

The International Stress and Behavior Society (ISBS)
Institute of Experimental Medicine (IEM RAS)
Institute of Translational Biomedicine (ITBM), St. Petersburg State University
Centre for Physiology and Biochemical Research (CPBR)
The Russian Society for Biopsychiatry (RSBP)
The Ukrainian Society for Biological Psychiatry (USBP)

Final Program

**23rd Multidisciplinary International
Neuroscience and Biological Psychiatry Conference
“Stress and Behavior”
ISBS Conference**



*St-Petersburg, Russia
May 16-19, 2016*

IN PARTNERSHIP WITH:

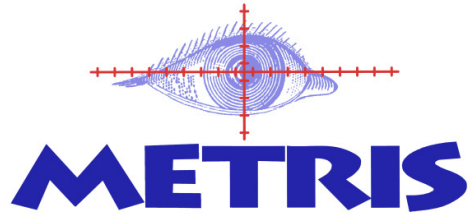
Journal STRESS, BRAIN AND BEHAVIOR

The International Zebrafish Neuroscience Research Consortium (ZNRC)

Daniela Raytchev Art



Noldus
Information Technology



**With Special Plenary Session dedicated to the 85th anniversary
of Academy Professor Boris I. Tkachenko**



Day 1. Mon, May 16, 2016

Oktiabrskaya Hotel, Grand hall (2nd floor), 10 Ligovsky Prospect, St-Petersburg, Russia

10.00-10.20 OPENING AND WELCOMING ADDRESSES

10.20-11.00 CONFERENCE OPENING PLENARY LECTURE: PLASMA MEMBRANE DOPAMINE TRANSPORTER: A TRANSLATIONAL PERSPECTIVE. RR Gainetdinov, ISBS Fellow, Institute of Translational Biomedicine, St. Petersburg State University, St. Petersburg, Russia

11.00-13.00 SYMPOSIUM I: STRESS AND LIPID-SYSTEM MEDIATED BEHAVIORS: ENDOCANNABINOIDS, SPHINGOLIPIDS AND BEYOND
Chair: CP Müller (Germany)

11.00-11.25 SPHINGOLIPIDS IN STRESS, MEMORY EXTINCTION AND DEPRESSION. CP Müller, Department of Psychiatry and Psychotherapy, University Clinic, Friedrich-Alexander-University of Erlangen-Nuremberg, Erlangen, Germany

11.25-11.50 SPHINGOLIPIDS IN DEPRESSION-INDUCED ALCOHOLISM. L Kalinichenko, Department of Psychiatry and Psychotherapy, University Clinic, Friedrich-Alexander-University of Erlangen-Nuremberg, Erlangen, Germany

11.50-12.10 COFFEE BREAK

12.10-12.35 ROLE OF THE ACCUMBAL ENDOCANNABINOID CB1 RECEPTORS IN CONDITIONED PAIN RELIEF. M Fendt, M Schneider, JR Bergado Acosta, Institute for Pharmacology and Toxicology, Center of Behavioral Brain Sciences, Otto-von-Guericke University Magdeburg, Developmental Neuropsychopharmacology, Central Institute of Mental Health, Medical Faculty Mannheim, Heidelberg University, Mannheim, Germany

12.35-13.00 THE ROLE OF CORTICOSTERONE AND GLUCOCORTICOID RECEPTOR FUNCTION IN ALCOHOL CONSUMPTION AND RELAPSE. V Vengeliene, Institute of Psychopharmacology, Central Institute of Mental Health, University of Heidelberg, Mannheim, Germany

13.00-14.00 LUNCH BREAK, EXHIBITION AND POSTER SESSION I

POSTERS ON DISPLAY

1. AUTONOMOUS NANOSATELLITE BIOIMAGING IN LOW EARTH ORBIT. M Gaidica, J Cutler, K Weskamp, Neuroscience Graduate Program, Department of Aerospace Engineering, University of Michigan, Ann Arbor, MI, USA
2. VENLAFAXINE AS AN AUGMENTATION OF ELECTRO-CONVULSIVE THERAPY IN TREATMENT OF RESISTANT DEPRESSION, A CASE REPORT. A Joshi, M Lal, Institute of Mental Health, Singapore
3. EFFECTS OF ESCITALOPRAM ON BEHAVIORAL RESPONSES AND CYTOKINE LEVELS CAUSED BY ENRICHED HOUSING AND ISOLATION REARING. K Benova, D Shtiliyanov, E Angeleska, E Haritov, Department of Pharmacology and Toxicology, Medical Faculty, Medical University of Sofia, Sofia, Bulgaria
4. COPPER NANOPARTICLES AND THEIR DISTANT INFLUENCE ON COGNITIVE FUNCTION. KI Pavlov, VN Mukhin, VG Kamenskaya, VM Klimenko, ISBS Fellow, Institute of Experimental Medicine RAS, St. Petersburg, Bunin State University, Yelets, Russia

