International conference
VOLGA NEUROSCIENCE MEETING 2025

Nizhny Novgorod, «Chayka» Resort Hotel
August 25-29, 2025

			MONDAY, AUGUST 25
11:30	**Registration of participants on the pier**	14:30	Gathering of participants at the UNN campus
12:00	Transfer by boat *Nizhny Novgorod – Resort hotel "Chayka"*	15:00	Transfer by bus *Nizhny Novgorod – Resort hotel "Chayka"*
16:00 – 18:00	**Registration of participants in hotel** *Resort hotel "Chayka"*		
16:30 – 17:30	Check in and accommodation of participants *Resort hotel "Chayka"*		
16:50 – 17:50	*Coffee break*		
18:00 – 18:20	*(Hall A)* **OPENING REMARKS**		

18:20 - 19:20	Plenary lecture *(Hall A)* **ALTERNATIVE NEURAL SYSTEMS: WHAT IS A NEURON FROM FUNCTIONAL AND EVOLUTIONARY STANDPOINTS** **Leonid Moroz** University of Florida, Florida, United States of America
19:20 – 19:50	*(Hall A)* **BIOLOGICAL FOUNDATIONS OF MENTAL HEALTH** **Yulia Chayka** Mental Health Research Center, Moscow
20:00 - 00:00	Welcome reception *(Hall C)*

	TUESDAY, AUGUST 26
8:00 - 9:30	*Breakfast*
9:30 - 10:20	Plenary lecture *(Hall A)* **MESOSCOPIC TRANSCRIPTOMIC AND CONNECTOMIC MAPPING OF THE BRAIN** **Muming Poo** Institute of Neuroscience, Center for Excellence in Brain Science and Intelligence Technology Chinese Academy of Sciences, Shanghai, China

10:25 – 10:55	Hall A **MOLECULAR AND CELLULAR NEUROSCIENCE** Chairs: Prof. Raul Gainetdinov, Prof. Maria Lagarkova	Hall B *CNN 2025 CONFERENCE* **NEUROTECHNOLOGIES AND NEUROELECTRONICS** Chairs: Dr. Alexey Mikhaylov, and Prof. Susanna Gordleeva
	NEW STORIES ABOUT INDUCED PLURIPOTENT STEM CELLS **Maria Lagarkova** Lopukhin Federal Research and Clinical Center of Physical-Chemical Medicine of the FMBA, Moscow	**ASTROCYTIC MODULATION OF NEURAL NETWORK DYNAMICS** **Susanna Gordleeva** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod

Time		
10:55 – 11:25	**PERSONALISED MODELING OF HUNTINGTON'S DISEASE USING DIRECT REPROGRAMMING: MOLECULAR AND CELLULAR ASPECTS OF PATHOGENESIS** **Nina Kraskovskaya** Institute of Cytology of the RAS, St. Petersburg	**ONLINE AND LIFELONG REINFORCEMENT LEARNING WITH MEMRISTIVE PLASTICITY AND TRACE VARIABLES** **Vyacheslav Demin** National Research Centre «Kurchatov Institute», Moscow
11:25 – 11:45	**INTESTINAL MICROBIOTA AND COGNITIVE IMPAIRMENTS IN AUTISM SPECTRUM DISORDER** **Irina Mukhina** Privolzhsky Research Medical University, Nizhny Novgorod	**MEMRILAB - AUTOMATED DESIGN SYSTEM FOR NEUROMORPHIC SYSTEMS** **Yuriy Agarkov** Polyketone LLC
11:45 – 12:00	*Coffee break*	
12:00 – 12:20	**THE ROLE OF SPOUT1 AND CCDC82 GENES IN THE PATHOGENESIS OF CONGENITAL MALFORMATIONS OF THE NERVOUS SYSTEM** **Elena Kondakova** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod; Sirius University of Science and Technology, Sirius Federal Territory	**FAST TIME-SYMMETRIC SYNCHRONIZATION OF ARTIFICIAL NEURON MODELS** **Vyacheslav Rybin** Saint Petersburg Electrotechnical University "LETI", St. Petersburg

