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)
“Atomic resolution structure determination by cryo-EM: Where are the limits?”

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)
“Ribbon 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”

**Guest speaker**
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”