

Cryo EM user forum 2020

Program

1.9.

8:45 meeting room will be open

9:00 Pre-course (Elmar)

- SPA workflow overview, which concepts pop up where?

10:00 – 12:00 Who am I and project/group presentations (all)

Monika Gunkel (Biochemistry, Cryo-EM facility) 5 min.

Elmar Behrmann (Biochemistry, Structural dynamics of proteins) 20 min.

- Gayathri Jeyasankar
- Christoph Klatt
- Anthony Chen

Astrid Schauss, Felix Babaz (CECAD, Imaging facility) 10 min.

Stefan Roitsch (Chemistry department, EM facility) 5 min.

Simon Pöpsel (ZMMK, Structure and Biochemistry of Epigenetic Regulators) 20 min.

- Egor Pavlenko
- Linda Zirden
- Christian Sommereisen

Lunch break

13:00 Who am I and project presentations (all)

Ana Garcia Saes (Institute for genetics, Membrane Biophysics) 10 min.

- Raed Shalaby

Jan Jierschitzka (MPI for plant breeding research, Structural Biology) 25 min.

- Dongli Yu
- Hanna Bernardy
- Alexander Förderer
- Huanhuan Sun

Nele Burdina, Arthur Macha (Biochemistry, AG Schwarz, Neuroreceptors) 10 min.

14:00 Apols, Nano disks, SMAs and co. (Christoph)

- Which system for which protein?
- How do they look like in the EM?

2.9.

9:00 Presets for cryo samples (Gayathri)

- protein concentration, purity, salt concentration, buffer composition, additives...

10:00 Bring your own pictures session (all, Elmar)

- Evaluate your image

- Protein concentration, protein “happiness”, staining quality, ice quality
- Filtering images

Lunch break

13:00 Grid types and support films (Simon)

- Which grids and surfaces are available?
- What do I use for which purpose?

14:00 Open Questions session