



COBRAIN
Scientific-Educational Center
for Fundamental Brain Research



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*COBRAIN Scientific-Educational Center for Fundamental Brain Research
Yerevan State Medical University named after Mkhitar Heratsi
International Stress and Behavior Society (ISBS)
Orbeli Institute of Physiology*

NEUROSCIENCE WEEK MAY 16-19, 2023

Final Program PART 1

**EU HORIZON 2020 COBRAIN Project Closing Conference
(May 16-17, 2023)**

**Buniatyan Lectures Series in Biochemistry
of the Nervous System (May 17, 2023)**

**The 29th International Annual ISBS
“Stress and Behavior” Neuroscience and Biological Psychiatry
Conference (May 18-19, 2023)**

**Orbeli Institute of Physiology “Psychophysiology Symposium”
(May 19, 2023)**



May 16-19, 2023, Yerevan, Armenia

NEUROSCIENCE WEEK VENUES

May 16-18, 2023 COBRAIN Center, Yerevan State Medical University after Mkhitar Heratsi, 1 Heratsi Str., Yerevan 0025, Armenia
May 19, 2023 L.A. Orbeli Institute of Physiology of Armenian National Academy of Sciences, 22 Orbeli Brothers Str., Yerevan 0028, Armenia
Secretariat: COBRAIN Center, Yerevan State Medical University, 0025, Yerevan, Armenia
Tel/Fax: +374 (10) 301014
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May 16, 2023 COBRAIN Project Closing Conference Venue: Nelly Khostikyan Auditorium (Blue Hall), YSMU

10.30-17.00 Registration open

11.00-11.30 WELCOMING ADDRESSES:

A. Muradyan, Rector, Yerevan State Medical University
Zh. Andreasyan, Minister of Education, Science, Culture and Sports of RA
A. Wiktorin, Ambassador of the European Union to Armenia
V. Richter, Ambassador Extraordinary and Plenipotentiary of Germany
P. Svensson, Ambassador Extraordinary and Plenipotentiary of Sweden

WELCOMING REMARKS: EXTERNAL ADVISORY BOARD MEMBERS

11.30-12.00 OUTCOMES OF COBRAIN PROJECT AND THEIR EXPECTED IMPACT ON RESEARCH, SOCIETY AND INDUSTRY. Speaker: K. Yenkovyan, COBRAIN Project Coordinator, COBRAIN Center Scientist-in-Chief, Yerevan State Medical University, Armenia
Co-speakers: L. Danielyan, Head of Laboratory of Cellular/Molecular Pharmacology at the Department of Clinical Pharmacology, Eberhard Karls University Tübingen, Germany, H. Nguyen, Head of Department of Human Genetics, Ruhr-University Bochum, Germany

12.00-12.30 GUIDED TOUR OF THE COBRAIN CENTER (by invitation only)

12.00-13.00 LUNCH BREAK

13.00-13.20 SHARING EARLY-STAGE RESEARCHERS' LONG-TERM TRAINING EXPERIENCE
K. Fereshetyan, Department of Biochemistry, COBRAIN Center, Yerevan State Medical University, Armenia, Co-speakers: E. Sahakyan, Department of Pharmacy, COBRAIN Center, G. Karapetyan COBRAIN Center, A. Khamperyan, COBRAIN Center, M. Mirumyan, Department of Biochemistry, COBRAIN Center, Yerevan State Medical University, Armenia

13.20 -13.30 ESTABLISHMENT OF KNOWLEDGE AND TECHNOLOGY TRANSFER OFFICE
M. Movsisyan, Department of Clinical Immunology and Allergology, COBRAIN Center, Yerevan State Medical University, Armenia

13.30-13.50 SCIENTIFIC DIRECTIONS OF COBRAIN CENTER K. Yenkovyan, COBRAIN Project Coordinator, COBRAIN Center Scientist-in-Chief, Yerevan State Medical University, Armenia

