, Jake F . Watson, Peter Jonas

Day 1 • Cellular neuroscience • Poster ID:114

Anatomical characterization of principal neurons in the basolateral amygdala

Zsófia Reéb, Dániel Magyar, Attila Vikór, Zsuzsanna Fekete, Zoltán Péterfi, Filippo Weisz, Tibor Andrási, Kinga Müller, Judit Veres, Norbert Hájos

Day 2 • Cellular neuroscience • Poster ID:214

Cut load labelling by different gap junction permeable dyes reveals physical property dependent alternation in direct connectivity of inner neuronal cells in the mammalian retina

Hanaa Rahmoun, Gergely Szarka, Béla Völgyi, Tamás Kovács-Öller

Day 3 • Cellular neuroscience • Poster ID:314

Temporal disparity of action potentials triggered in axon initial segments and distal axons in the neocortex

Martin Tóth, Márton Rózsa, Gáspár Oláh, Judith Baka, Rajmund Lákovics, Pál Barzó, Gábor Tamás

Day 1 • Cellular neuroscience • Poster ID:115

Functional perspectives of Tarpγ2 peptide as a molecular tool in the oligomerization of a repurposed retrotransposon protein, Arc

Vanda Tukacs, Pál Stráner, Hiền Trần Minh, Dániel Mittli, Éva Hunyadi-Gulyás, Zsuzsanna Darula, József Kardos, Gábor Juhász, András Perczel, Katalin Adrienna Kékesi

Day 2 • Cellular neuroscience • Poster ID:215

Spatial profile of calcium transients evoked by backpropagating action potential in human cortical pyramidal dendrites.

Ildikó Szöts, Martin Tóth, Gábor Molnár, Pál Barzó, Gábor Tamás

Day 3 • Cellular neuroscience • Poster ID:315

Group I metabotropic glutamate receptor mediated modulation of excitatory synaptic transmission shows interneuron specificity in the human cortex

Joanna Sandle, Martin Tóth, Gábor Molnár, Karri Lamsa, Pál Barzó, Gábor Tamás

Day 1 • Cellular neuroscience • Poster ID:116

The subtype selective RGH-397 inhibits the function of α5 GABAA receptors with slow off-kinetics and shows efficacy in animal models of cognitive impairment

Laszlo Fodor, Márta Thán, Amrita Bobok, Tamás Szél, György Szabó, György I Túrós, András Visegrády, Rita Kedves, Gábor Kapus

Day 2 • Cellular neuroscience • Poster ID:216

Sclareol is a low-potency non-selective inhibitor of Cav1.3 and Cav1.2 L-type Ca2+ channels

Lucia Zanetti, Ferenc Török, Jörg Striessnig

Day 3 • Cellular neuroscience • Poster ID:316

Calretinin-immunopositive interneurons of the caudate nucleus and dorsolateral prefrontal cortex in primate brain evolution

Katalin Berta, Teadora Tyler, Paulina Hoppa, Erzsebet Frank, Istvan Adorjan

Day 1 • Cellular neuroscience • Poster ID:117

Morphological and physiological features of chandelier cells in the prefrontal cortex recorded in two transgenic mouse lines

Zsuzsanna Fekete, Petra Nagy-Pál, Judit M. Veres, Norbert Hájos

Day 2 • Cellular neuroscience • Poster ID:217

Neuronal-specific septin-3 is connected to autophagy in neurons

Vilmos Tóth, Henrietta Vadászi, Lilla Ravasz, Dániel Mittli, Dominik Mátyás, Tamás Molnár, András Micsonai, Tamás Szaniszló, Péter Lőrincz, Réka Á. Kovács, Tünde Juhász, Tamás Beke-Somfai, Gábor Juhász, Balázs András Györffy, Katalin A. Kékesi, József Kardos

Day 3 • Cellular neuroscience • Poster ID:317

Chemosensor TRPA1 modifies T lymphocyte activation in vitro and influences CD4+/CD8+ T lymphocyte ratio in vivo

Katalin Szabó, Zoltán Sándor, Viktória Kormos, Ágnes Kemény, Noémi Balázs, Tímea Berki, Erika Pintér

Day 1 • Cellular neuroscience • Poster ID:118

Synthetic peptide designed based on the Arc binding epitope of the TARP γ-2 protein inhibit the switch from earliest phase of LTP to later phase

Mátyás Dominik, Tukacs Vanda, Tóth Vilmos, Stráner Pál, Trần Minh Hiền, Mittli Dániel, Kardos József, Perczel András, Kékesi Adrienna Katalin, Juhász Gábor

Day 2 • Cellular neuroscience • Poster ID:218

mRNA expression of two neuronal markers and a potential target for pain relief in the Trigeminal Ganglion of rats with inflammation-induced orofacial pain

Péter Gedei, El Heni Heni, Gyöngyi Kis

Day 3 • Cellular neuroscience • Poster ID:318

β subunits of GABAA receptors form proton gated ion channels

Aleksandra Garifulina, Theres Friesacher, Marco Stadler, Eva-Maria Zangerl-Plessl, Margot Ernst, Anna Stary-Weinzinger, Anita Willam, Steffen Hering

Day 1 • Cellular neuroscience • Poster ID:119

Activity dynamics of hippocampal CA1 pyramidal neurons during virtual navigation

Snezana Raus Balind, Kata Szamosfalvi, Balázs Lükő, Rita Nyilas, Balázs B Ujfalussy, Judit K Makara

Day 2 • Cellular neuroscience • Poster ID:219

Antiepileptic effect of the GABA precursor putrescine in early termination of seizures

Saif Qahtan, Márton Péter, Zsolt Kovács, Serguei Skatchkov, Zsolt Szabó, Julianna Kardos, László Héja

Day 3 • Cellular neuroscience • Poster ID:319

Motor neuron and spinal interneuron diversity scale up during frog metamorphosis

David Vijatovic, Zoe P. M. Harrington, Mara J. Julseth, Christoph Sommer, Robert Hauschild, Alexandra J. Trevisan, Phillip D. Chapman, Jeremy S. Dasen, Mariano I. Gabitto, Jay B. Bikoff, Lora B. Sweeney

Day 1 • Cellular neuroscience • Poster ID:120

Distinct axonal mechanisms in lateral and medial entorhinal cortical inputs to hippocampus

János Brunner, Antónia Arszovszki, Eszter Sipos, Árpád Mike, Bálint Tamás, Charlotte Seng, Csaba Földy, János Szabadics

Day 2 • Cellular neuroscience • Poster ID:220

Gain modulation of spatial tuning by vasoactive intestinal peptide expressing inhibitory neurons in cortical circuits

Nora Lenkey, Anna Christina Garvert, Máté Neubrandt, Koen Vervaeke

Day 3 • Cellular neuroscience • Poster ID:320

Investigation of astroglial heterogeneity in the human cortex and caudate nucleus

Paulina Hoppa, Teadora Tyler, Erzsébet Frank, Lilla Roszik, Kornél Szmetana, István Adorján

Day 1 • Cellular neuroscience • Poster ID:121

Differential regulation of static firing responses vs. synaptic integration in physiologically distinct classes of subiculum neurons

Melinda Erika Gazdik, Petra Varró, Attila Szűcs

Day 2 • Cellular neuroscience • Poster ID:221

Cyclodextrins affect TRPV1 and TRPA1 channel activation via lipid raft disruption

Andrea Nehr-Majoros, Anita Steib, Levente Szőcs, Éva Fenyvesi, Zsuzsanna Helyes, Éva Szőke

Day 3 • Cellular neuroscience • Poster ID:321

SATB2 organizes the 3D genome architecture of cognition in cortical neurons

Nico Wahl, Sergio Espeso-Gil, Paola Chietera, Aodán Laighneach, Prashanth Rajarajan, Derek W. Morris, Schahram Akbarian, Georg Dechant, Galina Apostolova

Day 1 • Cellular neuroscience • Poster ID:122

Nanobodies targeting α2δ proteins to study the molecular synaptic organization

Manuel Hessenberger, Ruslan Stanika, Gerald J. Obermair

Day 2 • Cellular neuroscience • Poster ID:222

Role of pre- and postsynaptic PirB for hippocampal asymmetry formation

Hana Štefaničková, Tsuneyuki Koga, Kanako Chikamatsu, Noritaka Nitta, Shunichi Sugimoto, Shihomi Kawashima, Kenta Kobayashi, Toshiyuki Takai, David Kleindienst, Isao Ito, Ryuichi Shigemoto

Day 3 • Cellular neuroscience • Poster ID:322

Subcellular localization of the calcium channel Cav2.3 in cultured hippocampal neurons

Stephan M. Schulreich, Ruslan Stanika, Sabrin Haddad, Cornelia Ablinger, Gerald J. Obermair

LIST OF POSTERS

Day 1 • Cellular neuroscience • Poster ID:123

Galectin-1 as a marker for microglia activation in the aging brain

Tamás Kiss, Yaqub Mir, Gergely Stefancsik, Gantulga Ganbat, Aruzhan Askarova, Éva Monostori, István Pesti, Karolina Dulka, Gábor Szebeni J., Ádám Nyúl-Tóth, Anna Csiszár, Eszter Farkas, Ádám Légrádi

