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

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October 16, Tuesday				
The Intourist Kolomenskoe				
	Invited lectures Kashyrskoye shosse, 39b, Moscow			
09.30 - 10.00	Registra	ation		
	Session I	Chair Prof. I. Nabiev		
10.00 – 10.30	Victor Timoshenko, MSU, MEPhI, Russia . Biodegradable silicon based nanoparticles for applications in cancer theranostics			
10.30 – 11.00	Junle Qu , University of Shenzhen, China. Fluorescence lifetime imaging: technology for microenvironment biosensing and anti–counterfeiting			
11.00 – 11.30	Gomes Anderson, Federal University of Pernambuco, Brazil State-of-the-Art in Nanodentistry: From Nanomaterials to Optical Imaging			
11.30 – 12.00	Coffee-l	oreak		
	Session II	Chair Prof. V. Timoshenko		
12.00 – 12.30	Igor Meglinski, University of Oulu, Finland; MEPhI, Russia Perspectives of complex structured light with orbital angular momentum in optical diagnostics			
12.30 – 13.00	Igor Nabiev , University of Reims, France, MEPhI, Russia Nanoparticles physico-chemical engineering for diagnostics and drug delivery			
13.00 – 13.30	Yury Rakovich, University of the Basque Country, Spain; MEPhI, Russia Whispering Gallery Photonic Structures for Biomedical Applications			
13.30 – 15.00	Lunch, Poster section overview			
	Session III	Chair Prof. V. Oleinikov		
15.00 – 15.30	Aleksandr Tyukavin, St. Petersburg State University of Chemical and Pharmaceutical Sciences, Russia. Apoptosis bodies conjugation functions of resident cardial and mesenchemestem cells in myocardium			
15.30 – 16.00	Viktor Tsetlin, Institute of bioorganic chemistry RAS; MEPhI, Russia Neurotoxin-Receptor Interactions: Materials, Bioimaging, Diagnostics			
16.00 – 16.30	Gennady Panin, Nano-Information Technology Academy, QSRC, Dongguk University, South Korea, IMT RAS, Russia. Biocompatible photomemristive information—sensory systems based on 2d crystals			
16.30 – 17.00	Coffee-l			
	Session IV	Chair Prof. I. Meglinski		
17.00 – 17.30	Alexey Lipengolts, N.N. Blokhin Russian Cancer Research Center Contrast enhanced radiotherapy. Current status and prospects.			
	Contrast ennancea raatoinerapy. Current	status and prospects.		
17.30 – 18.00	Indrajit Roy, University of Delhi, India . frameworks for targeted and controlled d	Nanoscale metal–organic rug delivery		
17.30 – 18.00 18.00 – 18.30 18.30 –20.00	Indrajit Roy, University of Delhi, India.	Nanoscale metal—organic rug delivery nic chemistry RAS; MEPhI, Russia develop modern biomedical tools		

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October 17, Wednesday				
	Invited lectures	The Intourist Kolomenskoe Kashyrskoye shosse, 39b, Moscow		
09.30 - 10.00	Registr	Registration		
	Session V	Chair Prof. A. Postnov		
10.00 – 10.30	Sergey Suchkov, Sechenov University; MEPhI, Russia Translational medicine: myth or reality?			
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 Implementation and Early Clinical Data from Particle Irradiation			
11.30 – 12.00	Coffee-			
	Session VI	Chair Prof. A. Lipenholts		
12.00 – 12.30	Viktoria Tishchenko , A.F. Tsyb Medical Radiological Research Center Biodistribution ex vivo of 213bi-khedp – a promising bone-seeking agent for targeted alpha therapy			
12.30 – 13.00	Dmitry Chuvilin , NRC "Kurchatov Institute" Development of a radiopharmaceutical therapeutic drug of the directed action based on the radionuclide lutetium-177			
13.00 – 13.30	Andrey Postnov, MEPhI, Research Institute of Neurosurgery; Russia Methionine uptake by brain tumors of different types			
13.30 – 15.00	Lunch			
	Session VII	Chair Prof. D. Telyshev		
15.00 – 15.30	Vladimir Mironov, 3D Bioprinting Solution, MEPhI, Russia 3D bioprinting in space			
15.30 – 16.00	Tatiana Demina, Enikolopov Institute of Synthetic Polymer Materials RAS; Sechenov University, Russia DC discharge plasma: surface modification of biomaterials for tissue engineering			
16.00 – 16.30	Andrei Bashkov, Federal Medical Biological Agency, Russia 3D modeling in the routine work of the radiologist. Experience of the Burnasyan Federal Medical Biophysical Center of the FMBA of Russia			
16.30 – 17.00	Elena Filonenko, National Medical Research Center of Radiology, Russia Photodynamic therapy of precancer and early cervical cancer			
17.00 – 17.30	Coffee-break			
	Session VIII	Chair Prof. S. Suchkov		
17.30 – 18.30	Round table discussion "New pharmaceutical and medical education"			
18.30 – 19.00	Awarding the winners of the contest for the best report. Closing ceremony			