- 13.50-14.10 THE SYNERGY OF B-AMYLOID 1-42 AND OXIDATIVE STRESS IN THE DEVELOPMENT OF ALZHEIMER'S DISEASE-LIKE NEURODEGENERATION OF HIPPOCAMPAL CELLS** H. Harutyunyan, Neuroscience Laboratory of COBRAIN Center, Yerevan State Medical University, Armenia
- 14.10-14.30 PERINATAL EXPOSURE TO VALPROATE IN RODENTS AND AUTISM SPECTRUM DISORDER** K. Fereshetyan, Department of Biochemistry, Neuroscience Laboratory of COBRAIN Center, Yerevan State Medical University, Armenia
- 14.30-14.50 DEVELOPING EXPERIMENTAL MODELS OF M-TOROPATHIES: TRANSLATIONAL INSIGHTS FROM ZEBRAFISH.** A. Grigoryan, Pathophysiology Department, Neuroscience Laboratory of COBRAIN Center, Yerevan State Medical University, Yerevan, Armenia
- 14.50-15.10 COFFEE BREAK**
- 15.10-15.30 RISK FACTORS OF AUTISM SPECTRUM DISORDER** M. Mkhitarian, Department of Human Anatomy, Neuroscience Laboratory of COBRAIN Center, Yerevan State Medical University, Yerevan, Armenia
- 15.30-15.50 KINETICS OF ANTI-SARS-COV2 ANTIBODY RESPONSE IN COVID-19 CONVALESCENT PATIENTS** M. Movsisyan, Department of Clinical Immunology and Allergology, Neuroscience Laboratory of COBRAIN Center, Yerevan State Medical University, Armenia
- 15.50-16.10 COGNITIVE DISORDERS AFTER COVID-19** Y. Hovhannisyan, Department of Neurology, Neuroscience Laboratory of COBRAIN Center, Yerevan State Medical University, Armenia
- 16.10-16.30 ASSESSMENT OF SMELL AND TASTE DISTURBANCES AMONG COVID-19 CONVALESCENT PATIENTS** K. Melkumyan, Department of Physiology, COBRAIN Center, Yerevan State Medical University, Armenia
- 16.30-17.00 "THE BEAUTY OF THE BRAIN" EXHIBITION UNDER THE "ART AND SCIENCE" INITIATIVE (LABORATORY BUILDING FOYER)**
- 17.00- 17.10 WRAP-UP**
- 19.00 COBRAIN WELCOMING RECEPTION (by invitation only)**

May 17, 2023 Buniatyan lectures in Biochemistry of the Nervous System

Venue: Nelly Khostikyan Auditorium (Blue Hall), YSMU

- 9.30-10.00** Registration
- 10.00-10.20 WELCOMING REMARKS**
- 10.20-11.00 SCIENTIFIC PATHWAY OF ACADEMICIAN HRACHYA BUNIATYAN** G. Buniatyan

- 11.00-11.40 EMPLOYING CELL-BASED THERAPIES IN CNS DISORDERS** L. Danielyan, Laboratory of Cellular/Molecular Pharmacology, Department of Clinical Pharmacology, EKUT, Germany
- 11.40-12.10 TRANSLATIONAL GENETICS: FROM GENE TO THERAPY** H. Nguyen, Ruhr-Universität Bochum, Germany
- 12.10-12.40 DIGITAL MOBILITY ASSESSMENT IN NEUROLOGICAL DISEASES** S. Jäger, M Fischer-Bosch-Institute of Clinical Pharmacology, Stuttgart, Department of Clinical Pharmacology, University of Tübingen, Germany
- 12.40-13.30 LUNCH BREAK**
- 13.30-13.50 BRAIN REWARD SYSTEM AND ITS ROLE IN OBESITY PATHOGENESIS** H. Harutyunyan, Department of Biochemistry, Neuroscience Laboratory of COBRAIN Center, Yerevan State Medical University, Armenia
- 13.50-14.10 ALPHA2-ADRENOBLOCKERS REGULATE DEVELOPMENT OF OXIDATIVE STRESS AND COGNITIVE BEHAVIOUR OF RATS UNDER CHRONIC ACOUSTIC STRESS CONDITIONS** A. Manukyan, Department of Medical Chemistry, Yerevan State Medical University, Armenia
- 14.10-14.30 BREAK**
- 14.30-18.00 NETWORKING NEUROTALKS** (all interested scientists and scientific groups active in neuroscience are welcome to present and share their scientific research directions)



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NEUROSCIENCE WEEK

Final Program PART 2

**The 29th International Annual ISBS
“Stress and Behavior” Neuroscience and Biological Psychiatry
Conference (May 18-19, 2023)**

**Symposium of L.A. Orbeli Institute of Physiology
(May 19, 2023)**

**EU HORIZON 2020 COBRAIN Project Closing Conference
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**Buniatyan Lectures Series in Biochemistry
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May 16-19, 2023, Yerevan, Armenia

NEUROSCIENCE WEEK VENUES

May 18, 2023 – COBRAIN Center, Yerevan State Medical University after Mkhitar Heratsi. 1 Heratsi Str., Yerevan 0025, Armenia

May 19, 2023 - L.A. Orbeli Institute of Physiology of Armenian National Academy of Sciences. 22 Orbeli Brothers Str., Yerevan 0028, Armenia

