



SIBS 2020

**4TH SECHENOV
INTERNATIONAL
BIOMEDICAL SUMMIT
(SIBS 2020)**

November 17–18, 2020
Sechenov University
Moscow, Russia

PROGRAM



SECHENOV UNIVERSITY
LIFE SCIENCES



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Peter S. Timashev — D.Sc., Head of the Sechenov Biomedical Science & Technology Park, Director of the Institute for Regenerative Medicine, I.M. Sechenov First Moscow State Medical University (Sechenov University)



Marina Igorevna Sekacheva — MD, PhD, Professor, Professor, Head of the Institute for Personalized Medicine, I.M. Sechenov First Moscow State Medical University (Sechenov University)



Filipp Yu. Kopylov — MD, PhD, Professor, Head of the Institute of Clinical Medicine named after N.V. Sklifosovsky, I.M. Sechenov First Moscow State Medical University (Sechenov University)



Vadim V. Tarasov — Head of the Department of Pharmacology, Head of the Institute for Pharmaceutical Science and Translational Medicine, I.M. Sechenov First Moscow State Medical University (Sechenov University)



Dmitry V. Telyshev — PhD, Head of the Institute for Bionic Technologies and Engineering, I.M. Sechenov First Moscow State Medical University (Sechenov University)



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GENERAL INFORMATION

EVENT PARTICIPATION: BROADCASTING, EXHIBITION VISITING

The entrance to the broadcast is carried out through the participant's personal account on the event website. To create a Personal Account, you have to register.

Also for getting access to the Summit you need to register with Zoom. For a more convenient transition to broadcasts, we recommend installing the Zoom application on your computer in advance from this link <https://zoom.us/download>.

It is important to log into Zoom using the same e-mail that you registered on the event site.

PRESENTATION

For the presentation you will be sent a separate link to connect as a member of the group. Test connections for the speakers are made before the event. The speaker launches the presentation and controls the time of speaking. A countdown timer will be started on the screen to comply with the performance schedule.

Speakers can use the studios organized at the site of the Congress Center (Trubetskaya, 8) in agreement with the Technical Secretariat.

EXHIBITION

A virtual exhibition will be organized as a part of the event. The materials of the exhibition can be found in the Personal Account. During the event, at the stands of the companies there will be representatives who can be contacted by writing in a chat or making a video call.

Also in the Personal Account there is a quiz MARATHON OF KNOWLEDGE, answers to questions can be obtained after reading the materials of the companies participating in the exhibition.

The results will be announced at the closing ceremony. Winners will be selected using a random number generator and prizes from the companies and the Organizing Committee will be sent within two weeks.

CERTIFICATES OF PARTICIPATION

Participants' certificates will be uploaded in participants' Personal Accounts not later than 20 days after the event.

CONTACTS

Technical partner of the event — Trialogue Ltd.

