

The International Stress and Behavior Society (ISBS)
Institute of Experimental Medicine (IEM)
Institute of Translational Biomedicine, St. Petersburg State University
The Russian Society for Biopsychiatry (RSBP)

Program and Proceedings

27th Multidisciplinary International
Neuroscience and Biological Psychiatry Conference
“Stress and Behavior”
JUBILEE SYMPOSIUM DEDICATED TO THE 130th ANNIVERSARY
OF THE INSTITUTE OF EXPERIMENTAL MEDICINE



St. Petersburg, Russia
September 16-18, 2020

- 17.20-17.35 REVERSE BEHAVIORAL PATTERN OF DAT-KO RATS UNDER PROGRESSIVE RATIO SCHEDULE OF REINFORCEMENT.** AA Savchenko, RR Gainetdinov and IM Sukhanov, Valdman Institute of Pharmacology, Pavlov First St. Petersburg State Medical University, Institute of Translational Biomedicine, St. Petersburg State University, St. Petersburg, Russia
- 17.35-17.50 BEHAVIORAL CHANGES IN THE DOPAMINE TRANSPORTER (DAT) HETEROZYGOTE RATS.** AR Gainetdinov, ZR Khismatullin, Department of Biology, Bashkir State University, Republic of Bashkortostan, Ufa, Russia
- 17.50-18.05 INVESTIGATION OF THE PHYSIOLOGICAL FUNCTIONS OF TRACE AMINE-ASSOCIATED RECEPTOR 9 (TAAR9).** RZ Murtazina, SR Kuvarzin, IS Zhukov, EV Efimova, OM Korenkova, NV Alenina, RR Gainetdinov, Institute of Translational Biomedicine, St. Petersburg State University, St. Petersburg, Russia, Max Delbrück Center for Molecular Medicine, Berlin, Germany
- 18.05-18.20 INTESTINAL MICROBIOTA AND MENTAL HEALTH. CAN PROBIOTICS HELP? IN** Abdurasulova, VM Klimenko, Pavlov Department of Physiology, Institute of Experimental Medicine, St. Petersburg, Russia
- 18.20-18.35 KINETIC ANALYSIS OF PHASIC DOPAMINE INCREASES IN THE RAT N. ACCUMBENS CORE AND SHELL CHANGING UNDER THE ACUTE INFLUENCE OF AMYLOID B 25-35.** V Mukhin, V Sizov, K Pavlov, I Borovets, VM Klimenko, Pavlov Department of Physiology, Institute of Experimental Medicine, St. Petersburg, Russia
- 18.35-18.50 THE DE RITIS RATIO AS A MARKER OF CATABOLIC AND ANABOLIC REACTIONS IN HYPERACTIVITY AND OBESITY.** SA Apyatin, MV Bolshakova, AL Manasyan, EK Turkeeva, VM Klimenko, Pavlov Department of Physiology, Institute of Experimental Medicine, St. Petersburg, Russia
- 18.50-19.05 THE INFLUENCE OF TREADMILL SPEED ON DIFFERENT LOCOMOTOR MODES OF DECEREBRATE CAT.** V Lyakhovetskii, N Merkulieva, O Gorskii, P Musienko, Pavlov Institute of Physiology RAS, Russian Scientific Center for Radiology and Surgical Technologies, St. Petersburg State University, St. Petersburg State Research Institute of Phthisiopulmonology, Ministry of Healthcare, St. Petersburg, Russia

Day 2. Thursday, September 17, 2020

Venue: Oktiabrskaya Hotel, 10 Ligovsky Prospect, St. Petersburg, Russia

- 10.00-11.30 SYMPOSIUM 3: CLINICAL STRESS NEUROSCIENCE**
Chair: D Kozic (Serbia)
- 10.00-10.15 WORK STRESS INTERVENTIONS: RESILIENCE TRAINING, SYSTEM INTERVENTIONS AND LEADERSHIP BASED CHANGE.** JAK Erskine and GJ Georgiou, St George's, University of London and University of Hertfordshire, London, Hertfordshire, UK
- 10.15-10.30 SELF-STRESS MANAGEMENT IN THE WORKPLACE.** Ph Fauquet-Alekhine, B Guion de Meritens, SEBE-Lab, Department of Psychological and Behavioural Science, LSE, London, UK, Lab. for Research in Science of Energy, France, Nuclear Power Plant of Chinon, EDF-FARN (Nuclear Fast-Action Force), France
- 10.30-10.45 THE PSYCHOLOGICAL NATURE OF ALEXITHYMIA AND FUNCTIONAL CONNECTIVITY REORGANIZATION.** SV Tukaiev, TV Vasheka, ON Dolgova, Research Institute, National University of Physical Education and Sports of Ukraine, Kiev, Ukraine
- 10.45-11.00 GENDER DIFFERENCES IN EMOTION INDUCTION BY MANIPULATED FEEDBACK DURING DECISION MAKING TASK.** AT Kamzanova, V Pivkina, G Matthews, AM Kustubayeva, Center for Cognitive Neuroscience, al-Farabi Kazakh National University, Almaty, Kazakhstan, University of Central Florida, Orlando, USA

