October 10, Tuesday

MEPhI, Assembly hall

09.00 - 10.00	Regist	ration
10.00 - 10.30	Opening ceremony, Greeting speeches	
10.30 - 11.30	Roman Zubarev, Karolinska Institute, Sweden Towards 1000 years long human lifetime - fighting the isoaspartate	
11.30 - 12.00	Coffee	-break
	Plenary Session I Chair Prof. H. Gutbrod	
12.00 - 12.45	Paras Prasad, University at Buffalo, USA, MEPhI, Russia Biophotonics and Nanomedicine for Theranostics: Challenges and Opportunities	
12.45 - 13.30	Roger Kamm, MIT, USA Microfluidic technologies for drug screening, point-of-care assays, and disease models: Applications to cancer	
13.30 – 14.00	Andrei Kabashin, CNRS, Aix-Marseille University, France, MEPhI Methods and materials of nanotheranostics	
14.00 - 15.00	Lunch	
	Plenary Session II Chair Prof. A. Kabashin	
15.00 - 15.30	Andrey Kaprin, National Medical Research Center of Radiology, Russia Biomedicine technologies for modern oncoradiology	
15.30 - 16.00	John Mendelsohn, The Univ. of Texas MD Anderson Cancer Center, USA Precision Cancer Medicine: Achievements and Prospects	
16.00 - 16.30	Alexander Potapov, Research Institute of Neurosurgery, Russia Biophotonics in Neurosurgery	
16.30 - 17.00	Oleg Loran, Dimitry Pushkar', Russian Medical Academy of Continuous Professional Education of the Ministry of Health, A.I. Yevdokimov Moscow State University of Medicine and Dentistry, Russia Diagnosis and therapy of prostate cancer: from genomics and proteomics to artificial intelligence	
17.00 - 17.30	Coffee-break	

October 10, Tuesday

MEPhI, Assembly hall

	Plenary Session III Chair Prof. A. Postnov	
17.30 - 18.00	Vladimir Mironov, 3D Bioprinting Solutions, Russia Organ Printing	
18.00 - 18.30	David Smith, Mayo Clinic, USA The next generation sequencing revolution and how it will transform how we treat cancer patients	
18.30 - 19.00	Vladimir Lazar, WIN Consortium, France Development and validation of a new technology and biomarker strategy to predict the efficacy of combinations of targeted therapies: The Model of Lung Cancer	
19:00 - 21.00	Welcome party	

October 11, Wednesday

MEPhI, Conf. Hall 3rd floor

MEPhI, Conf. Hall 3rd floor		
	Invited lectures	
09.30 – 10.00	Regist	ration
	Session I	Chair Prof. V. Timoshenko
10.00 - 10.30	Sergey Deyev, Institute of bioorganic chemistry RAS; MEPhI, Russia Novel approaches for cancer diagnosis and treatment	
10.30 – 11.00	Junle Qu, University of Shenzhen, China Fluorescence lifetime imaging and its applications in cellular microenvironment measurement and auxiliary diagnosis	
Anderson Gomes, Federal University of Pernambuco, Brazil 11.00 - 11.30 Optical Coherence Tomography: from bioimaging enhanced by nanoparticles to patient evaluation in Dentistry and Rheumatology		
11.30 – 12.00	Coffee	-break
	Session II	Chair Prof. V. Kumeiko
12.00 - 12.30	Victor Timoshenko, MSU, MEPhI, Russia Porous silicon nanoparticles for biomedical applications	
12.30 - 13.00	Igor Nabiev , University of Reims, France, MEPhI, Russia Quantum dots conjugates in functional imaging and highly sensitive biochemical assays	
13.00 – 13.30	Anton Fojtik, Czech Technical University in Prague, Czech Republic; MEPhI, Russia NANO – Fascinating Phenomenon	
13.30 - 15.00	Lunch, Poster section overview	
	Session III	Chair Prof. A.Fojtik
15.00 - 15.30	Natalia Epstein, MEPhI, Russia	
15.30 - 16.00	Vladimir Lysenko, CNRS, INL, INSA de Lyon, France; MEPhI, Russia Silicon as photoelectric screen for cell imaging	
16.00 - 16.30	Irina Nazarenko, Medical Center University of Freiburg, Germany "Liquid biopsy" as a new biomedical approach in cancer diagnostics: benefits and pitfalls	
16.30 - 17.00	Coffee-break	