tel.: +7 (499) 390-34-38, +7 (926) 848-23-58

fax: +7 (499) 137-34-79

e-mail: sechenov-sibs@confreg.org

Event website: <https://sechenov-sibs.confreg.org/>



17.11.2020 (Tuesday)			
08:00-09:00	Joining the online conference. Introduction to the technical information		
Hall	Pirogov		
OPENING CEREMONY			
09:00-09:20	Petr Glybochko, Sechenov University, Moscow, Russia Stephen Badylak, McGowan Institute for Regenerative Medicine, Pittsburgh, USA Vladislav Panchenko, Russian Fond Basic Research, Russia Vsevolod Tkachuk, Fundamental Medicine Faculty of Lomonosov Moscow State University, Moscow, Russia Arutyun Avetisyan, Ivannikov Institute for System Programming of RAS, Moscow, Russia Andrey Lisitsa, Institute of Biomedical Chemistry, Moscow, Russia		
09:20-09:40	Aleksander Lukashev Sechenov University, Moscow, Russia <i>COVID19: Nowadays and perspectives</i>		
09:40-09:50	Opening Exhibition		
09:50-10:00	Break		
Hall	Pirogov	Hall	Abrikosov
10:00-12:00	Bio-engineering and regenerative medicine	10:00-12:00	Personalized Oncology
Moderator:	Petr Timashev, Sechenov University, Moscow, Russia	Moderator:	Marina Sekacheva, Sechenov University, Moscow, Russia Anton Buzdin, Sechenov University, Moscow, Russia
10:00-10:30	Keynote lecture Hossein Baharvand Royan Institute, Tehran, Iran <i>Pluripotent Stem Cell Therapy for Parkinson's Disease</i>	10:00-10:15	Anton Buzdin Sechenov University, Moscow, Russia <i>RNA sequencing era in cancer molecular diagnostics</i>
		10:15-10:30	Ella Kim Mainz University, Mainz, Germany <i>Molecular heterogeneities of glioma stem cells and individual treatment responses</i>
10:30-11:00	Keynote lecture Xing-Jie Liang National Center for Nanoscience and Technology, Beijing, China <i>Improved nucleic acid therapy with advanced nanoscale biotechnology</i>	10:30-10:45	Tamara Lah Turnšek National Institute of Biology, Ljubljana, Slovenia <i>Proteases in brain tumor progression</i>
		10:45-11:00	Saso Dzeroski Jozef Stefan Institute, Dept. of Knowledge Technologies, Slovenia <i>Machine learning for prediction of therapeutic responses using real-world molecular data</i>
11:00-11:20	Li Jinsong Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China <i>Artificial spermatid-mediated genome editing</i>	11:00-11:15	Maxim Sorokin Sechenov University, Moscow, Russia <i>Integration of whole-exome and RNA sequencing for optimization of cancer drugs prescription</i>
11:20-11:40	Yury Rochev National University of Ireland Galway, Ireland Sechenov University, Moscow, Russia <i>Beyond 2D: effects of photobiomodulation in 3D tissue-like systems</i>	11:15-11:30	Yuriy Orlov Novosibirsk State University, Novosibirsk, Russia <i>Computational models in cancer genetics</i>
		11:30-11:45	Teresa Steinbichler Medical University of Innsbruck, Innsbruck, Austria <i>Cancer stem cells and their unique role in metastatic spread</i>
11:40-12:00	Kirill Zaytsev Prokhorov General Physics Institute of RAS, Moscow, Russia <i>Towards intraoperative terahertz diagnosis of human brain gliomas</i>	11:45-12:00	Anastasia Malek National Medical Research Center of Oncology named after N.N. Petrov, Saint Petersburg, Russia <i>Plasma exosomes stimulate breast cancer metastasis through surface interactions and activation of FAK signaling</i>
12:00-12:10	Break. Poster Session		



