Institute of Higher Nervous Activity and Neurophysiology RAS
Moscow Research and Clinical Center for Neuropsychiatry
Institute of theoretical and experimental biophysics RAS
Russian National Research Medical University n.a. Pirogov
Buyanov Moscow City Clinical Hospital

Supported by:
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"Genomed" medical and genetic center

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1th International Conference and School “Epilepsy: from bench to bedside”

December 12-13, 2020

Moscow

Conference Program

December 12
10:00 – 10:10
Opening of the conference (DSc, MD, Prof. Guekht A.B., DSc, Prof. Gulyaeva N. V.)

10:10-14:00
Session 1. Clinic, neurophysiology and epilepsy surgery

Chairmen: Sinkin M. V., Kaymovsky I.L., Fominykh V. V., Sharkov A. A.

1. Sinkin Mikhail Vladimirovich (PhD, Research Institute of Emergency Care)
   Brain mapping in epilepsy surgery
   The work is supported by the RFBR grant 18-29-02035

2. Olesya Grinenko (PhD, Mercy Health Saint Marys, College of Human Medicine at Michigan State University, Grand Rapids, Michigan)
   Epileptogenic Zone: history, definition and practical application in SEEG guided epilepsy surgery

3. Tommaso Fedele (PhD, Assistant professor, Institute of Cognitive Neuroscience, Higher School of Economics Moscow, Rome)
   High Frequency Oscillations in Epilepsy
   The work is supported by RFBR grant 20-015-00176

4. Burkitbayev S. E., Lebedeva N. N. (Moscow Research and Clinical Center for Neuropsychiatry)
   Epilepsy from the perspective of connectomics: fMRI study
   The work is supported by the RFBR grant 16-04-00910

5. Kaimovsky Igor Leopoldovich (PhD, Buyanov Moscow City Clinical Hospital) Rider Flora Kirillovna (Moscow Research and Clinical Center for Neuropsychiatry)
   Epilepsy and COVID-19

6. Nicola Speccio, Federico Vigevano (Ospedale Pediatrico Bambino Gesu), Shchederkina I. O., (Morozov Children's City Clinical Hospital), Reeder F. K., Guekht A. B. (Moscow Research and Clinical Center for Neuropsychiatry)
   Stroke with epileptic seizures in children

7. Fominyh Vera Vladimirovna (PhD, Buyanov Moscow City Clinical Hospital)
   Autoimmune epilepsy: from molecular basis to clinical syndrome

14:00-15:00
Break.
Online poster session and discussion of the young participants' presentations

15:00-18:00
Session 2. Genetics and epigenetics of epilepsy
Chairmen: Aniol V. A., Sharkov A. A.

1. Katja Kobow (PhD, Professor of Molecular Neuropathology, Universitätsklinikum Erlangen, Dept. of Neuropathology)
   Molecular classification of epilepsy-associated structural brain lesions

2. Aniol Victor A. (PhD, Institute of higher nervous activity and neurophysiology RAS)
   Modifications of histones in the brain of patients with pharmacoresistant temporal lobe epilepsy.
   The work was supported by the RFBR grant 16-04-01513

3. Denis Lal, (PhD, Assistant Professor, Department of Molecular Medicine in the Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Broad Institute of Harvard, Group Leader at the Cologne Center for Genomics, Cologne)
   New trends in epilepsy and genetics

4. Mikhail Skoblov (PhD, head of the laboratory of functional genomics at Research Centre for Medical Genetics)
   Functional analysis of nucleotide sequence variants in the diagnosis of genetic epilepsies

5. Ekaterina Antonovna Luchkina, (Laboratory of modeling and therapy of hereditary diseases of Institute of Gene Biology RAS, Marlin Biotech)
   Development of a gene therapy approach for the treatment of GNAO1 encephalopathy

December 13
10:00-14:00

Session 3. Modeling epilepsy in animals
Chairmen: Aniol V.A., Malkov A.E., Komoltsev I.G.

1. Sitnikova Evgeniya Yurievna (DSc, lead researcher, Institute of higher nervous activity and neurophysiology RAS)
   WAG/Rij rats - a genetic model of absense epilepsy
   The work is supported by RFBR grant 20-015-00176

2. Anton Malkov (PhD, Institute of theoretical and experimental biophysics RAS
   Relationship between convulsive activity and impaired glycolysis in the pathogenesis of epilepsy
   The work is supported by the RFBR grant 18-29-02035

3. Kichigina Valentina Fedorovna (DSc., Institute of theoretical and experimental biophysics RAS)
   The role of endocannabinoids in temporal lobe epilepsy

4. Aniol Victor A. (PhD, Institute of higher nervous activity and neurophysiology RAS)
   Changes in neurogenesis in the hippocampus of rodents after a single convulsive attack.
   The work is supported by the RFBR grant 16-04-00910

5. Elena Suleymanova (prof., PhD, Institute of higher nervous activity and neurophysiology RAS)
   Epileptic status and its consequences in experimental models of epilepsy in rats
   The work is supported by RFBR grant 20-015-00176

6. Karina Yurievna Sarkisova (DSc., Institute of higher nervous activity and neurophysiology RAS)
   Methyl-enriched diet of the mothers in the perinatal period suppresses the manifestation of genetic absence-epilepsy and comorbid depression in adult offspring
   The work is supported by the RFBR grant N 20-015-00327

14:00-15:00
Break.
Online poster session and discussion of the young participants' presentations

15:00-17:30
Evening session: Translational studies on epilepsy
Chairmen: Gulyaeva N. V., Komoltsev I. G., Sharkov A. A.

1. Natalia Gulyaeva (DSc, Prof., Institute of higher nervous activity and neurophysiology RAS)
   Stress and distant damage of the hippocampus in the pathogenesis of epilepsy
   The work is supported by RFBR grant 20-015-00176

2. Vadim Gnatovsky (MD, PhD, Neurophysiologist, Universitätsklinikum Bonn Klinik und Poliklinik für Epileptologie, Germany)
   Different EEG seizure patterns and ictogenic mechanisms (from animal models to human studies)

3. Artem Sharkov (Veltischev Research and Clinical Institute for Pediatrics of the Pirogov Russian National Research Medical University, "Genomed" medical and genetic center)
   Molecular diagnostics as the basis for selecting specific anticonvulsant therapy
   The work is supported by the RFBR grant 17-34-80219

4. Komoltsev Ilya Geraldovich (Institute of higher nervous activity and neurophysiology RAS, Moscow Research and Clinical Center for Neuropsychiatry)
   Early electrophysiological and pathomorphological changes in the acute period of traumatic brain injury: a translational study of the mechanisms of epileptogenesis
   The work is supported by RFBR grant 18-315-00146, 19-015-00258, 16-04-00855

17:30-17:40
Summary of the 1st online conference and school with international participation "Epilepsy: from bench to bedside”

School program

17:00-20:00
School for young epileptologists and neuroscientists: Young Epilepsy Section
Moderators: V. V. Fominykh, A. A. Sharkov, V.A. Aniol, A. E. Malkov, I. G. Komoltsev

17.00-17.10
Opening

17.10 -18.10
Clinical study of new antiepileptic drugs: programms and designs.
Ravil Niyazov

18.10 -19.10
PowerPoint: how to make a presentation.
Natalia Semina

19.10 -20.00
Principles of translational research.
Ilia Komoltsev