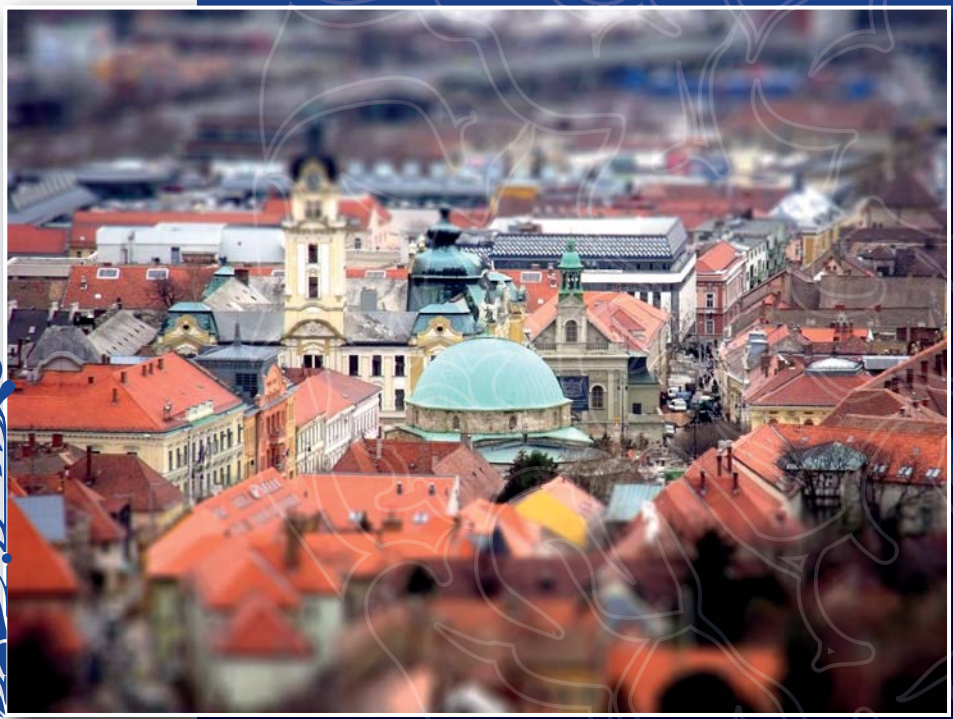
FENS
REGIONAL MEETING
20-23 SEPTEMBER 2017. PÉCS, HUNGARY

John
Smith



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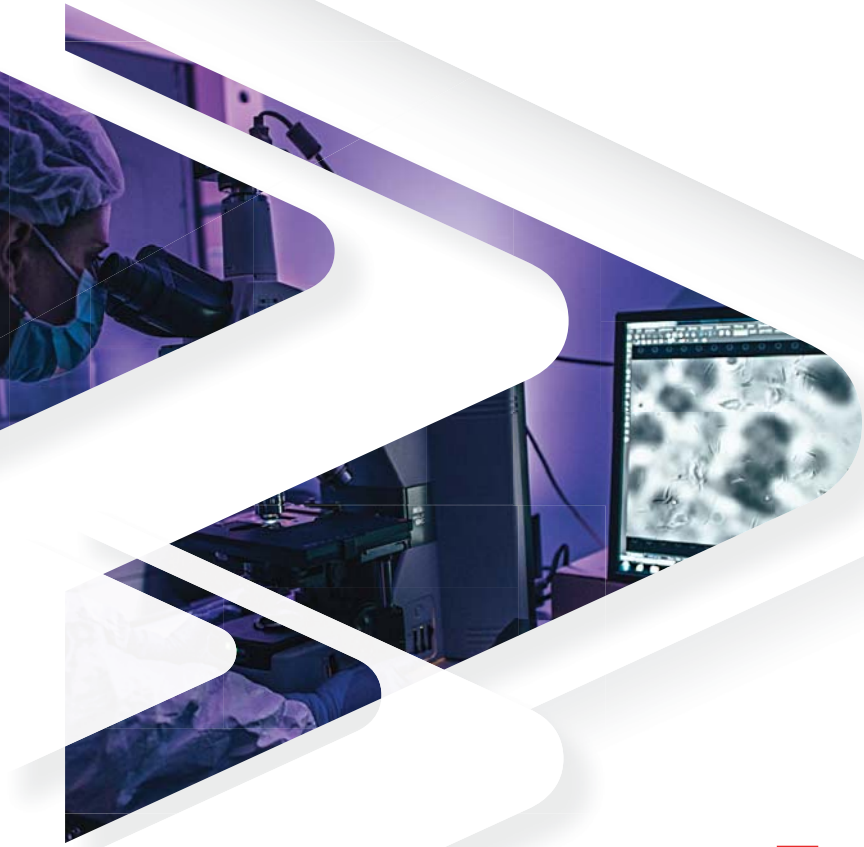

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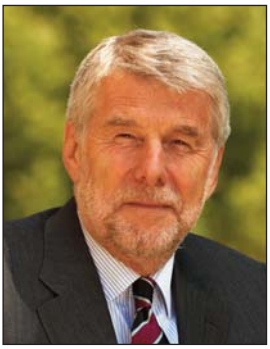
Dear Participants,



It is my honour and pleasure to welcome you to the FENS Regional Meeting in Pécs and at a time when the University of Pécs is celebrating the 650th anniversary of its foundation. I would like to pay tribute to Dóra Reglődi and the organising committee for the outstanding and diverse programme that has been brought to fruition in the superb Kodály Centre. This truly European meeting with symposium speakers and organisers from 18 countries is the 5th FENS Regional Meeting to be organised by one or several of FENS 43 member societies. On behalf of approximately 23,000 scientist members, FENS promotes the excellence of European neuroscience, trains the next generation of researchers through its schools programme and advocates for the funding of neuroscience research across Europe. It is therefore not a coincidence that FENS features several events within the Pécs meeting ranging from supporting women in neuroscience (together with SfN), the 'best publication award', celebrated by the FENS journal EJN, advocating for the use of animals in research and discussing the challenges of the 'brain drain' in a forum organised by scholars of the FENS-Kavli Network of Excellence. I hope you have a wonderful meeting, are enriched by the world-leading neuroscience on show, network with colleagues – and also plan to attend the 20th Anniversary FENS Forum in Berlin in 2018.

Sincerely,

Barry Everitt
President of FENS

Dear Participants,

On behalf of the Hungarian Neuroscience Society and the Centre for Neuroscience, University of Pécs, I would like to welcome all delegates to the FENS Regional Meeting of Pécs.

Regional Meetings are supported by FENS biannually, alternating with the FENS Forum. This is the 5th Regional Meeting hosted by the University of Pécs, which celebrates the 650th anniversary of its founding. The Local Organizing Committee thanks all symposium organizers for submitting excellent proposals and for their effort to bring excellent neuroscientists to make the meeting successful. We have selected symposia based on their scientific excellence and their diversity. The Meeting covers all fields of neuroscience, from invertebrate neuroscience to behavioral and systems neuroscience. In addition to the plenary talks and main symposia, more than 500 posters will be presented. Furthermore, several satellite and special events ensure that all participants find their sessions of interest. For students, special events will also take place, such as "Meet the Nobel Prize Winner", "Meet the Brain Prize Winner", Publication Workshop and "Touch the Brain Activity". Several art exhibitions and programs for the general public will accompany the meeting. We hope that during the main meeting and the social programs inspiring scientific discussions, meeting with friends and making new contacts will take place.

It is our honor to host this meeting and we wish all the 800 delegates from 44 countries a wonderful stay in Pécs.

Sincerely,

Dóra Reglődi
President of the Hungarian Neuroscience Society
Chair of the Local Organizing Committee

Distinguished Guests, Ladies and Gentlemen,

As mayor of Pécs on behalf of the citizens of this city I am honoured to welcome you on the occasion of the greatest event of this kind this year here.

My belief is that the regional international meeting of the Federation of European Neuroscience Societies of every two years is such a highly prestigious conference that calls the attention of the entire professional world in medical and research society.

The conclusions of this forum might turn to be everyday factors in our lives. New research methods, advanced procurements in patient care will probably be highlighted during the discussions that later might be generally introduced worldwide.

I am highly honoured and deeply privileged that the best specialists, acknowledged and appreciated experts encounter in this city for brainstorming in this scientific area.

Pécs is offering you its state-of-the-art facilities and infrastructure, its warm hospitality combined with colourful cultural programs so that to provide you with an excellent professional and leisure time while in Pécs.

I am wishing you constructive, beneficial debates and an enjoyable time in our city.

Sincerely,

Zsolt Páva
Mayor
City of Pécs

Dear Participants,

I am honoured to greet you on behalf of the University of Pécs, Hungary's first university. This year, in 2017, our institution celebrates the 650th anniversary of the foundation of the first higher education institution in our country in 1367. As part of the jubilee year we hold a number of high-level scientific and cultural events. My message for you is: enjoy the conference and Pécs to the fullest, then, come back to us and explore more of Hungarian culture, as well as the ways and means of collaborating with the University of Pécs. 2017 offers another good opportunity for that.

I wish you a good conference and a memorable stay in Pécs!

Thank you.

Sincerely,

József Bódis
Rector
University of Pécs

MEMBERS OF THE SCIENTIFIC COMMITTEE:

Dóra Reglődi (chair)
Department of Anatomy, University of Pécs
President of the Hungarian Neuroscience Society

LOCAL ORGANIZING COMMITTEE:

Members of the University of Pécs Centre for Neuroscience (UPCN, http://ic.pte.hu) at the Szentágothai Research Centre in Pécs, that includes altogether 22 local neuroscience research groups and around 150 neuroscientists.

István Ábrahám
Institute of Physiology
President of UPCN
(also member of the Program Committee)

Róbert Gábriel
Department of Experimental Zoology and Neurobiology
(also member of the Program Committee)

Hajnalka Ábrahám
Department of Medical Biology

Boldizsár Czéh
Department of Laboratory Medicine

Zsuzsanna Helyes
Department of Pharmacology
and Pharmacotherapy

István Hernádi
Department of Experimental
Zoology and Neurobiology

Andrea Tamás
Department of Anatomy

PROGRAM COMMITTEE:

Gábor Tamás (chair)
Department of Physiology
University of Szeged, Hungary

Zoltán Nusser
Institute of Experimental Medicine of the
Hungarian Academy of Sciences
Past President of the Hungarian
Neuroscience Society

Tamás Freund
Past President of the Hungarian Neuroscience Society,
Past President of FENS, Honorary President of the Conference,
Director of the Institute of Experimental Medicine
of the Hungarian Academy of Sciences

Rui M. Costa
Programme Committee Chair of the FENS Forum

GENERAL INFORMATION

Official language of the conference

English

Clothing

During the entire meeting, attire will be casual and informal.

Conference venue

Kodály Centre (4 Marcell Breuer promenade, Pécs)
46.075659, 18.244441

Kodály Centre is the result of one of the most important and most spectacular investments of Pécs 2010 European Capital of Culture project. After its opening on the 16th December 2010, the concert hall almost immediately became one of the best and increasingly recognized music and conference venues of Hungary and Central Europe.

Parking (Free)

Around the Kodály Centre there are

- 111 parking lots (38 in front of and 73 behind the building)
- 4 further parking lots were established for people with disabilities as close to the entrance as possible.

How to find it

Kodály Centre might be approached by local buses 2, 2/A, 20, 20/A, 21, 31, 43 or 60. Get off at the Balokány-liget bus stop.
For more information visit: http://mobilitas.biokom.hu/menetrend

Taxi

In Hungary it is not customary to wave down the moving taxis. You may call a taxi per phone or find them at TAXI stops in the downtown area.
Euro 7 Taxi • +36 72 777 777 • www.euro7taxi.hu
Volán Taxi • +36 72 333 333, +36 30 9 333 333 • www.volantaxi.hu

Registration and information desk

Opening hours:

Wednesday 20th September:	12:00–18:00
Thursday 21st September:	08:00–19:00
Friday 22nd September:	08:00–18:30
Saturday 23rd September:	08:00–17:00

Liability and insurance

The Congress Secretariat and Organizers cannot accept responsibility whatsoever for injury or damage involving persons and property either during or indirectly arising from the meeting. Participants are advised to make their own arrangements with respect to health and travel insurance.

The Congress Secretariat and Organizers reserve the right to make changes in the scientific program due to circumstances that are beyond his control – in the case of any changes, the current version of the program will be available on the following website: fensfrm.hu

Coffee breaks

Coffee breaks include free coffee, snacks and a daily ice cream ticket. Please, see the map for exact locations of the coffee bars.

During the morning coffee breaks we invite you to taste some of the region's most special flavors, snacks and drinks.

Please note that out of the five coffee bars two function as cafeterias as well where you can buy additional snacks, sandwiches and beverages.

Thursday 21st September:	10:00–11:00 and 17:30–18:00
Friday 22nd September:	09:30–10:30 and 17:00–17:30
Saturday 23rd September:	09:30–10:00 and 15:30–16:00

Lunch breaks

Prepaid lunch bags can be picked up onsite. Tickets are included in the registration package.

Prepaid buffet lunch is served at ROOM Bistro (approx. 7 minutes walking distance from the Kodály Centre – please see the map for directions) during the lunch breaks. Tickets are included in the registration package.

Thursday 21st September:	13:00–15:30
Friday 22nd September:	12:30–15:00
Saturday 23rd September:	12:00–13:30

Exhibitors

Collect 10 exhibitor signatures from the stands until 10:00 Saturday 23rd to receive valuable gifts offered by our distinguished sponsors! Gifts will be awarded at the closing ceremony, after last plenary (details can be found in the registration packages). Please see the exhibition area on the map.

Exhibition opening hours:

Thursday 21st September:	08:00–19:00
Friday 22nd September:	08:00–18:30
Saturday 23rd September:	08:00–16:00

Poster information

The abstracts are available online on the conference website – if the author has previously agreed.