5. **POSTURAL INSTABILITY IN PARKINSON'S DISEASE: PERSPECTIVES OF EARLY DIAGNOSIS.** EV Gracheva, AV Kudrevatykh, TV Sergeev, IV Miliukhina, Institute of Experimental Medicine RAS, St. Petersburg, Russia
6. **MILD HYPOXIC AND REMOTE ISCHEMIC PRECONDITIONING IN THE PREVENTION AND CORRECTION OF ANXIETY AND DEPRESSIVE DISORDERS IN ANIMAL MODELS.** KA Baranova, Pavlov Institute of Physiology RAS, St. Petersburg, Russia
7. **CHARACTERISTICS OF MUSCLE TONE, ANXIETY AND COGNITIVE FUNCTION ON *IN VIVO* MODELS OF ALIMENTARY HYPERLIPIDEMIA AND OBESITY.** SA Apryatin, NV Trusov, YuS Sidorova, KV Mzhelskaya, AS Balakina, VK Mazo, VA Tutelyan, Federal Center of Nutrition and Biotechnology, Moscow, Russia
8. **ANXIOLYTIC PROPERTIES OF TRANQUIRIDINE IN MODELS OF EMOTIONAL BEHAVIOR.** AI Morozov, AA Lebedev, ER Bychkov, PD Shabanov, ISBS Fellow, Institute of Experimental Medicine RAS, St. Petersburg, Russia
9. **DIFFERENCES OF STUDENTS' BRAIN ACTIVATION BY DIGITAL MEDIA ADDICTION RISK IN THE DIGITAL LEARNING.** GA Seomun, WJ Noh, Korea University, Seoul, Gachon University, Incheon, Korea
10. **GENDER DIFFERENCES IN PTSD: BOSNIAN EXPERIENCE.** S Bise, Dz Begic, B Kurtovic, O Cemalovic, Cantonal Psychiatric Hospital, Sarajevo, Bosnia and Herzegovina
11. **CALCIUM HOMEOSTASIS AND PROTEIN KINASE/PHOSPHATASE BALANCE IN NICOTINE-INDUCED SHORT- AND LONG-TERM MEMORY EFFECTS IN PASSIVE AVOIDANCE TASK IN MICE.** A Michalak, G Biała, Medical University of Lublin, Lublin, Poland
12. **THE INFLUENCE OF CHRONIC MILD UNPREDICTABLE STRESS ON NICOTINE-INDUCED CONDITIONED PLACE PREFERENCE IN RATS.** K Pękala, B Budzyńska, G Biała, Department of Pharmacology with Pharmacodynamics, Medical University in Lublin, Lublin, Poland
13. **FEAR AND STRESS LEVELS IN CAGED COMMON PHEASANT HENS.** E Voslarova, V Vecerek, I Bedanova, P Hrabcakova, V Pistekova, Faculty of Veterinary Hygiene and Ecology, University of Veterinary and Pharmaceutical Sciences, Brno, Czech Republic
14. **THE RELATION OF THE SKIN POTENTIAL LEVEL TO FORMATION OF EMOTIONAL BURNOUT.** S Tukaiev, S Fedorchouk, L Chikina, I Zyma, Y Havrylets, M Makarchuk, V Rizun, Institute of Biology, Department of Brain Physiology and Psychophysiology, Institute of Journalism, National Taras Shevchenko University of Kyiv, Kyiv, Ukraine
15. **TIMED AQUA-LIGHT THERAPY AS AN AUGMENTATION STRATEGY IN THE TREATMENT OF RESISTANT LETHARGIC DEPRESSION IN A PATIENT WITH BIPOLAR DISORDER: A CASE REPORT.** MM Coetzee, MJ Olckers, Charlotte Behavioral Health Care, PST Global Consultancy, Punta Gorda, Florida, USA

14.00-18.00 SPECIAL PLENARY SESSION DEDICATED TO THE 85TH ANNIVERSARY OF ACADEMY PROFESSOR BORIS I. TKACHENKO

14.00-14.20 ACADEMY PROFESSOR BORIS I. TKACHENKO (1931-2009). EV Shaidakov, Institute of Experimental Medicine RAS, St. Petersburg, Russia

14.20-18.00 SYMPOSIUM II: ZOFIA ZUKOWSKA SYMPOSIUM ON TRANSLATIONAL NEUROSCIENCE OF STRESS

Chair: AV Kalueff (USA, Russia, China)

14.20-14.40 WHAT CAN BE LEARNED ABOUT HUMAN BEHAVIORAL DISORDERS FROM DOMINANT-SUBMISSIVE INTERACTIONS IN MICE? A Pinhasov, M Gross, E Neshet, T Tikhonova, M Bairachnaya, I Michaelevski, Department of Molecular Biology, Ariel University, Ariel, Department of Biochemistry and Molecular Biology, Sagol School of Neuroscience, Tel Aviv University, Tel Aviv, Israel

14.40-15.00 IN QUEST FOR FINDING THE MASTER REGULATORS OF THE MOLECULAR MECHANISMS OF PSYCHIATRIC AND COGNITIVE DISORDERS. I Michaelevski, N

Borovok, E Neshet, A Sheinin, M Reichenstein, A Pinhasov, Department of Biochemistry and Molecular Biology, Sagol School of Neuroscience, Tel Aviv University, Tel Aviv, Department of Molecular Biology, Ariel University, Ariel, Israel

15.00-15.15 **EVALUATION OF PHENOTYPE OF NEUROPEPTIDE S RECEPTOR-DEFICIENT MICE AS A TOOL FOR BETTER UNDERSTANDING THE PATHOLOGY OF POST-TRAUMATIC STRESS DISORDER.** MH Kolodziejczyk, J Germer, E Kahl, M Fendt, Institute for Pharmacology and Toxicology, Center of Behavioral Brain Sciences, Otto-von-Guericke University Magdeburg, Magdeburg, Germany

15.15-15.30 **REDUCTION OF HSP70 EXPRESSION INCREASES NIGROSTRIATAL PATHOLOGY IN A RAT MODEL OF PROTEASOME INHIBITION.** DV Plaksina, IV Guzhova, IV Ekimova, ISBS Fellow, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, Institute of Cytology RAS, St-Petersburg, Russia

15.30-15.45 **POSSIBLE MECHANISMS OF PROTECTIVE ACTION OF *ENTEROCOCCUS FAECIUM* STRAIN L-3 IN THE COURSE OF EXPERIMENTAL ALLERGIC ENCEPHALOMYELITIS IN RATS.** E Tarasova, I Abdurasulova, E Ermolenko, A Matsulevich, I Kudrjartsev, A Suvorov, VM Klimenko, ISBS Fellow, Institute for Experimental Medicine RAS, Saint-Petersburg State Pediatric Medical University, Saint Petersburg State University, St. Petersburg, Russia

15.45-16.00 **COFFEE BREAK**

16.00-16.20 **THE SOCIAL BEHAVIOR IN RATS WITH COMORBID EXPERIMENTAL SCHIZOPHRENIA AND LONG-TERM ALCOHOL DRINKING.** AY Egorov, ISBS Fellow, EO Kucher, NA Chernikova, EV Filatova, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg State University, St. Petersburg, Russia

16.20-17.00 **IEM SPECIAL PLENARY LECTURE: PSYCHOPATHOLOGY OF POSITIVE FIGHTING EXPERIENCE: A NEUROBIOLOGICAL ASPECT.** NN Kudryavtseva, Institute of Cytology and Genetics SD RAS, Novosibirsk, Russia