CONTACTING INFORMATION:

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Web site: www.stressandbehavior.com

E-mail: isbs.congress@gmail.com

May 18, 2023 ISBS Conference

Venue: Nelly Khostikyan Auditorium (Blue Hall), YSMU

09.00-18.00 Registration open

09.00-09.10 CONFERENCE WELCOMING ADDRESSES: Prof. AV Kalueff, ISBS President

09.10-10.40 PLENARY LECTURES (30 MIN)

09.10-09.40 PLENARY LECTURE 1. CALCIUM AND METABOLIC ACTIVITY IN CORTICAL ASTROCYTES DURING LOCOMOTION IN MICE. AV Semyanov. Jiaying University College of Medicine, Jiaying, China; Institute of Bioorganic Chemistry, Moscow, Russia

9.40-10.10 PLENARY LECTURE 2. NEUROLOGICAL DISORDERS AFTER ACUTE SEVERE ETHANOL POISONING IN RATS. TN Savateeva-Lyubimova, AG Aleksandrov, S. Kazakova. Smorodintsev Research institute of influenza of the Ministry of Health, St. Petersburg, Russia

10.10-10.40 PLENARY LECTURE 3. MOLECULAR CORRELATES OF DEPRESSIVE -LIKE STATE IN MOUSE MODELS OF EMOTIONAL STRESS: IMPACT OF AGE, GENETIC FACTORS AND ANTI-OXIDANT INTERVENTIONS. T Strekalova, Maastricht University, Maastricht, Netherlands

10.40-11.00 Coffee break

11.00-13.00 PASTUKHOV-ZUKOVSKA SYMPOSIUM
Chairs: AV Semyanov, T Strekalova

11.00-11.15 INTRODUCTION. AV Kalueff

11.15-13.00 CONFERENCE TALKS (15 MIN)

INHIBITION OF AQUAPORIN-4 AGGRAVATES NIGROSTRIATAL ALPHA-SYNUCLEIN PATHOLOGY AND NEURODEGENERATION IN A RAT MODEL OF PARKINSON'S DISEASE. KV Lapshina, MV Khanina, MA Guzeev, IV Ekimova, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia

EFFECT OF POINT MUTATIONS IN *DISC1* GENE ON MOUSE STRESS RESPONSE. KV Smirnova, EV Nehoroshev, ND Chizhova, TG Amstislavskaya, Scientific Research Institute of Neurosciences and Medicine, Novosibirsk State University, Novosibirsk, Russia

LONG-TERM CONSEQUENCES IN RAT OFFSPRING WITH EXPERIMENTAL PRE-ECLAMPSIA: POSSIBILITIES OF PHARMACOLOGICAL CORRECTION WITH GABA DERIVATIVES. VN Perfilova, EA Muzyko, IN Tyurenkov, Volgograd State Medical University, Volgograd, Russia

EFFECTS OF HYDROPONIC TEUCRIUM POLIUM IN AN AMYLOID B-INDUCED ALZHEIMER-LIKE RAT MODEL. KV Simonyan, LP Manukyan, LE Hambarzumyan, LV Darbinyan, VA Chavushyan, Orbeli Institute of Physiology NAS, Yerevan, Armenia

COGNITIVE AND BEHAVIORAL DYSFUNCTION IN LEPTIN-RESISTANT MICE. VA Prikhodko, TM Matuzok, SV Okovityi. St. Petersburg State Chemical and Pharmaceutical University, St. Petersburg, Russia

LOCOMOTION DIFFERENTLY AFFECTS MITOCHONDRIAL RESPIRATION AND H₂O₂ PRODUCTION IN ASTROCYTES AND NEURONS. K Morozova, A Tiaglik, A Fedotova, M Shestopalova, A Zalygin, V Oleinikov, D Bilan, N Brazhe, A Semyanov. Moscow State University, Faculty of Biology, Institute of Bioorganic Chemistry, Moscow, Russia, Department of Physiology, Jiaying University College of Medicine, Jiaying, China

ACUTE AND CHRONIC BEHAVIORAL EFFECTS OF GBR 12909, A SELECTIVE DOPAMINE UPTAKE INHIBITOR, IN ADULT ZEBRAFISH. TO Kolesnikova, YuA Viktorova, MM Kotova and AV Kalueff, Sirius University of Science and Technology, Sirius Federal Territory, Institute of Translational Biomedicine, St. Petersburg, Russia

