



PRELIMINARY PROGRAM

DAY 1: OCTOBER 30, 2017

8:00-9:00	Registration+Coffee		
Hall	Pirogov Hall		
9:00-9:15	Opening <i>A. Urbani, A. Archakov, A. Svistunov, V. Chekhonin, F. Corrales</i>		
9:15-9:45	PL1 Molecular Genetics of the Rare Tumors <i>Anna Kudryavtseva, Engelhardt Institute of Molecular Biology, Russia</i>		
9:45-10:00	Break		
Halls	Pirogov Hall	Abrikosov Hall	
10:00-12:00	S1 Mass-spectrometry in Clinical Applications	S2 Genomics and Beyond	
	Co-chairs: <i>David Goodlett, University of Maryland, USA</i> <i>Fernando Corrales, National Biotechnology Center, CSIC, Spain</i>	Co-chairs: <i>David Tabb, Stellenbosch University, South Africa</i> <i>Sergey Moshkovskii, Pirogov Russian National Research Medical University, Russia</i>	
12:00-13:30	Lunch Break		
Hall	Pirogov Hall		
13:30-14:00	PL2 Longitudinal Sampling in Proteomic Biomarker Discovery <i>David Goodlett, University of Maryland, USA</i>		
14:00-14:30	PL3 How Sustainable Biobanking Can Drive Your Proteomics Research <i>Erik Steinfelder, BBMRI-ERIC Assembly, Austria</i>		
14:30-15:30	Coffee Break and Poster Session		
Halls	Pirogov Hall	Room 274	Room 265
15:30-17:30	S3 Precision Medicine	WP1 How to Work with Human Genome?	WP2 Proteoinformatics
	Co-chairs: <i>Garry Corthals, University of Amsterdam, Netherlands</i> <i>Aleksandr Tanas, Research Centre for Medical Genetics, Russia</i>	<i>Andrey Afanasiev, IBinom, Russia</i>	Moderators: <i>Veit Schwammle and Julian Uszkoreit, EuBIC</i>
17:30-19:30	Welcome Event and Poster Session		

PL – Plenary Lecture, S – Session, WP – Workshop Package

DAY 2: OCTOBER 31, 2017

8:00-9:00	Registration+Coffee		
Hall	Pirogov Hall		
9:00-9:30	PL4 Can We Predict RNA from Protein? <i>Nikolaus Fortenly, Research Center for Molecular Medicine, Austria</i>		
9:30-10:00	PL5 How Many Proteins are There? The Width and Depth of Human Proteome <i>Elena Ponomarenko, Institute of Biomedical Chemistry, Russia</i>		
10:00-10:15	Break		
Halls	Pirogov Hall	Abrikosov Hall	
10:15-12:15	S4 Infections and Resistance	S5 Immunomics	
	Co-chairs: <i>Thierry Naas, Hopital Bicetre, France</i> <i>Olga Tarasova, Institute of Biomedical Chemistry, Russia</i>	Co-chairs: <i>Michael Przybylski, Steinbeis Centre for Biopolymer Analysis and Biomedical Mass Spectrometry, Germany</i> <i>Sergei Larin, Dmitry Rogachev National Research Center, Russia</i>	
12:15-13:30	Lunch Break		
Hall	Pirogov Hall		
13:30-14:00	PL6 The Human Protein Atlas - Implications for Human Biology and Precision Medicine <i>Cecilia Lindskog, Uppsala University, Sweden</i>		
14:00-14:30	PL7 Post-Genome Technologies as a Toolbox for Pro-Active Monitoring of Health <i>Ancha Baranova, George Mason University, USA</i>		
14:30-15:30	Coffee Break and Poster Session		
Halls	Pirogov Hall	Room 265	Room 274
15:30-17:30	S6 Cells and Embryos	WP3 Drug Development Classroom	WP4 Progenesis QI Software
	Co-chairs: <i>Cecilia Lindskog, Uppsala University, Sweden</i> <i>Andrey Zamyatnin, Sechenov First Medical University, Russia</i>	Moderator: <i>Andrey Khudoshin, Elsevier, Russia</i>	Moderator: <i>Paul Goulding, Nonlinear Dynamics, UK</i>