Location of the poster sessions: 1st and 2nd floor corridor

Dates of the poster sessions:

Poster session I. – Thursday 21st September 10:00–11:00

Set-up:	2017.09.21. 08:00–10:00
Removal:	2017.09.21. 11:00–13:00

Poster session II. – Thursday 21st September 14.30–15.30

Set-up:	2017.09.21. 13:00–14:30
Removal:	2017.09.21. 15:30–17:30

Poster session III. – Friday 22nd September 09:30–10:30

Set-up:	2017.09.22. 08:00–09:30
Removal:	2017.09.22. 10:30–12:30

Poster session IV. – Friday 22nd September 14:00–15:00

Set-up:	2017.09.22. 12:30–14:00
Removal:	2017.09.22. 15:00–17:30

Poster session V. – Saturday 23rd September 12:30–13:30

Set-up:	2017.09.23. 10:00–12:30
Removal:	2017.09.23. 13:30–15:00

- At a definite hour stated in the program authors will have the opportunity to present their research.
- Please find your board number by locating your abstract in the end of the program booklet.
- Tools for the poster installation are provided by the organizers.
- It is prohibited to take pictures, video or sound-recording of the posters.
- You can find the detailed schedule at the end of the booklet.
- Please note that there will be no jury reviewing the posters.

We encourage every poster presenter – for the purpose of most effective use of time – to set up your posters at the beginning of the set-up time and remove at the end of the removal time.

Internet and charging area

We provide free wireless internet access for the participants. To access please use:

SSID : PKK_Wifi
Password: guest

There is a charging station provided by Vodafone Hungary located next to the main buffet for all participants to charge their electronic devices.

Lanyard and badge information

Please make your lanyards and identification badges visible at all times during the meeting. You can use the coffee bars by showing your badges and it helps our staff to identify you easily and you can also identify other participants with less effort.

- Participant
- Speaker
- Accompanying guest
- Exhibitor
- Organizer
- VIP

Addresses of other locations

Szentágothai Research Centre
20 Ifjúság street, Pécs
46.075678, 18.203592

Medical School, University of Pécs
12 Szigeti street, Pécs
46.073230, 18.206909

Zsolnay Cultural Quarter
37 Zsolnay Vilmos street, Pécs
46.078495, 18.248644

Knowledge Centre
2/A Universitas street, Pécs
46.074656, 18.242548

Pécs Cathedral
23 Szent István square, Pécs
46.078773, 18.223849

Jammertal Wine Complex
106 Baross Gábor street, Villány
45.864960, 18.447463

N-Eozin Grill Terrace
3 Esze Tamás street, Pécs
46.077551, 18.221891
(Rain location: Eozin Bar
14 Király street, Pécs)

PÉCSI TUDOMÁNYEGYETEM

JUBILEUM 650

UNIVERSITY OF PECS JUBILEE

The University of Pécs, established by King Louis the Great in 1367, celebrates the 650th anniversary of its foundation in 2017. University represents and embraces a great tradition dating back to medieval times, and is actively linked to the task of institutionalizing contemporary knowledge directed both to the present and the future at the same time.

GOALS

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

SCIENCE, INNOVATION AND RESEARCH

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

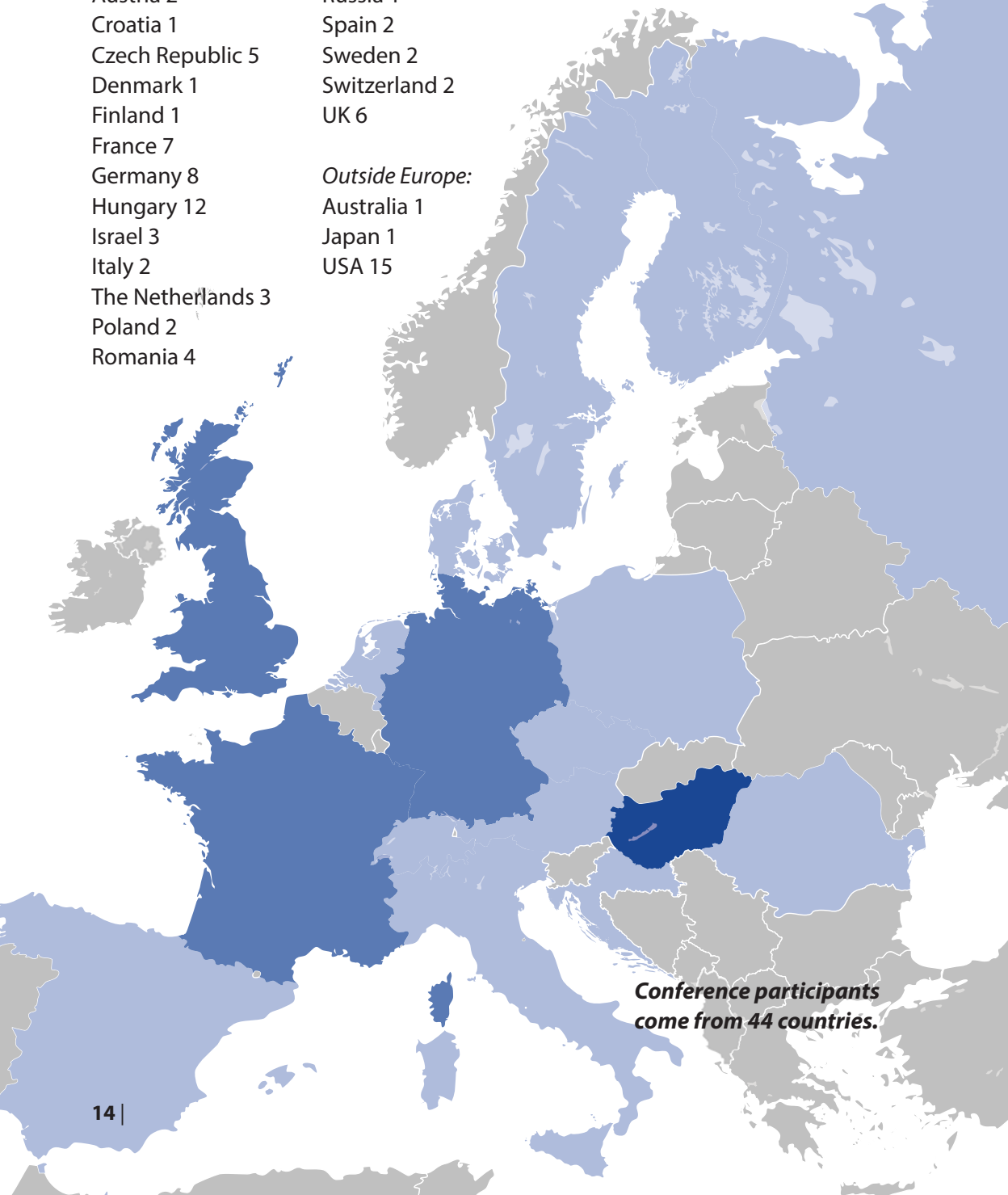
TRAINING AND COURSES

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

Geographic distribution of symposia speakers and organizers

Austria 2
Croatia 1
Czech Republic 5
Denmark 1
Finland 1
France 7
Germany 8
Hungary 12
Israel 3
Italy 2
The Netherlands 3
Poland 2
Romania 4
Russia 1
Spain 2
Sweden 2
Switzerland 2
UK 6

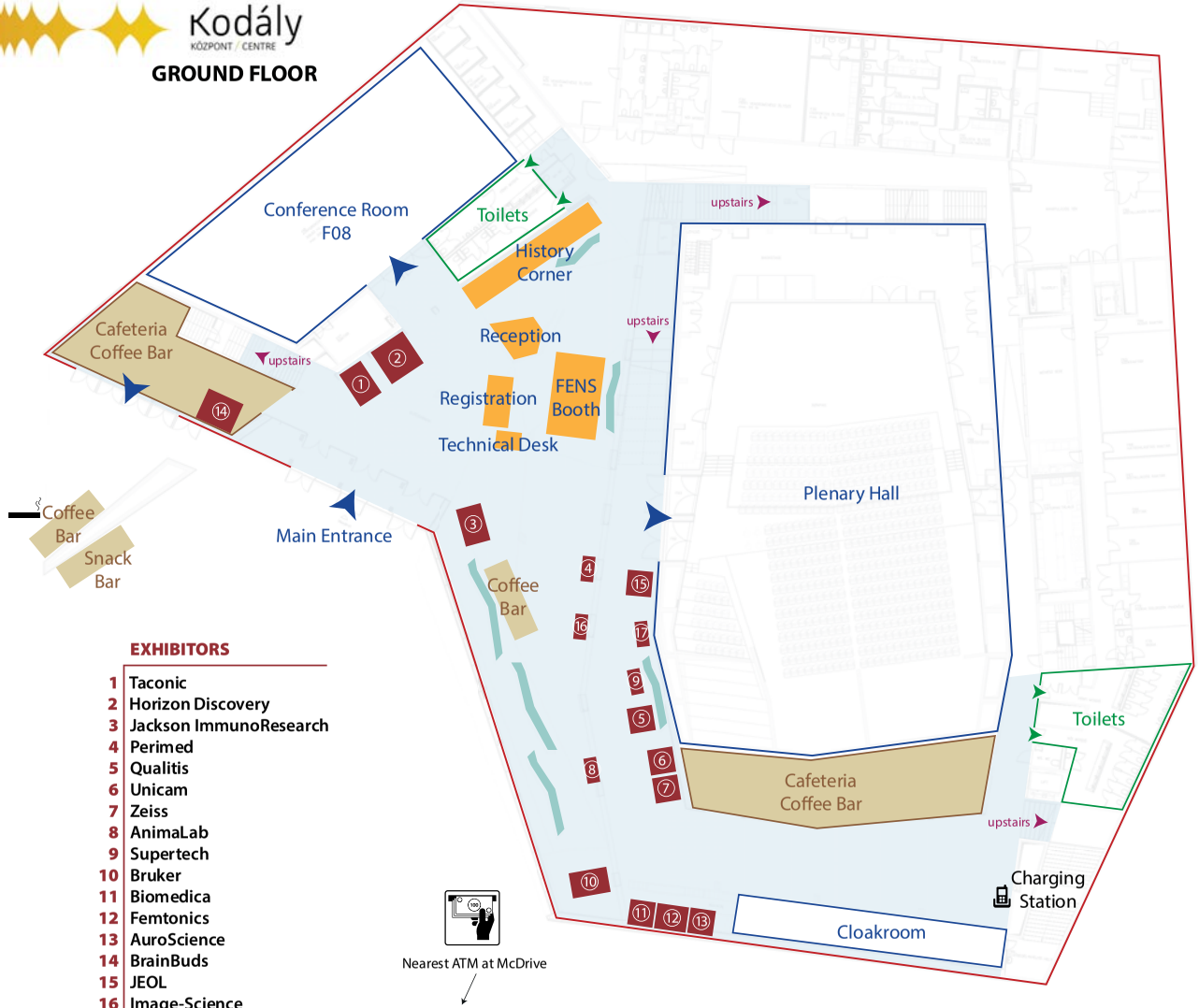
Outside Europe:
Australia 1
Japan 1
USA 15



Conference participants come from 44 countries.