17.00-17.40 **AUTOMATED BEHAVIORAL STUDY OF RATS AND MICE, LABORATORY ANIMAL BEHAVIOR OBSERVATION REGISTRATION AND ANALYSIS SYSTEM - LABORAS, SONOTRACK, SMARTCHAMBER, DSI.** L Bachdasarian, R Bulthuis, E Molenwijk, M Boscaro, Metris BV, Netherlands, Data Sciences International, St. Paul, USA

17.40-18.00 **IMAGING DISRUPTED NEUROCOGNITIVE NETWORKS WITH SIMULTANEOUS PET/FMRI.** I Yakushev, Technische Universität München, Munich, Germany

18.00-19.20 **INDUCTION OF ISBS FELLOWS**

WELCOMING RECEPTION (SPONSORED BY ITBM) AND CONCERT (SPONSORED BY ISBS)

Day 2. Tue, May 17, 2016

Oktiabrskaya Hotel, Grand hall (2nd floor), 10 Ligovsky Prospect, St-Petersburg, Russia

- 9.20-10.00** **ISBS/ITBM SPECIAL PLENARY LECTURE: SINEUPS - A NEW FUNCTIONAL CLASS OF NATURAL AND SYNTHETIC ANTISENSE NON-CODING RNAS THAT ACTIVATE TRANSLATION.** S Gustincich, Department of Neuroscience and Brain Technologies, Italian Institute of Technologies, Genova; Area of Neuroscience, International School of Advanced Studies (SISSA), Trieste, Italy
- 10.00-14.00** **SYMPOSIUM III (ITBM NEUROSCIENCE SYMPOSIUM): TAAR1 AS AN EMERGING PHARMACOLOGICAL TARGET**
Chairs: RR Gainetdinov (Russia), MC Hoener (Switzerland), M Shahid (UK)
- 10.00-10.30** **CHARACTERIZATION OF A TRACE AMINE TRANSPORTER IN RAT BRAIN.** MD Berry, A Pryor, S Hart, S Hunter, Department of Biochemistry, Memorial University of Newfoundland, St. John's, Canada
- 10.30-11.00** **TAARGETING STRESS – DOES TRACE AMINE-ASSOCIATED RECEPTOR 1 HAVE A ROLE TO PLAY?** DK Grandy, Oregon Health and Science University, Portland, OR, USA
- 11.00-11.30** **SELECTIVE TAAR1 PARTIAL AGONISTS MODULATE DOPAMINERGIC AND SEROTONERGIC NEUROTRANSMISSION AND THEREBY REGULATING REWARD CIRCUITS, THE LIMBIC NETWORK, COGNITIVE PROCESSES, MOOD STATES, BODY WEIGHT AND GLUCOSE LEVELS.** MC Hoener, Neuroscience, Ophthalmology and Rare Diseases Discovery and Translational Area, Roche Innovation Center Basel, F Hoffmann-La Roche, Basel, Switzerland
- 11.30-11.50** **COFFEE BREAK**
- 11.50-12.10** **TAAR1 DEFICIENCY PRODUCES FRONTOSTRIATAL DYSFUNCTIONS.** S Espinoza, G Lignani, I Sukhanov, L Medrihan, S Maggi, L Mus, L Damiana, M Emanuele, G Ronzitti, E Chierigatti, TD Sotnikova, F Benfenati, V Tucci, F Fumagalli, RR Gainetdinov, ISBS Fellow, Italian Institute of Technology, NBT, Genova, Pharmacology, University of Milan, Milan, Italy
- 12.10-12.40** **PARTIAL AGONISM OF TRACE AMINE-ASSOCIATED RECEPTOR 1 PROMOTES WAKEFULNESS.** TS Kilduff, SW Black, SR Morairty, MC Hoener, MD Schwartz, Center for Neuroscience, Biosciences Division, SRI International, Menlo Park, CA USA; Neuroscience, Ophthalmology and Rare Diseases Discovery and Translational Area, Roche Innovation Center Basel, F Hoffmann-La Roche Ltd., Basel, Switzerland
- 12.40-13.10** **TACKLING DRUG CRAVING AND RELAPSE THROUGH TAAR1 ACTIVATION.** JJ Canales, Department of Neuroscience, Psychology and Behaviour, University of Leicester, Leicester, UK
- 13.10-13.30** **THE EFFECTS OF TAAR1 ACTIVATION ON MESOLIMBIC DOPAMINE NEUROTRANSMISSION AND ALCOHOL DRINKING BEHAVIORS.** EA Budygin, ISBS Fellow, Department of Neurobiology and Anatomy, Wake Forest School of Medicine, Winston-Salem, NC, USA
- 13.30-14.00** **BEHAVIORAL AND ELECTROPHYSIOLOGICAL EFFECTS OF 3- IODOTHYRONAMINE AND RELATED SYNTHETIC TAAR1 ANALOGS.** R Zucchi, University of Pisa, Department of Pathology, Laboratory of Biochemistry, Pisa, Italy