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DAY 3: NOVEMBER 1, 2017

8:00-9:00	Registration+Coffee		
Hall	Pirogov Hall		
9:00-9:30	PL8 Personalised Nutrition: New Perspectives in Proteomics <i>Paola Roncada, Istituto Sperimentale Italiano L. Spallanzani, Italy</i>		
9:30-10:00	PL9 Multiplex Quantitation of Protein Expression and Phosphorylation Level in Clinical Specimen <i>Christoph Borchers, University of Victoria, Canada</i>		
10:00-10:15	Break		
Halls	Pirogov Hall	Abrikosov Hall	
10:15-12:15	S7 Food, Nutrition and Microbiome Co-chairs: <i>Paola Roncada, Istituto Sperimentale Italiano L. Spallanzani, Italy</i> <i>Svetlana Murzina, Institute of Biology Karelian Research Centre RAS, Russia</i>	S8 Brain and Neurodegeneration Co-chairs: <i>Evgeniy Petrotchenko, University of Victoria, Canada</i> <i>Ekaterina Khrameeva, Skolkovo Institute of Science and Technology, Russia</i>	
	Lunch Break		
12:15-13:30	Pirogov Hall		
13:30-14:30	Young Investigators Session		
14:30-15:00	Coffee Break		
Halls	Pirogov Hall	Room 265	Room 274
15:00-17:00	S9 Health - Age - Sport Co-chairs: <i>Igor Vykhodets, Ministry of Health, Russia</i> <i>Arthur Kopylov, Institute of Biomedical Chemistry, Russia</i>	WP5 Food Intolerance Moderator: <i>Arkady Rosenstein and Marina Rosenstein, ImmunoHealth Clinic, USA</i>	WP6 Quality Control Assessment from Multi-Month Data Sets Moderator: <i>David Tabb, Stellenbosch University, South Africa</i>
	Closing Lecture(PL10) Biomarkers of Aging <i>Alexey Moskalev, Institute of Biology of Komi Science Center, Russia</i>		
17:30-17:45	Closing Ceremony A. Lisitsa, F. Corrales., A. Svistunov		

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MASS-SPECTROMETRY IN CLINICAL APPLICATIONSCo-chairs: *David Goodlett, Fernando Corrales*

10:00-10:20	THE PROTEOME QUEST TO UNDERSTAND BIOLOGY AND DISEASE <i>Fernando Corrales, National Biotechnology Center, CSIC, Spain</i>
10:20-10:40	TARGETED SCREEN OF NORMAL PROTEOME OF CANDIDATES TO AUSTRONAVTS <i>Victor Zgoda, Institute of Biomedical Chemistry, Russia</i>
10:40-11:00	IdentiPy: AN OPEN-SOURCE PYTHON-BASED SEARCH ENGINE PLATFORM FOR PROTEIN IDENTIFICATION AND QUANTIFICATION IN PROTEOMICS <i>Lev Levitsky, Institute for Energy Problems of Chemical Physics, Russia</i>
11:00-11:15	AGE AND TISSUE DEPENDENT CHANGES IN THE EPIGENOME MEASURED BY MIDDLE-DOWN MS <i>Veit Schwämmle, University of Southern Denmark, Denmark</i>
11:15-11:30	VALIDATION OF VARIANT PEPTIDES IN CANCER CELL LINES VIA DE NOVO SEQUENCING <i>Kira Vyatkina, Saint Petersburg State University, Russia</i>
11:30-11:45	A NEW LC CONCEPT FOR THE CLINICAL PROTEOMICS <i>Alexandre Podtelejnikov, EVOSEP, Denmark</i>
11:45-12:00	TOOLS AND WORKFLOWS FOR REPRODUCIBLE DATA ANALYSIS <i>Julian Uszkoreit, Ruhr-Universität Bochum, Germany</i>

