

14.45-15.00 (Moscow 13.45-14.00)

OPENING OF TOMTI



Alexander G. Gabibov
IBCh RAS, Moscow, Russia

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

September 30, Wednesday
Saratov time UTC+4

15.00-15.30 (Nizhny Novgorod 14.00-14.30)



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

Marina Shirmanova
Privolzhskiy Research Medical University, Nizhny Novgorod, Russia

15.30-16.00 (Florence 13.30-14.00)

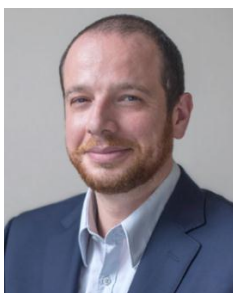


**SOLID AND LIQUID TISSUE PATHOLOGY ANALYSIS BY MULTIMODAL
MICROSCOPY**

Francesco S. Pavone

European Laboratory for non Linear Spectroscopy, Florence, Italy

16.00-16.30 (Moscow 15.00-15.30)



**GENETICALLY ENCODED AUTONOMOUS BIOLUMINESCENCE IN
EUKARYOTES**

Ilia Yampolsky

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

16.30-17.00 (Moscow 15.30-16.00)



**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

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 (Worcester 9.30-10.00)



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}**

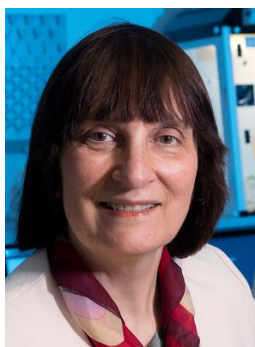
¹- University of Massachusetts Medical School, Radiology, Worcester, Massachusetts, United States of America; ² - A.N. Bach Institute of Biochemistry, FRC "Fundamentals of Biotechnology", RAS, Moscow; ³ - Saratov State University, Saratov; ⁴ - Tomsk State University, Tomsk; ⁵ - Institute of Precision 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