

The 3rd International Symposium "Physics, Engineering and Technologies for Bio-Medicine"

October 15, Monday

The Intourist Kolomenskoe
Kashyrskoye shosse, 39b, Moscow

09.00 – 10.00	Registration	
10.00 – 10.30	Opening ceremony, Greeting speeches	
10.30 – 11.30	Marco Durante , GSI Helmholtz Center, Germany <i>Future ion beam radiobiology</i>	
11.30 – 12.00	Coffee-break	
	Plenary Session I	<i>Chair Prof. S. Deyev</i>
12.00 – 12.30	Paras Prasad , University at Buffalo, USA, MEPHI, Russia <i>Biophotonics and Nanomedicine for Theranostics: Translation to Patient Care</i>	
12.30 – 13.00	Andrei Kabashin , CNRS, Aix-Marseille University, France, MEPHI <i>PhysBio research agendas</i>	
13.00 – 13.30	Alexander Golubev , ITEP of NRC "Kurchatov Institute", Moscow, Russia <i>Proton therapy&radiography</i>	
13.30 – 14.00	Mickael Bourgeois , Nantes Univ. Hospital and ARRONAX Cyclotron, France. <i>From phenotypic to theranostic approach in nuclear medicine – need for non conventional radionuclides</i>	
14.00 – 15.00	Lunch	
	Plenary Session II	<i>Chair Prof. A. Kabashin</i>
15.00 – 15.30	Andrey Kaprin , National Medical Research Center of Radiology <i>Biomedicine technologies for modern oncoradiology</i>	
15.30 – 16.00	Sunil Krishnan , Anderson Cancer Center, Univ. of Texas MD, USA <i>Nanoparticles in cancer medicine – a physician's perspective</i>	
16.00 – 16.30	Valentin Smirnov , Scientific Research Institute of technical physics and automation, SC Rosatom, Russia <i>Development of radiotherapy system based on 6 MeV C-band linac</i>	
16.30 – 17.00	Sergey Deyev , Institute of bioorganic chemistry RAS, MEPHI, Russia <i>Multifunctional nanomaterials for theranostics</i>	
17.00 – 17.30	Coffee-break	
	Plenary Session III	<i>Chair Dr. A. Fertman, Skolkovo</i>
17.30 – 19.00	Round table discussion «Development trends and models for the commercialization of new technologies of nuclear and nano-medicine and radiation therapy»	
19:00 – 21.00	Welcome party	

The 3rd International Symposium "Physics, Engineering and Technologies for Bio-Medicine"

October 16, Tuesday

The Intourist Kolomenskoe

Invited lectures

Kashyrskoye shosse, 39b, Moscow

09.30 – 10.00	Registration	
	Session I	<i>Chair Prof. I. Nabiev</i>
10.00 – 10.30	Victor Timoshenko , MSU, MPhI, Russia . <i>Biodegradable silicon based nanoparticles for applications in cancer theranostics</i>	
10.30 – 11.00	Junle Qu , University of Shenzhen, China. <i>Fluorescence lifetime imaging: technology for microenvironment biosensing and anti-counterfeiting</i>	
11.00 – 11.30	Gomes Anderson , Federal University of Pernambuco, Brazil <i>State-of-the-Art in Nanodentistry: From Nanomaterials to Optical Imaging</i>	
11.30 – 12.00	Coffee-break	
	Session II	<i>Chair Prof. V. Timoshenko</i>
12.00 – 12.30	Igor Meglinski , University of Oulu, Finland; MPhI, Russia <i>Perspectives of complex structured light with orbital angular momentum in optical diagnostics</i>	
12.30 – 13.00	Igor Nabiev , University of Reims, France, MPhI, Russia <i>Nanoparticles physico-chemical engineering for diagnostics and drug delivery</i>	
13.00 – 13.30	Yury Rakovich , University of the Basque Country, Spain; MPhI, Russia <i>Whispering Gallery Photonic Structures for Biomedical Applications</i>	
13.30 – 15.00	Lunch, Poster section overview	
	Session III	<i>Chair Prof. V. Oleinikov</i>
15.00 – 15.30	Aleksandr Tyukavin , St. Petersburg State University of Chemical and Pharmaceutical Sciences, Russia. <i>Apoptosis bodies conjugation functions of resident cardiac and mesenchymal stem cells in myocardium</i>	
15.30 – 16.00	Viktor Tsetlin , Institute of bioorganic chemistry RAS; MPhI, Russia <i>Neurotoxin-Receptor Interactions: Materials, Bioimaging, Diagnostics</i>	
16.00 – 16.30	Gennady Panin , Nano-Information Technology Academy, QSRC, Dongguk University, South Korea, IMT RAS, Russia. <i>Biocompatible photomemristive information- sensory systems based on 2d crystals</i>	
16.30 – 17.00	Coffee-break	
	Session IV	<i>Chair Prof. I. Meglinski</i>
17.00 – 17.30	Alexey Lipengolts , N.N. Blokhin Russian Cancer Research Center <i>Contrast enhanced radiotherapy. Current status and prospects.</i>	
17.30 – 18.00	Indrajit Roy , University of Delhi, India . <i>Nanoscale metal-organic frameworks for targeted and controlled drug delivery</i>	
18.00 – 18.30	Vladimir Oleinikov , Institute of bioorganic chemistry RAS; MPhI, Russia <i>A palette of fluorescent nanoparticles to develop modern biomedical tools</i>	
18.30 – 20.00	Poster Session	

