

**ON-LINE TOMTI INVITED LECTURES
SESSION I**

September 30, Wednesday
Saratov time UTC+4

16.00-16.30 (Nizhny Novgorod 15.00-15-30)



**INSIGHTS INTO METABOLIC ASPECTS OF TUMOR GROWTH WITH
FLUORESCENCE AND PHOSPHORESCENCE TIME-RESOLVED
TECHNIQUES**

Marina Shirmanova

Privolzhskiy Research Medical University, Nizhny Novgorod, Russia

16.30-17.00 (Florence 14.30-15-00)



**SOLID AND LIQUID TISSUE PATHOLOGY ANALYSIS BY MULTIMODAL
MICROSCOPY**

Francesco S. Pavone

European Laboratory for non Linear Spectroscopy, Florence, Italy

17.00-17.30 (Lowell 9.00-9-30)



**QUANTITATIVE FLUORESCENCE POLARIZATION IMAGING FOR CANCER
DETECTION**

Anna N. Yaroslavsky

University of Massachusetts at Lowell, USA

17.30-18.00 (Moscow 16.30-17.00)



GENETICALLY ENCODED AUTONOMOUS BIOLUMINESCENCE IN EUKARYOTES

Ilya Yampolsky

Department of Biomolecular Chemistry, Institute of Bioorganic Chemistry, Moscow, Russia

18.00-18.30 (Moscow 17.00-17.30)



TOWARDS THE CREATION OF A MAGIC BULLET: SUPRAMOLECULAR NANOSTRUCTURES FOR ONCOTHERANOSTICS

Victoria Shipunova, Polina Kotelnikova, Elena Komedchikova, Anna Sogomonyan, Maria Belova, Olga Kolesnikova, Vladislav Soloviev, Maxim Nikitin, Sergey Deyev, IBCh RAS, Russia

18.30-19.00 (Worcester 10.30-11.00)



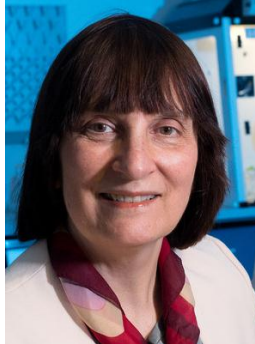
MONITORING OF OPTICAL CLEARING EFFECTS BY FLUORESCENCE AND MAGNETIC RESONANCE IMAGING IN VIVO

Alexei A. Bogdanov Jr.^{1,2}, Natalia I. Kazachkina², Victoria V. Zherdeva², Irina G. Meerovich², Ilya D. Solovyev², Daria K. Tuchina^{2,3,4}, Alexander P. Savitsky², Valery V. Tuchin^{2,3,4,5} 1- University of Massachusetts Medical School, Radiology, Worcester, Massachusetts, United States of America; 2 - A.N. Bach Institute of Biochemistry, FRC "Fundamentals of Biotechnology", RAS, Moscow; 3 - Saratov State University, Saratov; 4 - Tomsk State University, Tomsk; 5 - Institute of Precision Mechanics and Control of the RAS, Saratov, Russia

SESSION II

October 1, Thursday
Saratov time UTC+4

10.00-10.30 (Sydney 16-00-16-30)



BIG DATA AND HYPERSPECTRAL IMAGING UNCOVER HIDDEN REGULARITIES OF NATIVE COLOURS AND PATTERNS IN CELLS AND TISSUES

**Ewa M. Goldys, Martin E. Gosnell, Abbas Habibalahi, Saabah Mahbub, Jared
Campbell, Ayad G. Anwer, Jesse Michael,**
University of New South Wales, Sydney, Australia