October 11, Wednesday

MEPhI, Conf. Hall 3rd floor

Session IV		Chair Prof. V. Lysenko
17.00 - 17.30	Orlova Anna, ITMO University, Russia Multimodal nanosystems for theranostics	
	Yury Rakovich, Materials Physics Center, Spain; MEPhI, Russia Organic-inorganic hybrid nanosystems for Photodynamic therapy	
18.00 - 18.30	Vadim Kumeiko, Far Eastern Federal University, Russia 00 - 18.30 Development of Translational Medical Cluster of the Far Eastern Federal University	
19.00 - 21.00	Poster Session Reading hall of the library, 2d floor	Chair A. Postnov

October 12, Thursday

MEPhI, Conf. Hall 3rd floor

09.30 - 10.00	Registration		
07.20 10.00	Session V Chair Prof. A. Postnov		
10.00 - 10.30	Dimiter Balabanski, ELI-NP, IFIN-HH, Bucharest, Romania		
10.30 - 11.00	Alexey Lipengolts, N.N. Blokhin Russia Current Status of Neutron Capture There		
11.00 - 11.30	Stepan Ulyanenko, National Medical Research Center of Radiology, Russia Opportunities in the proton therapy: brief analysis of one year experience at Russian proton scanning beam facility		
11.30 – 12.00	Coffee	e-break	
	Session VI	Chair A. Lipengolt s	
12.00 - 12.30 Fabian Isensee, German Cancer Research Center, Germany Medical Informatics in Cancer Research – From Images to Information			
12.30 - 13.00	Marine Amouroux, CNRS CRAN/ENSEM, France Consumer vs. an innovative devices' ability to generate images for teledermatology		
13.00 – 13.30	Radek Pleskac, GSI/FAIR Darmstadt, Germany BIOMAT Project at FAIR		
13.30 - 15.00	Lunch		
	Session VII Chair Prof. S. Ulyanenko		
Walter Blondel, CNRS CRAN/ENSEM, France 15.00 - 15.30 Estimation of in vivo optical properties of human skin carcinomas using spatially resolved multimodal spectroscopy: clinical study preliminary results			
15.30 - 16.00	Victor Loschenov , Prokhorov General Physics Institute of RAS; MEPhI, Russia Modern instrumental and methodological aproaches for brain tumors theranostics		
16.00 - 16.30	Anabela Da Silva, CNRS/Institut Fresnel, France Probing Biological Tissues With Elliptically Polarized Light		
16.30 - 17.00	Nickolai Usov, Pushkov Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation, MEPhI, Russia In Silico Before in-Vitro: how to predict specific absorbtion rate of magnetic nanoparticle assembly		
17.00 - 17.30	Coffee-break		

October 12, Thursday

MEPhI, Conf. Hall 3rd floor

	Session VIII Chair Prof. D. Balabanski	
17.30 - 18.00	Indrajit Roy, University of Delhi, India Inorganic-organic hybrid nanomaterials for targeted and controlled drug	
18.00 - 18.30	Yuri Kistenev, TSU, Russia Applications of molecular imaging and machine learning methods for medical diagnostics	
1 10 2/1 10 / 1/1	Alexey Kucherik, Stoletov Vladimir State University, Russia Metal-carbon nanoclusters for SERS	
19.00 – 21.00	Poster Session Reading hall of the library, 2d floor	Chair A. Kharin

October 13, Friday

MEPhI, Conf. Hall 3rd floor

09.00 - 10.00	Registration		
	Session IX Chair Prof. V. Oleinikov		
10.00 - 10.30	Sergey Suchkov, PhysBio, MEPhI, I.M.Sechenov First Moscow State Medical University, Russia Translational medicine: myth or reality?		
10.30 - 11.00	Sergey Zaitsev et al, MEPhI, Russia Recognition of leucocytes from blood and bone marrow in the diagnosis of acute leukemias		
11.00 - 11.30	David Smith, Mayo Clinic, USA Different whole genome sequencing strategies to characterize oropharyngeal squamous cell carcinomas and how this could transform the clinical treatment of patients with this cancer		
11.30 – 12.00	Coffee-break		
	Session X Chair S. Zaitsev		
12.00 - 12.30	Rudolf Steiner, ILM; Messtechnik an der Universität Ulm, Germany, MEPhI, Russia Laser-tissue interaction on the molecular level		
12.30 - 13.00	Hans Lentzen, MELEMA Pharma GmbH, Germany From a medicinal plant to a modern genetically engineered biological for personalized medicine — an example of drug design and bioengineering		
13.00 – 13.30	Igor Pronin, Research Institute of Neurosurgery, Russia Advanced imaging of brain gliomas		
13.30 - 15.00	Lunch		