GENOMICS AND BEYONDCo-chairs: *David Tabb, Sergey Moshkovskii*

10:00-10:20	PROTEOGENOMICS OF CLINICAL ISOLATES OF MYCOBACTERIUM TUBERCULOSIS <i>David Tabb, Stellenbosch University, South Africa</i>
10:20-10:40	PROTEOGENOMICS OF ADENOSINE-TO-INOSINE RNA EDITING IN MODEL ORGANISMS <i>Sergei Moshkovskii, Pirogov Russian National Research Medical University, Russia</i>
10:40-11:00	PHARMACOGENOMICS – UPDATE AND FUTURE DIRECTIONS <i>Matthias Schwab, Institute of Clinical Pharmacology, Germany</i>
11:00-11:15	BREAST CANCER MOLECULAR CLASSIFICATION BASED ON AN NGS GENOME-WIDE DNA METHYLATION ANALYSIS BY REDUCED REPRESENTATION BISULFITE SEQUENCING <i>Vladimir Strelnikov, Research Centre for Medical Genetics, Russia</i>
11:15-11:30	DNA DAMAGE AS EPIGENETIC SIGNAL <i>Dmitry Zharkov, Institute of Chemical Biology and Fundamental Medicine, Russia</i>
11:30-11:45	SELECTIVE AFFINITY PRECIPITATION WITH APTAMERS GREATLY IMPROVES SENSITIVITY OF PROTEIN DETECTION BY SINGLE REACTION MONITORING MASS SPECTROMETRY <i>Sergey Radko, Institute of Biomedical Chemistry, Russia</i>
11:45-12:00	BIOBANKING AS BASIC INSTRUMENT FOR BIOMEDICAL RESEARCH <i>Artem Muravev, Qvados-Bio, Russia</i>

PRECISION MEDICINE

Co-chairs: **Garry Corthals**, **Aleksandr Tanas**

15:30-15:50	<p>ENGAGING RESEARCH COMMUNITIES WITH CLINICS: TOWARDS INTERPETING AND APPLYING PROTEOME INFORMATION</p> <p><i>Garry Corthals, University of Amsterdam, Netherlands</i></p>
15:50-16:10	<p>EXPRESSION OF NATURAL ANTISENSE TRANSCRIPTS IN HUMAN GENOME</p> <p><i>Yuriy Orlov, Institute of Cytology and Genetics SB RAS, Novosibirsk State University and Institute of Marine Biology Researches of RAS, Russia</i></p>
16:10-16:30	<p>IMPACT OF PROTEOMICS IN LABORATORY MEDICINE: FROM TOTAL LAB AUTOMATION TO THE MARS MISSIONS</p> <p><i>Andrea Urbani, Institute of Biochemistry and Clinical Biochemistry, Catholic University of the "Sacred Heart", Italy</i></p>
16:30-16:45	<p>PLASMA METABOLOME ANALYSIS IN HEALTH AND DISEASE</p> <p><i>Petr Lokhov, Institute of Biomedical Chemistry, Russia</i></p>
16:45-17:00	<p>GENOMICS IN REPRODUCTIVE MEDICINE</p> <p><i>Elena Okuneva, Genotek, Russia</i></p>
17:00-17:15	<p>GENOME-WIDE BISULFITE DNA SEQUENCING TECHNOLOGY FOR BIOMEDICAL RESEARCH</p> <p><i>Aleksandr Tanas, Research Centre for Medical Genetics, Russia</i></p>
17:15-17:30	<p>NEXT GENERATION PROTEOMICS TECHNOLOGY FOR REPRODUCIBLE AND PRECISE PROTEIN QUANTIFICATION</p> <p><i>Hongqian Yang, Thermo Scientific, Sweden</i></p>

