Wednesday, September 29

11:00 - 12:45

REGISTRATION

12:45 - 13:00	Rainer Erdmann, Berlin, Germany Opening Remarks		
Session: Super-resolution microscopy 1 Chair: Rainer Erdmann			
13:00 - 13:30	Philip Tinnefeld , Munich, Germany (In Single-molecule biophysics and superre Transfer	,	vith Graphene Energy
13:30 - 13:50	Oleksii Nevskyi, Göttingen, Germany Confocal fluorescence-lifetime single-molecule localization microscopy for multiplexing and environment sensing		
13:50 - 14:10	N.T.M. van der Voort, Düsseldorf, Germany (Student Award) FRET-nanoscopy: a correlative approach with Ångström resolution.		
14:10 - 14:30	Jan Christoph Thiele, Göttingen, Germany MIET-STORM: dual-colour, isotropic 3D-super-resolution by lifetime- resolved SMLM with Metal-Induced Energy Transfer		
14:30 - 14:50	Jonas Zähringer, München, Germany (Student Award) Exploiting Fluorescence Lifetime in Pulsed Interleaved MINFLUX		
14:50 - 15:10	Nazar Oleksiievets, Göttingen, Germany Fluorescence Lifetime DNA-PAINT for Multiplexed Imaging of Cells		
15:10 - 15:45	COFFEE BREAK and PRODUCT EXHIBITION		
Session: FRET & F	LIM	Chair: Ph	nilip Tinnefeld
15:45 - 16:15	Eitan Lerner , Jerusalem, Israel (Invited Talk) The structure-function relationship of an unstructured protein: the α -synuclein case		
16:15 - 16:35	Monique Honsa, Munich, Germany (St The dynamic force awakens in the DNA		,
16:35 - 16:55	Julian Folz, Düsseldorf, Germany (Stud FRET measurements resolving structur various biomolecules		,

16:55 - 17:15	Richard Börner, Mittweida, Germany FRET-assisted structural modeling of RNA ensembles
17:15 - 17:35	Ivan Maslov, Dolgoprudny, Russian Federation (Student Award) Single-molecule FRET measurements of the conformational dynamics in adenosine receptor A2A
17:35	VOTING STUDENT AWARD
17:35 - 18:50	POSTER SESSION (odd numbered posters) with COFFEE & COOKIES and PRODUCT EXHIBITION
19:30 - 22:00	WELCOME RECEPTION

Thursday, September 30

08:30 - 09:00 DAILY REGISTRATION

Session: Biological	Applications 1	Chair: Christian Eggeling	
09:00 - 09:35	Nynke Dekker, Delft, Netherlands (Invited Talk, virtual) Adventures in DNA replication using single-molecule biophysics		
09:35 - 09:55	Christian Franke , Jena, Germany Endosomal escape of delivered mRNA to visualized at the nanoscale by multi-colo	, ,	
09:55 - 10:15	Lennart Grabenhorst , München, Germ A DNA origami based scaffold as model binding and biosensing	,	
10:15 - 10:35	Derya Emin , Cambridge, United Kingdo Studying soluble aggregates extracted f single-molecule imaging techniques rev Parkinson's patients and healthy control	rom post-mortem brain tissue using eal structural differences between	
10:35 - 11:10	COFFEE BREAK and PRODUCT EXHI	BITION	

