CEF-FIAS Symposium Programme 2019



Saturday 26 October 2019

Venue: FIAS, Routh-Moufang-Str. I, Riedberg Campus, Frankfurt/Main

9:00	Introduction and welcome
	Enrico Schleiff
	BMLS and Institute of Molecular Biosciences, Goethe University

- 9:10 **Regulating nucleic acids in time and space** Alexander Heckel Institute of Organic Chemistry and Chemical Biology, Goethe University
- 9:30 Molecular simulation of membrane sensing and remodeling Gerhard Hummer Department of Theoretical Biophysics, Max-Planck-Institute of Biophysics
- 9:50 Agent-based models for collective cell migration in development and disease Franziska Matthäus FIAS and Faculty of Biological Sciences, Goethe University
- 10:10 Quantitative description of the induction of apoptosis in oocytes following the treatment with irradiation and chemotherapeutics Marcel Tuppi, Volker Dötsch (BMLS and Institute of Biophysical Chemistry) and Enrico Schleiff (BMLS and Institute of Molecular Biosciences) Goethe University
- 10:30 **Membrane organization of the MHC-I peptide loading and quality control complexes** Robert Tampé, Ralph Wieneke (Institute of Biochemistry) and Mike Heilemann (Institute of Physical and Theoretical Chemistry) Goethe University
- 10:50 Coffee break
- 11:20 Quantitative analysis of phosphorylation and RNA binding state of SR proteins with native mass spectrometry Michaela Müller-McNicoll (Institute for Cell Biology and Neuroscience), Nina Morgner (Institute of Physical and Theoretical Chemistry) and Stefan Knapp (BMLS and Institute of Pharmaceutical Chemistry) Goethe University
- 11:40 Quantitative characterization of serosa window closure in Tribolium castaneum Frederic Strobl and Ernst Stelzer
 BMLS and Institute of Cell Biology and Neuroscience, Goethe University
- 12:00 **Studies of adhesion using cryo-electron tomography** Achilleas Frangakis BMLS and Institute for Biophysics, Goethe University
- 12:20 **Roles and regulation of cortical flow in cell division and patterning** Christian Pohl BMLS and Institute of Biochemistry II, Goethe University



14:00	Potassium transporters and channels in bacterial survival Inga Hänelt Institute of Biochemistry, Goethe University	Cluster o Frankfur
14:20	Molecular insights into the sensing mechanism of the Stressosome complex Christine Ziegler Institute of Biophysics and Physical Biochemistry, University of Regensburg	C
14:40	ATP synthase and cristae biogenesis Karen Davies Lawrence Berkeley National Lab, Berkeley, USA	
15:00	Optogenetic analysis of cell physiology and neural circuit function Alexander Gottschalk BMLS and Institute of Biophysical Chemistry, Goethe University	
15:20	Structures of rotary ATPases from bacteria, chloroplasts and mitochondria their role in human health Thomas Meier Centre for Structural Biology, Imperial College, London, UK	and
15:40	Coffee break	
16:10	Antibiotic Resistance: Mechanistic insights into efflux pumps Martin Pos Institute of Biochemistry, Goethe University	
16:30	Addressing dynamics: conformational trapping of solute carriers Eric Geertsma Institute of Biochemistry, Goethe University	
16:50	Regulation of lipid saturation without sensing membrane fluidity Robert Ernst Center for Molecular Signaling, Saarland University	
17:10	Proteostasis modulation by cellular stress responses Christian Münch Institute of Biochemistry II, Goethe University	
17:30	Closing remarks Volker Dötsch BMLS and Institute of Biophysical Chemistry, Goethe University	

Contact: CEF Office, tanja.schuler@bmls.de, 069 798-42504, www.cef-mc.de