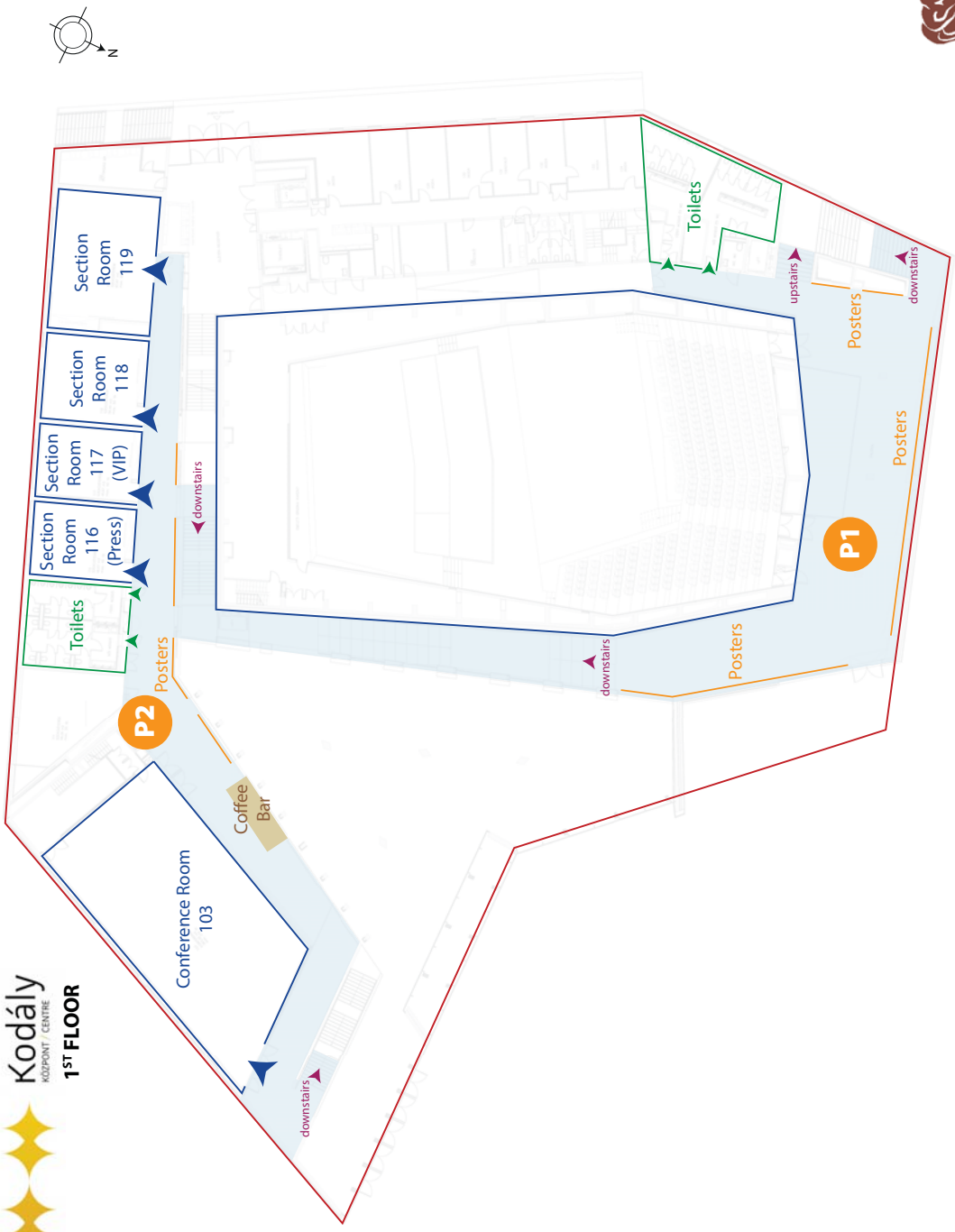
Kodály KÖZPONT / CENTRE

GROUND FLOOR



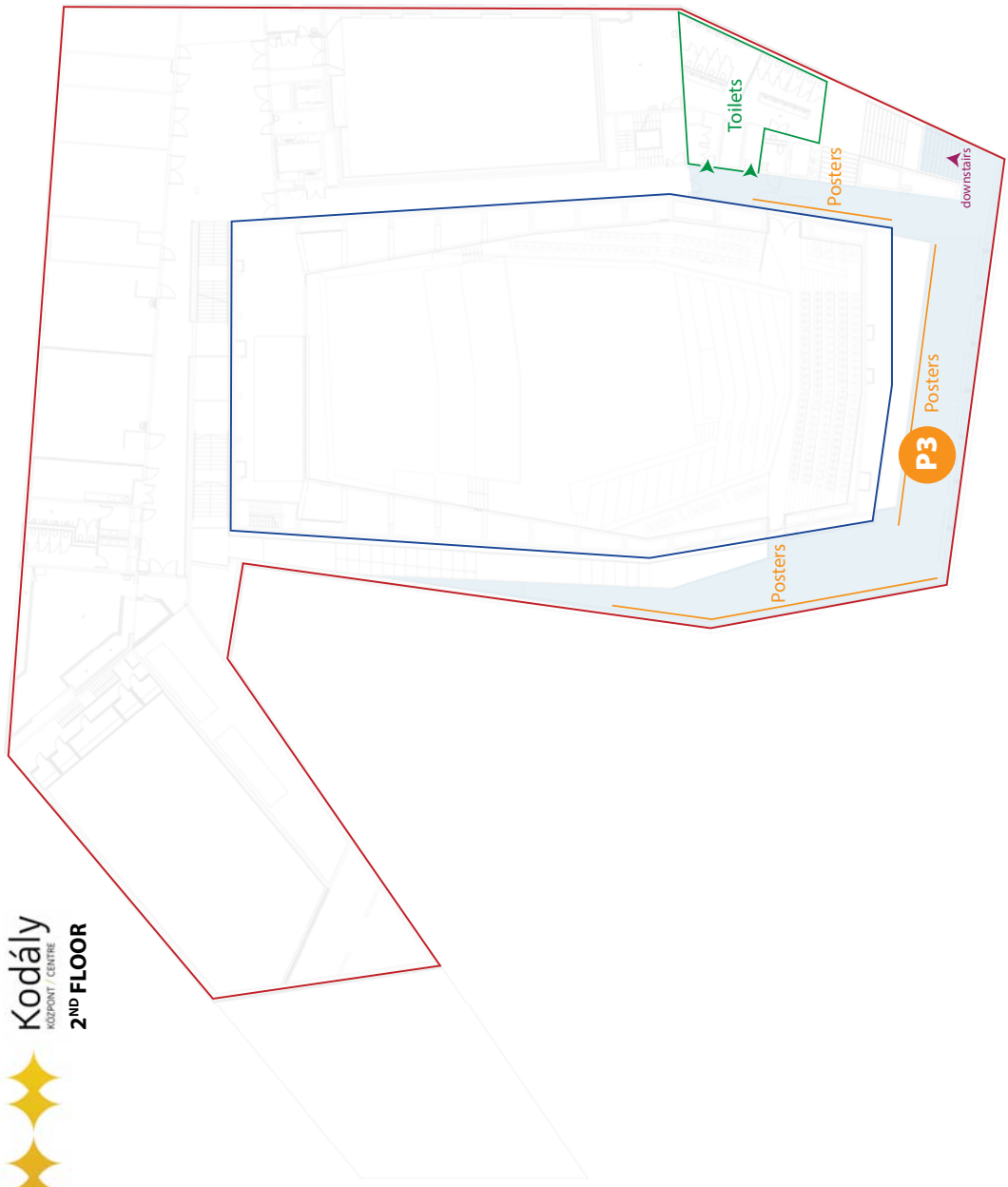
EXHIBITORS

1. Taconic
2. Horizon Discovery
3. Jackson ImmunoResearch
4. Perimed
5. Qualitis
6. Unicam
7. Zeiss
8. AnimaLab
9. Supertech
10. Bruker
11. Biomedica
12. Femtonics
13. AuroScience
14. BrainBuds
15. JEOL
16. Image-Science
17. Behavioral Studies Unit



Kodály KÖZPONT / CENTRE

1ST FLOOR


Kodály
KÖZPONT / CENTRE
2ND FLOOR
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Toilets
Posters
Posters
Posters
P3
downstairs

PROGRAM OUTLINE

Tuesday 19th September

Time \ Room	Medical School	Szentágothai Research Centre	
06:30			
07:00			
07:30			
08:00			
08:30			
09:00	*Edges of Neuro-sciences*		*Hundoc 2017 – 2nd Hungarian Neuroscience Meeting for undergraduate students, graduate students and junior post-docs*
09:30			
10:00			
10:30			
11:00			
11:30			
12:00			
12:30			
13:00			
13:30			
14:00		*Neuroscience in the XXI Century – PTE 650 Anniversary*	
14:30			
15:00			
15:30			
16:00			
16:30			
17:00			
17:30			
18:00			
18:30			
19:00			
19:30			
20:00			
20:30			
21:00			
21:30			
22:00			

Wednesday 20th September

Time	Plenary Hall	Aula	Szentágothai Research Centre	Other Location	
06:30					
07:00					
07:30					
08:00				*Neurart Exhibition (Koddly Centre)*	
08:30			*Advanced techniques in neuroimaging: from molecules to whole-brain network*		
09:00					
09:30					
10:00					
10:30					
11:00					
11:30					
12:00		*Registration*			*Borderline Exhibition (Knowledge C.)*
12:30					
13:00					
13:30			*Neuroscience in the XXI Century – PTE 650 Anniversary*	*Touch the Brain (Medical School)*	
14:00					
14:30					
15:00					
15:30					
16:00				*Touch the Brain (Medical School)*	
16:30					
17:00			*Wolfram Schultz*		
17:30					
18:00					
18:30					
19:00	*Welcome reception*				
19:30					
20:00					
20:30					
21:00					
21:30					
22:00					

Colour codes: plenary lecture · symposia · satellite event · special event · social program · exhibition

Thursday 21st September

Time \ Room	Plenary Hall	Conference Room F08	Conference Room 103	Aula	Section Room 118	Section Room 119	Other Location
06:30							Touch the Brain (Medical School)
07:00							
07:30							
08:00							Neurart Exhibition (Kodály Centre) / Borderline Exhibition (Knowledge C.)
08:30							
09:00	Thomas Südhof						
09:30							
10:00				Coffee			Poster Session I. (1st and 2nd floors)
10:30							
11:00	Wired to be human: unique features of brain development	Cognitive control and cognitive flexibility: from behavioral, systems and neuronal mechanisms to clinical implications	Binocular perception and its disorders				
11:30							
12:00							
12:30							
13:00	Invertebrate models in studying neuronal effects of environmental stimuli (Satellite Symposium by ISIN)		EJN Best Publication Award 2017 Winner lecture	Lunch break		Resources to increase women in neuroscience: addressing implicit bias	
13:30		Meet the Brain Prize Winner					
14:00							
14:30		Meet the Nobel Prize Winner					Poster Session II. (1st and 2nd floors)
15:00							
15:30	Network imaging in behaving animals – developing picture	Neurobiology of social behavior	Invertebrate neurobiology: how evolution shapes neuronal circuits				
16:00							
16:30							
17:00							
17:30				Coffee			
18:00	István Mödy						
18:30							
19:00		HNS – General Assembly					
19:30							
20:00							Organ concert (Cathedral)
20:30							
21:00							Night sightseeing tour
21:30							
22:00							

Friday 22nd September

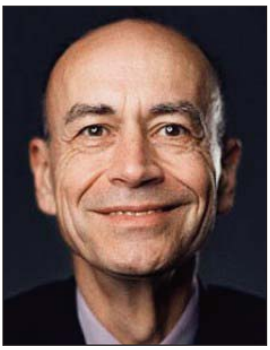
Time \ Room	Plenary Hall	Conference Room F08	Conference Room 103	Aula	Section Room 118	Section Room 119	Other Location
06:30							Touch the Brain (Medical School)
07:00							
07:30							
08:00							Neurart Exhibition (Kodály Centre); Borderline Neuro-science Exhibition (Knowledge C.)
08:30	Attila Losonczy						
09:00							
09:30				Coffee			Poster Session III. (1st and 2nd floors)
10:00							
10:30	The impact of brain states and neuromodulation: from neuronal networks to behavior	Novel molecular rules shaping the developing nervous system: reopening differentiation programs for therapeutic benefit	Recent advances in noci-ceptive signalling: focus on temperature-, acid-, and light-induced pain				
11:00							
11:30							
12:00							
12:30	Stephen W. Kuffler Foundation – Award Ceremony	The history of neuro-science in Central and Eastern Europe during and after communism	Tune up your skills	Lunch break			
13:00							
13:30							
14:00							Poster Session IV. (1st and 2nd floors)
14:30							
15:00	Multidisciplinary approaches to study the genetic basis of neurodevelopmental and neurodegenerative diseases	Human-specific cortical microcircuit function and structure	Imaging the brain and cerebrospinal fluid at a single-molecule level				
15:30							
16:00							
16:30							
17:00				Coffee			
17:30	Hannah Monyer						
18:00							
18:30		Brain Drain in Eastern Europe	Communicating current issues of animal research: How should we open the magic box?				
19:00							
19:30							
20:00							Trip to Villány (Jammertal Wine Complex); Pálinka tasting (N-Eozin Grill Terrace)
20:30							
21:00							
21:30							
22:00							

Saturday 23rd September

Time \ Room	Plenary Hall	Conference Room F08	Conference Room 103	Aula	Section Room 118	Section Room 119	Other Location
06:30							Touch the Brain (Medical School)
07:00							
07:30							
08:00							Neurart Exhibition (Kodály Centre) / Borderline Exhibition (Knowledge C.)
08:30	Anders Björklund						
09:00							
09:30				Coffee			
10:00	Recent advances in under-standing of individual differences in stress resilience and vulnerability	Distributed neural circuits controlling fear state and realted learning	Synaptic cytoskeletal dysfunction: a common mechanism in dev-elopmental neuropathies				Touch the Brain (Medical School)
10:30							
11:00							
11:30							
12:00			Publishing Workshop	Lunch break	New developments in bio and cryo electron microscopy	Parkinson's disease: 200 yrs and beyond	
12:30		Writing and reading hippocampal memory traces					Poster Session V. (1st and 2nd floors)
13:00							
13:30	Dopamine d2 receptor supersensitivity as a spectrum of neurotoxicity and status in psychiatric disorders	Retinal neurochemistry and information processing	Excitotoxicity in brain ischemia and epilepsy – a translational perspective				
14:00							
14:30							
15:00							Touch the Brain (Medical School)
15:30				Coffee			
16:00	Akihiro Kusumi						
16:30							
17:00	Closing Event						
17:30							
18:00							
18:30							
19:00							
19:30							
20:00							Gala Dinner (Zsolnay Cultural Quarter – M21 Gallery)
20:30							
21:00							
21:30							
22:00							

Thomas Südhof

Stanford University, Howard Hughes Medical Institute, USA



"Towards a molecular logic of neural circuits"

Thursday 21st September
09:00–10:00
Plenary Hall
Chair: Zoltán Nusser

Other events:

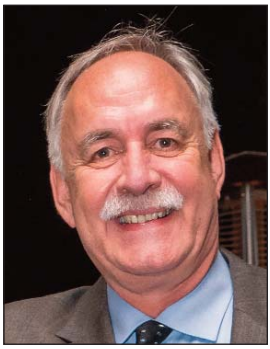
"Meet the Nobel Prize Winner"
Thursday 21st September
14:30–15:30
Conference Room F08

Stephen W. Kuffler Foundation – Award Ceremony
Friday 22nd September
12:30–14:00
Plenary Hall

Thomas C. Südhof is a German American neuroscientist who discovered key molecular components and mechanisms that form the basis of chemical signaling in neurons. His findings helped scientists to better understand the cellular mechanisms underlying neurological conditions such as autism, schizophrenia, and Alzheimer's disease. For his breakthroughs, Südhof was awarded the 2013 Nobel Prize for Physiology or Medicine. In addition to the Nobel Prize, Südhof received the 2010 Kavli Prize in Neuroscience (with Rothman) and the 2013 Albert Lasker Basic Medical Research Award.

Throughout his career much of Südhof's research focused on presynaptic neurons, which release neurotransmitters into the synapse between communicating cells. He elucidated the process by which synaptic vesicles, which are filled with neurotransmitters, fuse with neuronal membranes and undergo exocytosis, in which they release their neurotransmitters into the extracellular environment. He found that specific interactions between proteins, such as between Munc18-1 and SNARE proteins, as well as a molecular complex based on the proteins RIM and Munc13, are required for synaptic vesicle fusion.

István Mády
UCLA, Brain Research Institute, USA



"Interneurons in Alzheimer's disease"

Thursday 21st September
18:00–19:00
Plenary Hall
Chair: Tamás Freund

István Mády, Ph.D. is the Tony Coelho Distinguished Professor of Neurology and Distinguished Professor of Physiology at the David Geffen School of Medicine at UCLA, and he also holds a part-time W3 Professorship in the Department of Epileptology, of the Bonn University Medical Center. He is a foreign member of the Hungarian Academy of Sciences and the recipient of numerous international awards, including the Michael Prize for Epilepsy, the American Epilepsy Society's Basic Scientist Award, the Hauptmann Prize, among others.

