



Advanced microscopic imaging techniques in the morpho-functional evaluation of the central nervous system

Workshop

28 November 2017

- 9.00 -10.30 **Introduction to confocal light microscopy**
László BARNA, Head of Nikon Microscopy Center, Institute of Experimental Medicine of the Hungarian Academy of Sciences, Budapest
- 10.30 - 10.50 **Coffee break**
- 10.50 - 11.30 **GABA_A receptor subunit composition of pyramidal cell synapses as revealed by freeze-fracture replica labelling**
Katalin SZIGETI, MD, PhD, Laboratory of Cellular Neurophysiology, Institute of Experimental Medicine of the Hungarian Academy of Sciences, Budapest
- 11.30 - 12.10 **Introduction to super-resolution light microscopy**
László BARNA
- 12.10 - 12.30 **Coffee break**
- 12.30 - 13.00 **Confocal super-resolution microscopy**
Daniel ZAZGYVA, Product Manager at MEDIST Life Science, Romania
- 13.00 - 13.10 **Multidisciplinary study of epileptogenesis in experimental models of temporal lobe epilepsy**
Károly ORBÁN-KIS, MD, PhD, Dept. of Physiology, University of Medicine and Pharmacy Tîrgu Mures
- 13.10 - 13.20 **Short- and long-term quantitative changes of inhibitory interneuron populations caused by temporal lobe epilepsy in rats**
Rita KISS, MD, PhD student, Dept. of Physiology, University of Medicine and Pharmacy Tîrgu Mures
- 13.20 - 13.30 **Spatial learning and memory impairment in an experimental model of temporal lobe epilepsy**
István MIHÁLY, MD, PhD student, Dept. of Physiology, University of Medicine and Pharmacy Tîrgu Mures
- 13.30 - 13.40 **Attempts to pharmacologically influence epileptogenesis - role of inflammation and microglial activation**
Zsolt GÁLL, PhD, Dept. of Pharmacology and Clinical Pharmacy, University of Medicine and Pharmacy Tîrgu Mures

29 November 2017

Hands-on activity at the confocal microscope
Small groups, signup on 28 November

Center for Advanced Medical and Pharmaceutical Research

More information: Tibor Szilágyi, szilagyi@umftgm.ro