



PROGRAMM 2nd School on ADFLIM

JULY, 26

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 T12 - МНОГОЗАДАЧНАЯ ПЛАТФОРМА ДЛЯ ФЛУОРЕСЦЕНТНОГО ИМИДЖИНГА (NEW OPTICAL MICROSCOPY NIKON T12 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	MULTIDIMENSIONAL 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 ФЛИМ 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	

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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	A 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 LIFETIME 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, A. M. PROKHOROV GENERAL PHYSICS INSTITUTE, MOSCOW, RUSSIA
18.40 - 20.00	POSTER SESSION	

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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 НЕЙРОИМДЖИНГ (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	