

3D ELECTRON MICROSCOPY MEETING IN HAMBURG ON APRIL 3, 2020

NEW INSIGHTS FROM 3D ELECTRON MICROSCOPY

DOES IT CHANGE THE CELL BIOLOGY TEXTBOOKS?

SCIENTIFIC PROGRAM

- 9:00 Michaela Schweizer
Welcome
- 9:10 Kay Grünewald, CSSB Hamburg
Landscape of electron microscopic methods for biological samples
Pros and cons of cryo conditions
- 10:00 Rudolph Reimer, HPI Hamburg
A good sample preparation is half of the battle won
- 10:30 Frederic Leroux, Leica Microsystems Diegem
Current vitrification and screening strategies for Cryo-EM
- 11:00 Rainer Kaufmann, CSSB Hamburg
Super-resolution CLEM: from ambient temperatures to cryo-conditions
- 11:25 Emine Korkmaz, Thermo Fisher Scientific
New approaches for Large Volume Analysis
- 11:50 Michaela Schweizer, ZMNH Hamburg
Proven TEM methods in Neuroscience
Investigating dendritic spines and their synapses
- 12:20 LUNCH BREAK
- 13:30 Alex Rigort, MPI Martinsried
How cryo-FiB sample preparation for cryo-tomography works
- 14: 05 KEYNOTE LECTURE
Ruben Fernandez Busnadiego, Uni Göttingen
Unraveling the structure of toxic protein aggregates in situ by cryo-electron tomography
- 14:40 PANEL DISCUSSION
Questions from the audience and their scientific field will be discussed among all speakers reflecting on the pros and cons of the various methods and feasibilities of different approaches.
- 15:15 VISIT THE EM FACILITIES AT HPI AND/OR ZMNH
- 16:00 DEPARTURE FOR THE TOUR AT CSSB

VENUE: ERIKA-HAUS ON UKE CAMPUS, MARTINISTR. 52, HAMBURG