

	21.05.2018 (Monday)
08:00-09:00	Registration
Hall	Pirogov Hall, 2nd floor
09:00-11:10	Opening ceremony, Plenary session
	Greeting speech
09:00-09:10	Petr Glybochko , Chairman of the Organizing Committee, M.D., Professor, Full Member of the RAS, Rector, I.M. Sechenov First Moscow State Medical University (Sechenov University) Veronika Skvortsova , Minister of Healthcare of the Russian Federation Olga Vasilyeva , Minister of Education and Science of the Russian Federation Denis Manturov , Minister of Industry and Trade of the Russian Federation Igor Kagramanyan , First Deputy Chair of the Federation Council Committee on Social Policy of the Russian Federation Teruhito Mochizuki , PhD, Professor, Chairman of the International Expert Council, Sechenov University, Moscow, Russia; Chairman, Department of Radiology, Ehime University School of Medicine, Matsuyama, Japan
09:10-09:40	Sechenov Biomedical Science & Technology Park: Strategic Development Denis Butnaru , MD, PhD, Head, Sechenov Biomedical Science & Technology Park, Sechenov University, Moscow, Russia
09:40-10:10	Cutting-edge research in psychiatric neurobiology: towards precision psychiatry Klaus-Peter Lesch , M.D., PhD, Professor, Head of the Laboratory of Psychiatric Neurobiology, Sechenov University, Moscow, Russia; University Hospital of Würzburg, Würzburg, Germany
10:10-10:40	Evolutionary separation of epiphyseal cartilage into an individual organ allows skeletal growth on land Andrei Chagin , PhD, Associate Professor, Head of the laboratory of Skeletal tissue regeneration Institute for Regenerative Medicine, Sechenov University, Moscow, Russia; Karolinska Institute, Stockholm, Sweden
10:40-10:55	Personalized medicine in allergy through molecular allergology Rudolf Valenta , PhD, Professor for Allergology, Head of the Division of Immunopathology, Dept. of Pathophysiology and Allergy Research, Medical University of Vienna, Vienna, Austria
10:55-11:10	Protein target identification using modern methods of chemical proteomics Roman Zubarev , PhD, Professor of medicinal proteomics, Department of Medical Biochemistry and Biophysics, Karolinska Institute, Stockholm, Sweden
11:10-11:40	Coffee Break. Poster session
11:40-14:00	Plenary session "Molecular biomarkers and molecular targets of human diseases" - 1
Chairman:	Andrey Zamyatin , Professor, Head of the Laboratory of Molecular Biology and Biochemistry, Head of the Institute for Molecular Medicine of I.M. Sechenov First Moscow State Medical University (Sechenov University)
11:40-12:00	The establishment of HIV-1 persistence: implications for a cure Deng Kai , PhD, Professor, Zhongshan School of Medicine, Sun Yat-sen University, Guangzhou, China
12:00-12:20	Targeting necroptosis in cancer: a novel therapeutic strategy Dmitri Krysko , PhD, Associate Professor, Department of Basic Medical Sciences, Faculty of Medicine and Health Sciences, Ghent University, Ghent, Belgium
12:20-12:40	Immune Checkpoint Molecules as Targets and Biomarker for Cancer Immunotherapy Alexandr Bazhin , PhD, Department of General, Visceral, and Transplant Surgery, Ludwig-Maximilians-University Munich, Munich, Germany
12:40-13:00	Rapid diagnostics of human infections and autoimmune diseases using novel oligonucleotide hybridization platforms Kira Astakhova , PhD, Associate Professor, Department of Chemistry, Technical University of Denmark, Kongens Lyngby, Denmark
13:00-13:20	Molecular Imaging in Oncology Tristan Barrett , MB BS, University Lecturer, Honorary Consultant Radiologist, Department of Radiology, Addenbrooke's Hospital and the University of Cambridge, Cambridge, United Kingdom
13:20-13:40	Oxidative stress and redox homeostasis: new lessons from imaging and metabolic engineering Vsevolod Belousov , PhD, DSc, RAS Professor, Head of Molecular technologies laboratory, Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow, Russia; Professor, Institute for Cardiovascular Physiology, University of Göttingen, Göttingen, Germany