Day 2 • Cellular neuroscience • Poster ID:223

NLRP2 inflammasome activation in spinal astrocytes is potentiated by glutamate

Krisztina Holló, Erzsébet Bakk, Andrea Gajtkó, Péter Szentesi

Day 3 • Cellular neuroscience • Poster ID:323

AgRP neurons control structure and function of the medial prefrontal cortex

Bence Rácz, Bernardo Stutz, Aletta Magyar, Kapiller Mátyás, Marcelo Dietrich O., Michael Waterson J., Matija Šestan-Peša, Mátyás Ferenc, Tamás Horvath

Day 1 • Cellular neuroscience • Poster ID:124

Single-cell gene expression analysis of senescence cerebromicrovascular endothelial cells in mouse model of accelerated aging

Teadora Tyler, Mátyás Bukva, Cintia Petes, Zoltán Ungvári, Anna Csiszár, Ádám Nyúl-Tóth, Ádám Légrádi, Tamás Kiss

Day 2 • Cognitive neuroscience • Poster ID:224

The phenomenon of compensatory brain activity in older adults as measured by EEG

Ludmiła Zając-Lamparska, Emilia Zabielska-Mendyk, Dariusz Zapała

Day 3 • Cognitive neuroscience • Poster ID:324

Tracing statistical learning with frequency tagging in a visual linguistic paradigm

András Benyhe, Szabolcs Sáringer, Ágnes Fehér, Péter Kaposvári

Day 1 • Cognitive neuroscience • Poster ID:125

Late gamma activity influences information recollection in visual statistical learning

Szabolcs Sáringer, Ágnes Fehér, Péter Kaposvári

Day 2 • Cognitive neuroscience • Poster ID:225

Fear memory recall via hippocampal somatostatin interneurons

Réka Z. Sebestény, Krisztián Zichó, Katalin E. Sos, Péter Papp, Áron Orosz, Márton Mayer

Day 3 • Cognitive neuroscience • Poster ID:325

Understanding the impact of individual annual, monthly and daily timing configuration on cognition

Lakshmi Kalathinkunnath, Dr.Peter Wolf, Univ. Prof. Dr. Helmut Leder, Univ. Prof. Dr. Kristin Tessmar-Raible

Day 1 • Cognitive neuroscience • Poster ID:126

Simple visual stimuli inhibit the memory processes connected to audiovisually guided associative learning

Noémi Harcsa-Pintér, Márk Horváth, Kálmán Tót, Ádám Kiss, Marietta Orosz-Ábel, Bátor Brassó, Márton Gaszner, Gabriella Eördegh, Attila Nagy

Day 2 • Cognitive neuroscience • Poster ID:226

The effect of visual stimulus complexity on the audiovisual associative learning and the connected memory processes

Kálmán Tót, Noémi Harcsa-Pintér, Márk Horváth, Márton Gaszner, Olívia Huszár, Marietta Orosz-Ábel, Attila Nagy, Gabriella Eördegh

Day 3 • Cognitive neuroscience • Poster ID:326

Time-frequency correlates of personal face familiarization

Szabolcs Sáringer, Ágnes Fehér, Péter Kaposvári, Géza Ambrus, Gyula Kovács

Day 1 • Cognitive neuroscience • Poster ID:127

Automated eye-blink artefact removal from 64-channel human electroencephalogram (EEG) recordings

Olívia Mária Huszár, Ádám Kiss, András Kelemen, Kálmán Tót, Gabriella Eördegh, Attila Nagy

Day 2 • Cognitive neuroscience • Poster ID:227

In vivo examination of age-dependent changes in the activity of basal forebrain cholinergic neurons in ChAT-Cre and in Alzheimer-model animals

Anna Velencei, Sergio Martínez-Bellver, Bálint Király, Írisz Szabó, Balázs Hangya

Day 3 • Cognitive neuroscience • Poster ID:327

A custom referencing method for high channel count EEG registrations

Ádám Kiss, András Kelemen, Kálmán Tót, Noémi Harcsa-Pintér, Márk Horváth, Márton Gaszner, Olívia Huszár, Marietta Orosz-Ábel, Gabriella Eördegh, Attila Nagy

Day 1 • Cognitive neuroscience • Poster ID:128

Stimulus modality or stimulus complexity influence primarily the performances in associative acquired equivalence learning in healthy humans?

Gabriella Eördegh, Kálmán Tót, Noémi Harcsa-Pintér, András Hegedűs, Márk Horváth, Attila Nagy

Day 2 • Cognitive neuroscience • Poster ID:228

Sex-dependent differences in noise-related impairment in number processing

Kyriakos Nikolaidis, Hans-Christoph Nürk, Hubert H. Kerschbaum

Day 3 • Cognitive neuroscience • Poster ID:328

Encoding time and serial position in the Paired Associates Learning task

Anna Padányi, Balázs Knakker, Sarolta Gyarmati, István Hernádi

Day 1 • Cognitive neuroscience • Poster ID:129

Application of multiple AAV serotypes and experimental setups for inhibition of food intake by silencing LHA using dreadd technology

Bodó Angelika, Bali Zsolt Kristóf, Nagy Lili Veronika, Kovács Péter, Kitka Tamás, Hernádi István

Day 2 • Cognitive neuroscience • Poster ID:229

Combinations of memantine and alpha7 nicotinic acetylcholine receptor ligands exert superior efficacy over monotreatments in the improvement of cognitive performance of aged rats

Nóra Bruszt, Zsolt Kristóf Bali, Lili Veronika Nagy, Áron Kolozsvári, Péter Engelmann, Kornélia Bodó, István Hernádi

Day 3 • Cognitive neuroscience • Poster ID:329

Application of the Self-ordered Spatial Search (SOSS) task for the investigation of the spatial working memory in non-human primates

Rafaella Mínea Riszt, Balázs Knakker, Evelin Kiefer, Antonietta Vitális-Kovács, Judit Inkeller, Anna Padányi, Szuhád Leila Khalil, István Hernádi

Day 1 • Cognitive neuroscience • Poster ID:130

Modeling the temporal dynamics of food intake of non-human primates in an operant feeding task

Balázs Knakker, Judit Inkeller, István Hernádi

Day 2 • Cognitive neuroscience • Poster ID:230

Investigation of interactions between response inhibition and temporal expectation in a flanker conflict task

Edina Papp, Balázs Knakker, Anna Padányi, István Hernádi

Day 3 • Cognitive neuroscience • Poster ID:330

The tachykinin hemokinin-1 is involved in learning and memory functions in mice

Éva Borbély, Eszter Kepe, Valéria Tékus, Zsuzsanna Helyes

Day 1 • Cognitive neuroscience • Poster ID:131

Sharp-wave ripple doublets induce complex dendritic spikes in parvalbumin interneurons in vivo

Linda Judák, Balázs Chiovini, Gábor Juhász, Dénes Pálfi, Zsolt Mezriczky, Zoltán Szadai, Gergely Katona, Benedek Szmola, Katalin Ócsai, Bernadett Martinecz, Anna Mihály, Ádám Dénes, Bálint Kerekes, Áron Szepesi, Gergely Szalay, István Ulbert, Zoltán Mucsi, Botond Roska, Balázs Rózsa

Day 2 • Cognitive neuroscience • Poster ID:231

Resting-state functional connectivity correlates of mental fatigue

Husamalddin Alhour, Gergely Darnai, Gergely Orsi, Gábor Perlaki, Eszter Áfra, Anna Szente, Ákos Arató, József Janszky

Day 3 • Cognitive neuroscience • Poster ID:331

Entorhinal grid-like codes and time-locked network dynamics track others navigating through space

Isabella Wagner, Luise Graichen, Boryana Todorova, Andre Lüttig, David Omer, Matthias Stangl, Claus Lamm

LIST OF POSTERS

Day 1 • Cognitive neuroscience • Poster ID:132

An approach for structural MRI artefact characterization using matched motion-corrupted and clean structural MRI brain scans

Ádám Nárai, Petra Hermann, Tibor Auer, Péter Kemenczky, János Szalma, István Homolya, Eszter Somogyi, Pál Vakli, Béla Weiss, Zoltán Vidnyánszky

Day 2 • Cognitive neuroscience • Poster ID:232

I feel, therefore I control? Within-individual changes in cognitive control predicit emotional reactivity in daily life

Levente Rónai, Flóra Hann, Szabolcs Kéri, Bertalan Polner

Day 3 • Disorders, disease models • Poster ID:332

A Cav1.4 L-type calcium channel truncation mutation affects primarily the retinal rod pathway

Matthias Ganglberger, Dagmar Knoflach, Alexander Günter, Lucia Zanetti, Bettina Wagner, Soumaya Belhadj, Regine Mühlfriedel, Emilio Casanova, Thomas Rülicke, Mathias W. Seeliger, Hartwig Seitter, Alexandra Koschak

Day 1 • Disorders, disease models • Poster ID:133

Enhancement of cocaine-seeking behaviour in male rats following the maternal high-fructose diet.