Over the years, GABAergic inhibition in the brain has become the principal research focus of the Mády lab. He made some seminal discoveries in the field of epilepsy research including the demonstration that there are more synaptic GABAA receptors on epileptic neurons, but that the molecular composition of these receptors is different from those found in the non-epileptic brain. More recently, in a publication about the role of tonic inhibition following stroke, he demonstrated that an elevated level of this type of GABAergic tone hinders functional recovery after stroke in a mouse model of the disease.

During the past few years, Prof. Mády's lab has started addressing the hormonal control of neuronal excitability in females. His lab presently is working on alterations of GABAergic inhibition in mouse models of Alzheimer's Disease, and reproductive depression models.

Attila Losonczy
Columbia University Medical Center, USA

"Imaging hippocampal circuits for navigation and memory"

Friday 22nd September
08:30–09:30
Plenary Hall
Chair: Zoltán Nusser

Attila Losonczy received the MD degree from the Medical School, University of Pécs in 1999, and has been a member of the Kavli Institute for Brain Science since 2010. In 2011, Losonczy was named a Searle Scholar. In 2013, he was awarded the NARSAD Young Investigator Award. Losonczy was awarded the BRAIN Initiative Award by the National Institute of Health in two consecutive years, 2014 and 2015.

Attila's research program is aimed at understanding how mammalian cortical circuits mediate learning and formation of declarative memories – our repository of acquired information of people, places, objects and events. His laboratory uses functional imaging, electrophysiology, behavioral analysis, manipulation, and computational modeling to dissect the functional role of hippocampal excitatory, inhibitory and modulatory neural circuits in mnemonic functions. Subsequent work – combining in vivo functional imaging and perturbations of genetically-specified neurons during behavior – has redefined our understanding of hippocampal circuit function. For instance, they characterized the type of information carried by subcortical inputs to the hippocampus at a single synapse-level *(Kaifosh et al., Nature Neuroscience, 2013),* and they dissected the roles of hippocampal inhibitory circuits in navigation and learning *(Lovett-Barron et al., Science, 2014, Lee et al. Neuron, 2014; Basu et al., Science 2016).*

Hannah Monyer
University of Heidelberg, Germany

"Short- and long-range inhibitory neurons governing spatial representation and memory"

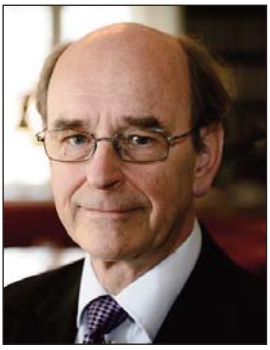
Friday 22nd September
17:30–18:30
Plenary Hall
Chair: Gábor Tamás

Hannah Monyer studied Medicine at the University of Heidelberg and obtained her MD degree in 1982. 1983–1986 she worked as a resident at the Dept. of Child Psychiatry of the University of Mannheim and at the Dept. of Pediatric Neurology at the University of Lübeck. She started her scientific career as a neurobiologist with Prof. Barry Tharp and Prof. Dennis Choi at Stanford University, California. In 1989 she returned to Heidelberg for a second postdoctoral period at the ZMBH with Prof. Peter Seeburg. She habilitated in Biochemistry in 1993. Since 1994 she has been an independent group leader, first as a junior professor and since 1999 heading the Department Clinical Neurobiology at Heidelberg University Hospital.

In 2004 she was awarded the Leibniz Prize of the DFG. In 2009 she was appointed W3 Helmholtz Professor at the German Cancer Research Center (DKFZ) Heidelberg. Her research group "Clinical Neurobiology" is a cooperational division of the Medical Faculty of the University and the DKFZ Heidelberg. Hannah Monyer's major scientific interests focus on mechanisms related to learning and memory. Her projects include investigations on the role of glutamate receptors in synaptic plasticity, the function of GABAergic interneurons underlying synchronous activity and memory and finally, the contribution of postnatally generated neurons for brain plasticity.

Anders Björklund

Neuroscience Center, University of Lund, Sweden



"Use of embryonic stem cells for dopamine cell replacement in Parkinson´s disease"

Saturday 23rd September
08:30–09:30
Plenary Hall
Chair : Róbert Gábriel

Anders Björklund applied and was invited to join the medical school at the University of Lund, where he would stay for his entire career. Although to this day, Björklund remains interested in finding successful techniques for transplanting dopaminergic cells into Parkinson patients, he believes that there is promise for finding completely new – and perhaps more successful – therapies by investigating the usefulness of neurotrophic factors and better understanding the underlying cause of Parkinson disease.

His research has been concerned with reparative and neuroprotective mechanisms in the CNS using cell replacement and gene transfer techniques. His group was early in the study of neural tissue transplants, and in the 1970's they pioneered the development of methods for cell transplantation to the mammalian brain and spinal cord. Their most important contributions during this dynamic period included studies on the survival, integration and functional connectivity of fetal neuroblasts grafted to the CNS of adult rats, functional cell replacement in rodent models of Parkinson's disease and Huntington's disease, and in animal models of hippocampal damage and cognitive decline.

They have been one of the leading groups in the exploration of GDNF and its neuroprotective and regenerative properties in the nigro-striatal dopamine system and in the forefront of research aimed at developing recombinant AAV and lentiviral vectors for neuroprotective and restorative therapy in patients with Parkinson´s disease.

Akihiro Kusumi
Kyoto University, Japany University, Japan

"Single-molecule view of the plasma membrane organization for signal transduction"

Saturday 23rd September
16:00–17:00
Plenary Hall
Chair: István Ábrahám

Akihiro Kusumi has studied in Kyoto, where he returned to work in 2005. He proposed an explanation for reduced diffusion speed of lipid and protein molecules in the cell membrane, based on a model of hop diffusion in which lipids are confined to a reduced space, created by a membrane-skeleton-induced compartments. These compartments allow the lipids or proteins freely in a limited region and limiting also the diffusion to other parts of the membrane. Getting to a new compartment is called "hop diffusion" while diffusion in the compartment is allowed by Brownian movement, the compartments of the cell are responsible of the reduced diffusion speed of the lipid or proteins when compared to artificial vesicles.

His love of biological membranes, particularly in the neuronal network, was accidentally initiated when he, a senior majoring in physics at that time, entered a wrong lecture room where Prof. Shun-ichi Ohnishi of Kyoto University happened to be lecturing about the Singer-Nicolson's fluid mosaic model in his membrane course in 1974. Prof. Ohnishi became his PhD advisor, with whom he studied the rotational diffusion of rhodopsin in reconstituted membranes. He did his first postdoc with Prof. Jim Hyde of the Medical College of Wisconsin, who is responsible for his experimental physics (nonlinear EPR of membranes, 1980-2). He did his second postdoc with Prof. Malcolm Steinberg (Princeton University, 1982-4), who is responsible for his cellular and developmental biology.

11th FENS Forum of Neuroscience

7-11 July 2018 | Berlin, Germany

Organised by the Federation of European Neuroscience Societies (FENS)
Hosted by The German Neuroscience Society

FENS Forum 2018 has an exciting scientific programme, together with the 'Bridging Knowledge Session', special interest events, satellite events, networking events, business meetings and much more.

List of themes: Development • Excitability, synaptic transmission, network functions • Disorders of the nervous system • Sensory and motor systemss • Sleep, autonomic and neuroendocrine systems • Cognition and behaviour • Computational neuroscience • Novel Methods and Technology Development.

KEY DATES

1 July 2017: Preliminary scientific programme online
1 Dec 2017 – 13 Feb 2018: Early registration and abstract submission
1 Dec 2017 – 13 Feb 2018: FENS-IBRO/PERC travel grants applications

FENS Federation of European Neurosciences Societies

Neurowissenschaftliche Gesellschaft

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1. WIRED TO BE HUMAN: UNIQUE FEATURES OF BRAIN DEVELOPMENT

Thursday 21st September
11:00–13:00
Plenary Hall

ORGANIZER

Ivica Kostovic (chair)
University of Zagreb School of Medicine, Croatia

SPEAKERS

11:00–11:30 **Pasko Rakic** (co-chair)
Yale University School of Medicine, New Haven, USA
"Proliferative and migratory neurogenetic processes leading to formation of large primate and human brain"

11:30–12:00 **Monique Esclapez**
Institut de Neurosciences des Systèmes
Aix-Marseille Université, France
"Development of interneurons as key players of short and local circuitry in the human brain"

12:00–12:30 **Zoltán Molnár**
University of Oxford, UK
"Development of neuronal diversity and molecular mechanisms in formation of complex cortical connectivity"

12:30–13:00 **Ivica Kostovic**
University of Zagreb School of Medicine, Croatia
"Wiring and compartmentalization specific for the human fetal brain"

2. COGNITIVE CONTROL AND COGNITIVE FLEXIBILITY: FROM BEHAVIORAL, SYSTEMS AND NEURONAL MECHANISMS TO CLINICAL IMPLICATIONS

Thursday 21st September
11:00–13:00
Conference Room F08

ORGANIZER

Aleš Stuchlik (chair)
Institute of Physiology Czech Academy of Sciences, Prague, Czech Republic

SPEAKERS

11:00–11:24 **Eduard Kelemen**
National Institute of Mental Health, Klecany, Czech Republic
„Organizing distinct streams of information in activity of hippocampal cell assemblies"

11:24–11:48 **Malgorzata Wesierska**
Nencki Institute of Experimental Biology, Warsaw, Poland
„The role of the retrosplenial cortex and hippocampus in navigation in dynamic environments"

11:48–12:12 **André Fenton**
Neurobiology of Cognition Laboratory, Center for Neural Science, New York University, USA
„The microstructure of cognition-associated neural coordination and its discoordination in Fragile X mutant mice"

12:12–12:36 **Aleš Stuchlik**
Institute of Physiology Czech Academy of Sciences, Prague, Czech Republic
„Spatial memory and cognitive control and flexibility deficits in animal models of schizophrenia and obsessive-compulsive disorder"

12:36–13:00 **Iveta Fajnerová** (co-chair)
National Institute of Mental Health, Klecany, Czech Republic
„Impaired spatial cognition in first episode schizophrenia patients compared to matched healthy controls in virtual reality tests based on validated animal tasks"

3. BINOCULAR PERCEPTION AND ITS DISORDERS

Thursday 21st September
11:00–13:00
Conference Room 103

ORGANIZERS

Péter Buzás (chair)
Department of Physiology
Medical School, University of Pécs, Hungary

Gábor Jandó (co-chair)
Department of Physiology
Medical School, University of Pécs, Hungary

SPEAKERS

11:00–11:30 **Andrew J Parker**
Department of Physiology, Anatomy and Genetics
University of Oxford, UK
"Searching for sites and neural correlates of cyclopean perception"

11:30–12:00 **Ilona Kovács**
Institute of Psychology, Faculty of Humanities and Social Sciences
Pázmány Péter Catholic University, Budapest, Hungary
"The role of experience in the development of binocular vision in infants"

12:00–12:30 **Frank Sengpiel**
Neuroscience Division, School of Biosciences
Cardiff University, UK
"Effects of dark exposure on visual cortex plasticity"

12:30–13:00 **David P Piñero**
Department of Optics, Pharmacology and Anatomy
University of Alicante, Spain
"Visual rehabilitation in adult amblyopia using perceptual training"

4. NETWORK IMAGING IN BEHAVING ANIMALS – DEVELOPING PICTURE

Thursday 21st September
15:30–17:30
Plenary Hall

ORGANIZER

Balázs Rózsa (chair)
Laboratory of Neural Circuits and Computation, Institute of Experimental Medicine of Hungarian Academy of Sciences, Pázmány Péter University, Budapest, Hungary

SPEAKERS

15:30–15:54 **Dániel Hillier**
Friedrich Miescher Institute, Basel, Switzerland
"Causal evidence for retina dependent and independent visual motion computation in mouse cortex"

15:54–16:18 **Jackie Schiller**
Technion-Israel Institute of Technology, Haifa, Israel
"Neural circuits underlying operant learning in larval zebrafish"

16:18–16:42 **Paolo Medini**
Department of Integrative Medical Biology, Umeå University, Umeå, Sweden
"Dendritic and network mechanisms of multisensory integration in neocrotical circuits"

16:42–17:06 **Frederic Gambino**
French National Center for Scientific Research (CNRS), University of Bordeaux, Bordeaux, France
"Dendritic coding of associative learning in the prefrontal cortex of behaving mice"

17:06–17:30 **Balázs Rózsa**
Laboratory of Neural Circuits and Computation, Institute of Experimental Medicine of Hungarian Academy of Sciences, Pázmány Péter University, Budapest, Hungary
"Fast 3D imaging of neuronal and dendritic assemblies in the visual cortex to understand neuronal computation in behaving animals"

5. NEUROBIOLOGY OF SOCIAL BEHAVIOR

Thursday 21st September
15:30–17:30
Conference Room F08

ORGANIZER

Árpád Dobolyi (chair)
Hungarian Academy of Sciences, Budapest, Hungary

SPEAKERS

15:30–16:00 **Larry J. Young**
Emory University, USA
"Neurobiology underlying diversity in social behavior: Implications for autism"

16:00–16:30 **Inga D. Neumann**
University of Regensburg, Germany
"Neuropeptide actions on socio-emotional behaviour in health and psychopathology"

16:30–17:00 **Dóra Zelena**
Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest, Hungary
"Vasopressin as a social hormone: lessons from the first but still up-to-date mutant rodent model, the Brattleboro rat"

17:00–17:30 **Árpád Dobolyi**
MTA-ELTE NAP B Laboratory of Molecular and Systems Neurobiology, Hungarian Academy of Sciences, Budapest, Hungary
"A systems biological approach to understand parental behaviour"