13:40-14:00	Peptides from sea anemones target TRPA1 receptor and produce the analgesic effect Yaroslav Andreev , IMM, Sechenov University, Moscow, Russia
14:00-15:00	Break
15:00-16:30	Plenary session "Current drug design"
Hall	Pirogov Hall, 2nd floor
Chairmen:	Ivan Efremov , Associate Director, Fulcrum Therapeutics, Cambridge, USA Vladimir Trukhan , Ph.D., Deputy Director Institute of Translational Medicine and Biotechnology, Sechenov University, Moscow, Russia
15:00-15:20	Application of metabolomics tools into micronutrient research: past progress, future challenges and opportunities with special focus on Russia Alex Brito , PhD, Pharmacokinetics & Metabolomics Laboratory, Research Institute of Pharmacy and Translational Medicine, Sechenov University, Moscow, Russia
15:20-15:40	Green enabling technologies in drug discovery and pharmaceutical production Giancarlo Cravotto , PhD, Full Professor of Organic Chemistry at the University of Turin, President of the European Society of Sonochemistry, Turin, Italy
15:40-16:00	SBDD-driven identification of Tyk2 development candidate Ivan Efremov , Associate Director, Fulcrum Therapeutics, Cambridge, USA

16:00-16:20	<p align="center">Assembling Chemomes to Create Pharmaceutical Molecules Against Drug Targets</p> <p>Jun Xu, PhD, Professor in Medicinal Chemistry & CADD, Director of Research Center for Drug Discovery (RCDD), Principal Investigator of School of Pharmaceutical Sciences at Sun Yat-Sen University, Guangzhou, China</p>
16:20-16:40	<p align="center">SIRT3: a potential target for CHF?</p> <p>Liu Peiqing, PhD, Professor, School of Pharmacy, Sun Yat-Sen University, Guangzhou, China</p>
16:40-17:00	Coffee Break. Poster session
Chairmen:	<p align="center">Ivan Efremov, Associate Director, Fulcrum Therapeutics, Cambridge, USA</p> <p>Vladimir Trukhan, Ph.D., Deputy Director Institute of Translational Medicine and Biotechnology, Sechenov University, Moscow, Russia</p>
17:00-17:15	<p align="center">New synthetic allergy vaccines</p> <p>Rudolf Valenta, PhD, Professor for Allergology, Head of the Division of Immunopathology, Dept. of Pathophysiology and Allergy Research, Medical University of Vienna, Vienna, Austria</p>
17:15-17:30	<p align="center">The process of taking biomedical discoveries from the lab to a start-up company</p> <p>Jeffrey Newton, Ex-Vice President, Massachusetts Institute of Technology, USA</p>
17:30-17:50	<p align="center">How to delay the onset of acquired resistance to BRAF inhibitors?</p> <p>Federico Bussolino, PhD, Full Professor of Biochemistry, Deputy Rector for Translational Researches Deputy Director of the Department of Oncology, University of Turin, Turin, Italy</p>
17:50-18:10	<p align="center">A scalable fabrication process of polymeric dissolving microneedles for transdermal drug delivery</p> <p>Wu Chuanbin, Professor, School of Pharmacy, Sun Yat-sen University, Guangzhou, China</p>

22.05.2018 (Tuesday)	
08:00-09:00	Registration
Hall	Pirogov Hall, 2nd floor
09:00-10:40	Plenary session "Biomaterials in regenerative medicine"
Chairman:	Peter Timashev , D.Sc., Director of the Institute for Regenerative Medicine, I.M. Sechenov First Moscow State Medical University (Sechenov University), Leading Researcher of the Institute of Photonic Technologies, Research center "Crystallography and Photonics", RAS
09:00-09:20	A comprehensive in vitro study of structural and functional alterations of acellular collagenous matrices following cross-linking Ekaterina Ivukina , PhD, Chief Researcher, Institute for Regenerative Medicine, Sechenov University, Moscow, Russia
09:20-09:40	Regulation of hematopoietic stem cells in the niche Zhao Meng , PhD, Professor, Zhongshan School of Medicine, Sun Yat-Sen University, Guangzhou, China