12:20 – 12:40	**IN VITRO STUDY OF BRAIN CELLS METABOLISM IN MICE MODELS OF ALS AND FTLD WITH THE EXPRESSION OF ABERRANT HUMAN FUS [1-359]** **Andrey Vinokurov** Orel State University named after I.S. Turgenev, Orel	**SINGLE NEURON LEARNS TEMPORAL PATTERN VIA MEMRISTIVE STDP WITH PULSE-WIDTH MODULATION** **Natalia Kovaleva** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod
12:40 – 13:00		**DECELERATION THE VARIABLES OF THE DISCRETE RECURSIVE MODEL OF A NEURAL-LIKE GENERATOR TO SPEED UP AND SIMPLIFY CALCULATIONS** **Denis Bolshakov** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod
12:40 – 14:00	*Lunch*	
14:00 – 14:50	Plenary lecture *(Hall A)* **NEURAL MECHANISMS OF SOCIAL INFLUENCE** **Vasily Klucharev** National Research University "Higher School of Economics", Moscow	

14:55 – 15:25	Hall A **MOLECULAR AND CELLULAR NEUROSCIENCE**	Hall B *CNN 2025 CONFERENCE* **NEUROTECHNOLOGIES AND NEUROELECTRONICS**
	THE INFLUENCE OF SEROTONIN ON ENDOCANNABINOID CONTROL OF PERISOMATIC INHIBITION **Andrei Rozov** Federal Center of Brain Research and Neurotechnologies of the FMBA, Moscow	**MEMRISTOR-BASED NEUROELECTRONICS AND NEUROTECHNOLOGIES** **Alexey Mikhaylov** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod
15:25 – 15:45	**DYNAMIC TUBULIN MICROTUBULES AND STIM PROTEINS PARTICIPATE IN THE REGULATION OF CALCIUM ENTRY AND ENDOPLASMIC RETICULUM STRUCTURE IN NEURONS** **Anastasiya Rakovskaya** Peter the Great St. Petersburg Polytechnic University, St. Petersburg	**ELECTRIC CIRCUITS WITH MEMRISTIVE AND PHOTOSENSING COMPONENTS FOR NEUROMORPHIC OPTOELECTRONIC DEVICES** **Dmitrii Filatov** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod

15:45 – 16:05	**MECHANISM OF INTERACTION BETWEEN AMYLOID-BETA AND ALPHA4BETA2 NICOTINIC ACETYLCHOLINE RECEPTOR AND ITS ROLE IN ALZHEIMER'S DISEASE PATHOGENESIS** **Olga Kechko** Engelhardt Institute of Molecular Biology of the RAS, Moscow	**PHOTOSENSITIVE RESISTIVE SWITCHING AND SYNAPTIC PROPERTIES OF Cu/PARYLENE-PbTe/ITO MEMRISTORS** **Andrey Emelyanov** National Research Centre «Kurchatov Institute», Moscow
16:05 – 16:25	**COMMON CNV INVOLVING SHANK3 AND ALTERATIONS TO CNS IN INTELLECTUAL DISABILITY AND AUTISM** **Iuditskaia Maria** Mental Health Research Center, Moscow	**TRANSPARENT ZINC OXIDE MERISTIVE CROSSBAR STRUCTURES FABRICATION FOR ROBOTIC MACHINE VISION SYSTEMS** **Vladimir Smirnov** Southern Federal University, Rostov-on-Don
16:25 – 16:45	**AN IPSC-BASED MODEL OF NASCIMENTO SYNDROME REVEALS ABNORMAL CELL MIGRATION AND EPIGENETIC DYSREGULATION OF CYTOSKELETAL GENES IN NEURAL PROGENITORS** **Alexandra Bogomazova** Lopukhin Federal Research and Clinical Center of Physical-Chemical Medicine of the FMBA, Moscow	**THE USE OF MEMRISTIVE DEVICES IN NEUROELECTRONICS** **Sergey Shchanikov** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod
16:45 – 17:00	*Coffee break*	