Kacper Witek, Karolina Wydra, Agata Suder, Małgorzata Filip

Day 2 • Disorders, disease models • Poster ID:233

LIT-001 - first nonpeptide oxytocin receptor agonist improves animals' cognitive performance in the neurodevelopmental schizophrenia model

Diana Piotrowska, Piotr Popik, Agnieszka Nikiforuk

Day 3 • Disorders, disease models • Poster ID:333

Glutamate transporter expression in the hippocampus, subiculum, entorhinal cortex and superior temporal gyrus in Alzheimer's disease

Oliver Wood, Joshua Walby, Jason Yeung, Thulani Palpagama, Henry Waldvogel, Richard Faull, Andrea Kwakowsky

Day 1 • Disorders, disease models • Poster ID:134

Age-dependent changes in NMDA-induced excitotoxicity and neuroprotective effect of kynurenic acid in mouse brain tissue

Emma Balog, Gyula Jenei, Anikó Magyariné Berkó, József Toldi, Zsolt Kis

Day 2 • Disorders, disease models • Poster ID:234

Cav1.3 channel gain of function results in altered channel gating, aberrant dendritic spine morphology and minor changes in dendritic branching

Yuliia V. Nikonishyna, Cornelia Ablinger, Sabrin Haddad, Nadja T. Hofer, Marta Campiglio, Eva M. Fritz, Jörg Striessnig, Nadine J. Ortner, Stefanie M. Geisler, Gerald J. Obermair

Day 3 • Disorders, disease models • Poster ID:334

Ultrastructural analysis of synapses in the hippocampus of patients suffering from major depressive disorder

Dávid Csabai, Abigél Sebők-Tornai, Craig A. Stockmeier, Boldizsár Czéh

Day 1 • Disorders, disease models • Poster ID:135

Activation of SIRT1 leads to an amelioration of DPR induced genomic instability in C9orf72-ALS

Sophie Imhof, Haluk Caliskan, Tetsuya Akiyama, Angelica Scaramuzza, Sigrid Klotz, Ellen Gelpi, Aaron Gitler, Vanja Nagy, Hakan Cetin

Day 2 • Disorders, disease models • Poster ID:235

Ictal heterogeneity in the awake striatum

Nikolett Zsigri, Antal Berényi, Magor L. Lőrincz

Day 3 • Disorders, disease models • Poster ID:335

Anxiolysis is associated with mciroglial modulations in a model of high trait anxiety

Simone B. Sartori, Sinead Rooney, Mohammad Ebrahimi Daran, Maria Kharitonova, Bilge Ugursu, Susanne Wolf, Anupam Sah, Nicolas Singewald

LIST OF POSTERS

Day 1 • Disorders, disease models • Poster ID:136

Spectral analysis of after-discharges elicited by intracranial 50 Hz stimulation of epileptic patients

Johanna Petra Szabó, Boglárka Hajnal, Anna Sákovics, Loránd Erőss, Dániel Fabó

Day 2 • Disorders, disease models • Poster ID:236

Quantitative electron microscopic analysis of mitochondrial changes in the hippocampus of depressed patients

Abigél Sebők-Tornai, Dávid Csabai, Craig A. Stockmeier, Boldizsár Czéh

Day 3 • Disorders, disease models • Poster ID:336

Selective induction of Krebs cycle enzyme subunits in the parahippocampal cortex of suicide victims

Fanni Dóra, Tamara Hajdu, Éva Renner, Miklós Palkovits, Christos Chinopoulos, Árpád Dobolyi

Day 1 • Disorders, disease models • Poster ID:137

P2X7R modulates dendritic outgrowth during brain development in physiology and pathology

Paula Mut-Arbona, Lumei Huang, Maria Baranyi, Pal Tod, András Iring, Beata Sperlagh

Day 2 • Disorders, disease models • Poster ID:237

Alteration of extracellular circulating miRNAs expression as a potential biomarker in neurological disorders: multiple sclerosis and epilepsy. A preliminary study

Lili Geiger, Réka Horváth, József Janszky, Miklós Kecskés, Gergely Orsi, Márton Tóth, Attila Miseta, Zsolt Illés, Katalin Gombos, Boldizsár Czéh

Day 3 • Disorders, disease models • Poster ID:337

Nimodipine exerts a neuroprotective effect against spreading depolarization independent of cerebral circulation

Péter Archibald Szarvas, Róbert Berkecz, Eszter Farkas, Rita Frank

Day 1 • Disorders, disease models • Poster ID:138

Acute systemic inflammation causes widespread proteomic changes in the synapses of the murine prefrontal cortex (PFC)

Dániel Mittli, Vanda Tukacs, Éva Csősz, József Kardos, Gábor Juhász, Katalin Adrienna Kékesi

Day 2 • Disorders, disease models • Poster ID:238

Peripherally induced acute neuroinflammation leads to electrophysiological changes in the visual system of the rat

Stefánia Pap, Dániel Mittli, Katalin Adrienna Kékesi, József Kardos, Vanda Tukacs, Gábor Juhász

Day 3 • Disorders, disease models • Poster ID:338

Behavior and cortical activation following mild hypercapnia in high-anxiety subjects

Nino Kobakhidze, Simone B. Sartori, Arnau R. Prats, Claudia Schmuckermair, Pawel M. Matulewicz, Sarah Sarah Gorkiewicz, Gaia Novarino, Francesco Ferraguti, Nicolas Singewald

Day 1 • Disorders, disease models • Poster ID:139

Transient receptor potential melastatin 4 (TRPM4) regulates hilar mossy cell loss in temporal lobe epilepsy

Laura Mundrucz, Angela Kecskes, Nóra Henn-Mike, Peter Kobor, Peter Buzas, Rudi Vennekens, Miklos Kecskes

Day 2 • Disorders, disease models • Poster ID:239

Quadruple-transgenic mice model of Alzheimer's disorder, with Aβ1-42 and pTau deposition, and cholinergic neuron specific Cre expression

Szidónia Farkas, Adrienn Szabó, Viktor Jasper, Kinga Nyers-Marosi, Bence Petrovai, István M Ábrahám, Tamás Kovács, Dóra Zelena

Day 3 • Disorders, disease models • Poster ID:339

Brivaracetam induced changes of the neuron–astrocyte–microglia triad in the rat kainic acid model of temporal lobe epilepsy

Krisztina Kelemen, Ágnes Csüdör, Máté Sárosi, Réka Bod, Zsolt Gáll, László Bába, Károly Orbán-Kis, Tibor Szilágyi

Day 1 • Disorders, disease models • Poster ID:140

Medial prefrontal cortical interneuron activity underlying fear generalization and extinction deficit

Róbert Dániel Maróthy, László Szente, Manó Aliczki, Zoltán Balogh, Gyula Balla, László Biró, Huba Szebik, Zsolt Borhegyi, Máté Tóth, Éva Mikics

Day 2 • Disorders, disease models • Poster ID:240

Differential effects of repeated dose scopolamine on cognitive functions in experienced rats

Attila Gáspár, Catarina Francisco Alves Tavares, Aliz Judit Ernyey, Brigitta Tekla Tajti, Bence Tamás Varga, István Gyertyán

Day 3 • Disorders, disease models • Poster ID:340

A quantitative study of cannabinoid receptor1-immunopositive perisomatic input of principal cells in focal cortical dysplasia type IIb in human epileptic patients

Cecília Szekeres-Paraczky, Péter Szocsics, Loránd Erőss, Dániel Fabó, Orsolya Salamonné Mihály, Zsófia Maglóczky

Day 1 • Disorders, disease models • Poster ID:141

Investigation of the effect of dimethyl trisulfide mediated by TRPA1 ion channels on anxiety and depression-like behaviour

Kitti Göntér, Ágnes Dombi, Gábor Pozsgai

Day 2 • Disorders, disease models • Poster ID:241

Examination of the density of macro- and microglia coverage of the blood-brain barrier in human patients with focal cortical dysplasia-associated epilepsy

Katalin Zsófia Tóth, Cecília Szekeres-Paraczky, Lóránd Erőss, Daniel Fabó, Orsolya Salamonné Mihály, Zsófia Maglóczky, Péter Szocsics

Day 3 • Disorders, disease models • Poster ID:341

Gut-microbiome analysis in a 'three-hit' schizophrenia rat model (Wisket)

Leatitia Gabriella Adlan, Szonja Bianka Plesz, Alexandra Büki, Gyongyi Horvath, Balázs Ligeti, Zoltán S. Zádori, Gabriella Kekesi

Day 1 • Disorders, disease models • Poster ID:142

The in vitro effects of beta-cyclodextrin complexed antiepileptic drugs on low-magnesium induced seizure-like events

Ágnes Csüdör, Rita-Judit Kiss, Máté Sárosi, Ádám József Berki, Károly Orbán-Kis, Zsolt Gáll, Tibor Szilágyi

Day 2 • Disorders, disease models • Poster ID:242

Effects of valproic acid treatment on vocal learning and social behaviour in zebra finches

Fábián Franciska Dorottya, Bozsó Dorottya, Duncan Kimba Ombula, Morvai Boglárka, Pogány Ákos, Zachar Gergely

Day 3 • Disorders, disease models • Poster ID:342

Glucose transporter 2 expression in the medial prefrontal cortex of a mice model of posttraumatic stress disorder

