**PROGRAMM 2nd School on ADFLIM**

**july, 26**

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| **9.00 - 9.40** | **registration**  **( Saint-Petersburg State University)** | |
| **9.45 - 10.00** | **Welcome remarks** | **Alexander savitsky,**  **research center of biotechnology of the RAS, RUSSIA;**  **Elina Chigan, Biovitrum, rUSSIA;**  **vlad Shcheslavskiy ,B&H, Germany;**  **Alsu Saifitdinova, sAINT-PETERSBURG UNIVERSITY, RUSSIA** |
| **10.00 – 10.40** | **in russian обзор современных методов флуоресцентного молекулярного имиджинга**  **(HIGHLIGHTS OF MORDEN FLUORESCENCE MOLECULAR IMAGING METHODS** | **alexander savitsky, research center of biotechnology of the RAS, mOSCOW, RUSSIA** |
| **10.40 - 11.20** | **in russian**  **Люминесцентная микроскопия: от пикосекунд до миллисекунд** | **vladislav shcheslavskiy ,**  **Nizhniy Novgorod State Medical Academy, Russia /**  **Becker &HIckl Gmbh, BERLIN, GERMANY** |
| **11.20 - 11.40** | **COFFEE BREAK** | |
| **11.40 - 12.20** | **in russian**  **Термогенетическая стимуляция нейронов: интеграция нейробиологии, ИК-фотоники и квантовой термометрии (Thermogenetic neurostimulation: integration of neurobiology, IR photonics and quantum thermometry)** | **vsevolod belousov,**  **Institute of Bioorganic Chemistry, Russia, Moscow, RUSSIA** |
| **12.20 - 13.00** | **Investigation of Protein-Protein Interactions in a single living cell: Two- and Three-Color FRET Microscopy** | **Ammasi Periasamy,**  **University of Virginia, USA** |
| **13.00 – 13.40** | **in russian**  **Методы спектроскопии высокого временного разрешения для исследования нативных и гибридных преобразователей энергии** | **Eugene Maksimov,**  **Moscow State University, Russia** |
| **13.40-14.00** | **in russian**  **Новый оптический микроскоп Nikon Ti2 - многозадачная платформа для флуоресцентного имиджинга (new optical microscopy Nikon Ti2 as multifunctional platform for fluorescence imaging)**  **( sponsor presentation** | **Pavel zykov,**  **biovitrum, Russia** |
| **14.00 – 15.00** | **lunch** | |
| **15.00-15.40** | **Novel In Vivo Imaging Approaches to Measure Target Engagement in Pre-Clinical Research** | **Margarida Barroso,**  **Albany Medical College, USA** |
| **15.40 – 16.20** | **An introduction to fluorescence correlation spectroscopy** | **Marcel Leutenegger,**  **Max Plank Institute of Biophysical Chemistry, Göttingen, Germany** |
| **16.20 - 17.00** | **Мultidimensional TCSPC for multitasks** | **Wolfgang Becker, Becker&Hickl GmbH, Germany** |
| **17.00 - 17.20** | **COFFEE BREAK** | |
| **17.20 – 18.00** | **FAST FLIM** | **Hauke Studier, Becker&Hickl GmbH, Germany** |
| **18.00 – 18.40** | **in russian**  **FLIM каспазной активности на опухолевых клеточных и животных моделях**  **(FLIM of caspase activation in tumor cells and animal models)** | **Zherdeva victoria,**  **research center of biotechnology of the RAS, mOSCOW, RUSSIA** |
| **18.40 -20.00** | **POSTER SESSION** |  |