INFECTIONS AND RESISTANCE

Co-chairs: *Thierry Naas, Olga Tarasova*

10:15- 10:35	<p>NGS TO DETERMINE SUSCEPTIBILITY TO ANTIBIOTICS: CHANCES AND PERSPECTIVES</p> <p><i>Thierry Naas, Hospital Bicetre, France</i></p>
10:35- 10:55	<p>ROLE OF IT IN DATA-COLLECTION AND DATA-ANALYTICS FOR RESISTANCE TO ANTIBIOTICS</p> <p><i>Mikhail Edelstein, Institute of Antimicrobial Chemotherapy, Smolensk State Medical University, Russia</i></p>
10:55- 11:15	<p>DECODING THE SEROLOGIC RESPONSE TO THE CANDIDA ALBICANS PROTEOME IN PATIENTS WITH INVASIVE CANDIDIASIS: FROM BIOMARKER DISCOVERY TO ASSAY VALIDATION</p> <p><i>Concha Gil, Complutense University of Madrid, Spain</i></p>
11:15- 11:30	<p>GENOMIC CHARACTERISTIC OF INVASIVE STREPTOCOCCUS PNEUMONIAE CIRCULATED IN THE REPUBLIC OF BELARUS</p> <p><i>Anna Kharkhal, The Republican Research and Practical Center for Epidemiology and Microbiology, Republic of Belarus</i></p>
11:30- 11:45	<p>MASS-SPECTROMETRY BASED SNP-TYPING OF MICROORGANISMS TO ACHIEVE HIGHER COVERAGE FOR EPIDEMIOLOGY OF RESISTANCE TO CHEMOTHERAPY</p> <p><i>Eugene Shek, Smolensk State Medical University, Russia</i></p>
11:45- 12:00	<p>COMPUTER-AIDED HIV RESISTANCE PREDICTION</p> <p><i>Olga Tarasova, Institute of Biomedical Chemistry, Russia</i></p>
12:00- 12:15	<p>HIGH PARAMETERS MASS CYTOMETRY FOR DISCOVERY AND DEEP PROFILING OF RARE CELL POPULATIONS</p> <p><i>Alexander Kolobov, Helicon, Russia</i></p>

IMMUNOMICS

Co-chairs: *Michael Przybylski, Sergei Larin*

10:15-10:35	<p>IMMUNERT: NEW APPROACHES FOR ENZYME REPLACEMENT THERAPY OF LYSOSOMAL STORAGE DISEASES BY MASS SPECTROMETRIC IDENTIFICATION OF ANTIBODY EPITOPES <i>Michael Przybylski, Steinbeis Centre for Biopolymer Analysis and Biomedical Mass Spectrometry, Germany</i></p>
10:35-10:55	<p>MEMBRANE PROTEOME OF RARE NEUROENDOCRINE TUMORS. COMBINED FORCES OF HPTC AND GLYCO-CAPTURE <i>Jiri Petrak, BIOCEV, Charles University, Czech Republic</i></p>
10:55-11:15	<p>HOW TUMOR ESCAPES THE ATTENTION OF THE IMMUNE SYSTEM? MECHANISMS AND POSSIBLE WAYS OF THERAPEUTICAL NEGOTIATION <i>Sergei Larin, Dmitry Rogachev National Research Center, Russia</i></p>
11:15-11:30	<p>RAPID DETERMINATION OF BREAST CANCER BOUNDARIES USING TISSUE SPRAY IONIZATION MASS SPECTROMETRY <i>Vitaliy Chagovets, Kulakov Research Center for Obstetrics, Gynecology and Perinatology, Russia</i></p>
11:30-11:45	<p>THE GENERATION AND USE OF RECOMBINANT SINGLE-DOMAIN ANTIBODIES TO FIGHT INFECTIOUS DISEASES <i>Sergey Tillib, Institute of Gene Biology, Russia</i></p>
11:45-12:00	<p>PROTEOME PROFILING OF ANTI-CANCER DRUGS <i>Alexey Chernobrovkin, Karolinska Institutet, Sweden</i></p>
12:00-12:15	<p>COMPARATIVE PROTEOMICS FOR STUDYING DIFFERENT SENSITIVITY OF GLIOBLASTOMA CELLS TO VESICULAR STOMATITIS VIRUS <i>Irina Tarasova, Institute for Energy Problems of Chemical Physics, Russia</i></p>