17:00 – 17:40	(Hall A) *Lecture in memory of Alexey Babaev* **SUBVENTRICULAR ZONE AS A HUB OF NEOCORTICAL EVOLUTION AND DEVELOPMENT** **Victor Tarabykin** Sirius University of Science and Technology, Sirius Federal Territory
17:40 – 18:50	(Hall A) **WHAT'S THE FUTURE OF NEUROSCIENCE IN RUSSIA?** **Konstantin Anokhin** Dr.Sc. Med., Professor Academician of the RAS, Lomonosov Moscow State University, Moscow **Tagir Abdul-Khamidovich Aushev** Scientific Director, ANO "Scientific Center for Advanced Interdisciplinary Research "Idea", Moscow
18:50 – 20:00	*Dinner*
20:00 – 23:00	**Poster session**
23:00 – 00:00	Evening activities

8:00 – 9:30	*Breakfast*
9:30 – 11:00	*(Hall A)* **Elevator pitch**
11:00 – 11:20	*Coffee break*
11:20 – 12:10	Plenary lecture *(Hall A)* **NEUROMORPHIC SYSTEMS BASED ON ORGANIC MEMRISTIVE DEVICES** **Victor Erokhin** Institute of Materials for Electronics and Magnetism, Parma, Italy

12:15 – 12:30	Hall A	12:15 – 12:35	Hall B *CNN 2025 CONFERENCE*
	MOLECULAR AND CELLULAR NEUROSCIENCE		**NEUROTECHNOLOGIES AND NEUROELECTRONICS**
	LIPIDOMIC MAP OF THE HUMAN BRAIN AFFECTED WITH MAJOR DEPRESSIVE DISORDER **Dmitry Senko** Skolkovo Institute of Science and Technology, Moscow		**DIGITAL-TO-ANALOG SUPERCONDUCTING NEURAL NETWORKS FOR QUANTUM CLASSICAL INTERFACES** **Marina Bastrakova** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod

12:30 – 12:45	**INTRACELLULAR LOCALIZATION AND DYNAMICS OF G-PROTEIN GNAO1 EXPRESSION DURING NEUROGENESIS IN HEALTHY AND PATHOLOGY CONDITION** **Egor Volovikov** Lopukhin Federal Research and Clinical Center of Physical-Chemical Medicine of the FMBA, Moscow	12:35 – 12:55	**DOES SPIKE FIRING RATE DEPENDENCE IMPLY RATE CODING?** **Sergey Lobov** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod
12:45 – 13:00	**ADENOASSOCIATED VIRUSES: AN EFFECTIVE TOOL FOR MODELING AND GENE THERAPY OF NEUROLOGICAL DISEASES** **Maryana Bardina** Marlin Biotech LLC; Institute of Gene Biology of the RAS, Moscow	12:55 – 13:15	**STRESS BIOMARKERS FOR APPLIED TASKS: ANALYSIS OF VOICE AND CARDIAC SIGNALS** **Valeriia Demareva** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod
13:00 – 13:15	**JNK SIGNALING AS A THERAPEUTIC TARGET FOR NEURODEGENERATIVE DISEASES** **Natalia Muraleva** Federal Research Center Institute of Cytology and Genetics of the Siberian Branch of the RAS, Novosibirsk	13:15 – 13:35	**STRUCTURE OF MYOGRAPHIC DATA OF DIFFERENT MODALITIES** **Tatiana Lyalina** Motorica LLC

13:15 – 13:30	**SPATIAL TRANSCRIPTOMICS OF PREFRONTAL CORTEX IN NEWBORN HUMAN, CHIMPANZEE, AND MACAQUE** **Olga Efimova** Skolkovo Institute of Science and Technology, Moscow	13:35 – 13:55	**OVERCOMING PARESTHESIA DURING SPINAL CORD STIMULATION** **Boriss Sagalajev** Sirius University of Science and Technology, Sirius Federal Territory
13:30 – 14:40	*Lunch*		
14:40 – 15:10	Hall A **TRANSLATIONAL AND CLINICAL NEUROSCIENCE** Chairs: Prof. Vsevolod Belousov, Dr. Ekaterina Semina, Prof. Pavel Musienko		Hall B *CNN CONFERENCE* **NEURODYNAMICS, COMPUTATIONAL NEUROSCIENCE AND ARTIFICIAL INTELLIGENCE** Chairs: Prof. Victor Kazantsev, Dr. Alexei Ossadtchi
	SYNTHETIC NEUROTECHNOLOGIES: MODELING DISEASE STATES AND TREATMENT MODALITIES **Vsevolod Belousov** Federal Center of Brain Research and Neurotechnologies of the FMBA, Moscow		**TO BE ANNOUNCED** **Alexei Ossadtchi** National Research University "Higher School of Economics", Moscow
15:10 – 15:30	**APPLICATION OF BCI BASED ON FUNCTIONAL NEAR INFRARED SPECTROSCOPY IN POST STROKE REHABILITATION** **Pavel Bobrov** Institute of Higher Nervous Activity and Neurophysiology of the RAS, Moscow		**EMERGING OF INTELLIGENCE IN COMPLEX PHYSIOLOGICAL NETWORKS** **Alexey Zaikin** University College London, London, England; National Research University "Higher School of Economics", Moscow

