

5th Baltic-Nordic School on Neuroinformatics BNNI 2017

Theoretical modelling of brain functions in neurological and psychiatric disorders: Advancing future neuroscience and medicine through Neuroinformatics methods

6-7 October 2017

Neuroscience Institute
Lithuanian University of Health Sciences
Eiveniu str. 4, Kaunas, Lithuania

6 October 2017

8.00-9.00	Registration. Coffee/Tea
9.00-9.10	Opening and welcome
	I session. Neuroinformatics methods in neuroscience and medicine.
9.10-10.00	Dr. R. Naginiene , Neuroscience Institute, Lithuanian University of Health Sciences, Kaunas, Lithuania <i>Translational neuroscience and neuroscience in Lithuania</i>
10.00-11.00	Prof. M.-L.Linne , Tampere University of Technology, Finland; The Human Brain Project <i>Advancing future neuroscience and medicine through neuroinformatics methods: the Human Brain Project</i>
11.00-11.30	Coffee/Tea
11.30-13.00	Prof. B. Graham , Institute of Mathematics and Informatics, University of Stirling, UK <i>From neurons and synapses to networks: Basics of computational/theoretical modelling of the brain</i>
13.00-14.00	Lunch. Coffee/Tea
	II session. Computer exercises. Modeling the healthy brain
14.00-15.00	Dr. A.Roth , Wolfson Institute of Biomedical Research, University College London, UK <i>Introduction to NEURON simulator.</i>
15.00-17.00	Prof. B. Graham , Institute of Mathematics and Informatics, University of Stirling, UK Prof. A. Saudargiene , Neuroscience Institute, Lithuanian University of Health Sciences, Kaunas, Lithuania; Department of Informatics, Vytautas Magnus University, Kaunas, Lithuania <i>Simulating synapses, neurons and networks in health.</i>
17.00-18.00	Coffee/Tea. Poster session and networking

7 October 2017

	III session. Challenges in understanding and treating brain disorders
9.00-9.45	Dr. T. Mäki-Marttunen , Simula Research Laboratory, Oslo, Norway <i>Computational modelling of neuron combined with genomics data to study schizophrenia</i>
9.45-10.30	Prof. P. Jedlicka , NeuroScience Center, Goethe-University, Frankfurt, Germany <i>Computational models of neurological and psychiatric disorders (epilepsy, multiple sclerosis, Alzheimer's disease, Parkinson's disease, schizophrenia, depression)</i>
10.30-11.00	Coffee/Tea
11.00-11.45	Prof. D. Wojcik , Nencki Institute of Experimental Biology, Warsaw, Poland <i>Extracellular electrophysiology from modeling perspective</i>
11.45-12.30	Prof. I. Griskova-Bulanova , Institute of Bioscience, Vilnius University, Lithuania <i>Biomarkers of psychiatric disorders</i>
12.30-13.00	A. Radžiūnas , Department of Neurosurgery, Medical Academy, and Neuroscience Institute, Lithuanian University of Health Sciences, Kaunas, Lithuania <i>Psychiatric complications after subthalamic nucleus deep brain stimulation in Parkinson disease patients</i>
13.00-14.00	Lunch. Coffee/Tea
	IV session. Computer exercises. Modeling diseased brain
14.00-17.00	Prof. P. Jedlicka , NeuroScience Center, Goethe-University, Frankfurt, Germany Dr. A. Roth , Wolfson Institute of Biomedical Research, University College London, UK Dr. T. Mäki-Marttunen , Institute of Clinical Medicine, University of Oslo, Norway Prof. A. Saudargiene , Neuroscience Institute, Lithuanian University of Health Sciences, Kaunas, Lithuania; Department of Informatics, Vytautas Magnus University, Kaunas, Lithuania <i>Simulating the neuronal mechanisms of neurological and psychiatric disorders</i>
17.00-18.00	Coffe/Tea. Farewell.

Kaunas, Lithuania

