

Celebrating 10 Years of NCoE in AMBIO

November 19th 2025

Charité Campus Mitte, Virchowweg 6, CharitéCrossOver, Auditorium

9.00 Welcome

9.20 **Ralf Jungmann** (MPI Biochem, Munich) "From DNA nanotechnology to biomedical insight: Towards single-molecule spatial omics"

10.00 **Marina Mikhaylova** (HU, Berlin)

10.20 **Kai Murk** (Charité, Berlin)

10.40 Coffee break

11.00 **Jost Enninga** (Institut Pasteur, Paris) "Correlative cryo CLEM workflows decipher the intracellular lifestyles of human pathogens"

11.40 **Nadja Hümpfer** (FU, Berlin)

12.00 **Oliver Rocks** (Charité, Berlin)

12.20 **Niklas Senghaas** (Nikon)

12.40 Lunch break

13.30 **Jan Schmoranzner** (Charité, Berlin) "AMBIO - the next 10 years"

13.40 **Bettina Weigelin** (ISCT, Uni-Tübingen) "Multiscale microscopy for understanding systemic immune response against metastatic cancer"

14.20 **Friedrich Johenning** (Charité, Berlin)

14.40 **Felix Heyman** (Charité, Berlin)

15.00 Coffee break with expert tables

15.40 **Dragomir Milovanovic** (Charité/DZNE, Berlin)

16.00 **Susanne Wegmann** (Charité/DZNE, Berlin)

16.20 **Abin Biswas** (MPIIB, Berlin)

16.40 **Concluding remarks** (winner image contest) and **get-together** (beer & snacks)

For free registration click [here](#) or scan code

For more details see second page



Short talks

Marina Mikhaylova (HU, Berlin) "Illuminating neuronal polarity: Microscopic insights into the cell biology of AcD neurons"

Kai Murk (Charité, Berlin) "Actin sorts it out: Cytoskeleton-assisted membrane trafficking controls neuroprotection and blood-brain-barrier integrity"

Nadja Hümpfer (FU, Berlin) "Multiscale modelling of mammalian cytokinesis by combined lattice light-sheet and expansion microscopy"

Oliver Rocks (Charité, Berlin) "Microscopic analysis of lipid unmixing and segregation of ER-shaping proteins driving the formation of giant membrane rods"

Niklas Senghaas (Nikon)

Friedrich Johenning (Charité, Berlin) "Feeding-induced olfactory cortex suppression reduces satiation"

Felix Heyman (Charité, Berlin) "Macrophage / neutrophil crosstalk - driver of liver hyper immunity"

Dragomir Milovanovic (Charité/DZNE, Berlin) "Imaging at the interface between condensates and membrane-bound organelles"

Susanne Wegmann (Charité/DZNE, Berlin) "Microscopical delineation of Tau Protein assembly forms and their function"

Abin Biswas (MPIIB, Berlin) "Conserved nucleocytoplasmic density ratios drive cellular organization across eukaryotes"

Expert tables during coffee break (15.00)

Super-resolution (SMLM, STED, ExM): Jan Schmoranzer, Ralf Jungmann, Marina Mikhaylova & Nadja Hümpfer

3D tissue imaging (light sheet, multi photon, tissue clearing): Stefan Donat, Bettina Weigelin, Friedrich Johenning & Felix Heyman

Cellular dynamics (high-res time lapse, FLIM-FRET, FRAP): Jutta Schüler, Oliver Rocks, Dragomir Milovanovic & Kai Murk

Image analysis (commercial & open source): Niclas Gimber

Nikon (automation, NIS-Elements JOBS & GA3): Niklas Senghaas, Dirk Scholz