The 3rd International Symposium "Physics, Engineering and Technologies for Bio-Medicine"

October 17, Wednesday

The Intourist Kolomenskoe
Kashyrskoye shosse, 39b, Moscow

Invited lectures

09.30 – 10.00	Registration	
	Session V	<i>Chair Prof. A. Postnov</i>
10.00 – 10.30	Sergey Suchkov , Sechenov University; MEPhI, Russia <i>Translational medicine: myth or reality?</i>	
10.30 – 11.00	Dmitry Telyshev , National Research University of Electronic Technology; Sechenov University, Russia. <i>Bionic Heart: translation principles</i>	
11.00 – 11.30	Katharina Seidensaal , Heidelberg University Hospital, Germany <i>Implementation and Early Clinical Data from Particle Irradiation</i>	
11.30 – 12.00	Coffee-break	
	Session VI	<i>Chair Prof. A. Lipenholts</i>
12.00 – 12.30	Viktoria Tishchenko , A.F. Tsyb Medical Radiological Research Center <i>Biodistribution ex vivo of ²¹³Bi-khedp – a promising bone-seeking agent for targeted alpha therapy</i>	
12.30 – 13.00	Dmitry Chuvilin , NRC "Kurchatov Institute" <i>Development of a radiopharmaceutical therapeutic drug of the directed action based on the radionuclide lutetium-177</i>	
13.00 – 13.30	Andrey Postnov , MEPhI, Research Institute of Neurosurgery; Russia <i>Methionine uptake by brain tumors of different types</i>	
13.30 – 15.00	Lunch	
	Session VII	<i>Chair Prof. D. Telyshev</i>
15.00 – 15.30	Vladimir Mironov , 3D Bioprinting Solution, MEPhI, Russia <i>3D bioprinting in space</i>	
15.30 – 16.00	Tatiana Demina , Enikolopov Institute of Synthetic Polymer Materials RAS; Sechenov University, Russia <i>DC discharge plasma: surface modification of biomaterials for tissue engineering</i>	
16.00 – 16.30	Andrei Bashkov , Federal Medical Biological Agency, Russia <i>3D modeling in the routine work of the radiologist. Experience of the Burnasyan Federal Medical Biophysical Center of the FMBA of Russia</i>	
16.30 – 17.00	Elena Filonenko , National Medical Research Center of Radiology, Russia <i>Photodynamic therapy of precancer and early cervical cancer</i>	
17.00 – 17.30	Coffee-break	
	Session VIII	<i>Chair Prof. S. Suchkov</i>
17.30 – 18.30	Round table discussion "New pharmaceutical and medical education"	
18.30 – 19.00	<i>Awarding the winners of the contest for the best report. Closing ceremony</i>	