6. INVERTEBRATE NEUROBIOLOGY: HOW EVOLUTION SHAPES NEURONAL CIRCUITS

Thursday 21st September
15:30–17:30
Conference Room 103

ORGANIZERS

Hans-Joachim Pflüger (chair)
Institute of Biology/Neurobiology, Freie Universität Berlin, Germany

SPEAKERS

15:30–16:00 **Hans-Joachim Pflüger**
Institute of Biology/Neurobiology, Freie Universität Berlin, Germany
"Biogenic amines: orchestrators of behaviour"

16:00–16:30 **Ildiko Kemenes and George Kemenes** (co-chair)
School of Life Sciences, University of Sussex, Brighton, UK
"Mechanisms of learning and memory in the pond snail"

16:30–17:00 **Fred Libersat**
Department of Life Sciences, Ben Gurion University, Beer Sheva, Israel
"The manipulation of cockroach behaviour by a wasp reveals insights into mechanisms of motivation and decision"

17:00–17:30 **Graziano Fiorito and Giovanna Ponte**
Stazione Zoologica Anton Dohrn, Villa Communale, Naples, Italy
"The Octopus brain: cognition in an invertebrate"

7. THE IMPACT OF BRAIN STATES AND NEUROMODULATION: FROM NEURONAL NETWORKS TO BEHAVIOR

Friday 22nd September
10:30–12:30
Plenary Hall

ORGANIZERS

Balázs Hangya (co-chair)
Institute of Experimental Medicine, Budapest, Hungary

Magor L. Lőrincz (co-chair)
University of Szeged, Hungary

SPEAKERS

10:30–10:54 **Sebastien Bouret**
Team Motivation Brain & Behavior ICM, Paris, France
"The role of noradrenaline and dopamine in the effort/reward trade off"

10:54–11:18 **Antoine Adamantidis**
Department of Neurology, University of Bern, Switzerland
"Thalamic dual-control mechanism for sleep and wake"

11:18–11:42 **Patricia Gaspar**
Inserm UMR Paris, France
"Dissecting the role of 5-HT in maternal behaviour with genetic tools"

11:42–12:06 **Viktor Varga**
Institute of Experimental Medicine of the Hungarian Academy of Sciences, Budapest, Hungary
"State dependent control of medial septal GABAergic networks by the hippocampus"

12:06–12:30 **Magor L. Lőrincz**
University of Szeged, Hungary
"Rapid, cell type specific control of raphe circuits by the lateral hypothalamus"

8. NOVEL MOLECULAR RULES SHAPING THE DEVELOPING NERVOUS SYSTEM: REOPENING DIFFERENTIATION PROGRAMS FOR THERAPEUTIC BENEFIT

Friday 22nd September
10:30–12:30
Conference Room F08

ORGANIZERS

Tibor Harkány (chair)
Medical University of Vienna, Austria / Karolinska Institutet, Stockholm, Sweden

Alán Alpár (co-chair)
National Brain Research Program of Hungary, Hungarian Academy of Sciences
Semmelweis University, Budapest, Hungary

SPEAKERS

10:30–10:50 **Igor Adameyko**
Medical University of Vienna, Austria / Karolinska Institutet, Stockholm, Sweden
"Nerve-guided Schwann cells build the parasympathetic nervous system"

10:50–11:10 **Alfonso Represa**
Mediterranean Institute of Neurobiology, INSERM, Aix-Marseille University, France
"Development of the neocortex and molecular mechanisms that underlie cortical network development & function in health and disease"

11:10–11:30 **Alán Alpár**
National Brain Research Program of Hungary, Hungarian Academy of Sciences
Semmelweis University, Budapest, Hungary
"Matrix metalloproteases in determining forward cell migration"

11:30–11:50 **Michela Matteoli**
University of Milan, Italy
"How the immune system shapes neuronal connectivity during brain development"

11:50–12:10 **Eero Castren**
University of Helsinki, Finland
"Neurotrophin signaling in cortical plasticity"

12:10–12:30 **Discussion**

9. RECENT ADVANCES IN NOCICEPTIVE SIGNALLING: FOCUS ON TEMPERATURE-, ACID-, AND LIGHT-INDUCED PAIN

Friday 22nd September
10:30–12:30
Conference Room 103

ORGANIZERS

Alexandru Babes (chair)
Department of Anatomy, Physiology and Biophysics, University of Bucharest, Romania

Gábor Pethő (co-chair)
Department of Pharmacology and Pharmacotherapy,
Medical School, University of Pécs, Hungary

SPEAKERS

10:30–10:54 **Michael MJ Fischer**
Center for Phisiology and Pharmacology, Medical University of Vienna, Austria
"Tissue acidosis-induced pain"

10:54–11:18 **Peter W. Reeh**
Institute of Physiology and Experimental Pathophysiology,
University of Erlangen/Nuremberg, Germany
"Special voltage-gated sodium channels grant cold and heat resistance of nociceptive encoding – an overview"

11:18–11:42 **Gábor Pethő**
Department of Pharmacology and Pharmacotherapy,
Medical School, University of Pécs, Hungary
"Behavioural noxious heat threshold: molecular determinants, in vivo measurement and pathophysiological significance"

11:42–12:06 **Alexandru Babes**
Department of Anatomy, Physiology and Biophysics,
University of Bucharest, Romania
"TRPA1 and TRPV1, key players in light-induced pain"

12:06–12:30 **Kata Bölcskei**
Department of Pharmacology and Pharmacotherapy,
Medical School, University of Pécs, Hungary
"Novel, somatostatin-mediated peripheral antinociceptive mechanism mediated by stimulation of capsaicin-sensitive nociceptors"

10. MULTIDISCIPLINARY APPROACHES TO STUDY THE GENETIC BASIS OF NEURODEVELOPMENTAL AND NEURODEGENERATIVE DISEASES

Friday 22nd September
15:00–17:00
Plenary Hall

ORGANIZER

Illana Gozes (chair)
Tel Aviv University, Israel

SPEAKERS

15:00–15:40 **Illana Gozes**
Tel Aviv University, Israel
"Translational neuroscience: from the lab bench to clinical trials"

15:40–16:20 **Idan Menashe**
Ben Gurion University, Israel
"Advanced bioinformatics analyses reveal new insights into autism genetics"

16:20–16:40 **Vlasta Korenková**
BIOCEV Center, Vestec, Czech Republic
"Digital PCR and single cell analysis toward better understanding of neurodegenerative diseases"

16:40–17:00 **General discussion – Meet the expert**

11. HUMAN-SPECIFIC CORTICAL MICROCIRCUIT FUNCTION AND STRUCTURE

Friday 22nd September
15:00–17:00
Conference Room F08

ORGANIZER

Karri Lämsä (chair)
Department of Physiology, Anatomy and Neuroscience, University of Szeged, Hungary

SPEAKERS

15:00–15:24 **Noémi Holderith**
Institute of Experimental Medicine Hungarian Academy of Sciences, Budapest, Hungary
"Human pyramidal to interneuron synapses are mediated by multi-vesicular release and multiple docked vesicles"

15:24–15:48 **Huibert Mansvelder**
Department of Integrative Neurophysiology,Vrije Universiteit Amsterdam, The Netherlands
"Computational properties of human cortical microcircuits"

15:48–16:12 **Ed Lein**
Allen Institute for Brain Science, Seattle, WA, USA
"Towards a taxonomy of cell types: Molecular and cellular interrogation of human neocortex"

16:12–16:36 **Christian Steinhäuser**
Institut für Zelluläre Neurowissenschaften University of Bonn, Germany
"Altered cellular properties of astrocytes in human temporal lobe epilepsy"

16:36–17:00 **Karri Lämsä**
Department of Physiology, Anatomy and Neuroscience, University of Szeged, Hungary
"Plasticity in multivesicular synapses controls the human neocortical complex events"

12. IMAGING THE BRAIN AND CEREBROSPINAL FLUID AT A SINGLE-MOLECULE LEVEL

Friday 22nd September
15:00–17:00
Conference Room 103

ORGANIZERS

Juan Varela (co-chair)
Department of Chemistry, University of Cambridge, UK

Joana Ferreira (co-chair)
Interdisciplinary Institute for Neuroscience (IINS), CNRS 5297, University of Bordeaux, France

SPEAKERS

15:00–15:30 **Melike Lakadamyali**
ICFO-Institute of Photonic Sciences, Castelldefels (Barcelona), Spain
"Super-resolution imaging of autoimmune encephalitis"

15:30–16:00 **Joana Ferreira**
Interdisciplinary Institute for Neuroscience (IINS), CNRS 5297, University of Bordeaux, France
"Single nanoparticle tracking of neurotransmitter receptors in cultured and intact brain tissue"

16:00–16:30 **István Katona**
Momentum Laboratory of Molecular Neurobiology, Department of Molecular and Developmental Neurobiology, Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest, Hungary
"Cell-type-specific STORM super-resolution imaging of synaptic endocannabinoid signaling"

16:30–17:00 **Juan Varela**
Department of Chemistry, University of Cambridge, UK
"Single-molecule imaging of protein aggregates in cerebrospinal fluid of Parkinson's disease patients"

13. RECENT ADVANCES IN UNDERSTANDING OF INDIVIDUAL DIFFERENCES IN STRESS RESILIENCE AND VULNERABILITY

Saturday 23rd September
10:00–12:00
Plenary Hall

ORGANIZER

Tamás Kozicz (chair)
Radboud University Medical Centre, Nijmegen, The Netherlands

SPEAKERS

10:00–10:25 **Carmen Sandi**
Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, Switzerland
"The role of brain bioenergetics on the effects of stress and anxiety in brain function and coping behaviors"

10:25–10:50 **Jan Deussing**
Max Planck Institute of Psychiatry, Munich, Germany
"Towards genetic factors and neuronal circuits that shape emotional behaviors and stress vulnerability"

10:50–11:10 **Anikó Kőrösi**
Structural and Functional Plasticity of the Nervous System, Swammerdam Institute for Life Sciences, University of Amsterdam, The Netherlands
"Programming of cognitive functions by early-life stress: a role for nutrition and potential for intervention"

11:10–11:25 **Balázs Gaszner**
Department of Anatomy, Medical School, University of Pécs, Hungary
"The three hit concept of depression. What does maternal deprivation and superimposed chronic mild stress do in PACAP mutant mice?"

11:25–11:40 **Teun Klein-Gunnewiek**
Department of Anatomy, Radboud University Medical Centre, Nijmegen, The Netherlands
"Human iNeuron model of mood disorders in patients with mitochondrial disorder"

11:40–12:00 **Discussion**

14. DISTRIBUTED NEURAL CIRCUITS CONTROLLING FEAR STATE AND RELATED LEARNING

Saturday 23rd September
10:00–12:00
Conference Room F08

ORGANIZER

Norbert Hájos (chair)
IEM HAS, Budapest, Hungary

SPEAKERS

10:00–10:24 **Cyril Herry**
Neurocentre Magendie, INSERM, Bordeaux, France
"Prefrontal midbrain circuits control fear expression"

10:24–10:48 **Andrew Holmes**
NIAAA, Rockville, USA
"Dissecting cortico-amygdala circuits underlying inhibition of fear"

10:48–11:12 **Francesco Ferraguti**
Innsbruck University, Austria
"Specialized amygdala inhibitory networks for emotional learning"

11:12–11:36 **Ingrid Ehrlich**
University of Tuebingen, Germany
"The intercalated cell network in the amygdala: New insights into plasticity and connectivity"

11:36–12:00 **Norbert Hájos**
IEM HAS, Budapest, Hungary
"Subcortical control of fear learning via amygdala interneuron networks"

15. SYNAPTIC CYTOSKELETAL DYSFUNCTION: A COMMON MECHANISM IN DEVELOPMENTAL NEUROPATHIES

Saturday 23rd September
10:00–12:00
Conference Room 103

ORGANIZERS

Marco B. Rust (chair)
University of Marburg, Germany

Bence L. Rácz (co-chair)
University of Veterinary Medicine, Budapest, Hungary

SPEAKERS

10:00–10:30 **Pirta Hotulainen**
Minerva Institute for Medical Research, Helsinki, Finland
"Novel mechanisms in dendritic spine actin regulation"

10:30–11:00 **Marta Zagrebelsky**
Department for Cellular Neuroscience,
Technical University of Braunschweig Zoological Institute, Germany
"Mechanisms of Nogo-A actions in regulating functional and structural synaptic plasticity: role of the actin cytoskeleton"

11:00–11:30 **Marco B. Rust**
University of Marburg, Germany
"Attention-deficit/hyperactivity disorder-like alterations in a mouse model with disturbed actin dynamics"

11:30–12:00 **Scott H. Soderling**
Duke University, USA
"The spine cytoskeleton branches out: synapse unsilencing and schizophrenia-related disorders"

16. DOPAMINE D2 RECEPTOR SUPERSENSITIVITY AS A SPECTRUM OF NEUROTOXICITY AND STATUS IN PSYCHIATRIC DISORDERS

Saturday 23rd September
13:30–15:30
Plenary Hall

ORGANIZER

Richard M. Kostrzewa (chair)
Department Biomedical Sciences, Quillen College of Medicine,
East Tennessee State University, Johnson City TN, USA

SPEAKERS

13:30–14:00 **Cynthia Crawford**
Department of Psychology, California State University
San Bernadino, CA, USA
"Developmental differences in dopamine D2High receptors"

14:00–14:30 **Raul Gainetdinov** (co-chair)
Department of Neuroscience and Brain Technologies, Istituto Italiano di Tecnologia, Genova, Italy Skolkovo Institute of Science and Technology Skolkovo, Moscow Region, Russia; Institute of Translational Biomedicine, St. Petersburg State University, Russia
"TAAR1 modulation of D2 receptor sensitivity and dopamine neurotransmission"

14:30–15:00 **Karolina Wydra**
Laboratory of Drug Addiction Pharmacology, Institute of Pharmacology Polish Academy of Sciences, Krakow, Poland
"Allosteric A2A-D2 receptor-receptor interactions in reward behavior"

15:00–15:30 **Richard M. Kostrzewa**
Department Biomedical Sciences, Quillen College of Medicine,
East Tennessee State University, Johnson City TN, USA
"Induction of lifelong D2R supersensitivity: relevance to psychiatric disorders"