GENERAL DISCUSSION

13.00-14.00 Lunch break

14.00-14.25 HOW TO ACCELERATE THE SPEED AND INCREASE THE QUALITY OF PRE-CLINICAL STUDY, FOLLOWING STANDARD EXTERNAL ENVIRONMENTAL FACTORS FOR ANIMALS. L Bachdasarian, R Bulthuis, A Sargsyan, Metris BV, Hoofddorp, Netherlands; L.A. Orbeli Institute of Physiology NAS, Yerevan, Armenia

14.25-18.00 LAPIN TRANSLATIONAL NEUROSCIENCE SYMPOSIUM

Chairs: AV Kalueff, KB Yenkoyan

14.25-14.30 INTRODUCTION. AV Kalueff

14.30-16.00 CONFERENCE TALKS (15 MIN)

EFFECTS OF OREXIN AND GHRELIN ON HYPOTHALAMIC SELF-STIMULATION IN RATS FOLLOWING CORTICOLIBERIN RECEPTORS BLOCKADE. PD Shabanov, VV Lukashkova, AA Lebedev, Institute of Experimental Medicine, St. Petersburg, Russia

BEHAVIORAL EFFECTS OF THE FORCED SWIMMING-INDUCED STRESS AND GLUCOCORTICIDS IN MICE IN THE BWP TEST: PILOT STUDIES. IO Mokoseev, DV Krvachenko, NA Salimova, AV Zhdanov, SL Khatsko, AV Kalueff, Ural Federal University, Ekaterinburg, Russia

INFLUENCE OF RESTRAINT STRESS AND ELECTROMAGNETIC RADIATION OF INDUSTRIAL FREQUENCY ON THE ANXIETY-LIKE BEHAVIOR OF THE RATS IN THE OPEN FIELD TEST. AM Kadukova, Institute of Radiobiology NASB, Gomel, Belarus

A NEW METHOD OF DRUG ADMINISTRATION THROUGH THE NOSTRILS OF ZEBRAFISH. DS Galstyan, TO Kolesnikova, AV Kalueff, Institute of Translational Biomedicine, St. Petersburg State University, Institute of Experimental Medicine, Almazov National Medical Research Centre, Ministry of Healthcare, Granov Russian Scientific Center for Radiology and Surgical Technologies, Ministry of Healthcare, St. Petersburg, Russia

INFLUENCE OF THE *DAT* GENE KNOCKOUT ON EARLY RATS DEVELOPMENT. NS Pestereva, DS Traktirov, IR Nazarov, ZS Fisenko, MN Karpenko, VM Klimenko. Institute of Experimental Medicine, Peter the Great St. Petersburg Polytechnic University, Institute of Translation Biomedicine, St. Petersburg State University, St. Petersburg State University, St. Petersburg, Russia

NEW TRANSFORMER MAZE TO EXPLORE DIFFERENT SPATIAL NAVIGATION TASKS IN RODENTS. EV Filatova, GE Gromova, VA Zavyalov, AY Egorov, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg State University, St. Petersburg, Russia

16.00-17.40 ONLINE LECTURES (20 min):

16.00-16.20 ADRGL3 AND IMPULSE CONTROL DISORDERS: ZEBRAFISH AS A MODEL FOR DRUG DISCOVERY. M Parker, University of Surrey, Surrey, UK

16.20-16.40 ZEBRAFISH MODELS IN TRANSLATIONAL NEUROSCIENCE RESEARCH: EMPHASIS ON STRESS-RELATED RESPONSES. DB Rosemberg, Department of Biochemistry and Molecular Biology, Natural and Exact Sciences Center, Federal University of Santa Maria, RS, Brazil

16.40-17.00 LOOKING FOR SIMILARITIES IN TRANSCRIPTOMIC FINGERTIPS OF AFFECTIVE DISORDERS IN DIFFERENT VERTEBRATES. KA Demin, AD Shevlyakov, TO Kolesnikova, AV Kalueff, Institute of Translational Biomedicine, St. Petersburg State University, Institute of Experimental Medicine, Almazov National Medical Research Centre, Ministry of Healthcare of Russian Federation, St. Petersburg, Neuroscience Program, Sirius University of Science and Technology, Sirius Federal Territory, Russia

17.00-17.20 EMERGING PHARMACOLOGY OF TRACE AMINE-ASSOCIATED RECEPTORS (TAARS). RR Gainetdinov, Institute of Translational Biomedicine, St. Petersburg State University, St. Petersburg, Russia

17.20-18.00 PLENARY LECTURES

17.20-17.40 PLENARY LECTURE 4: INTEGRATIVE MECHANISMS OF POSTURE AND LOCOMOTOR CONTROL IN NORMAL AND PATHOLOGICAL CONDITIONS. PE Musienko, Sirius University of Science and Technology, Sirius Federal Territory, Institute of Translational Biomedicine, St. Petersburg State University, Russia

17.40-18.00 PLENARY LECTURE 5: THE 'GOLD' FISH IN NEUROSCIENCE RESEARCH. AV Kalueff, Neurobiology Program, Sirius University of Science and Technology, Sirius Federal Territory, Institute of Translational Biomedicine, St. Petersburg State University, Institute of Experimental Medicine, Almazov Medical Research Center, St. Petersburg, Scientific Research Institute of Neuroscience and Medicine, Novosibirsk, Granov Scientific Research Center of Radiology and Surgical Technologies, St.