Pedro Correia, Tiago Chaves, Csilla Lea Fazekas, Bibiána Török, Adrienn Szabó, Tamás Kovács, Cecília Szekeres-Paraczky, Péter Szocsics, Viktória Kormos, Dóra Zelena

Day 1 • Disorders, disease models • Poster ID:143

Analysis of thalamocortical cellular network activity in a genetic animal model of absence epilepsy

Fanni Gál, Aletta Horváth-Magyar, Ferenc Dr. Mátyás, Sándor Dr. Borbély

Day 2 • Disorders, disease models • Poster ID:243

Fractalkine receptor (CX3CR1) inhibition is a potential novel therapeutic approach for complex regional pain syndrome

Valéria Tékus, Nikolett Szentes, Krisztina Pohóczky, Ádám Dénes, Serena Sensi, Andreas Goebel, Zsuzsanna Helyes

Day 3 • Disorders, disease models • Poster ID:343

Transient receptor potential ankyrin 1 (TRPA1) ion channel in the centrally-projecting Edinger-Westphal nucleus is downregulated in a mouse model of posttraumatic stress disorder

János Konkoly, Viktória Kormos, Flóra Schram, Balázs Gaszner, Dóra Zelena, Erika Pintér

Day 1 • Disorders, disease models • Poster ID:144

Alleviation of longterm cognitive impairment with memantine combined with alfa7 nicotic receptor ligand after repetitive mild traumatic brain injury in rats

Áron Kolozsvári, Zsolt Bali, Nóra Bruszt, Lili Veronika Nagy, Bálint Fazekas, Krisztina Amrein, Endre Czeiter, András Büki, István Hernádi

Day 2 • Disorders, disease models • Poster ID:244

Calretinin interneurons in human dorsolateral prefrontal cortex are involved in autism spectrum disorder

Krisztina Sáfár, Teadora Tyler, Erzsébet Frank, Leandra Jonker, István Adorján

Day 3 • Disorders, disease models • Poster ID:344

MicroRNA signatures and their predicted targets in peripheral blood mononuclear cells during ictal and interictal periods of migraineurs

Zsuzsanna Helyes, Tímea Aczél, Bettina Benczik, Bencze Ágg, Tamás Körtési, Péter Urbán, Bernadett Tuka, János Tajti, Péter Ferdinandy, László Vécsei, Kata Bölcskei, József Kun

Day 1 • Disorders, disease models • Poster ID:145

Inhibiting the functions of complement classical pathway by single-chain C1q recognition module

Henrietta Vadászi, Bence Kiss, András Micsonai, Tamás Szaniszló, Ráka Á. Kovács, Balázs A. Györffy, Katalin Adrienna Kékesi, Yuji Goto, Barbara Uzonyi, Károly Liliom, József Kardos

Day 2 • Disorders, disease models • Poster ID:245

Validation and modulation of seizure activity in a novel genetic absence epilepsy model

Safiye Chalyshkan, Aletta Magyar, Dr. Ferenc Mátyás, Sándor Borbély

Day 3 • Disorders, disease models • Poster ID:345

Sex-biased and isoform-specific rescue of working memory deficits by developmental GSK3 inhibition in a mouse model of schizophrenia predisposition

Johannes Passecker, Chloe M. Aloimonos, Chia-Yuan Chang, Aleksandra Dagunts, David A. Kupferschmidt, Joseph A. Gogos, Joshua A. Gordon

Day 1 • Disorders, disease models • Poster ID:146

Regulating epilepsy by manipulation of hippocampal VIP-expressing interneurons

Sadegh Rahimi, Meinrad Drexel

Day 2 • Disorders, disease models • Poster ID:246

Regional redistribution of CB1 cannabinoid receptors in human fetal brains with Down's syndrome, and their functional modifications in Ts65Dn +/+ mice

Ágoston Patthy, János Hanics, Gergely Zachar, Gábor G. Kovács, Tibor Harkany, Alán Alpár

Day 3 • Disorders, disease models • Poster ID:346

Optimization of Valproic acid treatment to induce autistic behaviours in zebra finches: dosage, time of administration and development

Estifanos Ghebrihiwet Tewelde, Boglárka Morvai, Dorina Feher, Ákos Pogány, Gergely Zachar

Day 1 • Disorders, disease models • Poster ID:147

Investigation of the neuronal activity of calretinin expressing cells in the thalamic paraventricular nucleus in an acute stress disorder model of mice

Anna Jász, László Biró, Bálint Király, Marco Diana, Balázs Hangya, László Acsády

Day 2 • Disorders, disease models • Poster ID:247

The role of monoamines for the physiological modulation of microglia

Moritz Brosch, Bruno Benedetti, Ariane Benedetti, Tarik Col, Lara Bieler, Günter Lepperdinger, Sebastien Couillard-Despres

Day 3 • Disorders, disease models • Poster ID:347

Spreading of P301S aggregated tau investigated in organotypic mouse brain slice cultures

Dhwani S. Korde, Christian Humpel

Day 1 • Disorders, disease models • Poster ID:148

Early structural changes of the dopaminergic pathway in a valproate-based mouse model of autism spectrum disorder

Cintia Klaudia Finszter, Róbert Gergely Kemecsei, Gergely Zachar, András Csillag

Day 2 • Disorders, disease models • Poster ID:248

Transcriptomic and functional comparison of IPSC-derived in vitro hippocampal neurons from a schizophrenia patient and isogenic controls

Csongor Tordai, Katalin Vincze, Máté Baradits, Ádám Póti, Edit Hathy, Ágota Apáti, János Réthelyi

Day 3 • Disorders, disease models • Poster ID:348

Microglial morphology shows alteration in focal cortical dysplasia type II epilepsy samples

Péter Szocsics, Cecília Szekeres-Paraczky, Orsolya Salamonné Mihály, Dániel Fabó, Loránd Erőss, Zsófia Maglóczky

Day 1 • Disorders, disease models • Poster ID:149

UCP2-deficient microglia contribute to the progression of neurophysiological abnormalities in Alzheimer's disease

Yuki Yasumoto, Heiko Endle, Jonatas Catarino, Zong-Wu Liu, Milan Stoiljkovic, Tamas L. Horvath

Day 2 • Disorders, disease models • Poster ID:249

Enhanced food intake and abnormal deiodinase mRNA expression pattern in the triple transgenic Alzheimer's disease model mice

Adrienn Szabó, Szidónia Farkas, Bibiána Török, Pedro Correia, Tamás Kovács, Andrea Kádár, Panna Hegedűs, Csaba Fekete, Dóra Zelena

Day 3 • Modelling • Poster ID:349

Automated and systematic validation of models of hippocampal neurons against electrophysiological data

Sára Sáray, Martin Blazsek, Christian Rössert, Shailesh Appukuttan, Andrew Davison, Eilif Muller, Tamás Freund, Szabolcs Káli

Day 1 • Modelling • Poster ID:150

Investigating the role of dendritic spines in synaptic integration

Luca Tar, Sára Sáray, Szabolcs Káli

Day 2 • Modelling • Poster ID:250

Modeling hippocampal CA3 oscillatory mode transitions

Martin Blazsek, András Ecker, Szabolcs Káli

Day 3 • Modelling • Poster ID:350

Modelling the intracellular biochemical mechanisms of long-term potentiation in a CA1 pyramidal cell spine head

Gábor Farkas, Luca Tar, Sára Sáray, Szabolcs Káli

Day 1 • Modelling • Poster ID:151

From chaos to clock in recurrent neural network. Case study

Alexander Vidybida, Olha Shchur

Day 2 • Modelling • Poster ID:251

Gap junction formation from hemichannels is controlled by redox-sensitive cysteines

Ágnes Simon, László Héja, Julianna Kardos

Day 3 • Modelling • Poster ID:351

Digital processing of István Apáthy's scientific histological collection

Levente Lászlófy, Zoltán Fekécs, Gergely Osváth, Antal Nógrádi

Day 1 • Modelling • Poster ID:152

Modelling of UTP activated Ca^{2+} signaling in the Deiters' cells in the organ of Corti in different postnatal developmental stages from prehearing to matured

Eszter Berekméri, Louise Moysan, Ann-Kathrin Lutz, János Farkas, Adam Fekete, László Köles, Baáta Sperlágh, Tibor Zelles

Day 2 • Modelling • Poster ID:252

Modelling transcription dynamics of neuronal cells based on single-cell RNA-sequencing data

Zita Sepsi, Dániel Mittli, Dominik Mátyás, Márton Péter Nyiri, Katalin Adrienna Kékesi, Gábor Dénes Juhász, József Kardos, András Micsonai

Day 3 • Modelling • Poster ID:352

What is the snow in a neural avalanche?