Hall	Pirogov	Hall	Abrikosov
12:10-13:55	Bio-engineering and regenerative medicine	12:10-13:55	Personalized Oncology
Moderator:	Petr Timashev, Sechenov University, Moscow, Russia	Moderator:	Marina Sekacheva, Sechenov University, Moscow, Russia Anton Buzdin, Sechenov University, Moscow, Russia
12:10-12:25	Valery Putlyaev Lomonosov Moscow State University, Moscow, Russia <i>Stereolithographic 3D printing for the formation of scaffolds with complex internal architecture</i>	12:10-12:25	Marina Sekacheva Sechenov University, Moscow, Russia <i>New approaches for early minimally invasive tumor diagnosis</i>
12:25-12:40	Massoud Vosough Royan Institute, Tehran, Iran Karolinska Institute University Hospital, Stockholm, Sweden <i>Stem cell therapy in Alzheimer's disease: possible benefits and limiting drawbacks</i>	12:25-12:40	Sergey Larin Dmitry Rogachev National Research Center, Moscow, Russia <i>New aspects of the practical application of immunotherapy and CAR-T cell therapy for hematological and solid tumors</i>
12:40-12:55	Andrey Kozlov Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria <i>Signaling pathways mediated by heme and heme degradation products upon inflammation; the role of heme oxygenase</i>	12:40-12:55	Konstantin Mironov Central Research Institute of Epidemiology, Moscow, Russia <i>Detection of mutations associated with the development of cancer by pyrosequencing</i>
		12:55-13:10	Anton Vitovtov Thermo Fisher Scientific, Novosibirsk, Russia <i>Branched DNA technology: RNA quantification and visualization in cells</i>
		13:10-13:55	Mathematical modeling of cardiovascular system
		Moderator:	Yuri Vassilevski, Sechenov University, Moscow, Russia
13:10-13:25	Johannes Grillari University of Natural Resources and Life Sciences, Vienna, Austria <i>Serum microRNAs as novel biomarkers for osteoporotic vertebral fractures</i>	13:10-13:25	Sergey Simakov MIPT, Sechenov University, Moscow, Russia <i>Reduced models of heart activity and applications</i>
13:25-13:40	Pavel Makarevich Fundamental Medicine Faculty of Moscow State University, Moscow, Russia <i>Basic principles of current gene therapy approaches</i>	13:25-13:40	Mikhail Panteleev Center for Theoretical Problems of Physico- Chemical Pharmacology RAS, Moscow, Russia <i>Mechanisms of arterial thrombosis: insights from computer modelling</i>
13:40-13:55	Denis Bormotov Moscow Institute of Physics and Technology, Dolgoprudny, Moscow Region, Russian Federation <i>A method for rapid evaluation of tumor cell percentage in biopsy samples</i>	13:40-13:55	Fedor Syomin Institute of Mechanics, Lomonosov Moscow State University, Moscow, Russia <i>Effects of disorders in myocardium contractility and regulation on the left ventricle mechanics and circulation: multiscale computer simulation</i>
13:55-14:15	Break		



Hall	Pirogov	Hall	Abrikosov
14:15-16:15	Bio-engineering and regenerative medicine	14:15-16:15	Molecular dietetics
Moderator:	Petr Timashev, Sechenov University, Moscow, Russia	Moderator:	Anatoly Skalny, Sechenov University, Moscow, Russia
14:15-14:30	Bin Li Orthopedic Institute at Soochow Suzhou, China <i>Mechanisms of NRF2 activation to mediate fetal hemoglobin induction and protection against oxidative stress in sickle cell disease</i>	14:15-14:30	Ryszard Lobinski Institute of Analytical Sciences and Physical Chemistry for the Environment and Materials, Pau, France <i>Selenium speciation in foods</i>
14:35-14:55	Mikhail Svistushkin Sechenov University, Moscow, Russia <i>Collagen fibrillar structures in vocal fold scarring and repair using stem cell therapy</i>	14:30-14:45	Michael Aschner Albert Einstein College of Medicine, New York, USA <i>Health effects of manganese: from essentiality to toxicity</i>
		14:45-15:00	Jane CJ Chao Taipei Medical University, Taipei, Taiwan <i>Dietary patterns in relation to components of metabolic syndrome in Taiwan</i>
14:55-15:15	Polina Bikmulina Sechenov University, Moscow, Russia <i>Photobiomodulation enhances mitochondrial respiration in an in vitro rotenone model of Parkinson disease</i>	15:00-15:15	Susan JS Chang Taipei Medical University, Taipei, Taiwan <i>Characteristics of iron metabolism in obesity</i>
15:15-15:35	Eugenia Pugliese National University of Ireland Galway, Ireland <i>Design of multi-layer collagen-based scaffolds for the tendon to bone integration</i>	15:15-15:30	Anatoly Skalny Sechenov University, Moscow, Russia <i>Trace element and mineral status as a factor of longevity: possible mechanisms</i>
15:35-15:55	Nikita Minaev Crystallography and Photonics, Russian Academy of Sciences, Institute of Photonic Technologies, Moscow, Troitsk, Russia <i>LIFT-bioprinting, is it worth it?</i>	15:30-15:45	Andrey Grabeklis Sechenov University, Moscow, Russia <i>Trace element and mineral status of children with Down's syndrome</i>
		15:45-16:00	Alexey Tinkov P.G. Demidov Yaroslavl State University, Yaroslavl, Russia <i>Developmental neurobiology of trace elements: projections for cerebral palsy</i>
15:55-16:15	Elena Golubeva Lomonosov Moscow State University, Moscow, Russia <i>Electron paramagnetic resonance for study the biodegradation of 3D structures</i>	16:00-16:15	Ulyana Pihlak A.I. Yevdokimov Moscow State University of Medicine and Dentistry, Moscow, Russia <i>The role of metal-protein complexes in the development of an allergic-like status in patients undergoing orthodontic treatment</i>
16:15-16:30	Break. Poster Session		



