

4th Cryo-EM User Forum

Program

Registration deadline: 12.09.

For registration: send an email to strubitem-contact@uni-koeln.de with the header "cryo-EM user forum 2022"

Location: Biochemistry Institute, Zùlpicher Str. 47, 50674 Cologne
Seminar Room 493, 4th floor

17.10. 1st Day

9:00 **Welcome**

9:15-9:45 **Introduction Round**

Introduce yourself with a picture of your most important lab instrument.

9:45-10:00 **Coffee Break**

10:00 – 12:00 **StruBiTEM** (Monika Gunkel, Elmar Behrmann)

- Report about the status of StruBiTEM
- Presentation of data pipelines
- Discussion and voting about a Win10 Upgrade
- IT-support platform - Slack
- Research data management

12:00-13:00 **Lunch Break**

13:00-14:00 **Cryo-EM Project Talk**

Inga Hochheiser and Matthias Geyer (Institute of Structural Biology at the University Bonn) will talk about NALPs and how they could tackle them with cryo-EM.

14:00-14:30 **Coffee break**

14:30-16:00 **Poster Session**

16:00 **Come Together**

We will reserve a table at a nearby restaurant

18.10. 2nd Day

9:00-10:00 **Data Acquisition** (Monika Gunkel, Elmar Behrmann)

- What are the different options to acquire data at the Krios: phase plate, linear and counting mode, objective aperture and how do they influence the data
- Which data acquisition mode is most suited for which type of sample
- Integration of cryoSPARC live into data acquisition

10:00-10:30 **Coffee Break**

10:30-11:00 **Out of the Box**

The group of Prof. Uwe Ruschewitz (Anorganic Chemistry, University of Cologne) will present a project about MoFs. A project, that does not hit the core business of the facility.

11:00-12:00 **Feedback Round**

Plenum discussion about the user's experiences with the facility

- Future requirements
- Suggestion round

12:00-13:00 **Lunch Break**

13:00-14:00 **Cryo-EM Project Talk**

Patricia Brown (Biochemistry, University of Cologne) will share former and new experiences with Cryo-EM projects with us.

14:00-open **Opportunity for informal discussions**