Chaitanya Chintaluri, Tim P. Vogels

LIST OF POSTERS

Day 1 • Modelling • Poster ID:153

Mechanisms of plasticity for pup call sounds in the maternal auditory cortex

Christoph Miehl, Soomin Song, Robert Froemke, Julijana Gjorgjieva

Day 2 • Modelling • Poster ID:253

Neuromodulation in cortical networks enables simultaneous motor-null and motor-potent dynamics for the generation of complex movements

Juan Sebastian Calderon Garcia, Tim Vogels

Day 3 • Modelling • Poster ID:353

Layer 1 interneurons modulate cortical responses depending on arousal

Laura Bella Naumann, Tim Vogels

Day 1 • Modelling • Poster ID:154

Identifying transfer learning in the reshaping of inductive biases

Anna Székely, Balázs Török, Dávid, Gergely Nagy, Mariann M. Kiss, Karolina Janacsek, Dezső Németh, Gergő Orbán

Day 2 • Neuroendocrinology • Poster ID:254

Functional and evolutionary characterization of molluscan neuroendocrine system using a widely used invertebrate model species, the great pond snail (Lymnaea stagnalis)

István Fodor, Tamar Schwarz, Bence Kiss, Antal Tapodi, János Schmidt, Réka Svigruha, Joris Koene, Ioanna Katsiadaki, Alexander Scott, Zsolt Pirger

Day 3 • Neuroendocrinology • Poster ID:354

Role of NUCB2 in osmotic challenge evoked neuronal plasticity

Klaudia Sípos, Rege S. Papp, Katalin Könczöl, Miklós Geiszt, Zsuzsanna E. Tóth

Day 1 • Neuroendocrinology • Poster ID:155

Involvement of nesfatin-1/NUCB2 in glucose homeostasis in the arcuate nucleus

Máté Durst, Klaudia Sípos, Rita Matuska, Péter Várnai, Eszter Soltész-Katona, Miklós Geiszt, Zsuzsanna E. Tóth

Day 2 • Neuroendocrinology • Poster ID:255

Emerging role of A20 as a potential negative regulator of pro- and anti-inflammatory factors in the genetically modified knock-in mice APPNL-F/NL-F - model of Alzheimer's disease.

Kinga Tylek, Ewa Trojan, Agnieszka Basta-Kaim

Day 3 • Neuroendocrinology • Poster ID:355

Investigating the function of an AVP/OXT-like neuropeptide homolog in the marine bristle worm

Petra Schaffer, Federico Scaramuzza, Audrey Mat, Martin Zurl, Lukas Orel, Florian Raible, Kristin Tessmar-Raible

Day 1 • Neuroendocrinology • Poster ID:156

Distribution of insulin-like growth factor-binding protein-3 in the human infundibular region.

Erzsébet Horváthné Oszwald, János Barna, Éva Renner, Miklós Palkovits, Árpád Dobolyi

Day 2 • Neuroendocrinology • Poster ID:256

Localization of galanin and galanin receptors in the human anterior pituitary

Susanne Brunner, Tim Rieder, Serge Weis, Barbara Kofler

Day 3 • Neuroendocrinology • Poster ID:356

Functional-morphological analysis of corticotropin-releasing hormone-containing neurons in the rotenone model of Parkinson's disease

Bence Pytel, Zsombor Márton, Balázs Ujvári, László Á Kovács, Tamás Gaszner, Nóra Füredi, Viktória Kormos, Balázs Gaszner

Day 1 • Neuroendocrinology • Poster ID:157

Elevated glucagon-like peptide-1 receptor level in the paraventricular hypothalamic nucleus of type 2 diabetes mellitus patients

Éva Renner, Fanni Dóra, Erzsébet Oszwald, Árpád Dobolyi, Miklós Palkovits

Day 2 • Neuroendocrinology • Poster ID:257

Altered neuronal serotonin and tryptophan-hydroxylase content in the dorsal raphe nucleus in stress-evoked depression models in rats

László Ákos Kovács, Balázs Ujvari, József Farkas, Tamás Gaszner, Valér Csernus, Balázs Gaszner

Day 3 • Neuroendocrinology • Poster ID:357

Regulation of adult thyroid hormone homeostasis by early postnatal hyperthyroidism in male mice

Dóra Kővári, Anett Szilvásy-Szabó, Veronika Penksza, Balázs Gereben, Csaba Fekete

Day 1 • Neuroendocrinology • Poster ID:158

Functionally active transient receptor potential ankyrin 1 ion channel is downregulated in the centrally projecting Edinger-Westphal nucleus upon acute alcohol exposure

Ammar Al-Omari, Miklós Kecskés, Balázs Gaszner, Erika Pintér, Viktória Kormos

Day 2 • Novel techniques • Poster ID:258

PlatypOUs—a mobile robot platform and demonstration tool supporting STEM education

Melinda Rácz, Erick Noboa, Borsa Détár, Ádám Nemes, Péter Galambos, László Szűcs, Gergely Márton, György Eigner, Tamás Haidegger

Day 3 • Novel techniques • Poster ID:358

In vivo calcium imaging of neuronal activity in the mouse visual cortex during electrical microstimulation with high-density flexible multi-shank probes

Csaba Horváth, Melinda Rácz, Frederik Ceyssens, Maarten Schelles, Michael Kraft, István Ulbert, Richárd Fiáth

Day 1 • Novel techniques • Poster ID:159

Transparent, thiol-ene/acrylate-based electrode array for long-term multimodal neuroimaging

Ágnes Szabó, Zsófia Lantos, Flóra Zsófia Fedor, Anita Zátonyi, Miklós Madarász, Tibor Lőrincz, Zoltán Fekete

Day 2 • Novel techniques • Poster ID:259

Concurrent imaging of Calcium signals and recording of electrophysiology in the hippocampus of awake mouse

Miklós Madarász, Zsófia Lantos, Benedek Bence Szmola, Ágnes Szabó, Zoltán Fekete, Gábor Juhász

Day 3 • Novel techniques • Poster ID:359

Electrophysiological performance of flexible polymer-based neural probes in acute rodent experiments

Borbála Árkossy, Csaba Horváth, Eric Klein, Patrick Ruther, István Ulbert, Richárd Fiáth

Day 1 • Novel techniques • Poster ID:160

Measuring GABA levels in the neocortex of humans using in vivo magnetic resonance spectroscopy: A methodical study

Zsófia Kürtös, Szilvia Anett Nagy, Boldizsár Czéh

Day 2 • Novel techniques • Poster ID:260

Chronic functional ultrasound imaging of freely moving cats combined with optogenetics

Klaudia Csikós, Domonkos Horváth, Julio Loera, Fanni Veres, Ábel Petik, Klaudia Spitzer, Dries Kil, Attila B. Dobos, Zoltán Vidnyánszky, Alan Urban, Daniel Hillier

Day 3 • Novel techniques • Poster ID:360

Deep learning-based spike sorting on edge TPU

János Rokai, István Ulbert, Gergely Márton

Day 1 • Novel techniques • Poster ID:161

On the way to layer-by-layer infrared neural stimulation: presentation of a new intracortical optrode

Ágoston Csaba Horváth, Borbála Csomai, Ákos Mórocz, Eszter Nguyen, Péter Fürjes, Richárd Fiáth, Zoltán Fekete

Day 2 • Novel techniques • Poster ID:261

Electrochemistry meets Neuroscience – glucose biosensor development for preclinical research

Evelin Szabó, Anita Kovács, Lívia Nagy, Géza Nagy, Dóra Zelena, László Lénárd

Day 3 • Novel techniques • Poster ID:361

Chronic cranial window for long term multimodal imaging in rats

Klaudia Spitzer, Klaudia Csikós, Dániel Hillier

LIST OF POSTERS

Day 1 • Novel techniques • Poster ID:162

Automated detection of spontaneous population activity on human in vitro recordings

Réka Bod, Ágnes Kandrács, Kinga Tóth, Estilla Zsófia Tóth, Loránd Erőss, Attila Bagó, Gábor Nagy, Dániel Fabó, István Ulbert, Lucia Wittner

Day 2 • Novel techniques • Poster ID:262

Assessment of neutralizing factors against engineered adeno-associated virus serotypes in preclinical species

Beatrix Kovács, Anett Matuscsák, Áron Szepesi, Balázs Rózsa, Daniel Hillier

Day 3 • Novel techniques • Poster ID:362

Diffusion tensor imaging reveals microstructural changes in the white matter of depressed patients with and without negative childhood experiences

Anett Vranesics, Szilvia Anett Nagy, Elza Flóra Lakner, Eszter Csernela, Nándor Németh, Gábor Perlaki, Tamás Dóczi, Mónika Gálber, Mária Simon, Boldizsár Czéh

Day 1 • Novel techniques • Poster ID:163

Spatial gene expression analysis of risperidone-induced changes in the mouse forebrain

Magdalena Ziemiańska, Anna Radlicka, Mateusz Zięba, Marcin Piechota, Sławomir Gołda, Łukasz Szumiec, Michał Korostyński, Jan Rodriguez Parkitna

Day 2 • Novel techniques • Poster ID:263

Resting-state functional connectivity changes in depressed patients with and without early life stress

Mónika Gálber, Szilvia Anett Nagy, Flóra Elza Lakner, Gábor Perlaki, Tamás Dóczi, Mária Simon, Boldizsár Czéh

Day 3 • Novel techniques • Poster ID:363

Three dimensional high density electrode arrays allow identification of synaptically coupled human neurons in vivo

Robert G. Averkin, László Papp, Sándor Bordé, Ferenc Vincze, László Papp Jr., Zoltán Horváth, Pál Barzó, Gábor Tamás

