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	21.05.2018 (Tuesday)							
08:30-09:00	••••							
Hall	Pirogov Hall, 2nd floor							
09:30-11:00	<u> </u>							
09:00-09:30	An Overview on Austrian Cluster for Tissue Regeneration Heinz Redl, Professor, Ludwig Boltzmann Institute for Experimental and Clinical Traumatology in the AUVA trauma research center, Austrian Cluster for Tissue Regeneration, Austria							
09:30-10:00	Additive Manufacturing for Medical Research: opportunities and challenges Francesco Moscato , PhD, Associate Professor, Medical University of Vienna, Austria							
10:00-10:30	The research Group "MITI": A model of a new type of collaboration between basic research / engineering and surgery Hubertus Feußner, TUM, Germany							
10:30-11:00	Correlation between wall shear stress and wall rupture properties in ascending thoracic aortic aneurysms Stéphane Avril, PhD, Professor, Director of the CIS centre for Biomedical and Heathcare Engineering, national Higher Education Institute Mines Saint-Étienne, Deputy Direct of INSERM, France							
11:00-12:00		Coffee Break. Po	ster session					
12:00-13:30		Sectional s	essions					
Halls	Pirogov Hall, 2nd floor Abrikosov Hall, 2nd floor							
12:00-13:30	Sect	ional session "Bio-engineering and regenerative medicine" Applied Bioengineering and Biosensors I	Sectional session "Translational and personalized medicine"					
	Chairman: I	Francesco Moscato, PhD, Associate Professor, Medical University of	Mathematical modeling of cardiovascular system					
	Granman. 1	Vienna, Austria	Chairmen: Stéphane Avril, PhD, Professor, Director of the CIS centre for Biomedical and Heathcare Engineering, national Higher Education Institute Mines Saint-Étienne, Deputy Director of INSERM, Saint-Étienne, France Yuri Vassilevski, PhD, Professor, I.M. Sechenov First Moscow State Medical University (Sechenov University), INM RAS, MIPT, Russia					
	12:00-12:25	From femtosecond laser chemistry to laser biochemistry: controlled modification of biomolecules by ultrashort laser pulses in polar liquids for biomedical applications Vitaly Gruzdev , Department of Mechanical and Aerospace Engineering, University of Missouri, Columbia, USA	12:00-12:30	Keynote lecture: Development and application of quasi-one- dimensional models of blood flow for solution of problems in physiology and medicine Sergey Mukhin, PhD, Professor, Department of Computational Methods, M.V. Lomonosov Moscow State University, Russia				
		Engineering, University of Missouth, Columbia, USA		inethous, in. v. Lomonosov inoscow state university, Russia				
	12:25-12:50	The future of interventional visceral medicine Alissa Jell, Department of Surgery, Klinikum rechts der Isar, Technical University Munich, German	12:30-13:00	Modelling the respiratory gases transported in the body during intense physical exercise and laparoscopic surgery Sergey Simakov, PhD, Moscow Institute of Physics and Technology, I.M. Sechenov First Moscow State Medical University (Sechenov University), INM RAS, Russia				
	12:50-13:10	Virtual fitting and numerical simulation in the approval process of	13:00-13:30	3D hemodynamics in time-dependent domains: are fluid-				
	13:10-13:30	medical device Simon Sonntag, Virtonomy.io / vyson GmbH, Munich, Germany Carbon nanomaterials-based biosensors for on-site health analysis Ivan Bobrinetskiy, Biosense Institute, University of Novi Sad, Serbia		structure interaction simulations inevitable? Yuri Vassilevski, PhD, Professor, I.M. Sechenov First Moscow State Medical University (Sechenov University), INM RAS, MIPT, Russia				
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13:30-14:30		Brea Sectional s						
14:30-16:10		Applied Bioengineering and Biosensors II	essions	Molecular Oncology				
14.30-10.10		Chairman: Hubertus Feußner, TUM, Germany	Chairman: Anton Buzdin, PhD, I.M. Sechenov First Moscow State Medical University (Sechenov University), Russia Yuriy Orlov, PhD, DrSci, Professor of the RAS, Institute of Digital Medicine, I.M. Sechenov First Moscow State Medical University (Sechenov University), and Genome Institute of Singapore, A-STAR, Singapore					