09:40-10:00	Cell-biomaterial interactions for regenerative medicine Yury Rochev , D.Sc (Phys), Chief Researcher, Institute for Regenerative Medicine, Sechenov University, Moscow, Russia; Principal Investigator, Network of Excellence for Functional Biomaterials, National University of Ireland, Galway, Ireland
10:00-10:20	Virtual Platelet: computational systems biology approach to platelet signal transduction and thrombus formation Michail Panteleev , PhD, Professor, Lomonosov Moscow State University, Moscow, Russia
10:20-10:40	Enabling platform technology for 3D bioprinting of vascularised and functional human endocrine organs Vladimir Mironov , MD, PhD, 3d-Bioprinting Solutions, Russia; Institute for Regenerative Medicine, Sechenov University, Moscow, Russia
10:40-11:10	Coffee Break. Poster session
11:10-12:30	Plenary session "Biomaterials in regenerative medicine" - 2
Hall	Pirogov Hall, 2nd floor
Chairman:	Peter Timashev , D.Sc., Director of the Institute for Regenerative Medicine, I.M. Sechenov First Moscow State Medical University (Sechenov University), Leading Researcher of the Institute of Photonic Technologies, Research center "Crystallography and Photonics", RAS
11:10-11:30	Synthesis of linear and star-shaped biodegradable (co)polymers for biomedical applications Sergei Kostjuk , PhD, Research Institute for Physical Chemical Problems of the Belarusian State University, Minsk, Belarus; Chief Researcher, Institute for Regenerative Medicine, Sechenov University, Moscow, Russia
11:30-11:50	Multi-parametric FLIM-PLIM microscopy of cell proliferation and oxygenation in 3D tissue models Ruslan Dmitriev , PhD, Research Fellow, SFI SIRG Investigator, University College Cork Cork, Ireland; Chief Researcher, Institute for Regenerative Medicine, Sechenov University, Moscow, Russia
11:50-12:10	Biodegradable matrices based on natural and synthetic polymers for tissue engineering Elena Markvicheva , D.Sc (Chem), Director of Group of Biomedical Materials, The Institute of bioorganic chemistry, Moscow, Russia
12:10-12:30	Optical coherence tomography of malignant brain tumors: Perspectives for intraoperative diagnosis Irina Dolganova , PhD, Bauman Moscow State Technical University, Moscow, Russia
12:30-12:45	The study of the morphology of neurites and the formation of synapses in primary neurons for the evaluation of neurotoxicity and screening of drugs with using of HCS-systems CellInsight-7 Sergey Irkhin , Dia-M
12:45-13:40	Break
13:40-15:00	Plenary session "Bionic technologies and engineering"
Hall	Pirogov Hall, 2nd floor
Chairman:	Dmitry Telyshev , PhD, Director, Institute for Bionic Technologies and Engineering, Sechenov University, Moscow, Russia; Deputy Director of the Institute for Biomedical Systems, National Research University of Electronic Technology (MIET), Moscow, Russia
13:40-14:00	Advanced surgery needs biomedical Engineering - why we need a new culture of cooperation among surgeons and scientists Hubertus Feußner , PhD, Professor, Technical University of Munich, Munich, Germany
14:00-14:20	Fibrin hydrogel: a bird in the hand Anastasia Shpichka , Senior research fellow, Institute for Regenerative Medicine, Sechenov University, Moscow, Russia
14:20-14:40	Advanced Neurobiology solutions by Thermo Fisher Scientific Nataliya Senchenko , Thermo Fisher Scientific
14:40-15:00	Bionic Heart Dmitry Telyshev , PhD, Director, Institute for Bionic Technologies and Engineering, Sechenov University, Moscow, Russia; Deputy Director of the Institute for Biomedical Systems, National Research University of Electronic Technology (MIET), Moscow, Russia
15:00-15:30	Coffee Break. Poster session
15:30-17:30	Plenary session "Bionic technologies and engineering" - 2
Hall	Pirogov Hall, 2nd floor
Chairman:	Dmitry Telyshev , PhD, Director, Institute for Bionic Technologies and Engineering, Sechenov University, Moscow, Russia; Deputy Director of the Institute for Biomedical Systems, National Research University of Electronic Technology (MIET), Moscow, Russia