POSTERS ON DISPLAY

- 1. AGE-DEPENDENT STRESS INDUCED BY EXPOSURE TO ETHANOL IN BEHAVING MICE AND HIPPOCAMPAL CULTURES.** A Botalova, A Polyanin, O Elkina, O Krotkova, E Korkotian, Department of Biology, Perm State University, Department of Botany, Perm State Pharmaceutical Academy, Russia; Department of Neurobiology, The Weizmann Institute, Rehovot, Israel
- 2. DIFFERENCES IN ALEXITHYMIA AND EMOTIONAL AWARENESS IN EXHAUSTION SYNDROME AND CHRONIC FATIGUE SYNDROME.** D Maroti, P Molander, I Bileviciute-Ljungar, ME/CFS-Rehabilitation, Department of Rehabilitation Medicine, Department of Clinical Sciences, Karolinska Institutet Danderyd University Hospital, Stockholm, Department of Medical and Health Sciences, Faculty of Medicine and Health Sciences, Linköping University, Pain and Rehabilitation Center, Anaesthetics, Operations and Specialty Surgery Center, Region Östergötland, Department of Behavioral Sciences and Learning, Linköping University, Linköping, Sweden
- 3. EFFECTS OF AN EARLY EXPERIENCE OF HIGH-SUGAR DIET ON ALCOHOL INTAKE IN RATS.** MV Dorofeikova, AY Egorov, ISBS Fellow, EV Filatova, AA Orlov, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg State University, St. Petersburg, Russia
- 4. EMOTIONAL MODALITY OF THE INFORMATIONAL INFLUENCE AS A FACTOR OF THE INTERETHNIC PERCEPTION.** MV Baleva, DS Kornienko, SA Shebetenko, Perm State Institute of Culture, Perm State University, Perm, Russia
- 5. THE REDUCTION OF PAIN STRESS BY USING MUSIC.** M Tomida, T Furuta, R Uchikawa, I Kawahara, S Sadaoka, K Uchida, T Yagasaki, Department of Social Dentistry, Department of Oral and Maxillofacial Biology, Graduate School of Oral Medicine, Department of Oral Health, Department of Oral and Maxillofacial Radiology, Matsumoto Dental University, Shiojiri, Japan
- 6. THE STUDY OF "INTERNAL" HUMAN RHYTHMUS IN UKRAINIAN MENTALLY ILL PATIENTS.** V Tarasov, N Orlova, TMA "Psychiatry", Kiev Medical University of UAFM, Kiev, Ukraine
- 7. INTRANASAL EXPOSURE TO MANGANESE INDUCES INFLAMMATION, OXIDATIVE STRESS AND ACTIVATION OF CALPAINS IN RAT BRAIN.** IS Oblamskaya, NS Pestereva, MN Karpenko, VM Klimenko, ISBS Fellow, Institute of Experimental Medicine RAS, St. Petersburg, Russia
- 8. BEHAVIORAL DISORDERS AND LIPID METABOLISM CHANGES OF RATS AFTER THE VIBRATION NOISE ACTION IN THE REMOTE PERIOD.** NK Apraksina, TV Avaliani, NN Klueva, AV Bykova, SG Tsikunov, ISBS Fellow, Institute of Experimental Medicine RAS, St.-Petersburg, Russia
- 9. EFFECT OF NEUROFEEDBACK TRAINING ON SIGNS, WORRY, ELECTRICAL ACTIVITY OF BRAIN, AND NEURAL GENERATORS OF GENERALIZED ANXIETY DISORDER PATIENTS: A STUDY BASED ON QEEG.** A Asadollahpour Kargar, Z Bahadori, A Bakhshipour, J Babapour, P Ahmadi, Cognitive Neuroscience Group, Tabriz University, Tabriz, Iran
- 10. 3-IODOTHYRONAMINE RESCUES SYNAPTIC DYSFUNCTION INDUCED BY AMYLOID BETA: A TAAR1-MEDIATED ACTION.** A Accorroni, C Criscuolo, M Sabatini, R Donzelli, A Saba, N Origlia, R Zucchi, Scuola Superiore Sant'Anna, National Research Council, University of Pisa, Pisa, Italy
- 11. SHORT TERM OXYTOCIN ADMINISTRATION IS REDUCING MEMORY DEFICITS AND ANXIETY MANIFESTATIONS IN A METHIONINE-RAT MODEL OF SCHIZOPHRENIA.** A Ciobica, R Lefter, M Paulet, I Antioch, R Dobrin, Alexandru Ioan Cuza University, Iasi, Romania
- 12. THE EFFECTS OF POSITIVE ALLOSTERIC MODULATOR (PAM) OF MGLUR5 ON THE LOSS OF OBJECT RECOGNITION MEMORY PRODUCED BY CHRONIC ETHANOL ADMINISTRATION IN RATS.** M Marszalek-Grabska, E Gibula-Bruzda, J Filarowska, A Bodzon-Kulakowska, P Suder, JH Kotlinska, Department of Pharmacology and Pharmacodynamics, Medical University, Lublin, Department of Biochemistry and Neurobiology, AGH University of Science and Technology, Krakow, Poland
- 13. MORPHO-FUNCTIONAL CHARACTERISTIC OF THE OREXINERGIC SYSTEM IN RATS UNDERGOING THE SICKNESS AND PRENATAL HYPOXIA.** IY Morina, EA Aristakesyan, VV Kuzik, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia
- 14. COMPARATIVE CHARACTERISTICS OF THE HYPOTHALAMIC VASOPRESSINERGIC STRUCTURES IN WISTAR AND KRUSHINSKII-MOLODKINA RATS.** IY Morina, SI Vataev, VV Kuzik, DM Surzhenko, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia
- 15. PSYCHOLOGICAL FACTORS CONTRIBUTING TO DEPRESSION IN PATIENTS ON HEMODIALYSIS TREATMENT.** V Bugarski Ignjatović, V Sakač, Ž Nikolašević, Clinic for Neurology, Faculty of Medicine,

Clinic for nephrology and clinical immunology, Department of Psychology, Faculty of Philosophy, University of Novi Sad, Novi Sad, Serbia