	14:30-14:50	Arterial thrombosis on a chip: bringing new insights using ex vivo and in silico models Dmitry Nechipurenko, Faculty of Physics, M.V. Lomonosov Moscow	14:30-14:50	Estrogen receptor β role in tumor suppression of triple negative breast cancer Elena Alexandrova , PhD, Genomix4Life srl, Group Leader,				
		State University, Russia		Department of Medicine, Surgery and Dentistry "Scuola Medica Salernitana", University of Salerno, Italy				
	14:50-15:10	New technologies relevant for abdominal surgery Daniel Ostler, M. Sc., TUM, Germany	14:50-15:10	Remote patient monitoring in oncology Elena Gogvadze , PhD, CEO, Symsights AG, Switzerland				
	15:10-15:30	Microfluidic Devices for Stem Cell Culture Analysis and Personalised Health Nicolas Szita, Professor, UCL Innovation and Enterprise, London, United Kigdom	15:10-15:30	Plasma exosomes stimulate breast cancer metastasis through surface interactions and activation of FAK signaling Anastasia Malek, PhD, MD, N.N. Petrov National Medical Research Center of Oncology, Head of Laboratory for Endocrinology, Russia				
	15:30-15:50	Laser structuring of biocompatible composites based on carbon nanoparticles Alexander Gerasimenko, I.M. Sechenov First Moscow State Medical University (Sechenov University), MIET, Russia	15:30-15:50	Pathway instability is an effective new mutation-based type of cancer biomarkers Anton Buzdin, PhD, I.M. Sechenov First Moscow State Medical University (Sechenov University), Head of Laboratory for Clinical and Genomic Bioinformatics, Russia				
	15:50-16:10	Genome Editing - a Key Step for the Future of Personalized Medicine Natalia Novozhilova , Thermo Fisher Scientific, Russia	15:50-16:10	Analysis of chromatin modifications effects on estogen receptor alpha binding using ChIP-seq and ChIA-PET technologies Yuriy Orlov, PhD, DrSci, Professor of the RAS, Institute of Digital Medicine, I.M. Sechenov First Moscow State Medical University (Sechenov University), and Genome Institute of Singapore, A-STAR, Singapore				
16:10-16:30	Coffee Break. Poster session							
16:30-18:00	Sectional sessions							

16:30-18:00		Trends in Clinical Bioengineering	Molecular dietetics			
10.30-10.00		nitry Telyshev, PhD, Director of the Institute for bionic technologies and g, I.M. Sechenov First Moscow State Medical University (Sechenov University), Russia	Molecular dietetics Chairmen: Anatoly Skalny, MD, PhD, UNESCO Vice-President of the Institute of Micronutrients, France, Director Institute of Bioelementology, Orenburg State University, Russia			
	16:30-16:50	Tandem organic electrolytic photocapacitors for high-performance optoelectronic stimulation of cells Alexander Markov, I.M. Sechenov First Moscow State Medical University (Sechenov University), Russia	16:30-16:50	Trace elements in neurodevelopmental disorders Anatoly Skalny, MD, PhD, UNESCO Vice-President of the Institute of Micronutrients, France, Director Institute of Bioelementology, Orenburg State University, Russia		
	16:50-17:10	3D Cell Culture Tools - Key to Disease Modeling Nataliya Bezzabotnova, Thermo Fisher Scientific, Russia	16:50-17:10	Cobalt supplementation - new insights into iron metabolism Yordanka Gluhcheva , Associate Professor, PhD, Department of Experimental Morphology Institute of Experimental Morphology, Pathology and Anthropology with Museum Bulgarian Academy of Sciences, Bulgaria		
	17:10-17:30	3D SEM and Correlative Workflow Vasily Balashov, OPTEC ZEISS Group	17:10-17:30	Assessment of toxic and essential trace elements content in Parkinson's disease patients Olga Ajsuvakova, PhD, I.M. Sechenov First Moscow State Medical University (Sechenov University), RUDN University, Russia		
	17:30-17:50	Investigation and comparison of sorbent-type and electrolysis-type dialysate regeneration for a wearable artificial kidney Nikolay Bazaev, I.M. Sechenov First Moscow State Medical University (Sechenov University), MIET, Russia	17:30-17:50	The search for biomarkers of manganese deficiency Margarita Skalnaya, MD, PhD, DSc, Prof, RUDN University, Russia		
	17:50-18:10	Application of neuronets in insulin pumps for individualized treatment Yu. Filippov, Endocrinology research Centre, Russia	17:50-18:10	Molecular mechanisms involving chromium, vanadium, and zinc dyshomeostasis in metabolic syndrome Alexey Tinkov, MD, PhD, Yaroslavl State University, Yaroslavl Russia		
Hall	Pirogov Hall, 2nd floor					
18:10-18:30	Closing ceremony					