Hall	Pirogov
16:30-18:00	Plenary session 1
Moderators:	Denis Butnaru, Sechenov University, Moscow, Russia, Stephen Badylak, McGowan Institute for Regenerative Medicine, Pittsburgh, USA, Petr Timashev, Sechenov University, Moscow, Russia
16:30-16:50	Stephen Badylak McGowan Institute for Regenerative Medicine, Pittsburgh, USA Biologic Scaffolds composed of extracellular matrix for regenerative medicine
16:50-17:15	Rajat Mittal Department of Mechanical Engineering, Johns Hopkins University, Baltimore, USA Multiphysics Computational Models of Cardiac Hemodynamics: from Fundamental Questions to Clinical Applications
17:15-17:40	Adelia Sequeira Instituto Superior Técnico, University of Lisbon in Portugal, Lisbon, Portugal CFD analysis for the evaluation of patient-specific hemodynamic parameters in cerebral aneurysms
17:40-18:00	Paul Lavender, Karger Publishers, Switzerland How to write an effective research paper and get it published in biomedical journal
Hall	Pirogov
18.00-19.30	Young Scientists' Session
Moderators:	Petr Timashev, Marina Sekacheva, Dmitry Telyshev, Vadim Tarasov, Sechenov University, Moscow, Russia

18.11.2020 (Wednesday)			
08:00-09:00	Joining the online conference. Introduction to the technical information		
Hall	Pirogov		
09:00-11:40	Plenary session 2		
Moderator:	Denis Butnaru, Sechenov University, Moscow, Russia, Petr Timashev, Sechenov University, Moscow, Russia		
09:00-09:20	Ekaterina V. Skorb ITMO University, St. Petersburg, Russia <i>Infochemistry and personalized medicine</i>		
09:20-09:40	Steffen Leonhardt Medical Information Technology, RWTH Aachen, Aachen, Germany <i>Biomechanics, actuation, and multi-level control strategies of power-augmentation lower extremity exoskeletons</i>		
09:40-10:00	Juergen Popp Friedrich Schiller University Jena, Jena, Germany <i>Clinical Raman Spectroscopy – Precise Diagnosis as the basis for Individual and Targeted Therapy</i>		
10:00-10:20	Vladimir Komlev A.A. Baikov Institute of Metallurgy and Materials Science, Russian Academy of Sciences, Moscow, Russia <i>From bioactive ceramics to personalized genetically engineered structures</i>		
10:20-10:40	Valery Tuchin Saratov State University, Saratov, Russia <i>Optical clearing of biological tissues in multimodal imaging: from in vitro to in vivo</i>		
10:40-11:00	Paul Townsend Manchester Cancer Research Centre, Manchester Academic Health Science Centre, University of Manchester, Manchester, UK <i>How research can contribute to better healthcare?</i>		
11:00-11:20	Vassilios Fanos Pediatrics University of Cagliari, Cagliari, Italy <i>Clinical metabolomics and precision medicine: evolution or revolution?</i>		
11:20-11:40	Kristina Yurenko Sigma-Aldrich Rus, subsidiary of Merck, Moscow, Russia <i>Supported by Merck</i> <i>MILLIPLEX kits for the assessment of cytokine storm in viral infections</i>		
11:40-12:00	Break. Poster session		
Hall	Pirogov	Hall	Abrikosov
12:00-13:40	Bio-engineering and regenerative medicine Applied Bioengineering and Biosensors I	12:00-13:40	Biomolecules: Analytics, Instrumental methods in assessing Biosimilarity, Regulatory trends and manufacturing
Moderator:	Dmitry Telyshev, Sechenov University, Moscow, Russia	Moderator:	Vadim Tarasov, Sechenov University, Moscow, Russia Aleksandr Nosarev, Sechenov University, Moscow, Russia
12:00-12:20	Andreas Teuschl Fachhochschule Technikum Wien, Tissue Engineering and Regenerative Medicine, Wien, Austria <i>Silk as tunable material in biomedical engineering</i>	12:00-12:20	Vassilios Fanos Pediatrics University of Cagliari, Cagliari, Italy <i>Metabolomics and microbiomics: personalized medicine from the fetus to the adult</i>
12:20-12:40	Thomas Groth Interdisciplinary Center of Materials Research, Martin Luther University Halle-Wittenberg, Halle (Saale), Germany <i>Developments in Layer-by-Layer Technique for Drug Delivery Applications</i>	12:20-12:40	Alex Brito Sechenov University, Moscow, Russia <i>Nutritional metabolomics and personalized health</i>