15:30 – 15:50	**THE ROLE OF TETRAPEPTIDE NAEE IN THE DEVELOPMENT OF ALZHEIMERS DISEASE** **Vladimir Mitkevich** Engelhardt Institute of Molecular Biology of the RAS, Moscow	**ML-ACE: ARTIFICIAL INTELLIGENCE IN COGNITIVE FUNCTION EVALUATION (BASED ON ACE SCALE)** **Sergey Kazymaev** Clinical Hospital, Moscow
15:50 – 16:10	**ELECTROPHYSIOLOGICAL FEATURES OF SPREADING DEPOLARIZATIONS IN A WIDE FREQUENCY RANGE** **Azat Nasretdinov** Kazan Federal University, Kazan	**ANALYSIS OF SLEEP SPINDLES USING DEEP LEARNING APPROACH** **Tatiana Levanova** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod
16:10 – 16:30	**BLOOD LIPIDS IN AGING AND MENTAL DISORDERS** **Anna Tkachev** Skolkovo Institute of Science and Technology, Moscow	**ARTIFICIAL INTELLIGENCE-BASED METHODS FOR ANALYZING NEUROBIOLOGICAL DATA: FROM IMAGE PREPROCESSING TO THE DEVELOPMENT OF LARGE FUNDAMENTAL MODELS** **Ekaterina Pchitskaya** Peter the Great St. Petersburg Polytechnic University, St. Petersburg
16:30 – 16:50	**AN APPROACH TO THE SEARCH FOR NEUROACTIVE DRUG COMPLEXES ACTING BY MODULATING RECEPTOR SYSTEMS** **Tatiana Vyunova** LIFT Center LLC, Moscow	**BIOLOGICALLY RELATED MODEL OF SPEECH PROCESSING BASED ON BRAIN-RHYTHM HIERARCHICAL PREDICTIVE COMPUTATIONS** **Denis Zakharov** National Research University "Higher School of Economics", Moscow

Time		
16:50 – 17:10	**NEURONAL CORRELATES OF DEEP BRAIN STIMULATION EFFECTIVENESS IN PATIENTS WITH MOVEMENT DISORDERS** **Alexey Sedov** N.N. Semenov Federal Research Center for Chemical Physics of the RAS, Moscow	**CAN EEG OF AESTHETIC REACTIONS REVEAL WHO IS IN FRONT OF US, ARTIST OR NON-ARTIST?** **Natalia Shemyakina** Sechenov Institute of Evolutionary Physiology and Biochemistry of the RAS, St. Petersburg
17:10 – 17:35	*Coffee break*	
17:35 – 17:55	Hall A **TRANSLATIONAL AND CLINICAL NEUROSCIENCE** **NEUROPHOTONICS AND OPTOGENETICS** **SOFT NEUROPROSTHESES** **Pavel Musienko** LIFT Center LLC, Moscow; Saint-Petersburg State University, St. Petersburg	
17:55 – 18:15	**MORPHOGENETIC FACTORS OF THE BRAIN IN THE DEVELOPMENT OF COGNITIVE AND MENTAL DISORDERS** **Ekaterina Semina** Mental Health Research Center, Moscow	
18:15 – 18:25	**INHIBITION OF ONCOPROTEIN GANKYRIN IN HUMAN GLIOBLASTOMA CELL LINE** **Daria Travnikova** Skolkovo Institute of Science and Technology, Moscow	
18:25 – 18:45	**IN VIVO IMAGING TECHNIQUES FOR LABORATORY ANIMALS IN NEUROSCIENCE** **Alexandra Maier** BioLine LLC	