15:30-15:50	Spectroscopy and imaging of malignancies in terahertz frequency range Kirill Zaytsev , PhD, A.M Prokhorov General Physics Institute, RAS, Moscow, Russia

15:50- 16:10	<p style="text-align: center;">A Wearable artificial kidney</p> <p>Nikolay Bazaev , PhD, Deputy Head of the Laboratory, Institute for Bionic Technologies and Engineering, Sechenov University, Moscow, Russia; Assistant professor, Institute for Biomedical Systems, National Research University of Electronic Technology (MIET), Moscow, Russia</p>
16:10- 16:30	<p style="text-align: center;">Biomimetics and biomaterials for regenerative medicine</p> <p>Pavel Makarevich , MD, PhD, Institute of Regenerative Medicine, Lomonosov Moscow State University, Moscow, Russia</p>
16:30- 16:50	<p style="text-align: center;">Best practices for robust sample inventory management</p> <p>Andrew Goulter , Head of Business Asia TTP Labtech</p>
16:50- 17:10	<p style="text-align: center;">Bone tissue engineering: the role of seeded cells</p> <p>Daria Kuznetsova , PhD, Institute of Biomedical Technologies, Nizhny Novgorod State Medical Academy, NNSMA, Nizhny Novgorod, Russia</p>
17:10- 17:30	<p style="text-align: center;">Cost-saving miniaturization of liquid handling</p> <p>Tamara Malygina , Head of Cell Technologies SBU OPTeC LLC</p>

23.05.2018 (Wednesday)	
08:00-09:00	Registration
Hall	Pirogov Hall, 2nd floor
09:00-10:30	Plenary session "Personalized medicine"
Chairmen:	<i>Philipp Kopylov</i> , MD, PhD, Professor, Director of the Institute for Personalized Medicine, Sechenov University, Moscow, Russia <i>Teruhito Mochizuki</i> , Professor and Chairman, Department of Radiology, Ehime University School of Medicine <i>Friedrich Luft</i> , Adjunct Professor, Clinical Pharmacology, Vanderbilt University Medical Center, Director, Experimental and Clinical Research Center, a joint cooperation between the Charité Medical Faculty and the Max-Delbrück Center for Molecular Medicine, Berlin, Germany <i>David E Neal</i> , Professor, Clinical Director of Surgical Oncology at the University of Cambridge, United Kingdom
09:00-09:10	Greeting speech <i>Philipp Kopylov</i> , MD, PhD, Professor, Director of the Institute for Personalized Medicine, Sechenov University, Moscow, Russia
09:10-09:30	Cardiac CT or cardiac imaging including some cardiac MR and nuclear cardiology <i>Teruhito Mochizuki</i> , PhD, Professor, Chairman, Department of Radiology, Ehime University School of Medicine, Matsuyama, Japan
09:30-09:45	Genetic form of high blood pressure that causes stroke before age 50 years <i>Friedrich Luft</i> , PhD, Adjunct Professor, Clinical Pharmacology, Vanderbilt University Medical Center, Director, Experimental and Clinical Research Center, a joint cooperation between the Charité Medical Faculty and the Max-Delbrück Center for Molecular Medicine, Berlin, Germany
09:45-10:00	Using molecular techniques to stratify future risk of progression in prostate cancer <i>David E Neal</i> , PhD, Professor, Clinical Director of Surgical Oncology, University of Cambridge, United Kingdom
10:00-10:15	Early diagnosis and current approaches to the idiopathic pulmonary fibrosis treatment <i>Thomas Geiser</i> , PhD, Professor, Chairman and Head of the Department for Pulmonary Medicine Inselspital, Bern, Switzerland
10:15-10:30	New advances in non-invasive prenatal testing from research and clinical view <i>Ya GAO</i> , Professor, Head, Gestational Disease Laboratory, BGI-Research, Shenzhen, China
10:30-10:45	Exhaled breath analysis in diagnostics of cardiovascular diseases <i>Philipp Kopylov</i> , MD, PhD, Professor, Director of the Institute for Personalized Medicine, Sechenov University, Moscow, Russia
10:45-11:15	Coffee Break
11:15-13:00	Plenary session "Personalized medicine" - 2
Hall	Pirogov Hall, 2nd floor