16. **BIPOLAR DISORDER OR MAJOR DEPRESSIVE DISORDER?** A Hashorva (Tasho), A Suli, D Ulqinaku, V Alikaj, E Spaho. University Center Hospital "Mother Teresa", Psychiatric Department, Tirana, Albania
 17. **HOSPITALIZATION CAUSES ANXIETY.** A Hashorva (Tasho), P Maksuti, University Center Hospital "Mother Teresa", Psychiatric Department, Tirana, Albania
 18. **DIFFERENCES OF BEHAVIORAL CHARACTERISTICS OF AUDITORY AND VISUAL EMOTION PERCEPTION AT THE PRIMARY SCHOOL AGE.** MN Anderson, ES Dmitrieva, VYa Gelman, Pushkin Leningrad State University, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, North-West State Medical University, St. Petersburg, Russia
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- 15.00-15.30 **ISBS SPECIAL TALK: STRESS AND NEUROIMMUNE INTERACTIONS.** H Korneva, S Perekrest, S Shanin, Institute of Experimental Medicine RAS, St. Petersburg State University, St. Petersburg, Russia
 - 15.30-16.00 **USBP SPECIAL TALK: MIND-IMMUNE CONNECTION: UNDERSTANDING ITS ROLE FOR NEUROPSYCHIATRIC DISEASES FROM THE SYSTEMS BIOLOGICAL PERSPECTIVE.** L Tian, Academy of Finland, Neuroscience Center, University of Helsinki, Helsinki, Finland
 - 16.00-16.30 **RSBP SPECIAL TALK: MISASSEMBLY OF NON-MUTANT DISRUPTED-IN-SCHIZOPHRENIA 1 (DISC1) PROTEIN IS LINKED TO ALTERED DOPAMINE HOMEOSTASIS AND BEHAVIORAL DEFICITS.** C Korth, Department of Neuropathology, University of Düsseldorf, Düsseldorf, Germany
 - 16.30-17.00 **NEW INSIGHTS INTO BEHAVIORAL PHENOTYPING: PHENOMASTER AND INTELLICAGE WITH STELLAR TELEMETRY.** E Wenzler, TSE Systems GmbH, Bad Homburg, Germany
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- 17.00-17.20 COFFEE BREAK**
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- 17.20-18.55 SYMPOSIUM IV: CLINICAL PSYCHOLOGY AND PSYCHIATRY**
Chairs: VM Klimenko (Russia), BA Rozanov (Ukraine)
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- 17.20-17.40 **LONG HOURS IN CENTER-BASED CARE AND THE HEALTH OF SECOND-GRADE CHILDREN: A LONGITUDINAL STUDY.** T Anme, E Tomisaki, E Tanaka, T Watanabe, University of Tsukuba, Ibaragi, Sophia University, Tokyo, Japanese University of Health Sciences, Saitama, Japan
 - 17.40-17.55 **PATIENTS WITH WORK-RELATED STRESS PROFILE.** P Rebolledo, N Martini, P Valenzuela, Hospital del Trabajador, Chile
 - 17.55-18.15 **TREATMENT OF STRESS RELATED PSYCHOEMOTIONAL DISORDERS (PED) ASSOCIATED WITH NEUROPATHIC PAIN (NPP).** Y Katsnelson, H Backhoff, V Udalov, G Zdanov, Premier Annecto Technologies, PA, USA; Tver Railroad Clinical Center, Tver, Russia
 - 18.15-18.40 **CONVENTIONAL AND ADVANCED IMAGING TECHNIQUES IN DETECTION OF NEURODEGENERATIVE DISORDERS.** D Kozić, ISBS Fellow, University of Novi Sad Faculty of Medicine, Novi Sad, Serbia
 - 18.40-18.55 **THE EFFECT OF PRACTICING PRANAYAMA ON TEST ANXIETY.** A Nemati, Department of English Language Teaching, Jahrom Branch, Islamic Azad University, Jahrom, Iran

Day 3. Wed, May 18, 2016

Oktiabrskaya Hotel, Grand hall (2nd floor), 10 Ligovsky Prospect, St-Petersburg, Russia

- 09.00- 09.30** **USBP PLENARY LECTURE: PSYCHOSOCIAL STRESS, SOCIAL GENOMICS AND MENTAL HEALTH.** VA Rozanov, Odessa Mechnikov National University, Odessa, Ukraine
- 09.30-10.10** **INNOVATIVE SOLUTIONS FOR BEHAVIORAL RESEARCH.** A Willemsen, A Biarslanova, Noldus IT, Wageningen, Netherlands
- 10.10-13.00** **SYMPOSIUM V: IZYASLAV LAPIN SYMPOSIUM ON MENTAL HEALTH AND PSYCHOPHARMACOLOGY**
Chairs: JAK Erskine (UK), Ph Fauquet-Alekhine (France)
- 10.10-10.35** **THE INTERACTION OF PHYSICAL AND MENTAL HEALTH ACROSS THE ADULT LIFE SPAN – THE IMPACT OF REPRESSIVE COPING.** JAK Erskine, L Kvavilashvili, GJ Georgiou, L Myers, S Leggett, S Davies, S Hiskey, J Hogg, S Yeo, St George's, University of London, University of Hertfordshire, Brunel University, North Essex Partnership NHS Foundation Trust, Oxford University Hospitals NHS Trust, Oxford, UK
- 10.35-11.00** **USE OF A SYNTHETIC CANNABINOID IN A CORRECTIONAL POPULATION FOR POSTTRAUMATIC STRESS RELATED INSOMNIA AND NIGHTMARES AND OTHER INDICATIONS: A RETROSPECTIVE EVALUATION.** C Cameron, D Watson, J Robinson, Integrated Forensic Program - Secure Treatment Unit, Royal Ottawa Health Care Group, Department of Psychiatry, University of Ottawa, Ottawa, Canada
- 11.00-11.25** **WEIGHING THE EVIDENCE: A SYSTEMATIC REVIEW ON LONG-TERM NEUROCOGNITIVE EFFECTS OF CANNABIS USE IN ABSTINENT ADOLESCENTS AND ADULTS.** F Ganzer, S Bröning, S Kraft, PM Sack, R Thomasius, German Center for Addiction Research in Childhood and Adolescence, University Medical Center Hamburg-Eppendorf (UKE), Hamburg, Germany
- 11.25-11.40** **COFFEE BREAK**
- 11.40-12.05** **DOES INTERNAL SENSING GOVERN LEARNING/MEMORY AND COGNITION? A 250 RECEPTOR STUDY OF THE HIPPOCAMPUS.** R Lathe, G Riedel, Division of Pathway Medicine, University of Edinburgh, Edinburgh, Institute of Medical Neuroscience, University of Aberdeen, Aberdeen, UK
- 12.05-12.30** **STRESS, COGNITION AND DOPAMINE.** TR Norman, TR Letic, A Pisarevsky, JS Olver, Department of Psychiatry, University of Melbourne, Austin Hospital, Heidelberg, Victoria, Australia
- 12.30-12.45** **SUBSTANCE USE DISORDER, MALNUTRITION AND STRESS.** M Saeland, D Jahanlu, Faculty of Health Sciences, Oslo and Akershus University College, Oslo, Norway
- 12.45-13.00** **ISBS OUTREACH COLLABORATION: AN ARTIST'S LOOK AT MENTAL DISORDERS.** D Raytchev, Daniela Raytchev Art, London, UK