18:45 – 19:05	**LOCAL OPTOGENETIC STIMULATION OF PRESYNAPTIC NEURON TERMINALS USING LIGHT-ACTIVATED CHLORIDE CHANNEL GtACR2** **Alexey Malyshev** Institute of Higher Nervous Activity and Neurophysiology of the RAS, Moscow
19:05 – 19:25	**DYNAMICS OF SOMATO-SENSORY CORTEX TEMPERATURE AND LOCAL BLOOD FLOW VELOCITY DIFFER UNDER CORTICAL NEURON ACTIVITY MODULATION AND SYSTEMIC BLOOD FLOW ACTIVATION IN ANESTHETIZED MICE BRAINS** **Alexander Osypov** Institute of Theoretical and Experimental Biophysics of the RAS, Pushchino; Institute of Higher Nervous Activity and Neurophysiology of the RAS, Moscow
19:25 – 19:45	**OPTO(CHEMO)GENETIC MODULATION OF INTRACELLULAR CALCIUM LEVELS IN ASTROCYTES AS A PROMISING THERAPEUTIC STRATEGY FOR RESTORING COGNITIVE FUNCTIONS IN NEUROLOGICAL COMPLICATIONS** **Olga Vlasova** Peter the Great St. Petersburg Polytechnic University, St. Petersburg
19:45 – 20:05	**ALPHA3 – A LIGHTSHEET IMAGING MICROSCOPE FOR NEUROSCIENCE APPLICATIONS** **Igor Lyuboshenko** Azimuth Photonics
20:05 – 20:25	**POSITIVE ALLOSTERIC SERCA PUMP MODULATOR RESTORES IMPAIRED FUNCTIONING OF HIPPOCAMPAL NEURONAL ENSEMBLES AND COGNITIVE DEFECTS IN A MOUSE MODEL OF ALZHEIMERS DISEASE** **Evgenii Gerasimov** Peter the Great St. Petersburg Polytechnic University, St. Petersburg

19:45 – 21:25	*Dinner*
21:30 – 23:30	Event

8:00 – 9:30	*Breakfast*
9:30 – 10:20	Plenary lecture *(Hall A)* **CLOCKS FOR THE AGING BRAIN** **Claudio Franceschi** University of Bologna, Bologna, Italy

	Hall A *CNN CONFERENCE* **SYSTEMS AND COGNITIVE NEUROSCIENCE** Chairs: Prof. Alexander Khramov, Prof. Maxim Kireev	Hall B **NEUROPLASTICITY, LEARNING AND MEMORY** Chairs: Prof. Pavel Balaban, Prof. Konstantin Anokhin
10:25 – 10:55	**DECISION MAKING IN A PROBABILISTIC ENVIRONMENT UNDER DILEMMA BETWEEN EXPLOITATION AND EXPLORATION** **Boris Chernyshev** Moscow State University of Psychology and Education, Moscow	**A NEW PORTRAIT OF GDNF: A SMALL ISOFORM DJGDNF47 – A NEUROPROTECTOR OR A NEUROINDUCTOR?** **Galina Pavlova** Institute of Higher Nervous Activity and Neurophysiology of the RAS, Moscow
10:55 – 11:25	**COGNITIVE ASSESSMENT BY AI** **Mikhail Ivanchenko** Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod	**TEMPORAL DYNAMICS OF ASSOCIATIVE CONTEXTUAL FEAR MEMORIES STORAGE IN MICE** **Olga Ivashkina** Lomonosov Moscow State University, Moscow