Day 1 • Novel techniques • Poster ID:164

Comparative definition of transcriptomic cell types in primary visual cortex

Edina Mucsi, Beatrix Kovacs, Daniel Hillier, Domonkos Horvath, Klaudia Spitzer, Attila B. Dobos

Day 2 • Novel techniques • Poster ID:264

Intracortical effects of continuous infrared neural stimulation

Zsófia Lantos, Richárd Fiáth, Ágoston Csaba Horváth, Zoltán Fekete

Day 3 • Novel techniques • Poster ID:364

Phosphoproteomic analysis reveals post-transcriptional dysregulation In Huntington's disease patient derived induced neurons

Lea Danics, Dorina Jamniczky, Anna Abbas, Balázs Kis, Pálma Anna Zsolnai, Ágnes Varga, Zoltán Veréb, Lajos Kemény, Thomas B. Stoker, Kate Harris, Shaline V. Fazal, Romina Vuono, Janelle Drouin-Ouellet, Roger A. Barker, Karolina Pircs

Day 1 • Novel techniques • Poster ID:165

Effects of ischemia on the migratory capacity of microglia along collagen microcontact prints on organotypic mouse cortex brain slices

Katharina Steiner, Christian Humpel

Day 2 • Novel techniques • Poster ID:265

Seeing beyond the spikes: reconstructing the complete spatiotemporal membrane potential distribution from paired intra- and extracellular recordings

Domokos Meszéna, Anna Barlay, Péter Boldog, Kristóf Furuglyás, Dorottya Cserpán, Lucia Wittner, István Ulbert, Zoltán Somogyvári

Day 3 • Novel techniques • Poster ID:365

Fast and sensitive GCaMP calcium indicators for imaging neural populations

Yan Zhang, Márton Rózsa, Tim Wang, Yajie Liang, Daniel Bushey, Ziqiang Wei, Jihong Zheng, Daniel Reep, Gerard Joey Broussard, Arthur Tsang, Getahun Tsegaye, Sujatha Narayan, Christopher J. Obara, Jing-Xuan Lim, Ronak Patel, Rongwei Zhang, Misha B. Ahrens, Glenn C. Turner, Samuel S.-H. Wang, Caiying Guo, Marius Pachitariu, Wyatt L. Korff, Eric R. Schreiter, Karel Svoboda, Jeremy P. Hasseman, Ilya Kolb, Loren L. Looger, Janelia GENIE Project

Day 1 • Repair and regeneration • Poster ID:166

Exploring the structural, morphological, and chemical properties of spider silk crucial for its success in nerve regeneration

Sarah Stadlmayr, Anda Rad, Flavia Millesi, Martin Zehl, Sonja Wolf, Karolina Peter, Aida Naghilou, Helga Lichtenegger, Christine Radtke

Day 2 • Repair and regeneration • Poster ID:266

Sculpting adulthood in the brain networks: a novel map of dormant precursor maturation in cortical and subcortical areas

Marie-Theres Hochwartner, Maximilian Reisinger, Ariane Benedetti, Dominika Jakubecova, Gabriele Gabriele, Bruno Benedetti, Sebastien Couillard-Despres

Day 3 • Repair and regeneration • Poster ID:366

"Old prince meets young sleeping beauty": the slow awakening of dormant neuronal precursors in the adult and aged brain

Bruno Benedetti, Maximilian Reisinger, Marie Hochwartner, Gabriele Gabriele, Dominika Jakubecova, Ariane Benedetti, Sebastien Couillard-Despres

Day 1 • Repair and regeneration • Poster ID:167

Neuroectodermal stem cells improve the functional and morphological outcome after chronic spinal cord contusion injury via multiple mechanisms

Tamás Bellák, Krisztián Pajer, Máté Ignácz, Sudheer Babu Sangeetham, László Gál, Zoltán Fekécs, Annamária Marton, Dénes Török, Csaba Vizler, Antal Nógrádi

Day 2 • Repair and regeneration • Poster ID:267

Exploring the potential of human iNSCs to restore connectivity in the injured spinal cord in a rat model

Felix Hübl, Lara Bieler, Katharina Günther, Dominika Jakubecova, Marta Suarez-Cubero, Christina Kreutzer, Ibrahim Khan, Jaqueline Illek, Ludwig Aigner, Frank Edenhofer, Sebastien Couillard-Despres

Day 3 • Repair and regeneration • Poster ID:367

A potential therapeutic treatment with lipid nanoparticle-encapsulated nucleoside-modified mRNA after spinal cord injury

László Gál, Tamás Bellák, Annamária Marton, Zoltán Fekécs, Drew Weissman, Dénes Török, Rachana Biju, Csaba Vizler, Paulo J.C. Lin, Ying K. Tam, Norbert Pardi, Antal Nógrádi, Krisztián Pajer

Day 1 • Repair and regeneration • Poster ID:168

Single-cell analyses of axolotl telencephalon organization, neurogenesis, and regeneration

Katharina Lust, Ashley Maynard, Tomás Gomes, Jonas Simon Fleck, J. Gray Camp, Elly M. Tanaka, Barbara Treutlein

Day 2 • Repair and regeneration • Poster ID:268

Untangling neuronal circuits in the axolotl using an all-optical experimental setup

Simone Horenkamp, Claudio Polisseni, Katharina Judith Lust, Elly Margaret Tanaka

Day 3 • Repair and regeneration • Poster ID:368

The role of motorneurons in neuroinflammatory processes

Kinga Molnár, Bernát Nógrádi, Rebeka Kristóf, Ádám Mészáros, Krisztián Pajer, László Siklós, Antal Nógrádi, Imola Wilhelm, István A. Krizbai

Day 1 • Repair and regeneration • Poster ID:169

Inhibition of selectin by fucoidan promotes survival and regeneration of injured motoneurons after ventral root avulsion and reimplantation

Tamás Bellák, Krisztián Pajer, Rebeka Kristóf, Zoltán Fekécs, Dénes Török, Antal Nógrádi

Day 2 • Repair and regeneration • Poster ID:269

Prefrontal cortex shapes neuroblast migration in rodents

Csenge Tóth-Kőrösi, Melinda Vitéz-Cservenák, János Hanics, Árpád Dobolyi, Alán Alpár

Day 3 • Stem cells and development • Poster ID:369

Morphological and electrophysiological maturation of human neurons derived from induced pluripotent stem cells

Maissa Ben Mahmoud, Anikó Rátkai, Kristina Rita Bauer, Attila Szücs, Katalin Schlett, Krisztián Tárnok

Day 1 • Stem cells and development • Poster ID:170

Hyaluronan is required for mouse hippocampal development

Rita Varga, Carolyn Helen Grant, Angelika Varga, Anita Balazs, Peter Szucs, Zoltan Meszar

Day 2 • Stem cells and development • Poster ID:270

Exploring the intersection between the light/dark cycle, circadian timing and neural stem cell regulation

Pedro Ozorio Brum, Vinoth Babu Veedin Rajan, Tatjana Kepcija, Noelia Urban, Kristin Tessmar-Raible

Day 3 • Stem cells and development • Poster ID:370

Story of friendly mice: how serotonin influences adrenal gland development

Polina Kameneva, Victoria I. Melnikova, Maria Eleni Kastriti, Anastasia Kurtova, Aliia Murtazina, Louis Faure, Irina Poverennaya, Tatiana S. Kalinina, Nikita V. Kudryashov, Michael Bader, Jan Skoda, Petr Chlapek, Lucie Curylova, Lukas Sourada, Jakub Neradil, Marketa Tesarova, Natalia Alenina, Elena E. Voronezhskaya, Igor Adameyko

Day 1 • Stem cells and development • Poster ID:171

Effects of depolarization patterns on neuronal development and maturation

Krisztina Bauer, Ben Mahmoud Maissa, Anikó Rátkai, Attila Szücs, Katalin Schlett, Krisztián Tárnok

Day 2 • Stem cells and development • Poster ID:271

Postnatal development of the hippocampal formation in the TRPV1 knockout mice

Hajnalka Ábrahám, Melinda Boros, Noémi Sóki, Abigél Molnár

Day 3 • Stem cells and development • Poster ID:371

The effect of antipsychotic haloperidol, olanzapine, and risperidone on human iPSC-derived neural progenitors

Bálint Jezsó, Kiara G. Farkas, Julianna Lilienberg, Katalin Vincze, Edit Haty, Sára Kálmán, László Homolya, Ágota Apáti, János Réthelyi

Day 1 • Stem cells and development • Poster ID:172

Human cortical cultures and artificial models: Understanding individuals with epilepsy

Christopher Currin, Carsten Pfeffer, Gaia Novarino, Tim Vogels

Day 2 • Stem cells and development • Poster ID:272

Effects of metformin on proliferation and neurite outgrowth in neuronal progenitor cells derived from diabetic patients and healthy controls

Katalin Vincze, Eszter Szabó, Bálint Jezsó, Csongor Tordai, Andrea Á Molnár, Apáti Ágota, János M Réthelyi