CELLS AND EMBRYOS

Co-chairs: *Cecilia Lindskog, Andrey Zamyatnin*

15:30- 15:50	<p>SECRETOM OF HUMAN EMBRYOS IN IVF MEDIA - CAN IT BE USED FOR IMPROVED IMPLANTATION SUCCESS RATES?</p> <p><i>Goran Mitulović, Medical University of Vienna, Austria</i></p>
15:50- 16:10	<p>PROTEOMIC STUDY OF THE EFFECTS OF STEM CELLS IN A T-CELL DEFICIENT BALLOON COMPRESSED SPINAL CORD INJURY RAT MODEL</p> <p><i>Johannes de Munter, Maastricht University, Netherlands</i></p>
16:10- 16:30	<p>CRYOBANK AS AN ATTRIBUTE OF OMICS</p> <p><i>Alexei Sazanov, Saint-Petersburg State Technological Institute, Russia</i></p>
16:30- 16:45	<p>REGENERATION OF BONE TISSUE IS DETERMINED BY THE PARTICIPATION OF IMMUNOCOMPETENT CELLS</p> <p><i>Olga Berdugina, Ural Research Institute Phthisiopulmonology, Russia</i></p>
16:45- 17:00	<p>METABOLITES PROFILING IN CULTURE MEDIUMS OF HUMAN EMBRYOS</p> <p><i>Mikhail Bobrov, Kulakov Research Center for Obstetrics, Gynecology and Perinatology, Russia</i></p>
17:00- 17:15	<p>3D BUCCAL EPITHELIUM CELL CULTURE FOR THE DEVELOPMENT OF EPITHELIAL TISSUES BIOEQUIVALENT</p> <p><i>Peter Timashev, Institute for Regenerative Medicine, Sechenov University, Russia</i></p>
17:15- 17:30	<p>FLOWING VISUALIZING CYTOMETRY AMNIS: FEATURES OF THE USE IN CLINICAL DIAGNOSIS</p> <p><i>Sergey Irikhin, DiaM, Russia</i></p>

FOOD, NUTRITION AND MICROBIOMECo-chairs: *Paola Roncada, Svetlana Murzina*

10:15-10:35	PROTEOMICS AND ITS APPLICATION TO IMPROVE DIAGNOSIS AND MANAGEMENT OF THE FOOD ALLERGIC PATIENT <i>Karin Hoffmann-Sommergruber, Medical University of Vienna, Austria</i>
10:35-10:55	DEVELOPMENT OF ENZYMATIC TOOLS FOR EFFECTIVE GLUTEN DETOXIFICATION <i>Andrey Zamyatnin, Sechenov First Medical University, Russia</i>
10:55-11:15	MARINE NATURAL RESOURCES – EXAMPLES OF HEALTH BENEFICIAL ACTIVE COMPONENTS <i>Klara Stensvåg, UiT The Arctic University of Norway, Norway</i>
11:15-11:30	OH, MY GUT! CROWDSOURCING IN MICROBIOMICS <i>Dmitry Alexeev, Knomics, Russia</i>
11:30-11:45	STATISTICAL PROPERTIES OF SPECIFIC HUMAN IGG. MATHEMATICAL MODELS IN IMMUNE DIETETICS <i>Arkady Rosenstein, ImmunoHealth, USA</i>
11:45-12:00	THE HUMAN INTESTINAL MICROBIOTA IS A RESERVOIR OF RESISTANCE TO ANTIBIOTICS <i>Evgenii Olekhovich, Federal Research and Clinical Center of Physical-Chemical Medicine, Russia</i>
12:00-12:15	timsTOF Pro - THE NEW STANDARD FOR SHOTGUN PROTEOMICS <i>Dmitry Burmykin, Bruker Ltd., Russia</i>