Session: Super-res	colution microscopy 2	Chair: Felix Koberling	
11:10 - 11:40	Gail McConnell, Glasgow, United Kingdom (Invited Talk, virtual) Mesoscopic optical imaging with the Mesolens		
11:40 - 12:10	Christian Eggeling, Jena, Germany (Invited Talk) Cytosolic super-resolution STED-FCS - aberration correction and applications		
12:10 - 12:30	Maria Loidolt-Krüger, Berlin, Germany Triple-Color STED Nanoscopy: Sampling Absorption Spectra Differences for Efficient Linear Species Unmixing		
12:30 - 12:50	Michael Scheckenbach , München, Germany (Student Award) Self-Regeneration and Self-Healing in DNA Origami brightness reference structures and super-resolution nanorulers		
12:50 - 13:00	GROUP PICTURE		
13:00 - 14:10	LUNCH BREAK		
Session: Super-resolution microscopy 3 Chair: Eitan Lerner			
14:10 - 14:40	Jennifer Lippincott-Schwartz, Ashbur virtual) Emerging imaging technologies to study function	•	
14:40 - 15:00	Gregor J. Gentsch, Jena, Germany (Student Award) Nanotexture enabled multiplexing of monochromatic SMLM		
15:00 - 15:20	Anežka Vacková, Praha, Czech Republic (Student Award) Spatiotemporal effect of incorporated NPs on radiation-induced DSB damage and repair kinetics		
15:20 - 15:40	Anoushka Handa, Cambridge, United and 3D Super-Resolution Imaging of Mouse Postsynaptic Density Protein Distribution	Hippocampus Reveals	
15:40 - 16:00	Yu P. Zhang , Cambridge, United Kingdo Characterisation of Alpha-synuclein and Parkinson's patients and healthy contro	Abeta protein aggregates from	
16:00 - 16:35	COFFEE BREAK and PRODUCT EXHI	BITION	

Session: Biologica	Applications 2	Chair: tba
16:35 - 16:55	Andres Manuel Vera, München, Germ smFRET and the cohesin-dockerin inte regulation by isomerization of a single p	raction: binding heterogeneity and
16:55 - 17:15	Prithu Roy , Marseille, France (Student Label-Free study of Single-Proteins usi Antennas	*
17:15 - 17:35	Kay-Eberhard Gottschalk, Ulm, Germ Super-Resolution Imaging of the Third: Transfer reveals effect of Force on the	Dimension: Metal-Induced Energy
17:35	VOTING STUDENT AWARD	
17:35 - 18:50	POSTER SESSION (even numbered pand PRODUCT EXHIBITION	osters) with BEER & PRETZELS

Friday, October 1		
08:30 - 09:00	DAILY REGISTRATION	
Session: Sensors a	and Labels	Chair: Philip Tinnefeld
9:00 - 09:35	Petra Schwille , Martinsried, Germany (Quantitative fluorescence microscopy b generation tools for FCS and single par	elow the diffraction limit. Next
09:35 - 09:55	Viktorija Glembockyte, Munich, Germa Addressable Nanoantennas with Cleare Detection on the Smartphone Camera	-
09:55 - 10:15	Julian Bauer , Munich, Germany (Stude Detection and characterization of single PAINT kinetics	,
10:15 - 10:35	Jonas Schütte, Münster, Germany (Stu Broadband Superconducting Single-Pho Imaging	,
10:35 - 11:10	COFFEE BREAK and PRODUCT EXHI	BITION

Session: Correlatio	n Methods	Chair: Th	norben Cordes
11:10 - 11:30	Tim Schröder , Munich, Germany Microtime gating for fluorescence correlation spectroscopy yields equilibrium constants and distinguishes photophysics from structural dynamics		
11:30 - 11:50	Eli Slenders, Genova, Italy Fluorescence lifetime fluctuation spectroscopy with a SPAD array detector		
11:50 - 12:10	Mark Nüesch , Zurich, Switzerland (Student Award) Enhancing the single molecule detection of ultrafast biomolecular dynamics with nanophotonics		
12:10 - 12:30	Xiongfei Luo, Krefeld, Germany (Student Award) Sustainable Carbon Nanodots: New interesting emissive materials for several applications		
12:30 - 12:50	Alessandro Rossetta, Genova, Italy (Student Award) The Brighteyes-TTM: An Open-Source Time-Tagging Module For Single-Photon Microscopy Applications		
12:50	VOTING STUDENT AWARD		
Session: Labels & Material Sciences Chair: Rainer Erdmann			
14:00 - 14:30	- 14:30		
14:30 - 14:50	Thorben Cordes , <i>Planegg</i> , <i>Germany</i> Self-healing organic fluorophores – keeping the promise?		
14:50 - 15:10	Dominik Wöll , Aachen, Germany Super-resolution fluorescence imaging in microgels and polymer systems		
15:10 - 15:30	Francesco Reina, Jena, Germany Accurate and Comparative Analysis Methods for Single Molecule Diffusion Measurements on Lipid Membranes		
15:30 - 15:40	STUDENT AWARD CEREMONY		

15:40

END OF WORKSHOP