17. RETINAL NEUROCHEMISTRY AND INFORMATION PROCESSING

Saturday 23rd September
13:30–15:30
Conference Room F08

ORGANIZERS

Róbert Gábriel (chair)
Department of Experimental Zoology and Neurobiology, University of Pécs, Hungary

Béla Völgyi (co-chair)
MTA NAP Retinal Electrical Synapses Research Group, University of Pécs, Hungary
Department of Experimental Zoology and Neurobiology, University of Pécs, Hungary

SPEAKERS

13:30–13:50 **Johann Helmut Brandstätter**
Division of Animal Physiology, Department of Biology, FAU Erlangen-Nürnberg, Germany
"Signal transmission and adaptation at the first synapse in the visual system"

13:50–14:10 **Nicholas Brecha**
David Geffen School of Medicine, UCLA, USA
"Horizontal cell feedback and feed forward signaling mediated by calcium- and depolarization-dependent GABA vesicular release in the mammalian retina"

14:10–14:30 **Botir Sagdullaev**
Weill Cornell Medicine, New York, USA
"Of neurons and pericytes: neurovascular approach to brain health and disease"

14:30–14:50 **Ulrike Grünert**
Save Sight Institute, University of Sidney, Australia
"Anatomical analysis of the rod pathway in human retina"

14:50–15:10 **David Krizaj**

John Mora Eye Center, University of Utah, USA

"Multisensory integration in healthy and glaucomatous retinal ganglion cells"

15:10–15:30 **Béla Völgyi**

MTA NAP Retinal Electrical Synapses Research Group, University of Pécs, Hungary

Department of Experimental Zoology and Neurobiology,

University of Pécs, Hungary

"Electrical synapses of the mammalian retina serve to fine-tune the ganglion cell output signal"

18. EXCITOTOXICITY IN BRAIN ISCHEMIA AND EPILEPSY – A TRANSLATIONAL PERSPECTIVE

Saturday 23rd September

13:30–15:30

Conference Room F103

ORGANIZERS

Ana-Maria Zagrean (chair)

Discipline of Physiology and Neuroscience, Faculty of Medicine,

Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

Mihai Moldovan (co-chair)

Discipline of Physiology and Neuroscience,

Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

Neuroscience and Pharmacology, Copenhagen University, Denmark

SPEAKERS

13:30–13:54 **Mihai Moldovan**
Discipline of Physiology and Neuroscience,
Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
Neuroscience and Pharmacology, Copenhagen University, Denmark
"Translational EEG reactivity measures for assessing the post-ischemic brain"

13:54–14:18 **Aurel Popa Wagner**
Department of Psychiatry, Rostock University Medical School, Germany
Discipline of Biochemistry, University of Medicine and Pharmacy Craiova, Romania
"Stem cell therapies for the aged brain after cerebral ischemia"

14:18–14:42 **Tibor Szilágyi**
Department of Physiology, University of Medicine and Pharmacy
Targu Mures, Romania
"Alteration of hippocampal local inhibitory neurocircuits in temporal lobe epilepsy"

14:42–15:06 **Nikolaus Plesnila**
Experimental Stroke Research, Institute for Stroke and Dementia Research (ISD)
University of Munich Medical Center, Germany
"Treating cerebral ischemia through the lung – translational potential of inhaled nitric oxide"

15:06–15:30 **Ana-Maria Zagrean**
Discipline of Physiology and Neuroscience, Faculty of Medicine,
Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
"Hippocampal vulnerability to neonatal hypoxia/ischemia in rat"

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1. HUNDOC 2017 – 2nd HUNGARIAN NEUROSCIENCE MEETING FOR UNDERGRADUATE STUDENTS, GRADUATE STUDENTS AND JUNIOR POST-DOCS

Tuesday 19th September
09:00–19:30
Szentágothai Research Centre, Room B002

Organizers:

Viktor Plattner
Institue of Experimental Medicine
Hungarian Academy of Sciences, Budapest, Hungary
Gergely Komlósi
Institue of Experimental Medicine
Hungarian Academy of Sciences, Budapest, Hungary
Anna Budai
Department of Physiology, Medical School, University of Pécs, Hungary

Following our successful 1st meeting in Budapest, 2016, we would like to continue this tradition, and invite you to participate in our 2nd Hungarian Neuroscience Meeting for Undergraduate Students, Graduate Students and Junior Post-Docs.

Come and join us in a conference organized by students, for students, and enjoy the relaxed atmosphere! This is a perfect opportunity to present your work, improve your presentation skills, receive and give feedbacks. Sharing your ideas not only helps you understand your field of interest better, but can also lead to fruitful conversations and possible collaborations with other researchers.

2. EDGES OF NEUROSCIENCES

Tuesday 19th September
09:00–21:00
Medical School, University of Pécs, Conference Room

Organizer:

Attila Sik
Institute of Transdisciplinary Discoveries, University of Pécs, Hungary
University of Birmingham, UK

The symposium and workshop will be linked to and complemented with artworks (NEURART) created by established artists, arts students and scientists displayed at the surrounding of the conference site and in the corridors/hallways to draw attention of the public to the symposium and science.

09:00–12:00 *"The Beauty and the Brain"*
Chair: **Emil C. Toescu**
Neuroscientist and Academic Program Lead for the Liberal Arts and Natural Sciences course, University of Birmingham UK
Vice chair of the soon to be established Institute of Transdisciplinary Discoveries, University of Pécs, Hungary

12:00–14:00 Lunch break

14:00–17:00 *"Lightbulb moments in the brain (Neuroscience and Creativity)"*
Chair: **Attila Sik**
Neuroscientist and Director of the soon to be established Institute of Transdisciplinary Discoveries, University of Pécs, Hungary

This special symposium comprises speakers from neuroscience and non-neuroscience field as it represents a multidisciplinary approach to discuss creativity.

18:30–21:00 *"The spoken word on neuroscience – a round table debate with a Q&A session"*
Chair: **Emil C. Toescu**
Neuroscientist and Academic Program Lead for the Liberal Arts and Natural Sciences course, University of Birmingham, UK
Vice chair of the soon to be established Institute of Transdisciplinary Discoveries, University of Pécs, Hungary

Participants: Corina Negrea, Radio Romania Cultural (Science section); László Zsíros, radio and podcast host from Hungary, Ginny Smith, science writer & presenter (worked with the Naked Scientists, science radio show), and David Marcal, author and science communicator from Lisbon, Portugal.

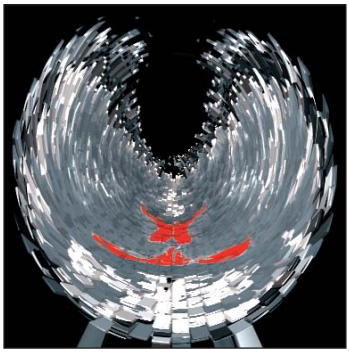
3. NEUROSCIENCE IN THE XXI CENTURY – PTE 650 ANNIVERSARY (DAY 1)

Tuesday 19th September
14:00–17:00, evening program at 19:00
Szentágothai Research Centre,
Zoltán Bachman Auditorium

Chairs:
Boldizsár Czéh
Medical School, University of Pécs, Hungary
István Ábrahám
Medical School, University of Pécs, Hungary

14:00–17:00 *"Famous Hungarian neuroscientists in the world"*
István Merchenthaler
University of Maryland, Baltimore, MD, USA
András Hajnal
Pennsylvania State University College of Medicine, PA, USA
Tamás Ördög
Mayo Clinic, Rochester, Minnesota, USA
József Csicsvári
Institute of Science and Technology Austria, Klosterneuburg, Austria
Imre Vida
Institute for Integrative Neuroanatomy, Charité, Berlin, Germany
Attila Losonczy
Columbia University, New York, USA

19.00 Dinner and wine tasting in Villány



Attila Bárdosi: Fallen angel

4. ADVANCED TECHNIQUES IN NEUROIMAGING: FROM MOLECULES TO WHOLE-BRAIN NETWORK (SPECIAL EVENT OF THE CLINICAL NEUROSCIENCE COMMITTE OF THE HUNGARIAN ACADEMY OF SCIENCES)

Wednesday 20th September
08:30–13:00
Szentágothai Research Centre, Room B001

Main organizers:

István Ábrahám
Medical School, University of Pécs, Hungary

Zsuzsanna Helyes
Medical School, University of Pécs, Hungary
Centre for Neuroscience, University of Pécs, Hungary

08:30–10:30 THEORETICAL BACKGROUND, PRESENTATIONS

István Ábrahám
Medical School, University of Pécs, Hungary
"Molecular imaging, microscopy techniques (superresolution microscopy and single molecule imaging)"

Hajnalka Ábrahám
Medical School, University of Pécs, Hungary
"Electron microscopy techniques"

Zsuzsanna Helyes
Medical School, University of Pécs, Hungary
Centre for Neuroscience, University of Pécs, Hungary
"In vivo optical and vascular imaging in brain research"

Boldizsár Czéh
Medical School, University of Pécs, Hungary
"Structural and functional brain MRI examination"

10:30–12:30 PRACTICAL TRAININGS IN SMALL GROUPS IN THE LABORATORIES OF THE SZENTÁGOTHAI RESEARCH CENTRE

István Ábrahám & Csaba Varga
"Microscopy techniques"

Zsuzsanna Helyes
"In vivo imaging"

Boldizsár Czéh & Zoltán Berente
"Small animal MRI"

12:30–13:00 Lunch break

5. NEUROSCIENCE IN THE XXI CENTURY – PTE 650 ANNIVERSARY (DAY 2)

Wednesday 20th September
13:30–16:30
Szentágothai Research Centre
Zoltán Bachman Auditorium

Chairs:
Csaba Varga
Medical School, University of Pécs, Hungary
Abhishek Banerjee
Laboratory of Neural Circuit Dynamics, University of Zürich, Switzerland

13:30–16:30 INTERNEURON FUNCTION IN HEALTHY AND CORRUPTED BRAIN CIRCUITS

Csaba Földy
Laboratory of Neural Connectivity
University of Zürich, Switzerland
"Molecular profiling of interneurons using next-generation single-cell approaches"

Balázs Hangya
Lendület Laboratory of Systems Neuroscience
Insitute of Experimental Medicine, Budapest, Hungary
"Mapping the behavioral repertoire of cortical interneurons"

Balint Lasztoczi
Department of Cognitive Neurobiology
Medical University of Vienna, Austria
"Information processing by multiple gamma oscillations in hippocampal circuits"

Laura Ewell
University of California, San Diego, USA
Universität Bonn, Germany
"Normal and abnormal fast oscillations in a chronic model of temporal lobe epilepsy"

Abhishek Banerjee
Laboratory of Neural Circuit Dynamics
University of Zürich, Switzerland
"Inhibitory deficits and mechanism-based therapeutics in Rett syndrome"

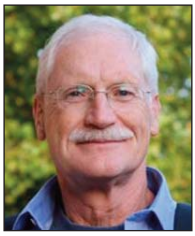
6. PRE-CONGRESS PLENARY: "GETTING THE BEST REWARD: NEURONAL MECHANISMS FOR UTILITY MAXIMISATION"

Wednesday 20th September
17:00–18:00
Szentágothai Research Centre
Zoltán Bachman Auditorium

Chair:

István Hernádi

Speaker:



Wolfram Schultz
(Brain Prize Winner 2017)
Department of Physiology
Development & Neuroscience
University of Cambridge, UK

Rewards induce learning (positive reinforcement), approach behaviour, economic decisions and positive emotions and mental states (pleasure, desire). We investigate basic neuronal reward signals during learning and decision-making, using behavioural and neurophysiological methods. We use specific behavioural tools to establish formal economic utility functions that constitute mathematical representations of behavioural preferences and predict the animal's choices. We find that the dopamine reward prediction error (RPE) signal codes economic utility, which may explain the maximisation of utility required for evolutionary beneficial behaviour. RPEs have specific valences whereby they act in specific directions; a positive RPE increases, and a negative RPE reduces, the frequency of actions that led to that RPE. Given that electrical and optogenetic activation of dopamine neurones mimicks positive RPE, decision makers would seek situations leading to positive RPEs and avoid negative RPEs, thus increasing the rewards they are getting. Such an ever-increasing reward profile would amount to utility maximization.

