TAMPERE UNIVERSITY OF TECHNOLOGY
nencki institute of experimental biology
LITHUANIAN UNIVERSITY OF HEALTH SCIENCES
NEUROSCIENCE INSTITUTE
GOETHE UNIVERSITÄT FRANKFURT AM MAIN
UNIVERSITY of STIRLING
Human Brain Project

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

Advanced Pharmaceutical and Health Technologies Centre of Lithuanian University of Health Sciences Sukileliu Av. 13, Kaunas, Lithuania

6 October 2017

8.00-9.00	Registration. Coffee/Tea
9.00-9.15	Opening and welcome Auditorium A205
	I session. Neuroinformatics methods in neuroscience and medicine. Auditorium A205
9.15-10.00	**Dr. R. Naginiene**, Neuroscience Institute, Lithuanian University of Health Sciences, Kaunas, Lithuania *Translational neuroscience and neuroscience in Lithuania*
10.00-11.00	**Prof. M.-L.Linne**, Tampere University of Technology, Finland; The Human Brain Project *Advancing future neuroscience and medicine through neuroinformatics methods: the Human Brain Project*
11.00-11.30	Coffee/Tea
11.30-13.00	**Prof. B. Graham**, Institute of Mathematics and Informatics, University of Stirling, UK *From neurons and synapses to networks: Basics of computational/ theoretical modelling of the brain*
13.00-14.00	Lunch. Coffee/Tea
	II session. Computer exercises. Modeling the healthy brain Computer classroom A010
14.00-15.00	**Dr. A. Roth**, Wolfson Institute of Biomedical Research, University College London, UK *Introduction to NEURON simulator.*
15.00-17.00	**Prof. B. Graham**, Institute of Mathematics and Informatics, University of Stirling, UK **Dr. A. Roth**, Wolfson Institute of Biomedical Research, University College London, UK **Prof. A. Saudargiene**, Neuroscience Institute, Lithuanian University of Health Sciences, and Vytautas Magnus University, Kaunas, Lithuania *Simulating synapses, neurons and networks in health.*
17.00-18.00	Coffee/Tea. Discussions and networking.
19.00-22.00	Get-Together-Dinner in the old town of Kaunas.

7 October 2017

	III session. Challenges in understanding and treating brain disorders Auditorium A205
9.00-9.40	**Prof. P. Jedlicka**, NeuroScience Center, Goethe-University, Frankfurt, Germany *Computational models of neurological and psychiatric disorders*
9.40-10.25	**Dr. T. Mäki-Marttunen**, Simula Research Laboratory, Oslo, Norway *Computational modelling of neuron combined with genomics data to study schizophrenia*
10.25-10.45	**Prof. P. Enrico**, Department of Biomedical Sciences, University of Sassari, Sardinia, Italy *The neurobiology of drug withdrawal: insights and hints from computational modelling*
10.45-11.15	Coffee/Tea
11.15-12.00	**Prof. D. Wojcik**, Nencki Institute of Experimental Biology, Warsaw, Poland *Extracellular electrophysiology from modeling perspective*
12.00-12.30	**Prof. I. Griskova-Bulanova**, Institute of Bioscience, Vilnius University, Lithuania *Biomarkers of psychiatric disorders*
12.30-13.00	**A. Radžiūnas**, Department of Neurosurgery, Medical Academy, and Neuroscience Institute, Lithuanian University of Health Sciences, Kaunas, Lithuania *Psychiatric complications after subthalamic nucleus deep brain stimulation in Parkinson disease patients*
13.00-14.00	Lunch. Coffee/Tea
	IV session. Computer exercises. Modeling diseased brain Computer classroom A010
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, and Vytautas Magnus University, Kaunas, Lithuania *Simulating the neuronal mechanisms of neurological and psychiatric disorders*
17.00-18.00	Coffe/Tea. Farewell.

Kaunas, Lithuania