Petersburg, Ural Federal University, Yekaterinburg, Russia; Neuroscience Laboratory, COBRAIN Center, M Heratsi Yerevan State Medical University, Yerevan, Armenia.

18.00-19.00 ISBS Welcoming reception

May 19, 2023 Orbeli Institute of Physiology Psychophysiology Symposium (Main Conference Hall)

Venue: 22 Orbeli Brothers Str., Yerevan 0028, Armenia

09.00-17.00 Registration open

Prof. NM Ayvazyan, Institute Director

10.15-10.45 NEUROPHYSIOLOGY TALK: MORPHOFUNCTIONAL ASTROCYTE REMODELLING IN AGING. A Popov, N Brazhe, K Morozova, K Yashin, M Bychkov, O Nosova, O Sutyagina, A Brazhe, E Parshina, L Li, I Medyanik, DE Korzhevskii, Z Shenkarev, E Lyukmanova, A Verkhratsky, A Semyanov, Jiaxing University College of Medicine, Zhejiang Pro, Jiaxing China; Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow State University, Moscow, Sechenov First Moscow State Medical University, Privolzhskiy Research Medical University, Nizhny Novgorod, Institute of Experimental Medicine, St. Petersburg, St. Petersburg, Russia; Medicine and Health, The University of Manchester, Manchester, UK; Achucarro Center for Neuroscience, IKERBASQUE, Basque Foundation for Science, Bilbao, University of the Basque Country UPV/EHU and CIBERNED, Leioa, Spain

10.45-15.40 ORBELI INSTITUTE OF PHYSIOLOGY PSYCHOPHYSIOLOGY SYMPOSIUM
Chairs: NM Ayvazyan, PE Musienko, AV Semyanov, AV Kalueff

10.45-11.30 SYMPOSIAL TALKS (15 MIN)

SFCO POSITION AND VIBRATION SENSORS AS A HIGHLY SENSITIVE TOOL FOR BEHAVIORAL PHYSIOLOGY RESEARCH. AS Khachunts, SG Gevorgyan, AA Tumanian, AR Sargsyan, GS Gevorgyan, BA Khachunts, L.A. Orbeli Institute of Physiology NAS, Yerevan State University, Yerevan, Armenia

COGNITIVE FEATURES OF ASSESSING STUDENTS' ACADEMIC EMOTIONS IN THE CONTEXT OF COVID-19. NA Sahakyan, EA Avetisyan, AA Petrosyan, NE Tadevosyan, SA Shogheryan, Armenian State Pedagogical University after Abovyan, L.A. Orbeli Institute of Physiology NAS, Yerevan, Armenia

NEUROPHYSIOLOGICAL MECHANISMS OF THE IMPACT OF SPELEOCLIMATE ON THE BODY. VA Semiletova, Voronezh State Medical University named after NN Burdenko, Voronezh, Russia

11.30-11.45 BOOK INTRODUCTION: A TALE OF THREE FISH. WRITING A POPULAR SCIENTIFIC BOOK ON ZEBRAFISH NEUROSCIENCE FOR KIDS. AV Kalueff

11.45-12.15 Coffee break

12.15-12.45 PLENARY LECTURES (20 MIN)

PLENARY ONLINE LECTURE 6. A METHOD FOR ASSESSING THE REPRESENTATIVENESS OF QUESTIONNAIRES FOR STRESSORS. Ph. Fauquet-Alekhine, JAK Erskine, Group INTRA Robotics, France; SEBE-Lab Behavioural and Psychological Science, LSE, UK

PLENARY LECTURE 7. MEMORY IS OUR LORD. EVERYTHING NEW IS WELL-FORGOTTEN OLD. AGHAJANYAN EFFECT “PREVIOUSLY UNKNOWN SIGNALS OF DYING”. A Tathevossyan, S Kochinyan, Yerevan State Medical University, Yerevan, Armenia

GENERAL DISCUSSION

13.00-14.00 Lunch break

14.00-15.00 SYMPOSIAL TALKS (15 MIN)

