15th International Conference of the Lithuanian Neuroscience Association
„Neurodiversity: from Theory through Artificial Intelligence to Clinical Practice"

Date: 24 November 2023

Venue: Hall A-203, Centre for the Advanced Pharmaceutical and Health Technologies
Lithuanian University of Health Sciences, Kaunas, Lithuania

Organising and Scientific Committee:

Prof. Osvaldas Rukšėnas (Vilnius University, Lithuania)

Dr. Rima Naginienė (Lithuanian University of Health Sciences, Kaunas, Lithuania)

Prof. Vilmantė Borutaitė (Lithuanian University of Health Sciences, Kaunas, Lithuania)

Prof. Aušra Saudargienė (Lithuanian University of Health Sciences, and Vytautas Magnus University,
Kaunas, Lithuania)

Assoc. Prof. Ramunė Grikšienė (Vilnius University, Lithuania)

Dr. Urtė Neniškytė, Vilnius University, Lithuania

Dr. Sigita Mėlynytė (Vilnius University, Lithuania)

Sponsors:

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Centre for the Advanced Pharmaceutical and Health Technologies
Lithuanian University of Health Sciences
Hall A-203, Sukileliu av. 13, Kaunas, Lithuania

9.00-10.00	**Registration. Coffee/Tea**
10.00-10.10	**Opening and welcome** Prof. Osvaldas Rukšėnas, President of the Lithuanian Neuroscience Association Prof. Vaiva Lesauskaitė, Vice-rector for Research, Lithuanian University of Health Sciences Prof. Arimantas Tamašauskas, Director, Neuroscience Institute, Lithuanian University of Health Sciences Dr. Rima Naginienė, Neuroscience Institute, Lithuanian University of Health Sciences
	I session. Artificial Intelligence and Theoretical Neuroscience in Precision Medicine Chair Prof. Aušra Saudargienė, Neuroscience Institute, Lithuanian University of Health Sciences / Vytautas Magnus University, Lithuania
10.10-10.50	**The Virtual Brain Models: Linking Theory and Data Towards Understanding Pathophysiological Processes** Prof. Pierpaolo Sorrentino, Institute of System Neuroscience, Aix-Marseille University, France
10.50-11.30	**Precision Neurostimulation of Spinal Cord in Spinal Injury: a Computational Approach** Dr. Andreas Rowald, Friedrich-Alexander University Erlangen-Nurnberh, Germany
11.30-11.45	**Photoplethysmography, Wearable Devices, and Selected Applications** Prof. Vaidotas Marozas, Biomedical Engineering Institute, Kaunas University of Technology, Lithuania
11.45-12.00	Meeting of the members of Lithuanian Neuroscience Association
12.00-13.00	**Lunch**
13.00-14.00	**Poster session**
	II session. Neurodegenerative Disorders Chair – prof. Ramunė Morkūnienė, Neuroscience Institute, Lithuanian University of Health Sciences, Lithuania
14.00-14.40	**DCLK3, Neuronal Kinase with Likely Many Roles: From Huntington's Disease to Psychiatric Disorders** Dr. Emmanuel Brouillet, Institute of Biology (INSB) CNRS, France
14.40-15.00	**Biomarkers in Amyotrophic Lateral Sclerosis** Evelina Grušauskienė, Faculty of Medicine, Lithuanian University of Health Sciences, Lithuania
15.00-15.20	**How Viral Inflammation Contributes to Neurodegeneration** Dr. Silvija Jankevičiūtė, Neuroscience Institute, Lithuanian University of Health Sciences, Lithuania
15.20-15.50	**Coffee/Tea. Poster session**
	III session. Genetic Aspects of the Nervous System Diseases Chair – dr. Paulina Vaitkienė, Neuroscience Institute, Lithuanian University of Health Sciences, Lithuania
15.50-16.10	**RNA Modifications in Tumors – the New Black in Gene Regulation** Dr. Giedrius Steponaitis, Neuroscience Institute, Lithuanian University of Health Sciences, Lithuania
16.10-16.30	**Interplay between Metabolic and Epigenetic Factors in Transmission of Neuropsychiatric Disease Risk** Dr. Ali Jawaid, Nencki-EMBL BRAINCITY Center of Excellence for Neural Plasticity and Brain Disorders, Nencki Institute of Experimental Biology, Warsaw, Poland
16.30-16.45	**Visual Information Processing in Cortex and a Potential Link to Brain Disorders** Dr. Gytis Baranauskas, Neuroscience Institute, Lithuanian University of Health Sciences, Lithuania
16.45-17.00	**Concluding remarks, discussions, awards.**
17.00-19.00	**Closing party**