Chairmen:	<i>Philipp Kopylov</i> , MD, PhD, Professor, Director of the Institute for Personalized Medicine, Sechenov University, Moscow, Russia <i>Jordi Alastruey-Armon</i> , Senior Lecturer, Biomedical Engineering Department, King's College, London <i>Fuyou Liang</i> , PhD, Associate professor, School of Naval Architecture, Ocean and Civil Engineering, Shanghai Jiao Tong University, Shanghai, China
11:15-11:30	Molecular pathway activation – new type of biomarkers for tumor morphology and personalized selection of target drugs <i>Anton Buzdin</i> , PhD, Professor, Head of the Laboratory for Clinical and Genomic Bioinformatics, Sechenov University, Moscow, Russia
11:30-11:45	Yokogawa CQ1: New Approach to high content screening <i>Nikolay Akimov</i> , Head of Laser Scanning Microscopy Division OPTEC LLC
11:45-12:00	Prospects of individualized treatment for solid tumor based on NGS, IHC and FISH <i>Marina Sekacheva</i> , PhD, Head of the Center for Personalized Oncology "OncoTarget", Sechenov University, Moscow, Russia
12:00-12:15	Multiple applications of p62/SQSTM1- encoding plasmid as a novel biological agent against chronic inflammation <i>Alexander Shneider</i> , PhD, CEO/CSO CureLab Oncology, Inc., Boston, MA; Co-Director, International Ph.D. Program in Life Science, University Camerino – CureLab, Italy; Senior Research Fellow, University of Ariel, Israel; Professor, Institute of Molecular Medicine, Sechenov University, Moscow, Russia
12:15-12:30	Arterial pulse wave propagation: Modelling and clinically relevant applications <i>Jordi Alastruey-Armon</i> , PhD, Senior Lecturer, Biomedical Engineering Department, King's College London, London, United Kingdom
12:30-12:45	Personalized computational modeling of the consequences of carotid endarterectomy <i>Sergey Simakov</i> , Laboratory for Mathematical Modeling in Biomedicine, the Institute for Personalized Medicine, Sechenov University, Moscow, Russia
12:45-13:00	Computational modeling of hemodynamics in intracranial aneurysm: importance of patient-specific boundary conditions <i>Fuyou Liang</i> , PhD, Associate Professor, School of Naval Architecture, Ocean and Civil Engineering, Shanghai Jiao Tong University, Shanghai, China
13:00-13:15	An automated method of noninvasive assessment of the fractional flow reserve with a one-dimensional mathematical model based on the routine coronary computed tomographic angiography <i>Timur Gamilov</i> , Laboratory for Mathematical Modeling in Biomedicine, the Institute for Personalized Medicine, Sechenov University, Moscow, Russia
13:15-14:00	Break
14:00-15:00	SIBS: STUDENTS PERSPECTIVE
Hall	Pirogov Hall, 2nd floor
Chairmen:	<i>Philipp Kopylov</i> , MD, PhD, Professor, Director of the Institute for Personalized Medicine, Sechenov University, Moscow, Russia
15:00-15:30	Closing ceremony

	23.05.2018 (Wednesday)
Hall	Sechenov Hall, 1st floor
	New trends and solutions on biosimilar Regulation Satellite Symposium by Waters and Interlab
Chairmen:	<i>David Lascoux, Biopharma, Business Development Manager, WATERS</i> <i>Rainer Rozenich, Separations Business Development Manager, WATERS</i> <i>Mario Boras, Consumables Business Development Manager, WATERS</i>
10:00-10:40	New trend on biosimilar Regulation
11:40-11:10	Complete workflow for sequence confirmation / CQA definition and comparability of your biosimilar
11:10-12:00	Being compliance and assuming data integrity using UNIFI
12:00-13:30	Break
13:30-14:30	Bioseparation solutions dedicated to development and QC
14:30-15:00	Host Cell Proteins : different solutions for different usages
15:00-15:30	Hydrogen-Deuterium eXchange : which workflow for biosimilar
15:30-16:00	Coffee Break
16:00-16:30	Advanced characterization of Biotherapeutics => Ion mobility and ETD added value for deep characterization
16:30-17:00	Higher Order Structure analysis of biotherapeutics => Ion Mobility and HDX