Day 3 • Systems neuroscience • Poster ID:372

Organization of a layered structure in the dorsal telencephalon of gobies

Ruth Gutjahr, Maximilian S. Bothe, Boris P. Chagnaud

Day 1 • Systems neuroscience • Poster ID:173

A role of limbic system in behavioral effects of psilocybin

Adam Wojtas, Agnieszka Bysiek, Zuzanna Szych, Iwona Majcher-Maślanka, Krystyna Gołembiowska

Day 2 • Systems neuroscience • Poster ID:273

A midbrain-extended amygdala pathway controls contextual fear memory and predator odor avoidance

Kinga Müller, Bíborka Bruzsik, Laura Rovira-Esteban, Enrica Paradiso, Orsolya Papp, Zsuzsanna Fekete, José Miguel Blasco-Ibanez, Francesco Ferraguti, Éva Mikics, Norbert Hájos

Day 3 • Systems neuroscience • Poster ID:373

Evolution of spatial and context selective tuning of hippocampal CA1 pyramidal cells during behavioral adaptation in a virtual contextual go/no-go task

Rita Nyilas, Balázs Ujfalussy, Balázs Lükő, Atilla Kelemen, Judit Makara

Day 1 • Systems neuroscience • Poster ID:174

Anxiety-related dynamics of ventral hippocampal neurons

Hugo Malagon-Vina, Stéphane Ciocchi, Thomas Klausberger

Day 2 • Systems neuroscience • Poster ID:274

Contributions of a distinct subtype of orbitofrontal cortex neurons to choice abandonment in a decision confidence task

Paul Anderson, Michael Lagler, Ben-Orli Nathanson, Paul Masset, Torben Ott, Hugo Malagon-Vina, Marta Solano Mateos, Romana Hauer, Adam Kepecs, Thomas Klausberger

Day 3 • Systems neuroscience • Poster ID:374

All-optical long-term functional access to large-animal brains

Fanni Veres, Klaudia Csikós, Klaudia Spitzer, Domonkos Horváth, Beatrix Helga Kovács, Attila B. Dobos, Lúcia Wittner, Dániel Hillier

Day 1 • Systems neuroscience • Poster ID:175

IL-6 signal transducer dependent processes in Nav1.8 expressing neurons associated with cognitive performance, gut motility and microbiome composition

Lydia Riehl, Maximilian Zeidler, Susanne Sauer, Kathrin Braun, Federica Vercelli, Kai Kummer, Theodora Kalpachidou, Michaela Kress

Day 2 • Systems neuroscience • Poster ID:275

Noxious stimulus-responsive neurons in the dorsal tegmentum of the midbrain

Péter Földi, Kinga Müller, Gergő Nagy, Norbert Hájos

Day 3 • Systems neuroscience • Poster ID:375

Differential distribution of calcium binding proteins (CBPs) in central pattern generators underlying social communication

Carlos Daniel Corrales Parada, Boris Philippe Chagnaud

Day 1 • Systems neuroscience • Poster ID:176

Brainstem reticular formation regulates reward experience

Krisztián Zichó, Réka Z. Sebestény, Virág Takács, Áron Orosz, Boldizsár Balog, Gábor Nyiri

Day 2 • Systems neuroscience • Poster ID:276

Brainstem-hippocampal interactions support spatial memory formation

Juan F. Ramirez-Villegas, Damaris K. Rangel-Guerrero, Peter Baracskay, Jozsef Csicsvari

Day 3 • Systems neuroscience • Poster ID:376

Studying visual system plasticity with mesoscopic brain imaging in developing and adult cats

Domonkos Horvath, Klaudia Csikos, Abel Petik, Klaudia Spitzer, Attila Balazs Dobos, Daniel Hillier

Day 1 • Systems neuroscience • Poster ID:177

The geometry of hippocampal representations in different virtual reality tasks

Atilla Botond Kelemen, Rita Nyilas, Kata Szamosfalvi, Snezana Raus Balind, Balázs Lükő, Judit Makara, Balázs Ujfalussy

Day 2 • Systems neuroscience • Poster ID:277

Disruption of mGlu5 receptors in somatostatin-expressing neurons alters fear memory retrieval and brain oscillatory activity in prefrontal cortex and ventral hippocampus

Pawel Matulewicz, Arnau Ramos-Prats, Sabine Schönherr, Francesco Ferraguti

Day 3 • Systems neuroscience • Poster ID:377

Burst coding in hippocampal CA3 pyramidal neurons in vivo

Magdalena Picher, Peter Jonas

Day 1 • Systems neuroscience • Poster ID:178

Rapid retinotopy mapping using functional ultrasound imaging of deep visual cortex in cats

Ábel Petik, Klaudia Csikós, Domonkos Horváth, Klaudia Spitzer, Théo Lambert, Attila B. Dobos, Alan Urban, Dániel Hillier

Day 2 • Systems neuroscience • Poster ID:278

Higher-order thalamic nuclei facilitate the generalization and maintenance of spike-and-wave discharges of absence seizures

Olivér Nagy, Zoe Atherton, Lívia Barcsai, Nikolett Zsigri, Péter Sere, Tamás Földi, Antal Berényi, Vincenzo Crunelli, Magor L. Lőrincz

Day 3 • Systems neuroscience • Poster ID:378

Spontaneous traveling activity waves of retinal ganglion cells encode surface uniformity and object contiguity

Gergely Szarka, Ádám Tengölics, Anett Futácsi, Béla Völgyi

Day 1 • Systems neuroscience • Poster ID:179

Multidirectional propagation of SPW-R complexes in the rat hippocampus, in vitro

Ágnes Kandrács, Csilla Szabó, Hédi Maczelka, Veronik Kardos, Piroska Teleki, Zsófia Lánczi, Katharina T. Hofer, Ildikó Pál, Estilla Zs. Tóth, Kinga Tóth, István Ulbert, Lucia Wittner

Day 2 • Systems neuroscience • Poster ID:279

Transient galanin expression shapes peripheral-to-central connectivity in the somatosensory thalamus during whisker development

Zsofia Hevesi, Joanne Bakker, Roman Romanov, Tibor Harkany, Tomas Hökfelt

Day 3 • Systems neuroscience • Poster ID:379

The question of homology – comparing the human and rat frontal cortices

Rege Sugárka Papp, Miklós Palkovits

Day 1 • Systems neuroscience • Poster ID:180

Locomotion induced by medial septal glutamatergic neurons is linked to intrinsically generated persistent firing

Endre Levente Marosi*, Karolina Korvasova*, Felix Ludwig, Hiroshi Kaneko, Liudmila Sosulina, Tom Tetzlaff, Stefan Remy, Sanja Mikulovic

Day 2 • Systems neuroscience • Poster ID:280

The role of neuromodulatory systems in implicit learning

Bálint Király, Franciska Benyó, Vivien Pillár, Anna Velencei, Balázs Hangya

Day 3 • Systems neuroscience • Poster ID:380

Feedback inhibition in the entorhinal cortex mediated by the neurogliaform cells

Szilárd Szőcs, Ágnes Agócs-Laboda, Csaba Varga, Nóra Henn-Mike

Day 1 • Systems neuroscience • Poster ID:181

Multisensory signal association by glutamatergic and GABAergic tecto-thalamic cells

Anna Virág Bakacsi, Péter Berki, Aletta Magyar, Sándor Borbély, Kinga Kocsis, Ferenc Mátyás

Day 2 • Systems neuroscience • Poster ID:281

State-specific activity of pyramidal cells and interneurons in supragranular neocortical layers during natural sleep and wakefulness

Boglárka Bozsó, János Horváth, Robert G. Averkin, Sándor Bordé, Viktor Szemenyei, Gábor Tamás

Day 3 • Systems neuroscience • Poster ID:381

Silent juxtacellular field potentials correspond to neuronal cell types

Sándor Bordé, Robert G. Averkin, János Horváth, Boglárka Bozsó, Viktor Szemenyei, Gábor Tamás

Day 1 • Systems neuroscience • Poster ID:182

Prefronto-striatal representation of perceived reward probability difference in a two alternative choice dynamic foraging paradigm

Aron Koszeghy, Wei Xu, Peiheng Lu, Jian Gan

Day 2 • Systems neuroscience • Poster ID:282

The role of mPFC spatial coding in supporting a contextual association task

Andrea Cumpelik, Jozsef Csicsvari

Day 3 • Systems neuroscience • Poster ID:382

Spontaneous and reversible switch of hippocampal place representations in stable environments

Máté Sümegi, Gáspár Oláh, István Paul Lukács, Judit Herédi, Zoltán Nusser

Day 1 • Systems neuroscience • Poster ID:183

An alternative cortico-subcortical loop for motor coordination via the thalamus

Emília Bősz, Viktor Plattner, László Acsády

Day 2 • Systems neuroscience • Poster ID:283

Complexity-based causal discovery in epileptic EEG recordings

Bálint Varga, Marcell Stippinger, Zsigmond Benkő, Dániel Fabó, Péter Halász, Loránd Erőss, Zoltán Somogyvári, András Telcs

Day 3 • Systems neuroscience • Poster ID:383

Septal-preoptic connectivity involved in maternal adaptation

Gina Puska, Vivien Szendi, Szilvia Oláh, Máté Egyed, Diána Dimén, Árpád Dobolyi

Day 1 • Systems neuroscience • Poster ID:184

Unique organization of layer 5 projections from the frontal cortex to the thalamus

