

More information

Contact and registration:

No registration fee

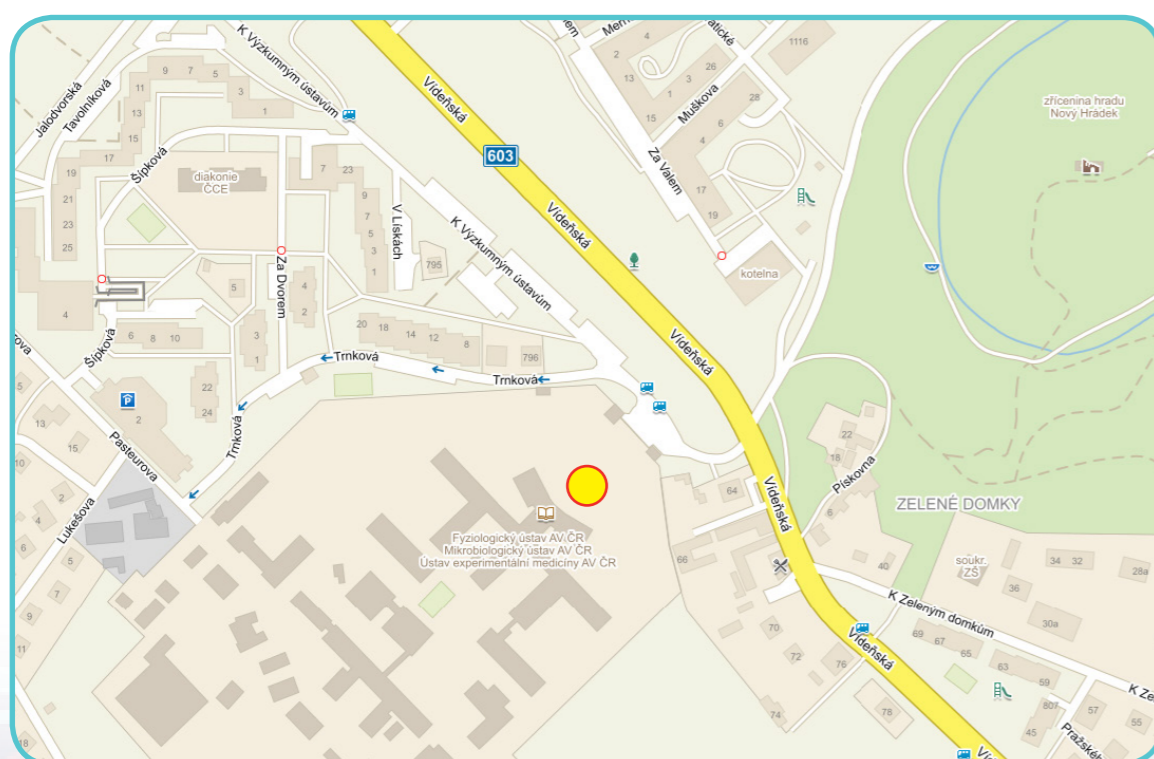
Free attendance

For special requests contact Ales Stuchlik, ales.stuchlik@fgu.cas.cz

Address: Institute of Physiology (Lecture hall, building A) Vídeňská 1083, Prague 4

Public transport: bus 193, stop: Zelené domky

Car: Parking is available on campus.



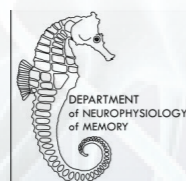
Neuropsychiatric Disorders - From Basic Systems to Clinical Applications: Czech and Slovak Neuroscience Alumni Workshop

24th and 25th June 2016
Institute of Physiology CAS, Prague

Organizers:

Tomáš Hromádka (Slovak Academy of Sciences, Axon Neuroscience, Bratislava, SK)

Aleš Stuchlík (Institute of Physiology, Czech Academy of Sciences, Prague, CZ)



24th June

9:00 *Conference start, welcoming remarks - Aleš Stuchlík*

9:05 *Czech and Slovak Neuroscience: An overview – Josef Syka*

9:10 – 10:10 Plenary 1

Eva Paštalková (Janelia Research Campus, USA)

- **The role of oscillations in neuronal sequential firing and memory**

10:10 *Coffee break*

10:30 - 12:30 Symposium 1

Chairman: David Hansel

Hynek Wichterle (Columbia University)

- **Decoding and debugging motor neurons: modeling neural development and disease with pluripotent stem cells**

Robert Guetig (Max Planck Institute for Experimental Medicine, Goettingen, Germany)

- **Spiking neurons can discover predictive features by aggregate-label learning**

David Hansel (CNRS & Hebrew University)

- **Theory of orientation selectivity without map**

Andrej Král' (Hannover, Germany)

- **Bottom-up and Top-down Integration and Sensory Deprivation: The Decoupling Theory**

12:30 *Lunch*

13:30 – 15:30 Symposium 2

Chairman: Tomáš Hromádka

Ondřej Novák (Institute of Experimental Medicine, Czech Academy of Sciences, Prague, CZ)

- **Associative plasticity and adaptive population coding in the auditory cortex**

Martin Zápotocký (Institute of Physiology, Czech Academy of Sciences, Prague, CZ)

- **The dynamics of axon bundling and its biophysical mechanisms**

Jan Kubánek (Stanford University)

- **Ultrasonic neuromodulation as a new non-invasive way to stimulate specific regions of the brain**

Lubica Beňušková (Comenius University, Bratislava, SK)

- **The age-related posterior-anterior shift as revealed by voxelwise analysis of functional brain networks**

15:30 *Coffee break*

15:45 – 17:45 Symposium 3

Chairman: Eva Paštalková

Peter Jedlička (Johann Wolfgang Goethe-University, Frankfurt)

- **Computational modeling of homeostatic synaptic and dendritic plasticity in the hippocampus**

Peter Hubka (Hannover, Germany)

- **Cortical connectivity without experience: an auditory system perspective**

Jan Bím (Italian Institute of Technology, Italy)

- **What do neurons communicate to each other?**

Tomáš Hromádka (Slovak Academy of Sciences, Axon Neuroscience, Bratislava, SK)

- **From molecules to cognition - Systems neuroscience in Alzheimer's disease**

17:45 *Transfer to Campfire*

18:00 *Party at the Campfire*

25th June

10:00 – 11:00 Plenary 2

Pavel Osten (CSHL, USA)

- **The unknown unknowns of the mammalian brain: unbiased screening of neural function and anatomy**

11:00 *Coffee break*

11:25 – 13:25 Symposium 4

Chairman: Aleš Stuchlík

Petr Telenský (Faculty of Sciences, Charles University Prague, CZ)

- **Repeated binge-like eating of an energy dense diet alters responsiveness to stress in mice.**

Karel Ježek (Medical Faculty Pilsen, Charles University, CZ)

- **Memory circuits and their temporal dynamics**

Eduard Kelemen (National Institute of Mental Health, Klecany, CZ)

- **Organization of hippocampal representations (memories) in wakefulness and sleep**

Karel Blahna (Institute of Science and Technology, Vienna, Austria)

- **Hunting the remote memory : Dynamics of the goal-specific neurons in the prefrontal cortex and hippocampus**

13:25 Closing remarks

13:35 *Informal get-together with attendees and students and lunch in the lobby of Institute of Physiology CAS*