POSTERS ON DISPLAY

- 1. INFLUENCE OF ARGININE-VASOPRESSIN ON MOTOR DISORDERS IN PATIENTS AFTER STROKE.** SG Belokoskova, SG Tsikunov, ISBS Fellow, Institute of Experimental Medicine RAS, St. Petersburg, Russia
- 2. POSTSTROKE COGNITIVE IMPAIRMENT IN BULGARIAN PATIENTS: PROSPECTIVE FOLLOW-UP STUDY.** NS Petrova, Clinic of Neurology, MHAT "Ruse", Ruse, Bulgaria
- 3. BRIGHT LIGHT INDUCES FREEZING BEHAVIOR AND STRESS-LIKE CHANGES IN GROOMING IN THE COCKROACH, PERIPLANETA AMERICANA.** ES Novikova, IA Rodionov, MI Zhukovskaya, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia
- 4. MOST PROMINENT PEAK OF LACTATE: POTENTIAL KEY MRSPECTROSCOPY FEATURE OF PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY.** M Bjelan, D Kozić, ISBS Fellow, S Brkić, V Njagulj, J Ostojić; V Turkulov, D Lazarević, A Todorović, University of Novi Sad, Faculty of Medicine, Oncology Institute of Vojvodina, Diagnostic Imaging Centre, Sremska Kamenica, Clinic of Infectious Diseases, Clinical Center of Vojvodina, Center of Radiology, Institute of Cardiovascular Diseases of Vojvodina, Sremska Kamenica, Novi Sad, Serbia
- 5. DEVELOPMENT OF A BIOMARKER-BASED DIAGNOSTIC ALGORITHM FOR POSTTRAUMATIC SYNDROME AFTER PHYSICAL INJURY: DESIGN OF THE BIOPTS STUDY.** JW Kim, HJ Kang, KY Bae, SW Kim, IS Shin, JS Yoon, HK Oh, MG Kim, JM Kim, Departments of Psychiatry, Chonnam National University Medical School, Gwangju, Korea
- 6. GHRELIN ANTAGONIST [D-LYS3]-GHRP-6 REDUCES THE EXPRESSION AND REINSTATEMENT OF CONDITIONED PLACE PREFERENCE OF ALCOHOL IN RATS.** PM Vinogradov, IYu Tissen, AA Lebedev, ER Bychkov, ND Yakushina, PD Shabanov, ISBS Fellow, Anichkov Department of Neuropharmacology, Institute of Experimental Medicine, St. Petersburg, Russia
- 7. THE ROLE OF OREXIN A IN STRESS-INDUCED EMOTIONAL BEHAVIOR IN RATS.** IYu Tissen, SG Tsikunov, ISBS Fellow, AA Lebedev, ER Bychkov, ND Yakushina, PD Shabanov, ISBS Fellow, Anichkov Department of Neuropharmacology, Pavlov Physiological Department, Institute of Experimental Medicine, St. Petersburg, Russia
- 8. OREXIN A MODIFIES THE STRESS-INDUCED GAMBLING BEHAVIOR IN RATS.** ND Yakushina, AG Pshenichnaya, SG Tsikunov, ISBS Fellow, AA Lebedev, ER Bychkov, KA Privalov, PD Shabanov, ISBS Fellow, Anichkov Department of Neuropharmacology, Pavlov Physiological Department, Institute of Experimental Medicine, St. Petersburg, Russia
- 9. THE EFFECTS OF THE MOTION SICKNESS ON THE SLEEP-WAKEFULNESS CYCLE (SWC) IN THE 30TH DAY- RATS UNDERGOING HYPOXIA ON THE 14TH AND 19TH DAYS GESTATION.** EA Aristakesyan, DV Lychakov, IY Morina, VV Kuzik, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia
- 10. AGE AND GENDER DIFFERENCES IN SUSCEPTIBILITY TO STRESS AND COGNITIVE WORKLOAD CAUSED BY MOBILE PHONE USE WHILE DRIVING.** J Bergeron, M Hazel, M Paquette, University of Montreal, Montreal, Canada
- 11. STRESS-INDUCED CHANGES IN PLASMA CORTICOSTERONE CONCENTRATIONS IN DOMESTIC POULTRY.** V Vecerek, E Voslarova, I Bedanova, V Pistekova, G Zelinska, P Forejtek, Faculty of Veterinary Hygiene and Ecology, University of Veterinary and Pharmaceutical Sciences, Brno, Czech Republic
- 12. ULTRASTRUCTURAL, IMMUNOELECTRON AND MORPHOMETRICAL STUDY OF GAP JUNCTIONS IN THE RAT THALAMIC NUCLEI.** EYu Kirichenko, AK Logvinov, Ivanovskiy Academy of Biology and Biotechnology, Southern Federal University, Central Research Laboratory, Rostov State Medical University, Rostov, Russia
- 13. PSYCHOPHYSIOLOGICAL CHARACTERISTICS OF INSOMNIA PATIENTS MEASURED BY BIOFEEDBACK SYSTEM.** JS Lee, Department of Psychiatry, Pusan National University Yangsan Hospital, Yangsan, Korea
- 14. LONGITUDINAL ASSOCIATIONS OF HOMOCYSTEINE AND MTHFR C677T POLYMORPHISM WITH DEPRESSIVE DISORDER IN PATIENTS WITH ACUTE CORONARY SYNDROME.** YS Lee, JM Kim, Department of Psychiatry, Chonnam National University Medical School, Gwangju, Korea

15. **A CASE STUDY EXPLORING THE STRESS LEVELS AND ITS IMPACT ON INDIVIDUAL DURING PREPARATION, EXAMINATIONS AND POST EXAMINATION PERIOD.** N Jarašunaitė, County Upper School, Bury St Edmunds, UK
16. **THE EFFECTS OF L-NAME ON PENTYLENETETRAZOLE-INDUCED CONVULSIONS IN MICE.** A Jelenković, MD Jovanović, ID Stevanović, N Petronijević, University of Belgrade, Institute for Biological Research "Siniša Stanković", Belgrade, Military Medical Academy, Institute for Medical Research, Faculty of Medicine of Military Medical Academy, University of Defense, Belgrade, University of Belgrade School of Medicine, Institute of Medical and Clinical Biochemistry, Belgrade, Republic of Serbia

14.00-15.30 SYMPOSIUM VI: CNS CHINESE NEUROSCIENCE SOCIETY
Chairs: S He, Y Wang (China)

