



Thursday, May 7, 2026

Freie Universität Berlin

"SupraFAB" Meeting Point Level 2, Room 201

Altensteinstr. 23a, 14195 Berlin

BUA ACEM Core Facility Presentation 2026: BUA Alliance Centers and Core Facilities – Electron Microscopy and Beyond

Program

14:00 **Welcome and Introduction**
Dr. Kai Ludwig, FU Berlin

Projects from Seed Funding Call by Early Career Researchers

14:15 **Structural Insights into the Unique Chloroplast Transcription System of Red Algae**
Dr. Nelly Said, FU Berlin

14:30 **Micro-Mechanical Experiments on Additively Manufactured Al-Alloys to Reveal the Effect of Heterogeneities on Mechanical Properties**
Dr. Soudip Basu, TU Berlin

14:45 **Super-Resolution Cryo-Electron Tomography of Circular Extrachromosomal DNA**
Dr. Maria Stefanova, Charité

Looking beyond the (Electron Microscopy) Horizon

15:00 **Studying the Ultrastructural Organization of Cells, Tissues, and Organisms with Cryo-Soft X-Ray Tomography**
Dr. Michael Dyhr, HZB (X-Ray Microscopy)

15:30 **High-Throughput Proteomics for Basic Biology and Medical Research**
Prof. Dr. Markus Ralser, Charité (BUA Core Facility Proteomics)

16:00 *Break (30 Min)*

Projects from Seed Funding Call by Early Career Researchers

16:30 **Critical Metal Incorporation into Hydrothermal Sulfides: Ore Deposits, Experiments, and High-Resolution Analytics**
Dr. Jan Falkenberg, TU Berlin

- 16:45 **Super-Resolution Scanning Transmission Electron Microscopy
with Accessible Hardware**
Anton Gladyshev, HU Berlin
- 17:00 **Visualizing Ribosome Production in Human Cells**
Dr. Sameer Singh, Charité
- 17:15 **Closing Remarks**
Dr. Kai Ludwig, FU Berlin
- 17:25 **Get together until 7 p.m.**