7. INVERTEBRATE MODELS IN STUDYING NEURONAL EFFECTS OF ENVIRONMENTAL STIMULI – SATELLITE SYMPOSIUM BY ISIN (INTERNATIONAL SOCIETY FOR INVERTEBRATE NEUROSCIENCE)

Thursday 21st September
13:00–15:30
Plenary Hall

Main organizer:

Zsolt Pirger

MTA-ÖK BLI NAP_B Adaptive Neuroethology, Department of Experimental Zoology
Balaton Limnological Institute, MTA-CER, Tihany, Hungary

"From neurons to behaviour: complex changes induced by environmental contaminants"

Speakers:

Dieter Wicher

Neurophysiology, Department of Evolutionary Neuroethology,
Max Planck Institute for Chemical Ecology, Jena, Germany

"Tuning insect odorant receptors"

Michael J. Bok

Lund Vision Group, Department of Biology, Faculty of Science,
Lund University, Sweden

"The diverse distributed visual systems of fan worms" (Michael J Bok & Dan-Eric Nilsson)

Elena E. Voronezhskaya

Laboratory of Developmental Neurobiology,
Institute of Developmental Biology, Russian Academy of Sciences
Moscow, Russia

"Early events of molluscan neurodevelopment as sensitive tool for environmental monitoring"

Joris M. Koene

Faculty of Earth and Life Sciences, Department of Ecological Science
Vrije Universiteit, Amsterdam, The Netherlands

"The evolutionary consequences of being male and female at the same time"

8. COMMUNICATING CURRENT ISSUES OF ANIMAL RESEARCH: HOW SHOULD WE OPEN THE MAGIC BOX?

Friday 22nd September
18:30–20:00
Conference Room 103

Organizer:

István Hernádi (chair)
Department of Experimental Zoology and Neurobiology
University of Pécs, Hungary

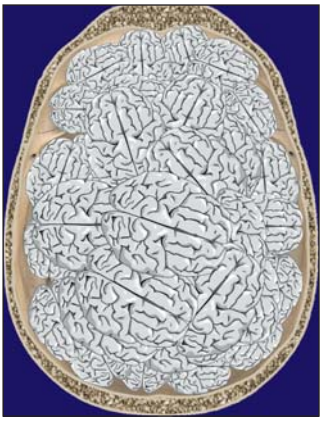
Speakers:

István Gyertyán
National Scientific Ethical Committee on Animal Research, Budapest, Hungary
"Openness On Animal Research: Replacing Evasion, Reducing Worry, Refining Communication"

Kirk Leech
EARA, London, UK
"Animal Research: Time to Talk"

Richard Scrase
Understanding Animal Research, London, UK
"Competing with our opponents online"

Susanna Louhimies
European Comission, DG Environment Unit Chemicals, Brussels, Belgium
"Transparency in Animal Research – Building Public Confidence"



Attila Bárdosi: Multiple personality

9. PARKINSON'S DISEASE: 200 YEARS AND BEYOND SATELLITE SYMPOSIUM BY THE NEUROTOXICITY SOCIETY

Saturday 23rd September
12:00–13:30
Section Room 119

Organizers:

María-Trinidad Herrero (chair)
University of Murcia, Spain
Rita Raisman-Vozari (chair)
University Pierre et Marie Curie, Paris, France

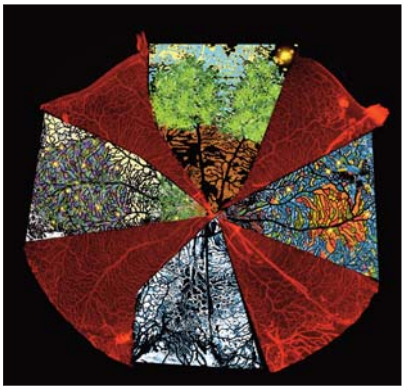
Speakers:

María-Trinidad Herrero
University of Murcia, Spain
"Parkinson's disease: 200 years studying degeneration and progression"

Elaine del Bel
University of Sao Paulo at Riberão Preto, Brazil
"How mouse genetics reveal novel treatment options to Parkinson's disease"

Andrea Tamás
University of Pécs, Hungary
"The effects of PACAP in different animal models of Parkinson's disease"

Rita Raisman-Vozari
University Pierre et Marie Curie, Paris, France
"Doxycyclin as a new therapeutical strategy in Parkinson's disease"



Tímea Kvárik: ReTreenArt

1. BRAIN BRIDGE – PUBLIC OUTREACH PROGRAM

Wednesday 13rd September
14:00–15:00
Medical School, University of Pécs

COLOR THE BRAIN

We invite people from all age groups to participate in our *Color the brain!* program. Our visitors will get to know more about the secrets of human body with the help of our professional anatomy teachers. What nerves look like in the body? What are the parts of brain? You can learn all these on plastic preparations used by medical students!

The youngest can gain further knowledge while participating in interesting games, tests and quizzes, such as a giant human puzzles and coloring books.

In our histology rooms we will show you how histological slides are made from human tissues, and you will have a chance to explore the microscopic build-up of several organs.

The program intends to address audience from all age groups, starting from the youngest ones. The programs are not only directed towards students (from the youngest age to PhD students) but will also be partially tutored by graduate and PhD students.

Program:

14:00–15:00	*Color the brain! (for children under 14 years)*
14:00–15:00	*Details of the human brain (for everybody above 14 years)*
14:00–15:00	*Histology of the human brain (for everybody above 14 years)*

2. MEET THE BRAIN PRIZE WINNER

Thursday 21st September
13:30–14:30
Conference Room F08

Chair:

István Hernádi
Department of Experimental Zoology and Neurobiology
University of Pécs, Hungary

Speaker:

Wolfram Schultz

Cambridge, UK

In addition to the pre-conference scientific plenary lecture on the 20th of September, the program called *"Meet The Brain-Prize Winner"* provides a unique opportunity to hear more about Prof. Wolfram Schultz and his outstanding work and discoveries that lead to his Brain Prize in 2017. The event is a great chance for all ages of participants to ask questions, exchange thoughts and to discuss current developments in science and beyond with Prof. Schultz, an undisputed role model and mentor of generations of scientists. This program is especially recommended for early-stage scientists standing at the beginning of their careers.

3. MEET THE NOBEL PRIZE WINNER

Thursday 21st September
14:30–15:30
Conference Room F08

Chair:

Zoltán Nusser

Institute of Experimental Medicine of the Hungarian Academy of Sciences, Budapest, Hungary

Speaker:

Thomas Südhof

Stanford University, Howard Hughes Medical Institute, USA

In addition to the scientific plenary lecture on the 21st of September, the program called "Meet The Nobel Prize Winner" provides a unique opportunity to hear more about the Nobel laureate Thomas Südhof's way to the Nobel-Prize. The event is an outstanding chance for the next generation of leading scientists to ask questions, exchange thoughts and to discuss current developments in science and beyond with Dr. Südhof, an undisputed role model and mentor. This program is especially recommended for young scientists standing at the beginning of their careers.

4. EJN BEST PUBLICATION AWARD 2017 WINNER LECTURE

Thursday 21st September
13:00–15:30
Conference Room 103

Speaker:

Pauline Luczynski
University of British Columbia, Canada

In collaboration with FENS and Wiley, EJN is awarding to the *"Best Publication Award"* in the odd years, recognizing the best research article published in EJN over the preceding two-year period.

5. RESOURCES TO INCREASE WOMEN IN NEUROSCIENCE: ADDRESSING IMPLICIT BIAS (A FENS-CHET HOSTED EVENT)

Thursday 21st September
13:00–14:30
Section Room 119

Are you working to increase awareness of the issues facing women in academia? Are you struggling with your own career and you need to have specific data without having to spend time searching and revising the literature?

The Society for Neuroscience (SfN) has created a new suite of tools called the Increasing Women in Neuroscience toolkits. The toolkits contain 30-minute turnkey PowerPoint presentations and related resources that focus on specific gender issues that impede talent retention, such as recruitment, hiring, promotion, and evaluation. During this session, former chair of SfN's Women in Neuroscience Subcommittee, Mara Dierssen, PhD, will present the Increasing Women in Neuroscience toolkit on implicit bias, and will provide guidance on how you can adapt SfN's Increasing Women in Neuroscience toolkits to your audience.

6. HUNGARIAN NEUROSCIENCE SOCIETY – GENERAL ASSEMBLY

Thursday 21st September
19:00–19:30
Conference Room F08

7. TUNE UP YOUR SKILLS: FENS TRAINING OPPORTUNITIES AND AID FOR STUDENTS AND YOUNG RESEARCHERS

Friday 22nd September
12:30–14:00
Conference Room 103

Moderator:

Ileana Hanganu-Opatz
University Medical Center Hamburg-Eppendordf, Germany
Member of the CHET Committee

Speakers:

12:00–12:05 **Menno Witter**
Chair of the FENS Committee of Higher Education and Training (CHET)
Norwegian University for Science and Technology (NTNU), Norway
Welcome and introduction

12:05–12:15 **Paulina Kazmierska**
Participant and stipend awardee: FENS-The Hertie Foundation Winter School 2016
University of Lodz, Poland
"Memory mechanisms revised"

12:15–12:20 Q&A

12:20–12:30 **Enrica Paradiso**
NENS exchange grant recipient
Medical University of Innsbruck, Austria
"Disinhibitory amygdala microcircuits for aversive learning"

12:30–12:35 Q&A

12:35–12:45 **Mootaz Salman**
Cajal training course attendee 2016
Sheffield Hallam University, UK
"The mechanism of aquaporin expression and translocation in cerebral pathologies"

12:45–12:50 Q&A

12:50–13:00 **Michael Hörner**
Awarded NENS school course: ELECTRAIN
Georg August University Göttingen, Germany
"From frog eggs, leech neurons and hippocampal circuits: Interdisciplinary training in electrophysiological techniques"

13:00–13:05 Q&A

13:05–13:20 **Svjetlana Kalanj-Bognar**

FENS Committee of Higher Education and Training (CHET) representative

Croatian Institute for Brain Research, Zagreb, Croatia

FENS training activities and opportunities for neuroscience students and young researchers

13:20–14:00 Networking

Being neuroscientists, you know very well how important it is for neurons to establish and maintain proper connections. For you as MSc, PhD students or early-stage career researchers in neuroscience, it is crucial to form your own networks, to broaden your horizons, to tune up your skills and knowledge!

FENS-CHET cordially invites you to join this special event providing you with valuable information on FENS initiatives to support your higher education, training in theoretical and experimental research skills, exchange visits, and establishing international contacts.

During the session, several young neuroscientists supported by FENS will present their experiences and research topics. The coordinator one of the supported national neuroscience courses will share his/her views on how FENS support was important for the dynamics and scientific quality of the course.

The event will close with informal socialising: enjoy delicious snacks just at lunch time, mingle with your colleagues, get acquainted with FENS-CHET members, and ask everything you always wanted to know about opportunities of our FENS support!

8. THE HISTORY OF NEUROSCIENCE IN CENTRAL AND EASTERN EUROPE DURING AND AFTER COMMUNISM

Friday 22nd September

12:30–14:30

Conference Room F08

Organizers:

Boldizsár Czéh (chair)

Department of Laboratory Medicine

Medical School, University of Pécs, Hungary

Lorenzo Lorusso (chair)
Department of Neurology
Mellino Mellini Hospital Trust, Chiari, Italy

Speakers:

László Lénárd
Department of Physiology
Medical School, University of Pécs, Hungary
"Life-work of Endre Grastyán and its impact on physiology, behavioural neuroscience and psychology"

János Réthelyi
Department of Psychiatry and Psychotherapy
Semmelweis University, Budapest, Hungary
"The life and work of János Szentágothai"

Zoltán Molnár
Department of Physiology Anatomy and Genetics
University of Oxford, UK
"Preserving the history of Neuroscience at University of Oxford and Hungarian contributions"

Marco Piccolino
Center of Neuroscience
University of Ferrara, Italy
"A. L. Byzov and the Russian research on the retina during the communist era"

Ilija Damjanovic
Institute for Information Transmission Problems, Russian Academy of Sciences, Moscow, Russia

Pavle Andjus
School of Biology University of Belgrade, Serbia

Zoran Gacic
Institute for Multidisciplinary Research, University of Belgrade, Serbia
"The Belgrade school of Physiology before and during the communist period"

Milos Judas
Croatian Institute for Brain Research
School of Medicine, University of Zagreb, Croatia
"Neuroscience in Yugoslavia: before and after the communist period"

9. STEPHEN W. KUFFLER FOUNDATION – AWARD CEREMONY

Friday 22nd September
12:30–14:00
Plenary Hall

Chair:

Zoltán Nusser
Institute of Experimental Medicine of the Hungarian Academy of Sciences, Budapest, Hungary

Stephen W. Kuffler contributed to neuroscience through his exceptional discoveries, as well as by selecting and mentoring pupils who later became leaders in their fields. Among many world leaders, he supervised and mentored the Nobel Laureates David H. Hubel, Torsten Wiesel and Eric R. Kandel. To celebrate his work and achievements, as well as to recognize his lasting influence, the Stephen W. Kuffler Foundation aims to support the scientific development of young talents in life sciences and awards the Stephen W. Kuffler Research Scholarship for students studying in Central European Universities. After receiving the awards from the Nobel Laureate Thomas Südhof, the winners will give short scientific presentations.

10. BRAIN DRAIN IN EASTERN EUROPE

Friday 22nd September
18:30–20:00
Conference Room F08

Moderator:

Pirta Hotulainen
Minerva Foundation Institute for Medical Research, Helsinki, Finland

Speakers:

Gergely Bőhm
International Relations, Hungarian Academy of Sciences, Budapest, Hungary

Juan Lerma
Principal Investigator, Instituto de Neurociencias, Alicante, Spain

Panayiota Poirazi
Foundation for Research and Technology-Hellas (FORTH), Heraklion, Greece

Ana-Maria Zagrean
Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

Researchers' mobility is a fundamental pillar of EU research strategy and is therefore strongly facilitated by the European Commission. However, "brain drain" and "brain gain", the outgoing and incoming flow of highly skilled and trained individuals may influence member states differently. To initiate discussion about how researcher mobility affects Eastern European countries, the FENS-Kavli Network of Excellence is organizing a forum discussion on "Brain Drain in Eastern Europe".

All registered participants of the FENS Regional Meeting 2017 are encouraged to attend the event, which will end with an informal socialising accompanied by snacks and drinks. No additional registration is required.

11. NEW DEVELOPMENTS IN BIO AND CRYO ELECTRON MICROSCOPY (SPONSORED SYMPOSIUM BY JEOL (EUROPE) SAS)

Saturday 23rd September
12:00–13:00
Section Room 118

Transmission Electron Microscopy (TEM) has several imaging advantages in biological applications. The presentation briefly explains this technique compared to optical microscopy.

Speaker:

R. Ravelle-Chapuis
JEOL(EUROPE)SAS

We can use standard TEM for general observation of cells, contrasted or not contrasted samples. Correlative microscopy from fluorescent microscope to TEM offers further method to investigate biological samples .

We have the possibility to observe 2D images, but 3D tomography allows to reconstruct the volume. High resolution reconstruction of viruses is another interesting biological application. As the sample is very beam sensitive, it can be prepared and embedded in vitreous ice, and directly transferred in the TEM. This technique is called CRYO Microscopy. Fully automatic recipe can be used also for automatic image acquisitions.

State of the art TEMs will be presented on both standard and high end instruments, automatic acquisitions will be introduced.

12. PUBLISHING WORKSHOP – HOW A SCIENTIFIC PAPER IS HANDLED BY A JOURNAL AND WHAT WE EXPECT IN A GOOD PAPER

Saturday 23rd September
12:00–13:30
Conference Room 103

Organizer/Speaker:

Paul Bolam

co-Editor in Chief of the European Journal of Neuroscience

Topics to be covered:

1. How a paper is handled once submitted to a journal?
2. What happens to your paper?
3. The 'peer-review' system
4. What the Editors do?
5. What the Reviewers do?
6. How to respond to Reviewers' comments?
7. Ethics of publishing (human subjects, animals, plagiarism)
8. What we expect in a good paper?