14.00-14.20 OPTOGENETIC INHIBITION OF STRIATAL NEURONS IMPROVES THE SURVIVAL OF IMPLANTED NSC AND NEUROLOGICAL OUTCOMES AFTER ISCHEMIC STROKE. Y Wang, Y Lu, L Jiang, GY Yang, Med-X Research Institute and School of BME, Shanghai Jiao Tong University, Shanghai, China

14.20-14.40 A DEPRESSIVE-LIKE MOUSE MODEL INDUCED BY 24-HOUR-RESTRAINT. X Chu, J Lou, T Serdyuk, Y Zhou, W Li, Bio-X Institutes, Brain Science and Technology Research Center, Shanghai Jiao Tong University, Shanghai, China

14.40-15.00 EMBRYONIC NMDA RECEPTOR BLOCKADE INDUCED ANXIETY BEHAVIOR IN ADULT RATS BY DEVELOPMENTAL NMDA RECEPTOR PLASTICITY CHANGE IN HIPPOCAMPO-PREFRONTAL PATHWAY. Y Wang, W Ren, Institute of Brain Science, Fudan University, Shanghai, China

15.00-15.15 LONG-TERM RESCUE OF RAT RETINAL GANGLION CELLS AND VISUAL FUNCTION BY AAV-MEDIATED BDNF EXPRESSION AFTER ACUTE ELEVATION OF INTRAOCULAR PRESSURE. R Ren, S He, School of Biomedical Engineering, Institute of Natural Science and Bio-X Research Institute, Shanghai Jiao Tong University, Shanghai, China

15.15-15.30 CEREBRAL ACTIVATIONS IN NIGHTMARE DISORDER REFLECTED BY RESTING-STATE FMRI. W Wang, C Shen, Q Zhu, Department of Clinical Psychology and Psychiatry, School of Public Health, Zhejiang University College of Medicine, Hangzhou, China

15.30-18.15 SYMPOSIUM VII: BIOLOGICAL PSYCHIATRY
Chairs: AV Kalueff (Russia, USA, China), D Kozic (Serbia)

15.30-15.45 SIMULTANEOUS NEURAL ACTIVITY OF RIGHT AND LEFT MEDIAL FRONTAL CORTEX IN RAT BEHAVIOR. EV Filatova, AA Orlov, SV Afanasyev, AY Egorov, ISBS Fellow, Sechenov Institute of Evolutionary Physiology and Biochemistry, St. Petersburg Bekhterev Psychoneurological Research Institute, St. Petersburg State University, St. Petersburg, Russia

15.45-16.05 PHEROMONE-INDUCED GENOME INSTABILITY IS ASSOCIATED WITH NEGATIVE fMRI RESPONSE IN MOUSE MAIN OLFACTORY BULB. TS Glinin, AV Romaschenko, VA Shubina, PA Starshova, LS Onopa, AA Bondarev, MP Moshkin, EV Daev, St. Petersburg State University, Institute of Cytology and Genetics SORAS, Novosibirsk, Russia

16.05-16.30 THE PEPTIDES DRUGS IN THE COMPENSATION OF THE MAMMALS AMNESTIC, ANXIETY AND DEPRESSION DISTURBANCES. TN Sollertinskaja, ISBS Fellow, MV Shorokhov, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia

16.30-16.50 COFFEE BREAK

- 16.50-17.05 COMBAT-RELATED PTSD AND ITS CONSEQUENCES: BOSNIAN EXPERIENCE.**
G Sulejmanpasic, S Fisekovic, S Ler, University Clinical Centre of Sarajevo,
Psychiatric clinic, Sarajevo, Bosnia and Herzegovina
- 17.05-17.30 MOTION TRACKING AND ANALYSIS AS INDICATOR OF STRESS AT WORK.**
Ph Fauquet-Alekhine, M Veit, A Nieto, S Besse, Nuclear Power Plant of Chinon,
Laboratory for Research in School of Energy, HOLO3, Schiltigheim, France;
Department of Social Psychology, LSE, London, UK
- 17.30-18.00 STRESS RECOGNITION FROM EEG FOR HUMAN ABILITIES/BEHAVIOUR
ASSESSMENT.** O Sourina, X Hou, Y Liu, Nanyang Technological University,
Singapore
- 18.00-18.15 CHEMIOSMOTIC VS. CONFORMON MODELS OF ENERGY PRODUCTION IN
MITOCHONDRIA MEDIATING CELLULAR RESPONSES TO STRESS.** S Ji, Rutgers
University School of Pharmacy, Rutgers University, Piscataway, NJ, USA

Day 4. Thur, May 19, 2016

Oktiabrskaya Hotel, Grand hall (2nd floor), 10 Ligovsky Prospect, St-Petersburg, Russia