A NOVEL METHOD FOR REAL-TIME EVENT DETECTION IN THE EEG BASED ON FRAGMENTARY DECOMPOSITION. A Sargsyan, N Tadevosyan, D Melkonian, Orbeli Institute of Physiology, Yerevan, Armenia; KaosKey Pty. Ltd., Sydney, Australia

DEVELOPMENT OF ANALGESIC AND ANTI-INFLAMMATORY COMBINED PREPARATION BASED ON BLUNT NOSED VIPER VENOM AND OREGANO ESSENTIAL OIL. A Darbinyan, L Parseghyan, A Moghrovyan, M Babajanyan, A Voskanyan, Laboratory of purification, certification and standardization of physiologically active substances, LA Orbeli Institute of Physiology NAS, Yerevan, Armenia

INNOVATIVE INTEGRATED MODEL OF HEALTH AND SOCIAL SERVICES FOR PEOPLE WITH MENTAL DISEASES AT CENTER FOR MENTAL HEALTH-ROUSSE, BULGARIA. G Hayredin, Center for Mental Health-Rousse, Angel Kanchev University of Rousse, Rousse, Bulgaria

PSYCHOLOGY OF INDIVIDUAL DIFFERENCES IN SPATIAL ABILITIES OF STUDENTS OF VARIOUS PROFESSIONAL DIRECTIONS. ZR Takhirova, VI Ismatullina, TV Adamovich, AV Kazantseva, RF Enikeeva, E Harisova, A Tukumbetova, EL Soldatova, EK Khusnutdinova, SB Malykh, Ufa University of Science and Technology, Institute of Biochemistry and Genetics, Ufa Federal Research Centre RAS, Ufa, Ural Federal University, Ekaterinburg, Psychological Institute RAE, Moscow, St. Petersburg State University, St. Petersburg, Russian

15.00-15.20 ONLINE TALK (20 min):

EVOLUTION WITH NEURONAL NETWORKS AND INTERNET INTEGRATION IN THE NATURE. M Koshiba, Yamaguchi University, Tohoku University, Yamaguchi, Saitama Medical University, Moroyama, Saitama, Japan

15.20-18.00 JOINT CONFERENCE POSTER SESSION

STUDY OF THE EFFECT OF BACTERIAL MELANIN IN THE ROTENONE MODEL OF PARKINSON'S DISEASE. MH Danielyan, KA Nebogova, VP Khachatryan, OH Nazaryan, ZA Avetisyan, KV Karapetyan. L.A. Orbeli Institute of Physiology NAS, Yerevan, Armenia

GLUTAMATERGIC TRANSMISSION IN THE HIPPOCAMPUS OF AGING KM RATS. EP Aleksandrova, AA Kulikov, EV Chernigovskaya, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia

DISSOCIATION BETWEEN NEURONAL AND ASTROCYTIC CALCIUM ACTIVITY IN RESPONSE TO LOCOMOTION IN MICE. A Fedotova, A Brazhe, M Doronin, D Toptunov, E Pryazhnikov, L Khiroug, A Verkhatsky, AV Semyanov, Moscow State University, Institute of Bioorganic Chemistry RAS, Sechenov First Moscow State Medical University, Moscow, Russia; Jiaying University College of Medicine, Zhejiang Pro, Jiaying, China Medical University, Shenyang China; Neurotar, Helsinki, Finland; Faculty of Biology, Medicine and Health, The University of Manchester, Manchester, UK; Achucarro Centre for Neuroscience, Bilbao, Spain; Department of Forensic Analytical Toxicology, School of Forensic Medicine, Department of Stem Cell Biology, State Research Institute Centre for Innovative Medicine, Vilnius, Lithuania

ASTROCYTE DYSFUNCTION IN KRUSHINSKY-MOLODKINA RATS GENETICALLY PRONE TO AUDIOGENIC EPILEPSY. YS Grigorieva, AA Naumova, SD Nikolaeva, MV Glazova, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia

ASSESSMENT OF PSYCHOLOGICAL AND PSYCHOPHYSIOLOGICAL STATE IN PARTICIPANTS OF THE ARTSAKH WAR. AA Sahakyan, NE Tadevosyan, HG Galstyan, LV Vahradyan, Artsakh State University, Stepanakert, Artsakh, L.A. Orbeli Institute of Physiology NAS, Yerevan, Armenia

DYNAMICS OF HRV SPECTRAL PARAMETERS DURING PRESENTATION OF SMOKING-RELATED VR CONTENT IN NON-SMOKERS AND SMOKERS. AA Tumanian, NE Tadevosyan, BA Khachunts, EA Khachatryan, AS Khachunts, L.A. Orbeli Institute of Physiology NAS, Yerevan State University, Yerevan, Armenia