October 13, Friday

MEPhI, Conf. Hall 3rd floor

	Session XI Chair Prof. S. Suchkov		
15.00 - 15.30	Irina Zavestovskaya, MEPhI, Russia Scientific and educational agenda of the Institute of Engineering Physics for Biomedicine		
15.30 - 16.00	Natali Bakhtina, Karlsruhe Institute of Technology, Germany Microfluidic approaches for small motile organisms handling and tracking during magnetic resonance microscopy		
16.00 - 16.30	Galina Belostotskaya, IEPhB RAS; Institute of Experimental Medicine, Almazov National Medical Research Centre, Russia Development of a bifunctional translational platform to develop therapeutics of the newest generation targeted for the post-infarction condition management and being applied into biopharma		
16.30 - 17.00	Coffee-break		
	Session XII Chair Prof. I. Zavestovskaya		
17.00 - 17.30	Penny J. Beuning , Northeastern University, USA Harnessing DNA damage processing enzymes for biotechnology and human health		
17.30 - 18.00	Igor Meglinski, University of Oulu, Finland; MEPhI, Russia Encapsulated bio-sensors for non-invasive stress assessment of aquatic animals for environmental monitoring		
18.00 - 18.30	Vladimir Oleinikov, Institute of Bioorganic Chemistry; MEPhI, Russia Correlative microscopy: a potent tool for biomedicine		
19.00 – 21.00	Conference dinner		

October 14, Saturday

Hotel Intourist Kolomenskoe

Invited lectures		
09.30 - 10.00	Registration	
	Session XIII	Chair Prof. A. Kabashin
10.00 - 10.30	Alexander Grishin, KTH Royal Institute of Technology, Sweden Biocompatible Films and Nanofibers for Bioengineering, Multimodal Bioimaging and Sensors	
10.30 - 11.00	Carlos Malpica, Metabolon, USA New targets from the human genome and second genome with metabolomics	
11.00 - 11.30	John Milford Aitken, 1000 Airplanes Ltd, New Zealand International Cooperation in the Global Search For new Antimicrobial and Pharmaceutical Therapies - A Joint New Zealand Russian model to advance the Scientific Effort	
11.30 - 12.00	Shawn Norman Murphy, Partners HealthCare System Inc, USA Integrating Genomic and Clinical Data for Precision Medicine	
12.00 - 13.00	Coffee-break	
13.00 - 15.00	Round table «Translational Medicine through the View of Hi-Tech, Biopharma, Clinical Practice And Education» Co-Chairs: Sergey Suchkov, Victor Timoshenko, Alexandr Tyukavin, John Mendelsohn, Shawn Norman Murphy, Vladimir Lazar Participants: I. Zavestovskaya, A. Roziev, Yury Rakovich, Indrajit Roy, Carlos Malpica, Galina Belostotskaya, Nikolai Bovin, John Milford Aitken, Natalia Bakhtina, Aleksey Moskovtsev, Vladimir Oleinikov, Yuri Kistenev, Junle Qu, Irina Nazarenko, Aleksandr Gluhov, Evgeniya Kogan, Sergey Bolevich, Maria Studeneva, Leonid Levkovich-Maslyuk, David Smith, Anastasiya Voronkova, Arsenii Sadykov, Vladimir Bodu, Christian Garbe, Paras Prasad, Anton Fojtik, Igor Meglinski, Andrey Kabashin, Piotr Timashev, Rudolf Steiner	
15.00 - 16.00	Closing c	eeremony
16.00 - 18.00	Guide tour	on Moscow
12.00 - 13.00 13.00 - 15.00	Shawn Norman Murphy, Partners HealthCare System Inc, USA Integrating Genomic and Clinical Data for Precision Medicine Coffee-break Round table «Translational Medicine through the View of Hi-Tech, Biopharma, Clinical Practice And Education» Co-Chairs: Sergey Suchkov, Victor Timoshenko, Alexandr Tyukavin, John Mendelsohn, Shawn Norman Murphy, Vladimir Lazar Participants: I. Zavestovskaya, A. Roziev, Yury Rakovich, Indrajit Roy, Carlos Malpica, Galina Belostotskaya, Nikolai Bovin, John Milford Aitken, Natalia Bakhtina, Aleksey Moskovtsev, Vladimir Oleinikov, Yuri Kistenev, Junle Qu, Irina Nazarenko, Aleksandr Gluhov, Evgeniya Kogan, Sergey Bolevich, Maria Studeneva, Leonid Levkovich-Maslyuk, David Smith, Anastasiya Voronkova, Arsenii Sadykov, Vladimir Bodu, Christian Garbe, Paras Prasad, Anton Fojtik, Igor Meglinski, Andrey Kabashin, Piotr Timashev, Rudolf Steiner Closing ceremony	