- 09.15-11.20** **SYMPOSIUM VIII: ISBS FELLOWS SYMPOSIUM**
Chairs: VM Klimenko, TN Sollertinskaya (Russia)
- 09.15-09.30** **EARLY-LIFE LIPOPOLYSACCHARIDE ADMINISTRATION LEADS TO DELAYED CHANGES OF FGF2 AND BDNF mRNA EXPRESSION IN THE RAT BRAIN.** OE Zubareva, EA Veniaminova, AP Schwarz, VM Klimenko, ISBS Fellow, Institute of Experimental Medicine RAS, Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Institute of General Pathology and Pathophysiology, Moscow, Russia
- 09.30-09.55** **OLFACTORY REGULATION OF ADDICTIVE BEHAVIOR.** T Nevidimova, ISBS Fellow, E Masterova, D Savochkina, N Bokhan, Mental Health Research Institute, Tomsk, Russia
- 09.55-10.25** **70 kDa HEAT SHOCK PROTEIN IN MODULATION OF SLEEP AND ANXIETY-LIKE BEHAVIOR.** VV Simonova, MV Chernyshev, MA Guzeev, LY Kochemasova, IV Ekimova, ISBS Fellow, YF Pastukhov, ISBS Fellow, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, Saint-Petersburg, Russia
- 10.25-10.45** **THE SEARCH FOR NON-MOTOR SYMPTOMS IN A NEW ANIMAL MODEL OF THE PROLONGED PRECLINICAL STAGE OF PARKINSON'S DISEASE.** YuF Pastukhov, ISBS Fellow, MV Chernyshev, VV Simonova, MA Guzeev, TS Shemiakova, IV Ekimova, ISBS Fellow, Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, St. Petersburg, Russia
- 10.45-11.00** **INFLUENCE OF METEOROLOGICAL FACTORS ON BEHAVIORAL EFFECTS OF SINGLE INTRACEREBROVENTRICULAR ADMINISTRATION OF AMYLOID-BETA PEPTIDE.** V Mukhin, I Abdurasulova, K Pavlov, K Abdurasulova, V Klimenko, ISBS Fellow, Institute of Experimental Medicine, St. Petersburg, Russia
- 11.00-11.20** **CHANGES IN THE GHRELIN, OREXIN AND CRF SIGNALING SYSTEMS IN BLOOD AND IN BRAIN STRUCTURES AFTER CHRONIC ALCOHOLIZATION AND ETHANOL WITHDRAWAL IN RATS.** PP Khokhlov, AA Lebedev, ER Bychkov, PD Shabanov, ISBS Fellow, Anichkov Department of Neuropharmacology, Institute of Experimental Medicine, St. Petersburg, Russia
- 11.20-11.40** **COFFEE BREAK**
- 11.40-17.00** **SYMPOSIUM IX: 11TH ISBS/ZNRC ONE-DAY ZEBRAFISH BEHAVIORAL NEUROSCIENCE AND NEUROPHENOTYPING WORKSHOP (ZB2N-2016)**
Chair: AV Kalueff (Russia, USA, China)
- 11.40-12.30** **INNOVATION THROUGH PASSION NEVER STOPS: TECNIPLAST LATEST PRODUCTS FOR ZEBRAFISH HOUSING AND BREEDING.** M Brocca, Aquatic Solutions, Tecniplast, Italy
- 12.30-13.15** **ISBS PRESIDENTIAL LECTURE: STRESS, BRAIN AND THE IMMUNE SYSTEM: LESSONS FROM ZEBRAFISH, RODENTS AND HUMANS.** AV Kalueff, ISBS Fellow, A Kaluyeva, C Song, International Zebrafish Neuroscience Research Consortium (ZNRC), ZENEREI Institute, Slidell, LA, USA; Institute of Translational Biomedicine, St. Petersburg State University, St. Petersburg, Institute of Chemical Technologies, Institute of Biological Science, Ural Federal University, Ekaterinburg, Russia; Research Institute for Marine Drugs and Nutrition, Guangdong Ocean University, Zhanjiang, China

13.15-14.00 WORKSHOP SESSION

14.00-15.00 LUNCH BREAK AND EXHIBITION

15.30-17.00 WORKSHOP SESSION

17.00-17.20 CONCLUDING REMARKS AND CONFERENCE CLOSING CEREMONY

POST-CONFERENCE EVENT

Fri, May 20, 2016

Institute of Experimental Medicine (12 Pavlov Street, St-Petersburg)

10.15-15.00 Visit to Pavlov Department of Physiology of the Institute of Experimental Medicine

The ISBS bus to IEM leaves at 10.15 sharp from main entrance of Oktiabrskaya Hotel, and will return to Hotel by 15.00 (FREE for all delegates, but tour pre-registration is required)



THE INTERNATIONAL STRESS AND BEHAVIOR SOCIETY (ISBS)

Established in 2007

President: Allan V. Kalueff, PhD (2015-2017)

Vice-President: Victor M. Klimenko, MD, PhD (2015-2017)

ISBS Executive Office Coordinator: Nataliya A. Zinevych

www.stress-and-behavior.com

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ISBS is the international society of experts working with a wide range of topics in the field of translational neuroscience, neurobehavioral sciences, biopsychology and biopsychiatry, with a particular focus on stress, stress-related neurobehavioral phenotypes, their neural, molecular and genetic mechanisms, as well as stress-evoked neuropsychiatric disorders.

Anyone with an interest in stress-related human or animal behaviors, neurobehavioral disorders and their mechanisms, wishing to join ISBS, can do so by paying dues. Payment can be made following sending the e-mail form and payment request to the ISBS Secretariat at info@stressandbehavior.com. Once the form and the payment have been received, you will receive a membership confirmation.

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Regular membership dues are \$100.00 for the period of three years, or \$60.00 for the period of one year. Student (undergraduate and graduate) membership dues are \$60.00 for the period of three years.

- Regular membership benefits include a \$50.00 discount for registration for any of the ISBS Conferences, symposia, workshops and summer schools.
- Student members will benefit from a \$25.00 discount for registration for any of the ISBS Conferences, symposia, workshops and summer schools.
- Membership cycle starts January 1st. ISBS Members benefit from reduced STRESS, BRAIN & BEHAVIOR journal subscription fees: \$70.00 (regular member), \$55.00 (student member).

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Category - please select one:

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THE INTERNATIONAL “STRESS AND BEHAVIOR” SOCIETY (ISBS)

Please join our 2016-2017 ISBS conferences:



24th International Neuroscience and Biological Psychiatry Conference "STRESS AND BEHAVIOR"
May 16-19, 2017, St. Petersburg, Russia



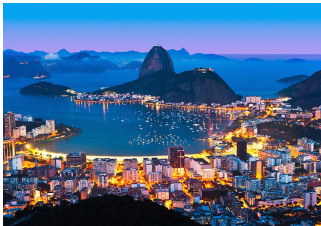
7th International Regional Neuroscience and Biological Psychiatry Conference "STRESS AND BEHAVIOR" (North America)
June 22-24, 2016, Miami Beach, FL, USA



8th International Regional Neuroscience and Biological Psychiatry Conference "STRESS AND BEHAVIOR" (Asia)
July 23-24, 2016, Yokohama, Japan



9th ISBS Conference: Neurobiology of Mind and Body: Behavior, Stress, Brain Diseases, Immunity, Drugs and Nutrition
October 27-29, 2016, Zhanjiang, China



10th International Neuroscience and Biological Psychiatry ISBS Regional (S. America) Conference "NEUROSCIENCE OF STRESS"
December 1-3, 2016, Rio de Janeiro, Brazil



4th Caribbean Biomedical Research Days CBRD-2017
January 16-18, 2017, Rodney Bay, St. Lucia

**E-mail: info@stressandbehavior.com
www.stress-and-behavior.com**