Hall	Pirogov	Hall	Abrikosov
12:00-13:40	Bio-engineering and regenerative medicine Applied Bioengineering and Biosensors I	12:00-13:40	Biomolecules: Analytics, Instrumental methods in assessing Biosimilarity, Regulatory trends and manufacturing
12:40-13:00	Giacomo Musile University of Verona, Verona, Italy <i>Therapeutic drugs found in hair and urine of subjects undergoing detoxification treatments</i>	12:40-13:00	Zabolcs Fekete University of Geneva, Geneva, Switzerland <i>Cutting-edge multi-level analytical and structural characterization of antibody-drug conjugates: present and future</i>
13:00-13:20	Mikhail Kirillin Institute of Applied Physics, Nizhny Novgorod, Russia <i>Novel protocols for photodynamic therapy with assistance of optical monitoring</i>	13:00-13:20	Serge Rudaz University of Geneva, Geneva, Switzerland <i>Metabolomic investigation of chronic kidney disease: from data acquisition to precision medicine</i>
13:20-13:40	Ronald Sroka LMU Klinikum Urologische Klinik und Poliklinik / LIFE-Zentrum Laser-Forschungslabor / Labor für Tumormimmunologie / Experimentelle Pharmakologie, Germany <i>Spectroscopy for point-of-care diagnostics</i>	13:20-13:40	Franco Tagliaro University of Verona, Verona, Italy <i>Mass spectrometry applied to the monitoring of adherence to therapy in chronic pharmacological treatments</i>
13:40-14:30	Break. Poster session		
Hall	Pirogov	Hall	Abrikosov
14:30-16:10	Applied Bioengineering and Biosensors II	14:30-16:10	Biomolecules: Analytics, Instrumental methods in assessing Biosimilarity, Regulatory trends and manufacturing
Moderator:	Dmitry Telyshev, Sechenov University, Moscow, Russia	Moderator:	Vadim Tarasov, Sechenov University, Moscow, Russia
14:30-14:55	Evgeny A. Shirshin Lomonosov Moscow State University, Moscow, Russia <i>NIR autofluorescence of biotissues, its origin and applications in fluorescence-guided surgery</i>	14:30-14:50	Mikhail Gorshkov V.L. Talrose Institute for Energy Problems of Chemical Physics of the Russian Academy of Sciences, Moscow, Russia <i>Rapid and deep assessment of cellular proteomes: novel instrumental and bioinformatics approaches</i>
14:55-15:20	Libera Fresiello Katholieke Universiteit Leuven, Leuven, Belgium <i>Influence of left ventricular assist device pressure-flow characteristic on exercise physiology</i>	14:50-15:10	Mikhail Samsonov R-Pharm, Moscow, Russia <i>Gene and Cellular Therapies: Clinical and Regulatory Update</i>
		15:10-15:30	Kira Vyatkina Institute of Translational Biomedicine, Saint Petersburg, Russia <i>De novo antibody sequencing by high-resolution mass spectrometry</i>
15:20-15:45	Dmitry Ryabkin National Research University of Electronic Technology MIET, Moscow, Russia <i>Trends in laser welding of biological tissues</i>	15:30-15:50	Roman Drai Geropharm, Saint Petersburg, Russia <i>Insulin biosimilars — development under changing regulatory conditions</i>
15:45-16:10	Aleksandra Gornostaeva Institute of Biomedical Problems of RAS, Moscow, Russia <i>Hypoxic milieu modulates MSC-mediated immunosuppression</i>	15:50-16:10	Igor Makarenko Geropharm, Saint Petersburg, Russia <i>Preclinical studies of insulin biosimilars: the stage of preparation for CI or the basis for proving biosimilarity?</i>
16:10-16:30	Break. Poster session		