BIOINFORMATICS-BASED ANALYSES OF RODENT SELF-GROOMING BEHAVIOR AND THE EMERGING COMPLEXITY OF ITS MOLECULAR PATHWAYS. AN Ikrin, AM Moskalenko, RR Mukhamadeev, TO Kolesnikova, AV Kalueff, Sirius University of Science and Technology, Sirius Federal Territory, Russia

PROCOGNITIVE EFFECT OF MEDIUM-CHAIN TRIGLYCERIDE SUPPLEMENTATION IS ASSOCIATED WITH ALTERED CORTICAL GLUTAMATERGIC GENE EXPRESSION AND GUT MICROBIOTA COMPOSITION. EA Kim, EA Shirokov, VA Nikitina, AP Schwarz, DU Krytskaya, NA Arseniev, IN Abdurasulova, VM Klimenko, KP Shcherbakova, AN Trofimov, Institute of Experimental Medicine, St. Petersburg State Chemical Pharmaceutical University, Peter the Great St. Petersburg Polytechnic University, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia

EFFECTS OF LEVOTHYROXINE ON THYROIDECTOMIZED RATS: BEHAVIORAL STUDIES. LV Darbinyan, LE Hambarzumyan, LP Manukyan, LG Avetisyan, VH Sarkisian, KV Simonyan. L.A. Orbeli Institute of Physiology NAS, Yerevan, Armenia

DYNAMICS OF NEURODEGENERATION IN THE HIPPOCAMPUS OF KRUSHINSKY-MOLODKINA RATS CORRELATES WITH THE PROGRESSION OF LIMBIC SEIZURES. AA Kulikov, AA Naumova, AP Ivlev, MV Glazova, EV Chernigovskaya, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia

AGING AFFECTS GABA TRANSMISSION IN THE HIPPOCAMPUS OF RATS GENETICALLY PRONE TO AUDIOGENIC EPILEPSY. AA Naumova, AP Ivlev, AA Usatykh, EV Chernigovskaya, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia

EFFECT OF DERIVATIVES OF NEUROACTIVE AMINO ACIDS ON RESPIRATORY FUNCTIONAL CHANGES IN THE CARDIAC MITOCHONDRIA OF STRESSED ANIMALS. VN Perfilova, MV Kustova, II Prokofiev, IN Tyurenkov, Volgograd State Medical University, Volgograd, Russia

EVALUATION OF THE IMPACT OF MUSIC OF VARIOUS GENRES UNDER INFORMATION LOADS ON THE FUNCTIONAL STATE OF THE BRAIN OF STUDENTS OF DIFFERENT SPECIALIZATIONS. EA Avetisyan, AA Petrosyan, SA Shogheryan, LG Avanesyan. NA Sahakyan, VH Sarkisian, L. A.Orbeli Institute of Physiology NAS, Yerevan, Armenia

MEDIUM-CHAIN TRIGLYCERIDE SUPPLEMENTATION INDUCES ACUTE CHANGES IN GENE EXPRESSION, MONOAMINE LEVELS IN THE BRAIN, AND CYTOKINE LEVELS IN BLOOD OF MALE WISTAR RATS. VA Nikitina, AP Schwarz, DS Traktirov, SA Apryatin, MN Karpenko, DU Krytskaya, VM Klimenko, KP Shcherbakova, AN Trofimov, Institute of Experimental Medicine, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia

HIGH-FRUCTOSE DIET-INDUCED METABOLIC STRESS: VASCULAR AND NEURONAL PARAMETERS OF RAT BRAIN DYSFUNCTION. LM Sukiasyan, VA Chavushyan, Yerevan State Medical University After M. Heratsi, Orbeli Institute of Physiology NAS, Yerevan, Armenia

IDENTIFICATION OF KEY MOLECULAR PATHWAYS IN EPILEPSY PATHOPHYSIOLOGY BY BIOINFORMATICS APPROACHES. AD Shevlyakov, TO Kolesnikova, KA Demin, AV Kalueff, Sirius University of Science and Technology, Sirius Federal Territory, St. Petersburg State University, Almazov National Medical Research Centre, St. Petersburg, Russia

EFFECTS OF ANTIHISTAMINES IN ADULT ZEBRAFISH IN THE NOVEL TANK TEST. MA Gorbunova, SL Khatsko, AV Zhdanov, AV Kalueff, Ural Federal University, Yekaterinburg, Russia

