••• Max Planck Biolmaging

General Assembly

Max Planck Institute for Multidisciplinary Sciences (MPI-NAT) 22 - 24 October 2024

October 22

Venue: MPI-NAT City Campus, Hermann-Rein-Straße 3, 37075 Göttingen

- 11:00 Arrival and Registration
- 12:00 Lunch
- 13:00 Welcome
- 13:15 Artificial intelligence for microscopy building image analysis foundation models *Prof. Constantin Pape*
- 14:00 Flamingo: Tailored light sheet microscopy for live and cleared tissue imaging Dr. Mostafa Aakhte
- 14:30 Evolved into a transporter: How the HIV capsid delivers a (viral) genome into the nucleus *Dr. Liran Fu*

15:00 Coffee break

- 15:30 Deciphering the role of Ferlins in membrane docking and fusion using cryo-EM and cryo-ET Dr. Julia Preobraschenski
- 16:00 Transient states and molecular pathways by cryo EM Dr. Niels Fisher
- 16:30 Comprehensive characterization of tumor tissue by correlative multimodal 3D imaging *Prof. Frauke Alves*
- 17:00 Tour: Imaging facilities City Campus
- 18:00 Why MINFLUX changes the localization game *Prof. Stefan Hell*
- 19:30 Dinner at Amavi pure
- 20:15 Post-dinner discussions: Future development of MaxBI
- 22:00 End

October 23

Venue: MPI-NAT Fassberg Campus, Am Fassberg 11, 37077 Göttingen

- 9:00 Labeling biomolecules for live-cell nanoscopy: molecular mechanisms behind beautiful pictures *Dr. Ruta Gerasimaite*
- 9:30 Visualizing the oocyte cytoplasm to understand maternal protein inheritance *Dr. Ida Jentoft*

10:00 Break & transfer to Zeiss

10:30 Tours: Imaging Facilities Fassberg Campus / Zeiss objective manufacture

12:00 Lunch

- 13:00 Unlocking Bioscience Breakthroughs: Where HPC and AI Converge Prof. Julian Kunkel
- 13:45 Coffee break

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- 14:30 Welcome note by spokesperson Wiebke Möbius
- 14:45 Reports of the workgroups and discussion
- 16:00 "Career paths" survey status
- 16:30 Elections
- 17:30 End of the meeting

October 24: Satellite Workshop at Abberior

Venue: Abberior, Hans-Adolf-Krebs-Weg 6, 37077 Göttingen

and MINFLUX).

Morning session: Discussion about super-resolution applications in the facility context (limitations, accessibility, protocols)
Afternoon session: Hands-on sessions using different imaging modalities (STED large tissue imaging, STED multi-color imaging,