Hall	Pirogov	Hall	Abrikosov
16:30-18:10	From Chromosome-Centric Project to the Human Proteome – Results of the First Decade of C-HPP in Russia	16:30-18:10	Biomolecules: Analytics, Instrumental methods in assessing Biosimilarity, Regulatory trends and manufacturing
Moderator:	Andrey Lisitsa, Institute of Biomedical Chemistry, Moscow, Russia	Moderator:	Vadim Tarasov, Sechenov University, Moscow, Russia
16:30-16:40	Ekaterina Ilgisonis Institute of Biomedical Chemistry, Moscow, Russia <i>10 years in C-HPP: Russian experience</i>	16:30-16:50	Anna Mokisyan, Maxim Magruk, Geropharm, Saint Petersburg, Russia <i>Results of the clinical trials program of GEROPHARM biosimilar insulin</i>
16:40-16:55	Olga Kiseleva Institute of Biomedical Chemistry, Moscow, Russia, <i>Concerted efforts of the Russian proteomic consortium in missing proteins mining</i>	16:50-17:10	Olga Grigorieva Generium, Moscow, Russia <i>Main trends in the development of products of regenerative medicine and capabilities of the Russian manufacturer</i>
16:55-17:10	Ekaterina Poverennaya Institute of Biomedical Chemistry, Moscow, Russia <i>Predicting functions of uncharacterized human proteins: from canonical to proteoforms</i>	17:10-17:30	Vyacheslav Leonov Generium, Moscow, Russia <i>Applying good manufacturing practices for BMPC in technological transfer</i>
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17:25-17:40	Svetlana Novikova Institute of Biomedical Chemistry, Moscow, Russia <i>Application of targeted mass-spectrometry for quantification of FDA-approved proteins in human blood plasma</i>	17:50-18:10	Discussion
17:40-17:55	Elena Zorina Institute of Biomedical Chemistry, Moscow, Russia <i>Comparative analysis of the HepG2 cell line and samples obtained from patients with diagnosed hepatocellular cancer using 2DE and ESI LC/MS</i>		
17:55-18:10	Pavel Pogodin Institute of Biomedical Chemistry, Moscow, Russia, <i>Exploring bias in the selection of chemical compounds for experimental testing against protein targets</i>		
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18:10-18:30	Closing ceremony		
Moderator:	Denis Butnaru, Sechenov University, Moscow, Russia, Petr Timashev, Sechenov University, Moscow, Russia		



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