11:25 – 11:40	*Coffee break*	
11:40 – 12:00	**MODEL OF EXECUTIVE FUNCTIONS IN 6-9 YEAR OLD CHILDREN BASED ON THE RESULTS OF STRUCTURAL ANALYSIS OF NEUROPSYCHOLOGICAL DATA** **Aleksei Korneev** Lomonosov Moscow State University, Moscow	**TRANSCRIPTOME ANALYSIS OF DIFFERENT PARTS OF THE HIPPOCAMPUS AFTER TRAINING** **Natalia Bal** Institute of Higher Nervous Activity and Neurophysiology of the RAS, Moscow
12:00 – 12:20	**INDIVIDUAL DIFFERENCES IN EMPATHY AND PSYCHOPATHY ARE REFLECTED IN FUNCTIONAL BRAIN CONNECTIVITY DURING PAIN PERCEPTION** **Dina Mitiureva** Institute of Higher Nervous Activity and Neurophysiology of the RAS, Moscow	**NEW POSSIBILITIES OF EQUIPMENT AND SOFTWARE FOR NEUROBIOLOGY** **Evgenii Gavrilov** Arstek
12:20 – 12:40	**TRAVELLING WAVES RECONSTRUCTION METHOD WITH MONTE CARLO SIMULATIONS BASED ON MEG DATA** **Darya Momotenko** National Research University "Higher School of Economics", Moscow	**SLEEP AND COGNITIVE AGING** **Olga Tikhomirova** The Nikiforov Russian Center of Emergency and Radiation Medicine, EMERCOM of Russia, St. Petersburg
12:40 – 14:00	*Lunch*	

14:00 – 14:50	Plenary lecture *(Hall A)* **EARLY ACTIVITY IN THE DEVELOPING BRAIN** **Roustem Khazipov** Kazan Federal University, Kazan	
14:50 – 15:50	*Hall A* **Roundtable discussion** **BENEFITS AND DANGERS OF ARTIFICIAL INTELLIGENCE** **Dr. Alexei Ossadtchi** National Research University "Higher School of Economics", Moscow	*Hall B* **Training** **HOLOTOMOGRAPHY — INNOVATIVE METHOD OF IN VITRO NEURON RESEARCH** **Olga Gusikhina** BioLine LLC
15:50 – 16:10	*Coffee break*	
16:10 - 16:40	Hall A *CNN CONFERENCE* **SYSTEMS AND COGNITIVE NEUROSCIENCE** **METRIC STRUCTURAL HUMAN CONNECTOMES: LOCALIZATION AND MULTIFRACTALITY OF EIGENMODES** **Alexander Gorsky** Institute for Information Transmission Problems of the RAS (Kharkevich Institute), Moscow	Hall B **NEUROPLASTICITY, LEARNING AND MEMORY** **NEUROGLIAL INTERACTIONS IN SPACE AND TIME** **Anastasia Borodinova** Institute of Higher Nervous Activity and Neurophysiology of the RAS, Moscow

16:40 – 17:10	**BRAIN SYSTEMS FOR RAPID SPEECH ANALYSIS** **Olga Sysoeva** Institute of Higher Nervous Activity and Neurophysiology of the RAS, Moscow	**EXPLOITING MECHANISMS OF SHORT-TERM CALCIUM-DEPENDENT PLASTICITY FOR GENE THERAPY OF EPILEPSY** **Evgeny Nikitin** Institute of Higher Nervous Activity and Neurophysiology of the RAS, Moscow
17:10 – 17:30	**DESIGNING METHODOLOGICAL FRAMEWORK FOR INVESTIGATING NEUROBIOLOGICAL MARKERS OF ACADEMIC PERFORMANCE** **Ivan Brak** R&D Company Centre of Complex Solutions, LTD; RUDN University, Moscow; Privolzhsky Research Medical Universty, Nizhny Novgorod	**EFFECT OF ASSOCIATIVE LEARNING AND SYSTEMS CONSOLIDATION ON THETA SYNCHRONIZATION** **Larisa Poznyak** Moscow State University of Psychology and Education, Moscow
17:30 – 17:50	**INFLUENCE OF TAAR AGONISTS AND ANTAGONISTS ON HUMAN EMOTIONAL REACTIONS** **Elena Yakimova** National Research University "Higher School of Economics", Moscow	**MODELING ASSOCIATIVE FEAR LEARNING WITH MULTISENSORY CUES IN MICE** **Anna Ivanova** Lomonosov Moscow State University, Moscow

