

# Bogomoletz Institute of Physiology 4 Bogomoletz St., Kiev, Ukraine

# **PROGRAM**

# 1 day, Thursday, September 24, Conference Hall

13:30 – 15:00 – Registration

15:00 – 15:30–Opening Ceremony.Oleg Krishtal

15.30 – 16.00 – Nana Voitenko. Oleg Krishtal and ion channels

16.00 - 17.00 -- Greetings

17:00 – Welcome Party

#### 2 day, Friday, September 25, Conference Hall

Chair – Alexej Verkhratsky

10:00 – 10:30 – Sierd Cloetingh(President of Academia Europaea)- Challenges and opportunities for Science in Europe: perspectives from Academia Europaea and the European Research Council

10:30 – 11:00 – Jerzy Duszyński (President of the Polish Academy of Sciences)Recentchallenges and opportunities for the Polish Academy of Sciences

11:00 – 11:30 –Eva Kondorosi(Chair of the Working Group on Widening European Participation of the European Research Council and member of the European Research Council)Towards widening of Pan-European participation in the research opportunities provided by the European Research Council

11:30 - 12:00 - Coffee Break

Chair - Dmitri Rusakov

12:00 – 12:30 – Alexej Verkhratsky(Manchester University, Manchester, UK)- Principles of Neurogliopathology

12:30 – 13:00 – Ole Peterson(CardiffUniversity, Cardiff, Wales, UK) - 35 years of giga-seal patch clamp current recording in non-neuronal cells

13:00 – 13:30–Alexey Boyarsky (EPFL, Lausanne, Switzerland)- ScienceWISE - collaborative semantic environment for science

13:30 – 14:30 – Lunch, Seminar on High-throughput computing in biological research.

Chair - Martha Nowycky

14:30 – 15:00 – Dmitri Rusakov(*University College London, London, UK*) - Nanomolar Ca<sup>2+</sup> landscapes in neurons and glia unveiled with time-resolved fluorescence microscopy

- 15:00 15:30 Shyam S. Chatterjee(Institute of Medical Engineering and Biophysics, Research Centre Karlsruhe, Karlsruhe, Germany) From covalent bonds to phyto-pharmacology via ion channels for trimming the brain
- **15:30 16:00 Evgeni Ponimaskin**(*Hannover Medical School, Hannover, Germany*) Functional interplay between 5-HT7 receptor, MMP-9, and CD44 in the regulation of neuronal plasticity
- 16:00 16:30 Coffee Break
- Chair Aleksandr Zholos
- **16:30 17:00 –Georgy Bakalkin**(*Uppsala University, Uppsala, Sweden*) Endogenous Opioid System in Spinal Cord Plasticity
- 17:00 17:30 –Boris Safronov(Institute for Molecular and Cell Biology, Porto, Portugal) Nociceptive processing in the superficial dorsal horn
- 17.30 18.00 Martha Nowycky(New Jersey Medical School, New Jersey, USA)TRPC4/5 channels in neurons
- **18.00 18.30 Emilio Carbone**(*University of Torino, Torino, Italy*) Cav1.3, BK and SK channels as regulators of neuron-like firing in neurosecretory cells
- **19.00 22.00 Dinner (by invitation)**

# 3 day, Saturday, September 26. Conference Hall.

- Chair Emilio Carbone
- 10:00 10:30 Aleksandr Zholos (Taras Shevchenko Kyev National University, Kyev, Ukraine) TRP channels in health and disease: their pharmacology, biophysics and species differences
- 10:30 11:00 Jacek Kuznicki(International Institute of Molecular and Cell Biology, Warsaw, Poland) SOCE in neurons in health and disease
- 11:00 11:30 Aleksandr Petrenko(Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow, RF)- Receptors for hydroxyl
- 11:30 11:45 Coffee Break
- Chair -Nana Voitenko
- 11:45 11:50 PlatonKostyuk Award 2015 Ceremony and young scientists' session.
- 11:50 12:00 Talkof the Kostyuk Awardee
- **12:00 12:10 Volodymir Krotov**(*Bogomoletz Institute of Physiology, Kiev, Ukraine*) Pain-induced changes in synaptic drive and postsynaptic AMPARs in dorsal horn neurons.
- **12:10–12:20 Elena Isaeva**(Bogomoletz Institute of Physiology. Kiev, Ukraine) Contribution of PAR1 in epileptogenesis
- 12:20 12:30 Volodymyr Cherkas (Bogomoletz Institute of Physiology, Kiev, Ukraine)— Hippocalcin signaling in hippocampal neurons
- **12:30 12:40 Oleksii Grygogov** (Bogomoletz Institute of Physiology, Kiev, Ukraine) Role of K<sup>+</sup> channels in firing hippocampal neurons
- **12:40 12:50 –Oleksandr Maximyuk** (Bogomoletz Institute of Physiology, Kiev, Ukraine) Novel antagonist of ASIC channels
- 13:00 20:00 Boat Trip on Dnipro River including guided tour to Mezhigirja(by invitation)