

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

2<sup>nd</sup> meeting of Baltic Physiological Societies. 23<sup>rd</sup> – 24<sup>th</sup> 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

**23<sup>rd</sup> 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)**

**24<sup>th</sup> 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 $\beta$ 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)