17:50 – 18:10	**EEG AND fMRI REACTIONS IN PROCESSING SELF- AND OTHER-RELATED STIMULI** **Alexander Savostyanov** Scientific Research Institute of Neurosciences and Medicine, Novosibirsk
18:10 – 19:10	*Hall B* **Roundtable discussion** **PARTNERSHIP IN THE RESEARCH COMMUNITY** **Andrey Vinokurov** Orel State University named after I.S. Turgenev, Orel
19:30 – 20:00	*Hall A* **CLOSING CEREMONY**
20:00 – 00:00	*Hall C* **Dinner**

	FRIDAY, AUGUST 29
8:00-10:30	*Breakfast*
12:00	Transfer to Nizhny Novgorod

Elevator pitch

WEDNESDAY, AUGUST 27

9:30 – 11:00

Moderator Dr. Elena Kondakova

1. **NEUROPHARMACOLOGICAL EFFECTS OF TAAR RECEPTOR AGONISTS AND ANTAGONISTS ON NEUROCOGNITIVE MECHANISMS OF DECISION MAKING AND ATTITUDES TOWARDS RISK**
   Alisa Godovanets
   National Research University "Higher School of Economics", Moscow

2. **EVALUATION OF COMPLIANCE OF PRECLINICAL STUDIES OF PEPTIDE NEUROPROTECTORS WITH CURRENT RECOMMENDATIONS FOR IMPROVING REPRODUCIBILITY**
   Vladimir Alipov
   N.P. Bekhtereva Educational Center, St. Petersburg

3. **THE IMPACT OF CHRONIC UNPREDICTABLE MILD STRESS ON COGNITIVE FUNCTION FORMATION IN Cyfip +/- mice**
   Daria Kuzmina
   Privolzhsky Research Medical Universty, Nizhny Novgorod

4. **ALTERNATIVE SPLICING CAUSES REGULATES DISCTINT MORPHOLOGY OF NEURONAL AND GLIAL CELLS LEADING TO BRAIN REGION VARIABILITY**
   Mariia Cherniaeva
   Skolkovo Institute of Science and Technology, Moscow

5. **METRIC FRAMEWORK OF SYNCHRONOUS STATES IDENTIFICATION IN SPIKING NEURONAL NETWORKS**
   Daniil Radushev
   National Research University "Higher School of Economics", Moscow

6. **MINIMALLY INVASIVE RECORDING OF SPREADING DEPOLARIZATION WAVES IN RATS**
   Bulat Mingazov
   Kazan Federal University, Kazan

7. **THE DEVELOPMENT OF IMMUNOTHERAPEUTIC APPROACHES BASED ON THE INDUCTION OF IMMUNOGENIC CELL DEATH FOR THE TREATMENT OF HUMAN GLIOMAS**
Victoria Turubanova
Sirius University of Science and Technology, Sirius Federal Territory

8. **NEUROPHYSIOLOGICAL BASIS OF DIFFERENTIATED DBS THERAPY FOR DYSTONIA WITH VARIOUS TYPES OF TREMOR**
Indiko Dzhalagoniya
N.N. Semenov Federal Research Center for Chemical Physics of the RAS, Moscow

9. **THE ROLE OF TRANSCRIPTION FACTORS NEUROD IN MOUSE CORTICOGENESIS**
Maria Gavrish
Sirius University of Science and Technology, Sirius Federal Territory; Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod

10. **EPHAPTIC COUPLING AND REGULAR FIRING OPTIMIZE TACTILE SIGNAL TRANSMISSION IN THE DORSAL COLUMN**
Pavel Kondrakhin
Sirius University of Science and Technology, Sirius Federal Territory

11. **PALLIDAL ACTIVITY IN PARKINSONIAN PATIENTS WITH FOCAL DYSTONIA**
Philip Pavlovsky
N.N. Semenov Federal Research Center for Chemical Physics of the RAS, Moscow

12. **GENETIC EFFECTS OF SEX CHROMOSOMES ON THE MORPHO-FUNCTIONAL CHARACTERISTICS OF THE NEURON-GLIAL NETWORK IN VITRO IN NORMAL AND PATHOLOGICAL CONDITIONS**
Olesya Shirokova
Privolzhsky Research Medical Universty, Nizhny Novgorod