13. WRITING AND READING HIPPOCAMPAL MEMORY TRACES (IBRO ALUMNI LECTURE)

Saturday 23rd September
12:30–13:30
Conference Room F08

Speaker:

David Dupret

University of Oxford, UK

Hippocampal neuronal activity is thought to inform current behaviour by memory. In this talk I will support this view by showing that editing a hippocampal represen-

tation allows rebalancing a place memory. I will provide evidence for a role of off-line replay in memory consolidation. Finally, I will show ongoing work identifying a neuronal gateway that turns a neuronal representation into a behaviour. These data further highlight how hippocampal dynamics contribute to memory-guided behaviour.

14. BORDERLINE NEUROSCIENCE EXHIBITION

Wednesday 20th September	12:00–19:00
Thursday 21st September	08:00–19:00
Friday 22nd September	08:00–19:00
Saturday 23rd September	08:00–19:00
Knowledge Centre	

A new optional course was introduced in the medical curriculum on the diverse aspects of anatomy. The topics include interesting anatomy-related topics with many different fields of anatomy/neuroanatomy. Although this knowledge is not necessarily required for the medical curriculum, it might help the student to learn anatomy with more interest and enthusiasm. The course gives an insight into topics like: Anatomy of massage, yoga, sports, dinosaurs, art, body modifications, strange traditions, skull collections, body conservation, veterinary anatomy, anatomy on the battlefield, police or combat anatomy or historical aspects of body conservation and studying the brain and other body parts etc. Students are offered to collect an anatomy-related topic themselves and submit a presentation. This exhibition shows selected student works further popularizing anatomy for the public and increase awareness of the human body, neuroscience and biology. However, this collection offers interesting insights also for scientists.

Bertalan Andrásfalvy: Calder's brain

15. NEURART EXHIBITION

The exhibition is displayed on the stairs, exhibition hall and in the lecture halls of the Kodály Centre

Every field of science has its own beauty. Anatomy and histology, as the description of the morphology of the human body at macroscopical and microscopical level, is also beautiful. This has been used by artists for thousands of years. However, it was not known that many times they depicted structures invisible to the human eye. This raises the possibility that what we, humans, find „beautiful", is already inside us, and nature has created nearly all forms that artists intentionally or unintentionally create as beautiful. Within morphological sciences, one of the most beautiful fields is neuronal morphology. This implies that beautiful are the organ and cells that make us percieve, realize and think about beauty. This beauty gave the inspiration for this special exhibition you find in the corridor and also in the lecture halls. Scientists creating art and artists creating works related to neuroscience participate in this exhibition, also supporting the idea of a common and inseparable beauty concept of "brain and art" or "NEURART".

A few examples of the exhibition can also be seen in the program booklet.

16. TOUCH THE BRAIN

Wednesday 20th September	14:00–15:30, 16:00–17:30
Thursday 21st September	06:30–08:00
Friday 22nd September	06:30–08:00
Saturday 23rd September	06:30–08:00, 10:30–12:00, 15:00–16:30

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1. WELCOME RECEPTION (Free for participants)

Wednesday 20th September
19:00–22:00
Plenary Hall

Pécs welcomes the participants and guests of the FENS Regional Meeting 2017. We invite all of you to a champagne toast and an opening concert by the Pannon Philharmonic Orchestra.

70 min concert by the Pannon Philharmonic Orchestra
Solo pianist: Misi Boros, winner of several national and international piano awards
Conductor: Máté Hámori

Program:

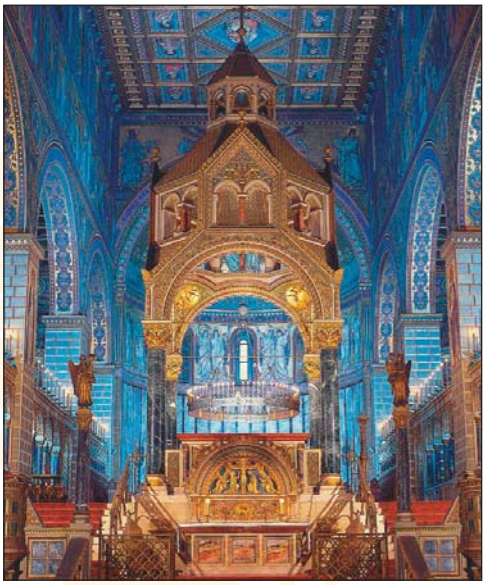
Zoltán Kodály: *Galánta Dances*
Wolfgang Amadeus Mozart: *Piano Concerto*
Ludwig van Beethoven: *V. Symphony*

2. ORGAN CONCERT (Free for participants)

Thursday 21st September
20:00–21:00
Cathedral
There will be a bus departing from the parking lot of the Kodály Centre at 19:30.

An exceptional program to end the first day of the conference. As part of the university's 650th Anniversary celebrations we invite you all to a night of classical music in a truly mesmerizing venue.

The organ player is Csaba Király, who graduated from the Ferenc Liszt Academy of Music, Budapest as performing artist in 1989 (organ), and in 1990 (piano). Beyond his recitals in Hungary, he has had concert engagements in nearly all European countries, winning great success in the United States, Canada, Japan, South Korea, China, Egypt and India. His repertoire covers a wide range from the Baroque to contemporary music. Besides performing works by Bach, Beethoven, Liszt and Bartók, performing the latest modern compositions plays a prominent role in his concert programmes.



Program:
J. S. Bach: *Fantasy G-major BWV 572*
C. Franck: *Cantabile*
Liszt Ferenc: *Hosannah*
M. Dupré: *Noël-variations Op. 20*
J. S. Bach: *Passacaglia C-minor BWV 582*

3. NIGHT SIGHTSEEING TOUR (Ticket needed)

Thursday 21st September
21:00–22:00
Inner city
Meeting point: Dóm square, in front of the cathedral
Please don't forget to bring your ticket with you!

The torch light night sightseeing tour in our beloved city, Pécs, is a guided tour where you can discover the most unique parts and monuments of the city (including World Heritage sites). Our sightseeing tour will be held in the heart of Pécs (after the organ concert in the Cathedral).
The torches are provided by us.

Depending on the ending of the organ concert in the cathedral there could be a slight delay in the starting time.

The guided tour includes:

- Cathedral
- Bishop's Palace
- Archives
- Cella Septichora
- Medieval University

4. TRIP TO VILLÁNY (Ticket needed)

Friday 22nd September
20:00–23:00
Jammertal Wine Complex
Meeting point: A bus departing from the parking lot of the Kodály Centre at 20:00
Please don't forget to bring your ticket with you!

Villány is one of Hungary's top wine regions, known for its reds and rosés. Hungary's most southern wine region has long and hot summers with abundant sunshine, followed by a mild winter. Thanks to this sub-Mediterranean climate wines from Villány are full-bodied and spicy and of the highest quality. The majority of Hungary's award-winning wines are produced in the Villány region. According to archeological finds winemaking traditions in the region can be traced back to Roman times.

The Jammertal Wine Complex is one of Europe's biggest and most beautiful vineyards, situated at the gate of the Villány Wine Region. With its 2100 m^2 area it offers far more than an average wine tasting experience. Taste the finest of wines accompanied with matching dishes of their famous kitchen.

5. **PÁLINKA TASTING** (Ticket needed)

Friday 22nd September
19:30–23:00
N-Eozin Grill Terrace
Please don't forget to bring your ticket with you!

Come and join us for a pleasant night where you can try several tastes of the traditional Hungarian drink, pálinka with the guidance of Brill pálinka manufacturer's professional pálinka sommelier.

The venue is one of the greatest outdoor pubs in town where after the tasting program, we invited an accomplished Irish musician, Ian O' Sullivan – not to mention a medical student at the University of Pécs – to contribute to this memorable night with a special acoustic concert.

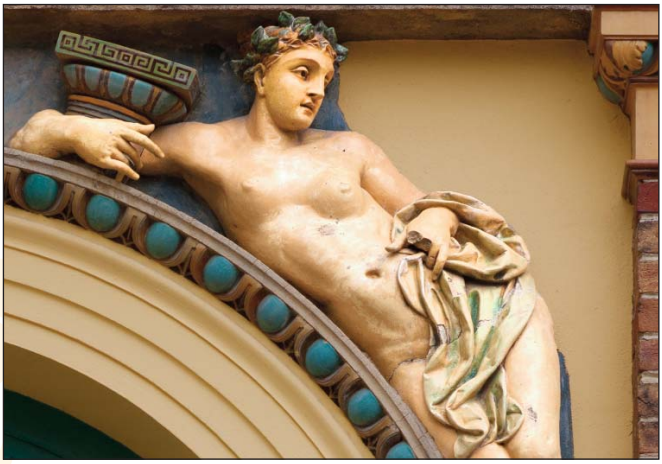
6. GALA DINNER (Ticket needed)

Saturday 23rd September
20:00–24:00
M21 Gallery, Zsolnay Cultural Quarter
Please don't forget to bring your ticket with you!

A well-deserved closing party of the conference. Have an exclusive dinner in an elegant gallery while enjoying the art and paintings of the Hungarian contemporary artists. Discuss all the hot topics of the conference with a glass of some of the best wines of the region in your hand.

Join us for this magical night, try your luck at our casino room playing Black Jack, Poker and Roulette for valuable gifts!

The gala dinner features a short presentation about what makes Hungarians unique (the so called „Hungarikums"). Participants even can challenge our very own Rubik's Cube champion for a race.



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FENS Federation of European Neuroscience Societies

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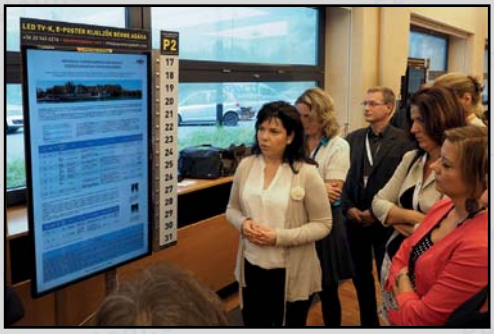

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We encourage every poster presenter – for the purpose of most effective use of time – to set up your posters at the beginning of the set-up time and remove at the end of the removal time. Please see the map for your poster's location (P1,P2,P3).

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Pécs, Breuer Marcell sétány 4.

Knowledge Centre
Pécs, Universitas u. 2/A

Faculty of Economics (Halasy-Nagy József Aula)
Pécs, Rákóczi u. 80.

Medical School
Pécs, Szigeti út 12.

Szentágothai Research Centre
Pécs, Ifjúság útja 20.

Room Bistro
Pécs, Zsolnay Vilmos u. 16.

M21 Gallery
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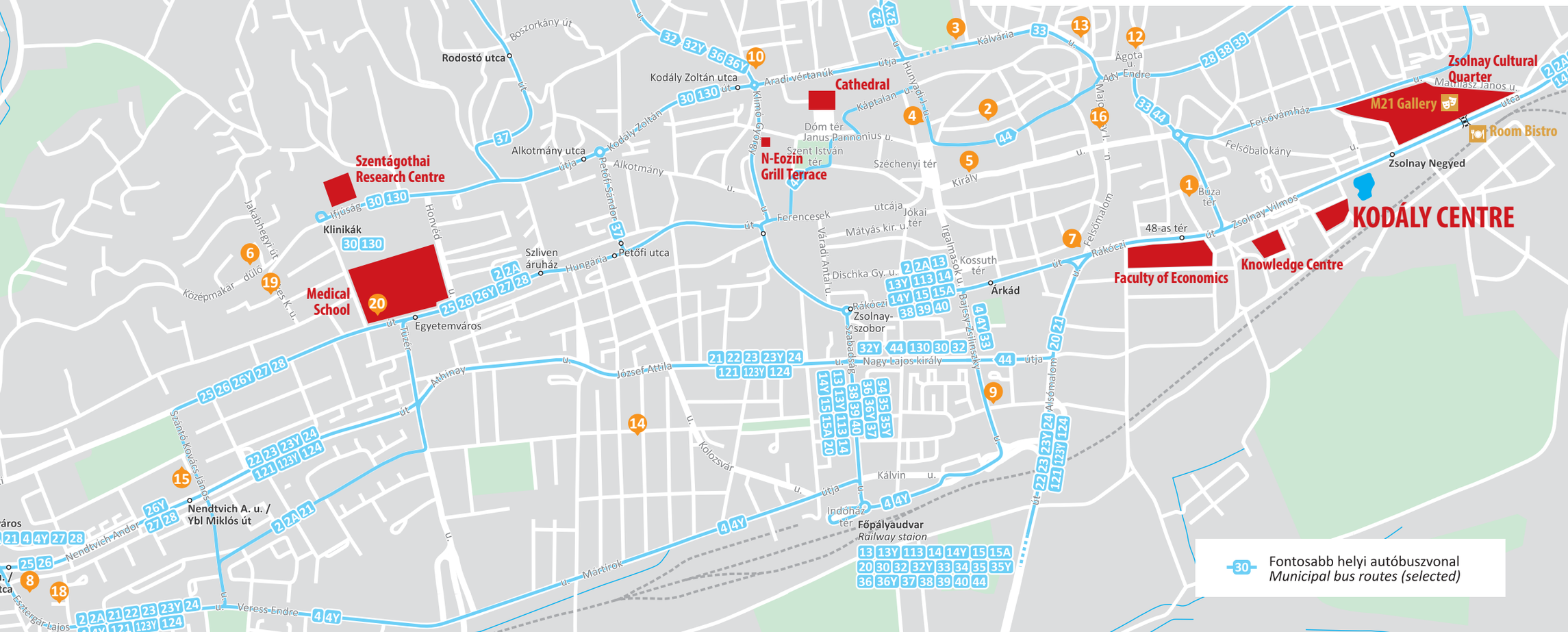
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