

## Program

# 12<sup>th</sup> Workshop on Advanced Multiphoton and Fluorescence Lifetime Imaging Techniques FLIM 2018

Berlin-Adlershof, Germany

June 15 - 16, 2018

Friday, June 15		
08:30 - 09:00	Registration	
09:00 - 09:10	Opening	Opening remarks K. König
09:10 - 09:30	Overview: State-of-the-art multiphoton tomography and FLIM K. König	
09:30 - 09:50	A new FLIRR technique to investigate the Redox Ratio in liver Cancer cells and tissue A. Periasamy	
09:50 - 10:10	3D FLIM microscopy for photovoltaics B. Ursprung	
10:10 - 10:30	Multiphoton imaging of skin morphology, physiology and transport processes M. Roberts	
10:30 - 11:00	Coffee Break	
11:00 - 11:20	The Multi-Dimensional World of TCSPC FLIM W. Becker	
11:20 - 11:40	Time-resolved fluorescence anisotropy and FLIM of fluorescent molecular rotors in living cells K. Suhling	
11:40 - 12:00	Rapid vertical tissue imaging with clinical multiphoton tomography H.G. Breunig	
12:00 - 12:20	Simultaneous metabolic and oxygen imaging A. Rück	
12:20 - 12:40	Fluorescence time-resolved macroimaging V. Shcheslavskiy	
12:40 - 13:40	Lunch	
13:40 - 14:00	Multimodal optical imaging for regenerative medicine E. Zagaynova	
14:00 - 14:20	Two-photon imaging of skin age A. Schindele	
14:20 - 14:40	Time resolved imaging with stimulated emission in Pump-Probe Microscopy F. Kao	
14:40 - 15:00	Optical clearing as a promising technique for in vivo optical aging and treatment of hidden pathologies V. Tuchin	
15:00 - 15:20	Laser-induced photobleaching of endogenous fluorescence A. Chorvatova	
15:20 - 17:00	Beer, Pretzels & Poster Session (3 min ptch) Hands-on workstation	
17:00 - 21:00	Evening program (guided tour + dinner)	

<b>Saturday, June 16</b>		
<b>09:00 - 09:20</b>	<i>Wide-field nonlinear microscopy</i>	<b>P. So</b>
<b>09:20 - 09:40</b>	<i>Metabolic characterization and particle tracking by clinical multiphoton tomography</i>	<b>V. Huck</b>
<b>09:40 - 10:00</b>	<i>Multiphoton FLIM imaging of cellular metabolic activity in reconstructed human skin in response to UVA</i>	<b>A-M. Pena</b>
<b>10:00 - 10:20</b>	<i>MPT in mucous membranes</i>	<b>M. Kaatz</b>
<b>10:20 - 10:40</b>	<i>MPT CARS</i>	<b>M. Weinigel</b>
<b>10:40 - 11:00</b>	<b>Coffee break</b>	
<b>11:00 - 11:20</b>	<i>Effect of single layers in fluorescence lifetime imaging ophthalmology FLIO</i>	<b>D. Schweitzer</b>
<b>11:20 - 11:40</b>	<i>Evaluation of mitochondrial function of the retinal tissue with FLIO</i>	<b>Y. Miura</b>
<b>11:40 - 12:00</b>	<i>Two-photon cornea imaging</i>	<b>A. Batista</b>
<b>12:00 - 12:20</b>	<i>Quantitative Ultrafast FLIM and lifetime based multi-species analysis</i>	<b>B. Kraemer</b>
<b>12:20 - 12:40</b>	<i>Leica SP8 FALCON: A revolution in FLIM imaging</i>	<b>G. Ossato</b>
<b>12:40 - 12:55</b>	<i>Two-Photon Excitation Microscopy using fs Fiber Lasers</i>	<b>M. Choi</b>
<b>12:55 - 13:15</b>	<i>Femtosecond laser microscopy of stem cells</i>	<b>A. König</b>
<b>13:15 - 14:00</b>	<b>Lunch break</b>	
<b>14:00 - 16:00</b>	<i>Hands-on workshop and closing remarks</i>	<b>K. König</b>