## **MBExC Symposium**



## From atoms to tissues. Electron microscopy within the Göttingen "Multiscale Bioimaging" Cluster of Excellence

Thursday, September 23rd 2021, 9 am - 5 pm

ZOOM link: https://bit.ly/3eJcjOt

09:00	Welcome by Rubén Fernández-Busnadiego, Patrick Cramer, Metin Tolan, Wolfgang Brück
	Session 1: From atoms to molecules
	Chair: Rubén Fernández-Busnadiego
09:15	Claus Ropers (University of Goettingen, Max Planck Institute for Biophysical Chemistry) "The Göttingen Ultrafast Transmission Electron Microscope"
09:45	Holger Stark (Max Planck Institute for Biophysical Chemistry) <b>"tba"</b>
10:15	Coffee Break
10:30	Patrick Cramer (Max Planck Institute for Biophysical Chemistry) "Cryo-EM reveals how genes are controlled"
11:00	Eri Sakata (University Medical Center Goettingen) "Structural dynamics of the 26S proteasome"
11:30	Hauke Hillen (University Medical Center Goettingen, Max Planck Institute for Biophysical Chemistry) "From pathogens to symbionts: Cryo-EM of viral and mitochondrial gene expression machineries"
12:00	Lunch Break
	Session 2: From molecules to tissues
	Chair: Hauke Hillen
13:00	Rubén Fernández-Busnadiego (University Medical Center Goettingen) "Unravelling the structure of toxic protein aggregates in situ"
13:30	Carolin Wichmann (University Medical Center Goettingen) "Ribon synapses at work"
14:00	Wiebke Möbius (Max Planck Institute of Experimental Medicine) "What we can learn from cellular volume imaging by focussed ion beam-scanning EM (FIB-SEM)"
14:30	Coffee Break
14:45	Ben Cooper (Max Planck Institute of Experimental Medicine) "Freeze-frame shots of synapses in action: Correlating presynaptic ultrastructure and function at the nanoscale"
	<b>Guest speaker</b> Chair: Rubén Fernández-Busnadiego
15:15	Jürgen Plitzko (Max Planck Institute of Biochemistry, Martinsried) "Advances in cryo-electron tomography for in situ structural biology of cells and tissues"