- 11.00-11.15** **INITIALLY UNRECOGNIZED NEUROMYELITIS OPTICA SPECTRUM DISORDER WITH CONSEQUENT END-STAGE SPINAL CORD ATROPHY.** I Nosek, J Boban, D Vlahovic, B Radovanovic, D Tihomir, D Kozic, University of Novi Sad, Faculty of Medicine, Oncology Institute of Vojvodina, Novi Sad, Serbia
- 11.15-11.30** **PREDICTION OF AUTONOMIC DYSFUNCTION TO MOTOR SEVERITY IN PARKINSON'S DISEASE IN SOUTHERN CHINESE.** C Cui, East Hospital, Tongji University School of Medicine, Shanghai, China
- 11.30-11.45** **BREAK 1**
- 11.45-12.05** **NOLDUS PRESENTATION: THE STANDARDIZATION PARADOX: BETTER DATA WITH NATURALISTIC BEHAVIORAL TESTS.** A Willemsen, Noldus IT, Wageningen, The Netherlands
- 12.05-12.25** **BIOGEN-ANALYTICA PRESENTATION: MODERN ANIMAL CARE SYSTEMS (USA).** M Chemeris, Biogen-Analytica, LLC, Moscow, Russia
- 12.25-16.20** **SYMPOSIUM 4: ZUKOWSKA STRESS NEUROSCIENCE SYMPOSIUM**
Chairs: AV Kalueff (China, Russia, USA) and VM Klimenko (Russia)
- 12.25-12.35** **INTRODUCTION: PROFESSOR ZOFIA ZUKOWSKA**
- 12.35-12.50** **MODERN IMAGING IN CLINICAL AND BEHAVIOURAL NEUROSCIENCE.** D Kozić, University of Novi Sad Faculty of Medicine, Novi Sad, Serbia
- 12.50-13.05** **BLOOD-BASED LIPIDOMICS OF SCHIZOPHRENIA AND OTHER PSYCHIATRIC DISORDERS.** D Petrova, A Tkachev, Ph Khaitovich, Skolkovo Institute of Science and Technology, Moscow, Russia
- 13.05-13.20** **MATERNAL HYPERHOMOCYSTEINEMIA DISRUPTS NEUROPIG FORMATION IN RAT HIPPOCAMPUS INDUCING MEMORY DEFICIT IN ADULTHOOD.** DS Vasilev, AD Shcherbitskaia, NL Tumanova, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia
- 13.20-13.35** **MODULATION OF DETRUSOR MUSCLE AND EXTERNAL URETHRAL SPHINCTER ACTIVITY BY SITE-SPECIFIC ELECTRICAL STIMULATION OF RAT SPINAL CORD.** Y Sysoev, E Bazhenova, V Lyakhovetskii, G Kovalev, P Shkorbatova, N Pavlova, O Gorskii, N Merkul'yeva, D Shkarupa, P Musienko, Institute of Translational Biomedicine, St. Petersburg State University, Department of Pharmacology and Clinical Pharmacology, St. Petersburg State Chemical-Pharmaceutical University, Pavlov Institute of Physiology RAS, Russian Research Center of Radiology and Surgical Technologies, Ministry of Healthcare, Clinic of High Medical Technologies, St. Petersburg State University, St. Petersburg, Russia
- 13.35-13.50** **ACTIVATION OF STRESS- AND NEUROPLASTICITY-RELATED GENES IN THE HIPPOCAMPUS OF RATS FOLLOWING MORRIS WATER MAZE TRAINING.** PE Panchenko, HM Goss, KR Mifsud, EM Price, JMHM Reul, Neuro-Epigenetics Research Group, University of Bristol, Bristol Medical School, Bristol, UK
- 13.50-14.05** **INTEGRATING ELEVATED PLUS MAZE AND DARK/LIGHT BOX TO DETECT ANXIETY-RELATED BEHAVIOR DUE TO SYNERGISTIC EFFECT OF PSYCHOSOCIAL STRESS IN OBESE MALE MICE.** C Baroni, C Spalletti, J Agrimi, V Casieri, M Caleo, V Lionetti, Sant'Anna School of Advanced Studies, Neuroscience Institute, National Research Council (CNR), Pisa, Italy
- 14.05-14.35** **BREAK 2**
- 14.35-14.50** **MOLECULAR ALTERATIONS IN BRAIN, BONE MARROW, TESTIS AND ADRENAL GLANDS OF STRESSED MICE.** MP Petrova, TS Glinin, VA Mamontova, V Shcherbinina, AB Volnova, PA Starshova, EV Daev, PE Khaitovich, CAS-MPG Partner Institute for Computational Biology, Shanghai Institutes for Biological Sciences CAS, Shanghai, China
- 14.50-15.05** **ACUTE PAIN AS A POSSIBLE CAUSE OF A NEGATIVE STRESS REACTION THAT PROVOKES TACHYARRHYTHMIA IN ELDERLY PEOPLE.** VP Nesterov, AI Burdygin,