BRAIN AND NEURODEGENERATIONCo-chairs: *Evgeniy Petrotchenko, Ekaterina Khrameeva*

10:15-10:35	STRUCTURAL PROTEOMICS OF NEURODEGENERATIVE DISEASES <i>Evgeniy Petrotchenko, University of Victoria, Canada</i>
10:35-10:55	GENOTYPING AND PHENOTYPING OF ISOZYMES OF CYTOCHROME P-450 IN PATIENTS WITH ALCOHOL USE DISORDER: CORRELATION WITH HALOPERIDOL PLASMA CONCENTRATION <i>Mikhail Zastroshin, Russian Medical Academy of Continuous Professional Education, Russia</i>
10:55-11:15	METABOLIC CHANGES IN AUTISM AND THEIR EVOLUTION <i>Ekaterina Khrameeva, Skolkovo Institute of Science and Technology, Russia</i>
11:15-11:30	OMIC SEQUENCING IN DIAGNOSTICS OF INTELLECTUAL DISABILITY: WES/WGS/TRIO <i>Alexander Lavrov, Research Centre for Medical Genetics, Russia</i>
11:30-11:45	COMPARATIVE PROTEOMIC ANALYSIS OF SERUM FROM PATIENTS WITH BIPOLAR DISORDER AND PARANOID SCHIZOPHRENIA <i>Liudmila Smirnova, Tomsk National Research Medical Center of the Russian Academy of Sciences, Russia</i>
11:45-12:00	MOLECULAR ASYMMETRY OF THE BRAIN: DIFFERENTIAL GENE EXPRESSION IN THE HUMAN FRONTOPOLAR CORTEX <i>Irina Dolina, National Research Center "Kurchatov Institute", Russia</i>
12:00-12:15	SWATH™: MASS SPECTROMETRY WORKFLOW TO COLLECT COMPREHENSIVE PATIENT DATA FOR METABOLOMICS AND PROTEOMICS <i>Volker Kruff, SCIEX, Germany</i>

HEALTH - AGE - SPORTCo-chairs: *Igor Vykhodets, Arthur Kopylov*

15:30-15:50	GENDER, CONTRACEPTIVES AND INDIVIDUAL METABOLIC PREDISPOSITION SHAPE A HEALTHY PLASMA LIPIDOME <i>Andrej Shevchenko, Max Planck Institute of Molecular Cell Biology and Genetics, Germany</i>
15:50-16:10	DIGITAL HEALTHCARE REVOLVES THE POSTGENOME ERA <i>Segal Eddie, Mobile TeleSystems PJSC ("MTS"), Russia</i>
16:10-16:30	PROTEIN EXPRESSION CHANGES CAUSED BY MICROGRAVITY IN SPACE <i>Eugene Nikolaev, Skolkovo Institute of Science and Technology, Russia</i>
16:30-16:45	COMBATING DOPING IN SPORTS: PROBLEMS AND PERSPECTIVES <i>Igor Vykhodets, Ministry of Health, Russia</i>
16:45-17:00	"CORTICOID-16" PROJECT: SIMPLE ANSWERS FOR THE COMPLEX ATHLETES <i>Dmitry Korotaev, Nasonova Institute of Rheumatology, Russia</i>
17:00-17:15	NEXT-GEN SEQ FOR BETTER CARDIO-DIAGNOSTICS OF PROFESSIONAL ATHLETES <i>Olga Chumakova, Federal Scientific Clinical Centre, Russia</i>
17:15-17:30	SPONSOR PRESENTATION RusChemBio