

**“NEW FRONTIERS IN
NEUROPHYSIOLOGY AND NEUROLOGY”**

2nd meeting of Baltic Physiological Societies. 23rd – 24th March, 2017. Kaunas, LT

Organizing committee:

Edgaras Stankevičius
Alexei Verkhatsky
Oleksandr Tsvietkov
Kęstutis Petrikonis
Vaiva Lesauskaitė
Dalia Akramienė
Rimvydas Miliauskas
Igor Korotkich
Eero Vasar
Peteris Tretjakovs

Young researchers organizing committee:

Aurelija Noreikaitė
Laura Martinkutė
Silvijus Abramavičius

23rd of March. Faculty of Pharmacy, hall 203, Sukilėlių str.13

15:00 – 16:00 Lecture for medical students in connection with teaching module
“Circulation”: **“Vascular function: from physiology to pathophysiology”**
Prof. Ulf Simonsen (Aarhus, DK)

24th of March. Faculty of Pharmacy, hall 203, Sukilėlių str.13

Registration (8:00 – 10:00)

8:30 – 9:30 Lecture for medical students in connection with teaching module
“Sensation and perception”: **“Astroglia: History, definition,
evolution and physiology”**
Prof. Alexei Verkhatsky (Manchester, UK)

Session 1 (10:00 – 12:00)

New frontiers in understanding cellular mechanisms of Alzheimer's disease

Chairs: Edgaras Stankevicius
Alexei Verkhatsky

Alexei Verkhatsky (Manchester, UK, Bilbao, Spain)

Principles of astroglipathology and astrocytes in Alzheimer's disease (20 min + 2 min)

Wendy Noble, (London, UK)

Astrocytes as mediators of synaptotoxic Abeta-tau interactions in Alzheimer's disease (20 min + 2 min)

Lisa Mohamet (Manchester, UK)

Induced Stem Cell Technology for Alzheimer's disease modelling and drug discovery (20 min + 2 min)

Dmitry Lim (Novara, IT)

Astroglial calcineurin and its role in neuronal dysfunction in Alzheimer's disease (20 min + 2 min)

Ramunė Morkūnienė (Kaunas, LT)

Size dependent toxicity mechanisms of A β 1-42 aggregates in neuronal-glia cell cultures (20 min + 2 min)

Lunch (12:00:13:00)

Session 2 (13:00 – 15:30)

New frontiers in neurophysiology and treatment strategies of Alzheimer's disease

Chairs: Kęstutis Petrikonis
Ulf Simonsen

Wojciech Maksymowicz (Olsztyn, PL)

Looking for the way of restoration of impaired nervous system function (20 min)

Baiba Jansone (Riga, LV)

New drugs and targets: focus on neuroinflammation and GABAergic systems in Alzheimer's disease animal model (20 min)

Vladimir Matckov (Aarhus, DK)

Disturbances in pathology of familial hemiplegic migraine type 2 (20 min)

Ulf Simonsen (Aarhus, DK)

Vascular disturbances in Alzheimer disease (20 min)

Aistė Jekabsone (Kaunas, LT)

Evaluation of peptide-functionalized polyethylene glycol hydrogels as designed ECM-like substrates for neuronal-glia cell culture based in vitro models (20 min)

Greta Pšemeneckienė (Kaunas, LT)

Parallels between Alzheimer's CSF biomarkers and TNF alpha genetic polymorphism (20 min)

Anton Terasmaa (Tartu, EST)

Comparison of phenotype of Wfs1 deficient animals with pathology of Wolfram syndrome (20 min)