**july, 27**

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| **9.00-9.40** | **STimulated Emission Depletion (STED) : what can nanoscopy bring to life sciences”** | **to be announced** |
| **9.40-10.20** | **The Extra Microscope** | **Alberto Diaspro,**  **Italian Institute of Technology, Italy** |
| **10.20-11.00** | **in russian**  **Новые фосфоресцентные метки, гибкие химические платформы для применения в имиджинге (New phosphorescent probes, flexible chemical platforms for versatile applications in imaging)** | **Sergey Tunik, Saint-Petersburg State University, Russia** |
| **11.00. - 11.20** | **sponsor presentation**  **in russian**  **Флуоресцентная микроскопия с разрешением до 120нм от Никон (Fluorescence microscopy with resolution up to 120 nm from Nikon)** | **Smirnova tatyana,**  **Nikon, Russia** |
| **11.20 – 11.40** | **COFFEE BREAK** | |
| **11.40 - 12.20** | **20 years of Doppler OCT and OCT Angiography** | **Zhongping Chen,**  **Beckman Laser Institute, University of California, Irvine, USA** |
| **12.20 - 13.00** | **in russian**  **Мультимодальная оптическая когерентная томография: Настоящее и будущее** | **Natalia Gladkova,**  **Nizhniy Novgorod State Medical Academy, Russia** |
| **13.00-13.40** | **in russian**  **Флуоресцентная и оптоакустическая глубинная визуализация биотканей (Fluorescence and optoacoustic deep tissue imaging)** | **ilya Turchin,**  **Institute of Applied Physics of the Russian Academy of Science, Nizhniy Novgorod, Russia** |
| **13.40-14.20** | **in russian**  **Световодная фотоника для применения в биомедицине – от лазерной медицины до диагностики**  **(FIBER PHOTONICS FOR BIOMEDICAL APPLICATIONS – FROM LASER MEDICINE TO DIAGNOSTICS)** | **VIACHESLAV ARTYUSHENKO,**  **ART PHOTONICS GMBH, GERMANY** |
| **14.20-15.00** | **lunch** | |
| **15.00-15.40** | **in russian**  **Спектроскопия и визуализация биологических тканей при оптическом просветлении**  **(biological tissue optics and optical clearing)** | **valery TUCHIN,**  **Saratov National Research State University, Russia** |
| **15.40-16.20** | **А multivariate analysis of a brain disease** | **Francesco Pavone,**  **University of Florence, LENS, Italy** |
| **16.20 - 17.00** | **Флуоресцентная визуализация с разрешением во времени папиллярного слоя кожи in vivo**  **(Fluorescence llifetime imaging of the human skin papillary dermis in vivo)** | **Alexander Priezzhev,**  **Physics department and International Laser Center, Lomonosov Moscow State University, Russia** |
| **17.00 - 17.20** | **COFFEE BREAK** |  |
| **17.20 - 18.00** | **Autofluorescence Lifetime Imaging for Personalized Drug Screens in Cancer** | **Melissa Skala,**  **Morgridge Institute for Research** **University of Wisconsin – Madison, USA** |
| **18.00 - 18.40** | **in russian**  **Основы флуоресцентной диагностики**  **(BASIS OF FLUORESCENCE DIAGNOSIs)** | **Natalia Bulgakova,**  **А. M. PROKHOROV GENERAL PHYSICS INSTITUTE, Moscow, Russia** |
| **18.40 -20.00** | **POster session** |  |

**july, 28**

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| **9.40 - 10.00** | **оптическая электропорация с помощью наночастиц** | **olga bibikova, Saratov National Research State University, Russia** |
| **10.00-10.40** | **Multiphoton clinical FLIM** | **to be annoUnced** |
| **10.40-11.20** | **Live imaging of developmental processes in mouse models using fluorescent reporters** | **Irina Larina,**  **Baylor College of Medicine, USA** |
| **11.20 - 12.00** | **in russian**  **Мультимодальный лазерный нейроимиджинг (multimodal laser neuroIMAGING )** | **ALEXEY ZHELTIKOV, M.V. Lomonosov Moscow State University, RUSSIA** |
| **12.00 - 12.20** | **COFFEE BREAK** | |
| **12.20 - 12.40** | **sponsor presentation**  **Optical In Vivo imaging: Research at the Speed of Light** | **to be annoUnced** |
| **12.40– 13.20** | **NANOPLASMONICS FOR BIOPHOTONICS APPLICATIONS** | **to be annoUnced** |
| **13.20-14.00** | **Nanodiamond for bio labeling and drug delivery** | **to be annoUnced** |
| **14.00-15.00** | **lunch** | |
| **15.00-15.40** | **in russian**  **ПРИМЕНЕНИЕ ТРАНСКРИПТОМИКИ ОТДЕЛЬНЫХ**  **КЛЕТОК ДЛЯ ДЕШИФРОВКИ МЕхАНИЗМОВ ВЫБОРА КЛЕТОЧНОЙ СУДЬБЫ ВО ВРЕМЯ РАЗВИТИЯ** | **Igor Adameyko,**  **Karolinska Institutet, Sweden; Medical University of Vienna, Austria** |
| **15.40 – 16.20** | **late breaking presentation** | **to be annoUnced** |
| **16.20-17.10** | **ADVANCED AND SUPER-resolution fluorescence microscopy** | **Joerg Enderlein,**  **Drittes Physikalisches Institut - Biophysik, Georg-August-Universität, Germany** |
| **17.10-17.30** | **POSTER SESSION award winner’s. School closing** |  |