

Program of the International summer school «Biophotonics»

20.07.2020

11.00 – 11.30	Opening ceremony.
Session I Chair Prof. A. Kabashin	
11.30 – 12.30	Andrey V. Kabashin , CNRS, Aix-Marseille University, Marseille, France MEPhI, Moscow, Russia <i>Laser synthesis of nanomaterials and their biomedical applications</i>
12.30 – 13.30	Anton Fojtik , Czech Technical University in Prague, Czech Republic, MEPhI, Moscow, Russia <i>Genesis of laser nanotechnologies for biomedicine</i>
13.30 – 15.00	Break. Self-study.
Session II Chair Prof. V. Timoshenko	
15.00 – 16.00	Victor Yu. Timoshenko , M.V. Lomonosov Moscow State University, MEPhI, Moscow, Russia <i>Semiconductor nanocrystals for Biophotonic applications</i>
16.00 – 17.00	Paras Prasad , University of Buffalo, New York, USA, MEPhI, Moscow, Russia <i>Biophotonics in the age of nanomaterials</i>

21.07.2020

Session III Chair Prof. S. Klimentov	
10.30 – 11.30	Valery V. Tuchin , Saratov State University, Saratov, Russia <i>Tissue Optics and Tissue Optical Clearing for in-depth Imaging and Therapy</i>
11.30 – 12.30	Sergey M. Klimentov , MEPhI, Moscow, Russia <i>Laser systems for diagnostics and therapy</i>
12.30 – 14.00	Break. Self-study.
Session IV Chair Prof. A. Gomes	
14.00 – 15.00	Igor R. Nabiev , Laboratoire de Recherche en Nanosciences, Université de Reims Champagne-Ardenne, France <i>Protein Biomarker Detection Using Multiparametric Fluorescence Analysis and Label-Free Photonic Micro-Resonators</i>
15.00 – 16.00	Anderson S. L. Gomes , Federal University of Pernambuco, Brazil, MEPhI, Moscow, Russia <i>Nanobiophotonics and Biophotonics Applications in Dentistry</i>

22.07.2020

Session V Chair Prof. I. Meglinski	
10.30 – 11.30	Igor V. Meglinski , School of Engineering and Applied Science, Aston University, Birmingham, UK, MEPhI, Moscow, Russia <i>Functional Brain Imaging with Dynamic Light Scattering at Broken Ergodicity Conditions</i>
11.30 – 12.30	Tatiana A. Savelieva , Prokhorov General Physics Institute of the Russian

	Academy of Sciences, MPhI, Moscow, Russia <i>Fluorescence diagnostics: fundamentals and applications in neurosurgery</i>
12.30 – 14.00	Break. Self-study.
Session VI Chair Dr. T. Savelieva	
14.00 – 15.00	Denise M. Zezell , Center for Lasers and Applications, Nuclear and Energy Research Institute, Sao Paulo-SP, Brazil <i>Multimodal FTIR spectroscopy as disease diagnosis tool</i>
15.00 – 16.00	Junle Qu , University of Shenzhen, China, MPhI, Moscow, Russia <i>Liposomal co-encapsulation of imaging agents and photosensitizers provides nanoformulation for multimodal imaging and phototherapy of cancer</i>

23.07.2020

Session VII Chair Dr. A. Kharin	
10.30 – 11.30	Vladimir A. Oleinikov , Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow, Russia, MPhI, Moscow, Russia <i>Inanimate fluorophores. Fluorescent Nanoparticles for Medicine and Biology</i>
11.30 – 12.30	Alexander Yu. Kharin , MPhI, Moscow, Russia <i>Optical methods for exploring the biomedical nanomaterials</i>
12.30 – 14.00	Break. Self-study.
Session VIII Chair Dr. A. Popov	
14.00 – 15.00	Anton A. Popov , MPhI, Moscow, Russia <i>Femtosecond laser synthesis of nanoparticles for Biomedicine</i>
15.00 – 16.00	Vladimir Lysenko , Institut Lumière Matière, Université Claude Bernard Lyon1, France, MPhI, Moscow, Russia <i>Carbon-based nanomaterials for theranostic application</i>

24.07.2020

10.30 – 16.00	Self-study. Prep for the virtual poster session.
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25.07.2020

14.00 – 16.00	Virtual poster session.
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26.07.2020

10.00	Closing ceremony. Discussions.
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