

# Program

## 11<sup>th</sup> Workshop and Conference on Advanced Multiphoton and Fluorescence Lifetime Imaging Techniques FLIM 2017

Max-Born-Saal, Max-Born-Strasse 2A, 12489 Berlin-Adlershof

June 30 - July 1, 2017

Friday, June 30		
08:00 - 09:00	Registration	
09:00 - 09:15	<i>Opening remarks</i>	K. König, W. Becker
09:15 - 09:45	<i>Overview: State-of-the-art multiphoton tomography</i>	K. König
09:45 - 10:15	<i>Fluorescence lifetime imaging by multi-dimensional TCSPC - Advanced techniques and applications</i>	W. Becker
10:15 - 10:30	Coffee break	
<i>Advanced Microscopy</i>		
10:30 - 10:55	<i>Quantitative single cell image analysis of endogenous molecules in cells and tissue: FLIM-FRET microscopy</i>	A. Periasamy
10:55 - 11:20	<i>Biological computing using FLIM</i>	D. Fixler
11:20 - 11:45	<i>High-resolution multiplexed imaging of oxygen in 3D tissue models</i>	D. Papkovsky
11:45 - 12:10	<i>FAST FLIM</i>	H. Studier
12:10 - 12:35	<i>Wide-field TCSPC FLIM with picosecond time resolution</i>	K. Suhling
12:35 - 13:00	<i>Investigation of cell metabolism and oxygen sensing by FLIM and PLIM and biomedical applications</i>	A. Rück
13:00 - 13:35	Lunch	
<i>Tissue imaging</i>		
13:35 - 14:00	<i>Multiphoton tomography and RAMAN Spectroscopy of human skin</i>	J. Lademann
14:00 - 14:25	<i>Tissue clearance for microscopy</i>	V. Tuchin
14:25 - 14:50	<i>In vivo skin aging calculation</i>	A. Schindele
14:50 - 15:15	<i>Measurements of absolute concentration of NADH using the phasor method</i>	E. Gratton
15:15 - 15:40	<i>Temporal focusing microscopy</i>	P. So
15:40 - 16:05	<i>Multiphoton pharmacokinetics</i>	M. Roberts
16:05 - 18:30	<i>Beer, Pretzels &amp; e-Posters 1 (3 min pitch + 3 min discussion)</i>	

<b>Saturday, July 1</b>		
<i>Biomedical applications I</i>		
<b>9:00 - 9:25</b>	<i>Advances in clinical skin imaging using multiphoton tomography</i>	<b>M. Balu</b>
<b>9:25 - 9:50</b>	<i>In vivo CARS imaging</i>	<b>M. Weinigel</b>
<b>9:50 - 10:15</b>	<i>Multiphoton fluorescence lifetime imaging at patient's bedside – from morphology to clinical pathophysiology</i>	<b>V. Huck</b>
<b>10:15 - 10:40</b>	<i>Multiphoton imaging of wounds</i>	<b>M. Kaatz</b>
<b>10:40 - 11:05</b>	<i>Intravital imaging of airway by multiphoton and microscopic optical coherence tomography</i>	<b>G. Hüttmann</b>
<b>11:05 - 11:30</b>	<i>Metabolic state and microviscosity of cancer cells as indicators of response to chemotherapy</i>	<b>M. Shirmanova</b>
<b>11:30 - 11:55</b>	<i>Micro-surfaces for live cell and algae observations</i>	<b>A. Chorvatova</b>
<b>12:00 - 12:30</b>	<b>Lunch</b>	
<i>Biomedical applications II</i>		
<b>12:30 - 12:55</b>	<i>Retinal autofluorescence for ophthalmic diagnostic – what can we learn from in-vivo and in-vitro FLIM?</i>	<b>M. Hammer</b>
<b>12:55 - 13:20</b>	<i>Clinical FLIO</i>	<b>Y. Miura</b>
<b>13:20 - 13:45</b>	<i>FLIM of cross-linked corneas</i>	<b>A. Batista</b>
<b>13:45 - 14:10</b>	<i>In vivo three-photon activity imaging in mouse brain</i>	<b>T. Wang</b>
<b>14:10 - 14:35</b>	<i>In vivo metabolic imaging of mouse tumor models</i>	<b>M. Lukina</b>
<b>14:35 - 15:00</b>	<i>Femtosecond laser flow cytometry</i>	<b>A. Uchugonova</b>
<b>15:00 - 16:00</b>	<i>e-Posters 2 (3 min pitch + 3 min discussion)</i>	
<b>16:00 - 18:00</b>	<i>Hands-on workshop and closing remarks with Cremant: Workstation I: FLIM Microscope Workstation II: Two-photon microscope with ultracompact laser Workstation III: Multiphoton tomograph MPTflex</i>	<b>JenLab GmbH Becker &amp; Hickl GmbH</b>
<b>18:00 - 21:00</b>	<i>Excursion to the historical Supersonic Wind Tunnel on Campus Adlershof and Dinner</i>	