



ИНСТИТУТ  
ВЫСШЕЙ НЕРВНОЙ ДЕЯТЕЛЬНОСТИ  
И НЕЙРОФИЗИОЛОГИИ РАН



**MSSE-2019**

*MOSCOW INTERNATIONAL SYMPOSIUM*

# SEIZURES AND EPILEPSY: PRECLINICAL AND CLINICAL RESEARCH



**15-16 October, 2019**

**MOSCOW**

5A Butlerova St., Moscow 117485, Russia

# PROGRAM

*Tuesday, 15, October 2019*

## 9.30 Opening Lecture

*Comorbidity of epilepsy*  
**A. Guekht, F. Rider**

## 10.00 Plenary Lecture

*Critical neuroplasticity periods in temporal lobe epilepsy: fundamental and translational aspects*  
**N. Gulyaeva**

## 10.30 Mechanisms of seizure generation I

*Brain damage, behavioral impairments, and epileptogenesis on lithium-pilocarpine model of temporal lobe epilepsy in rats*  
**E. Suleymanova**  
*WAG/Rij rat model of absence epilepsy: somatosensory mechanisms of development*  
**E. Sitnikova, D. Tsvetaeva, K. Smirnov, V. Raevsky**

**11.30 Coffee Break**

## 12.00 Brain Connectivity in Epilepsy

*Imaging of temporal lobe epilepsy: evidence for network interaction with intracortical validation*  
**P. Ossenblok**  
*Interactions between cortico-thalamo-cortical and limbic epilepsy*  
**F. Onat**  
*High frequency oscillations and connectivity measures as neurophysiological biomarkers of the epileptogenic zone*  
**T. Fedele**  
*BESA pipeline to analyze interictal spikes in EEG*  
**M. Rusiniak**

**13.45 Coffee Break**

## 14.30 Plenary Lecture

*Audiogenic epilepsy: biological phenomenon or simply the model of seizure states?*  
**I. Poletaeva**

## 15.00 Mechanisms of seizure generation II

*Inherited audiogenic epilepsy: anatomy, neurochemistry and pathological considerations*  
**M. Glasova, E. Chernigovskaya, A. Kulikov, E. Nasluzova, N. Dorofeeva**

# PROGRAM

*Audiogenic kindling phenomenon in rats of Krushinsky-Molodkina strain*

**I. Fedotova**

*Effects of Intracerebral GDNF infusions on audiogenic seizures in Krushinsky-Molodkina rats*

**A. Revishchin, G. Solus, D. Pantelev, G. Pavlova**

*Cataleptic-like muscle tone changes in rats of Krushinsky-Molodkina strain*

**N. Surina**

*Wednesday, 16, October 2019*

## 9.30 Mechanisms of seizure generation III

*Pathway specific generalization of the spike and wave component of absence seizures*

**A. Lüttjohann**

*Dynamics of directional coupling underlying spike-wave discharges*

**I. Sysoev, M. Sysoeva, C. van Rijn, E. Sitnikova, A. Lüttjohann,**

**B. Bezruchko, G. van Luijtelaar**

*Mirror neurons and epilepsy: research opportunities*

**E. Karimova, N. Lebedeva, S. Burkitbaev, F. Rider, Yu. Solomatin,**

**A. Teplyshova**

*Changes in adult hippocampal neurogenesis in patients with epilepsy and in animal models*

**V. Aniol**

**11.30 Coffee break**

## 12.00 Epilepsy treatment

*What are the prospects for mGlu modulators to act as anti-epileptic drugs*

**G. van Luijtelaar**

*Pharmacological principles of epilepsy treatment*

**E. Russo**

*Neurophysiological evaluation in multiple hippocampal transections for intractable temporal lobe epilepsy*

**A. Kozlova, M. Korsakova, D. Pitskhelauri, E. Kudieva, P. Vlasov,**

**M. Kamenetskaya, B. Dombaanay**

*Genetic developmental and epileptic encephalopathies: from human to mouse and back*