Hajnalka Bokor, Nóra Hádinger, Judit Makara, Boglárka Tóth, Naoki Yamawaki, Gordon Shepherd, László Acsády

Day 2 • Systems neuroscience • Poster ID:284

Ultrastructural characteristics of dendrites and local axon collaterals of spinal lamina i projection neurons

Greta Kis, Vera Etelka Szarvas, Eva Kokai, Miklos Sivado, Peter Szucs

Day 3 • Systems neuroscience • Poster ID:384

Hierarchical generative model of natural images reproduces key features of the early visual cortex

Ferenc Csikor, Balázs Meszéna, Gergő Orbán

Day 1 • Systems neuroscience • Poster ID:185

Detecting causality with cross-mapping coherence

Zsigmond Benkő, Bálint Varga, Marcell Stippinger, Attila Bencze, András Telcs, Zoltán Somogyvári

Day 2 • Systems neuroscience • Poster ID:285

Cortex-wide mechanism of reinforcement signaling via a cholinergic pathway

Zoltán Szadai, Quentin Chevy, Lídia Popara, Adam Kepecs, Balázs Rózsa

Day 3 • Systems neuroscience • Poster ID:385

Optical brain computer interface for measuring circuit plasticity during learning

Kayvon Daie, Márton Rózsa, Peter Humphreys, Timothy Lillicrap, Claudia Clopath, Agnieszka Grabska-Barwinska, Lucas Kinsey, Mohit Kulkarni, Matt Botvinick, Karel Svoboda

Day 1 • Novel techniques • Poster ID:186

Cytoarchitectonic and excitatory afferent based mapping of the anterior part of the human thalamus

Csaba Dávid , András Salma , László Acsády

Day 2 • Neuroendocrinology • Poster ID:286

VGF-derived neuropeptide TLQP-21 acting on arcuate and RP3V kisspeptin neurons is a critical regulator of mouse fertility both in males and females

Imre Farkas, Katalin Skrapits, Éva Rumpler, Balázs Göcz, Miklós Sárvári, Szabolcs Takács, Erik Hrabovszky

Day 3 • Cellular neuroscience • Poster ID:386

Elucidating the role of α2δ proteins in synapse organization

Clarissa Eibl, Ruslan Stanika, Cornelia Ablinger, Gerald J. Obermair

Day 1 • Behaviour • Poster ID:187

Thalamocortical circuits in motor learning

Boglárka Tóth, Eriko Kuramoto, Hajnalka Bokor, László Acsády

Day 2 • Neuroendocrinology • Poster ID:287

17β-estradiol does not have a direct effect on the function of striatal cholinergic interneurons in adult mice in vitro

Erzsébet Kövesdi, Ildikó Udvarácz, Angéla Kecskés , Szilárd Szőcs, Szidónia Farkas, Péter Faludi, Tibor Z Jánosi, István M Ábrahám, Gergely Kovács

Day 3 • Systems neuroscience • Poster ID:387

A septal-VTA circuit drives exploratory behavior

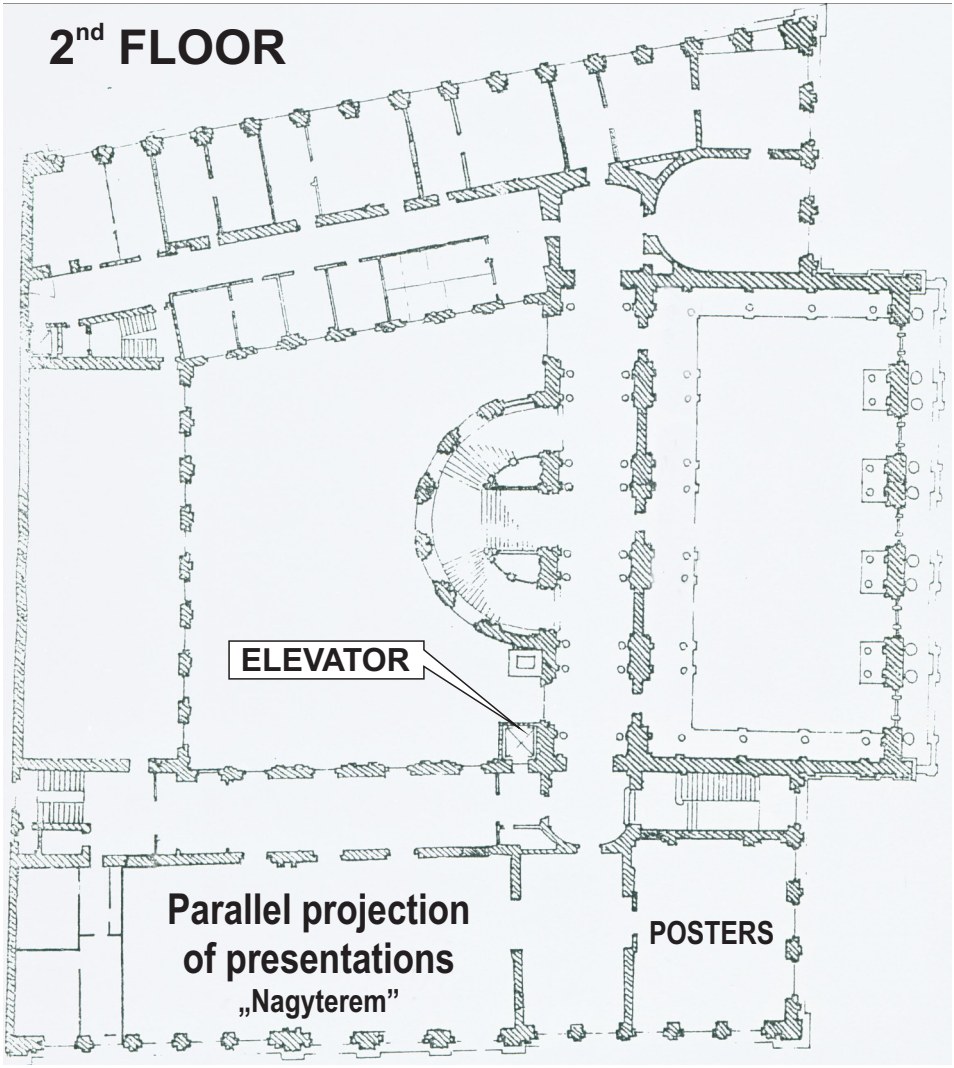
Petra Mocellin, Kevin Luxem, Oliver Barnstedt, Hiroshi Kaneko, Sanja Mikulovic, Stefan Remy

Day 1 • Systems neuroscience • Poster ID:188

Behavioral effect of GABA release from forebrain cholinergic neurons

Hunor Sebők,, Márton I. Mayer, Virág Takács T., Zsuzsanna Bardóczi, Katalin E. Sós, Katalin Sviatkó, Balázs Hangya, Manó Aliczki, Éva Mikics, Tamás F. Freund, Gábor Nyiri

The lectures are parallel projection in the „Nagyterem" meeting room on the 2nd floor.


2nd FLOOR
ELEVATOR
Parallel projection of presentations
„Nagyterem”
POSTERS

ROUTE TO THE CONFERENCE DINNER

abberior INSTRUMENTS

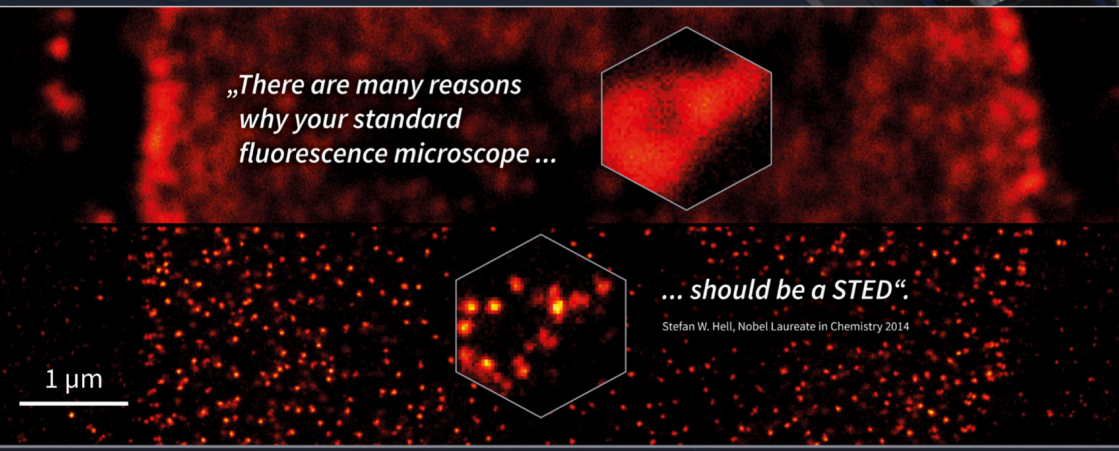
Superresolution STED
microscopy from its inventors

Facility Line

fastest time to result

Compact Line STEDYCON

expands any microscope to confocal & STED



UNICAM

1144 Budapest, Kőszeg utca 29.
Telefon: +36 1 221 5536
E-mail: unicam@unicam.hu
Web: www.unicam.hu