ACUTE AND DELAYED EFFECTS OF NEONATAL IL-1 β AND LPS ADMINISTRATION ON NEUROPLASTICITY GENE EXPRESSION: A COMPARATIVE STUDY IN RATS. EA Shirokov, EA Kim, VA Nikitina, AP Schwarz, OE Zubareva, IN Abdurasulova, VM Klimenko, AN Trofimov, FSBSI Institute of Experimental Medicine, Peter the Great St. Petersburg Polytechnic University, St. Petersburg Chemical and Pharmaceutical University, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia

SINGLE AND PROLONGED EFFECT OF AUDIOVISUAL STIMULATION ON COGNITIVE AND AUTONOMIC PROCESSES. NE Tadevosyan, BB Forghan, AS Khachunts, AA Tumanian, L.A. Orbeli Institute of Physiology NAS, Yerevan, Armenia

BEHAVIORAL ASSESSMENT OF THE CHRONIC EFFECTS OF CIPROFLOXACIN ON ZEBRAFISH. DD Ashkinova, DS Galstyan, AV Kalueff, Institute of Translational Biomedicine, St. Petersburg State University, Institute of Experimental Medicine, Almazov National Medical Research Centre, Ministry of Healthcare, Granov Russian Scientific Center for Radiology and Surgical Technologies, Ministry of Healthcare, St. Petersburg, Russia

INTERACTION BETWEEN THE FALLOPIAN TUBES AND THEIR INFLUENCE ON ELECTRICAL ACTIVITY OF THE UTERINE CORPUS IN RATS. QV Kazaryan, NG Hunanyan, AV Mkrtychyan, TA Piliposyan, RG Chibukhchyan, YY Trofimova, L.A. Orbeli Institute of Physiology NAS, Yerevan, Armenia

USING FAST-SCAN CYCLIC VOLTAMMETRY FOR DOPAMINE RELEASE DETECTION IN ZEBRAFISH BRAIN IN VIVO. YuA Viktorova, TO Kolesnikova, VP Grinevich, VP Grinevich, EA Budygin, AV Kalueff, Neurobiology Department, Sirius University of Science and Technology, Sirius Federal Territory, Russia

EFFECTS OF MONOTREPENOID DIOL (PROTTREMINE) ON BEHAVIOR OF ZEBRAFISH IN THE MPTP-INDUCED MODEL OF PARKINSON'S DISEASE. EA Timofeeva, AA Bashirzade, OV

Ardashov, KP Volcho, NF Salakhutdinov, AV Kalueff, TG Amstislavskaya, Novosibirsk State University, Scientific Research Institute of Neurosciences and Medicine, N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry, Novosibirsk, Russia

REPLICATION STUDY OF GWAS META-ANALYSIS OF COGNITIVE TRAITS IN THE VOLGA-URAL REGION OF EURASIA. A Kazantseva, R Enikeeva, Y Davydova, Z Takhirova, R Mustafin, M Lobaskova, S Malykh, E Khusnutdinova. Institute of Biochemistry and Genetics, Ufa Federal Research Centre RAS, Ufa University of Science and Technology, Bashkir State Medical University, Ufa; Psychological Institute RAE, Department of Psychology, Lomonosov Moscow State University, Moscow, Russia

ANALYSIS OF THE ASSOCIATION OF POLYMORPHIC VARIANTS OF CANDIDATE GENES FOR MATHEMATICAL ANXIETY WITH INDICATORS OF BRAIN ELECTRICAL ACTIVITY. RF Enikeeva, AV Kazantseva, YuD Davydova, RN Mustafin, MM Lobaskova, IM Zakharov, SB Malykh, EK Khusnutdinova, Institute of Biochemistry and Genetics, Bashkir State Medical University, Bashkir State University, Ufa, Psychological Institute RAE, Moscow, Russia

ONLINE POSTER: THE IMPACT OF EXPOSURE TO NATURAL ENVIRONMENT FILMS AND STATE BODY APPRECIATION. N Jarasunaite, Psychology and Criminology Course, School of Psychology and Sport Science, Anglia Ruskin University Cambridge, Cambridge, UK.

ONLINE POSTER: EFFECT OF AZITHROMYCIN ON THE STATE OF EXPRESSION OF TLR4-SIGNALING GENES IN THE NUCLEUS ACCUMBENS THE RAT BRAIN DURING OF LONG-TERM ALCOHOL WITHDRAWAL. DD Sukhanova, MI Airapetov, SO Eresko, NM Matveev, AA Shchukina, PD Ignatova, AA Mikhailova, DA Ganshina, GP Kosyakova, AA Lebedev, ER Bychkov, PD Shabanov, Department of Neuropharmacology, Institute of Experimental Medicine, St. Petersburg, Russia

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