**A. Sharkov**

*NGS-diagnostics in epilepsy*

**I. Kanivets**

## 14.30 Master class

*The capabilities of portable EEG systems eego in clinical research and epilepsy diagnostics*

**I. Brak**

# SPEAKERS

**Prof. Alla Guekht** - Vice-President of the International League Against Epilepsy, Moscow Research & Clinical Center for Neuropsychiatry, Russian National Research Medical University, Moscow, Russia

**Prof. Natalya Gulyaeva** - Institute of Higher Nervous Activity & Neurophysiology Russian Academy of Sciences, Moscow, Russia

**Dr. Elena Suleymanova** - Institute of Higher Nervous Activity & Neurophysiology Russian Academy of Sciences, Moscow, Russia

**Dr. Evgenia Sitnikova** - Institute of Higher Nervous Activity & Neurophysiology Russian Academy of Sciences, Moscow, Russia

**Dr. Pauly Ossenblok** - Technical University Eindhoven, Eindhoven, the Netherlands

**Prof. Filiz Onat** - Marmara University, Istanbul, Turkey

**Ass. Prof. Tommaso Fedele** - Institute of Cognitive Neuroscience Higher School of Economics, National Research University, Moscow, Russia (Switzerland)

**Dr. Mateusz Rusiniak** - BESA GmbH, Germany

**Dr. Inga Poletaeva** - Lomonosov Moscow State University, Moscow, Russia

**Dr. Margarita Glasova** - Sechenov Institute of Evolutionary Physiology and Biochemistry, St. Petersburg, Russia

**Dr. Irina Fedotova** - Lomonosov Moscow State University, Moscow, Russia

**Dr. Alexander Revishchin** - Institute of Gene Biology Russian Academy of Sciences, Moscow, Russia

# SPEAKERS

**Dr. Natalya Surina** - Lomonosov Moscow State University, Moscow, Russia

**Dr. Annika Lüttjohan** - University Clinic Münster, Physiological Institute I, Münster, Germany

**Ass. Prof. Ilya Sysoev** - Saratov State University, Saratov, Russia

**Dr. Ekaterine Karimova** - Institute of Higher Nervous Activity & Neurophysiology Russian Academy of Sciences, Moscow, Russia

**Dr. Victor Aniol** - Institute of Higher Nervous Activity & Neurophysiology Russian Academy of Sciences, Moscow, Russia

**Prof. Gilles van Luijtelaar** - Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behavior, Nijmegen, the Netherlands

**Prof. Emilio Russo** - University of Catanzaro, Catanzaro, Italy

**Dr. Antonina Koslova** - Burdenko Institute of Neurosurgery, Moscow, Russia

**Dr. Artem Sharkov** - Veltischev Research and Clinical Institute for Pediatrics of the Pirogov Russian National Research Medical University, Moscow, Russia

**Dr. Ilya Kanivets** - Genomed medical-genetic center, Moscow, Russia

**Dr. Ivan Brak** - R & D Company of Complex Solutions, LTD, Barnaul, Russia



# GENERAL INFORMATION

## ORGANIZER

Institute of Higher Nervous Activity and Neurophysiology  
Russian Academy of Sciences (IHNA & NPh RAS)

## VENUE

Institute of Higher Nervous Activity and Neurophysiology  
Russian Academy of Sciences, 5A Butlerova st., Moscow  
117485, Russia, <http://www.ihna.ru>

## CHAIR

Dr. Karine Sarkisova  
E-mail: [karine.online@yandex.ru](mailto:karine.online@yandex.ru)

## ORGANIZING COMMITTEE

Prof. Alexey Malyshev, Director of IHNA  
Prof. Pavel Balaban, Corr. Member of RAS  
Dr. Igor Bondar, Deputy Director of IHNA  
Dr. Vladimir Markevich, Deputy Director of IHNA  
Prof. Natalya Gulyaeva  
Prof. Vladimir Raevsky  
Dr. Evgenia Sitnikova  
Dr. Inna Midzyanovskaya