Poster session

TUESDAY, AUGUST 26

20:00 – 23:00

SYSTEMS AND COGNITIVE NEUROSCIENCE

1. **HEARTBEAT EVOKED RESPONSES AND DECISION-MAKING IN BIPOLAR DISORDER: AN MEG STUDY**
   Marina Ivanova
   National Research University "Higher School of Economics", Moscow

2. **COGNITIVE PHENOMENOLOGY OF SUCCESSIVE AND SIMULTANEOUS BRAIN PROCESSES**
   Mariya Kaverina
   «N. N. Burdenko National Medical Research Center of Neurosurgery» of the Ministry of Health of the Russian Federation, Moscow

3. **PSYCHOPHYSIOLOGICAL MECHANISMS OF ADAPTATION IN EDUCATIONAL ACTIVITIES IN DIGITAL SPACE**
   Leonid Kapilevich
   National Research Tomsk State University, Tomsk

4. **RELATIONSHIP OF EEG ENGAGEMENT INDEX AND ERP P300 PARAMETERS IN MIDDLE-AGED PERSONS: THE STADY IN RUSSIAN ARCTIC**
   Liliya Poskotinova
   N. Laverov Federal Center for Integrated Arctic Research of the Ural Branch of the RAS, Arkhangelsk

5. **SENSE-MAKING AND COMPLIANCE ACROSS PROLONGED MONOTONOUS TASKS (OCULOGRAPHIC STUDY)**
   Elena Pozdnyakova
   Moscow State Institute of International Relations (University) of the Ministry of Foreign Affairs of the Russian Federation, Moscow

6. **AGE-RELATED CHANGES IN COGNITIVE FUNCTIONS**
   Mikhail Krivonosov
   Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod

7. **NEUROPHYSIOLOGICAL CORRELATES OF PHONOLOGICAL PROCESSING AND THEIR RELATIONSHIP WITH READING SKILLS IN CHILDREN**
Svetlana Dorofeeva
National Research University "Higher School of Economics", Moscow

8. **HEARTBEAT EVOKED RESPONSES AND DECISION-MAKING IN BIPOLAR DISORDER: AN MEG STUDY**
Victoria Moiseeva
National Research University "Higher School of Economics", Moscow

9. **SEARCH FOR MARKERS OF CHANGES IN MENTAL STATE: THE DYNAMIC OF OCULAR MICROTREMOR IN SCHIZOPHRENIA**
Irina Shoshina
Saint-Petersburg State University, St. Petersburg

10. **SENSE-MAKING AND COMPLIANCE ACROSS PROLONGED MONOTONOUS TASKS (OCULOGRAPHIC STUDY)**
Tatyana Sidorova
Moscow State Institute of International Relations (University) of the Ministry of Foreign Affairs of the Russian Federation, Moscow

11. **AUTOMATED STIMULUS DELIVERY FOR TASTE-BASED NEUROIMAGING IN SENSORY AND CONSUMER NEUROSCIENCE**
Sarah Anderson
National Research University "Higher School of Economics", Moscow

12. **EEG CORRELATES OF VISUAL PROCESSING AND THEIR ROLE IN READING SKILLS DEVELOPMENT IN CHILDREN**
Tatiana Eremicheva
National Research University "Higher School of Economics", Moscow

13. **COGNITIVE AGE PREDICTION BASED ON A MINIMAL SET OF COGNITIVE TESTS**
Tatiana Khabarova
Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod

14. **BETA DESYNCHRONIZATION IN THE CONTRALATERAL MOTOR CORTEX AS A POSSIBLE ADDITIONAL EVIDENCE FOR NON-SELECTIVE INHIBITORY CONTROL INVOLVEMENT DURING ACTION STOPPING**
Maria Kokhova
N.P. Bechtereva Institute of the Human Brain of the RAS, St. Petersburg

15. **CHANGES IN ELECTRODERMAL ACTIVITY DURING THE PERFORMANCE OF DEEP RELAXATION TRAINING**
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