

Symposium on Cellular Biophysics

September 2024

Program

Monday, September 16, 2024

- 11:45 am – 12:45 am **TBA**
Volker Dötsch
Institute of Biophysical Chemistry, Goethe University Frankfurt
-
- 1:45 pm – 2:30 pm **TBA**
Clemens Glaubitz
Institute of Biochemistry, Goethe University Frankfurt
-
- 2:45 pm – 3:45 pm **A Primer on Machine Learning**
Roberto Covino
Frankfurt Institute of Advanced Studies (FIAS), Frankfurt am Main
-
- 4:00 pm – 5:00 pm **TBA**
Edward Lemke
Institute of Molecular Biology, Johannes Gutenberg University Mainz
-
- 5:00 pm – 6:00 pm **Mitochondrial Protein Quality Control**
Christian Münch
Institute of Biochemistry II, Goethe University Frankfurt am Main
-

Tuesday, September 17, 2024

- 8:30 am – 9:30 am **Optical Super-Resolution Microscopy for Structural Cell Biology**
Mike Heilemann
Institute of Physical and Theoretical Chemistry, Goethe University Frankfurt
-
- 9:30 am – 10:30 pm **Electron Microscopy Applications, Methods and Examples**
Sonja Welsch
Max Planck Institute of Biophysics, Frankfurt
-
- 10:45 am – 11:45 am **Electron Microscopy Concepts and Limitations**
Bonnie Murphy
Max Planck Institute of Biophysics, Frankfurt
-
- 11:45 am – 12:45 am **TBA**
Eric Helfrich
Institute of Molecular Bioscience, Goethe University Frankfurt
-
- 2:45 pm – 3:45 pm **Unraveling the Role of Efflux Pumps in Antibiotic Resistance and Strategies To Overcome Them**
Martin Pos
Institute of Biochemistry, Goethe University Frankfurt
-
- 4:30 pm – 5:30 pm **Understanding Mechanism Through Structure: The Redox and Metalloproteins Group**
Bonnie Murphy
Max Planck Institute of Biophysics, Frankfurt
-

Program

Wednesday, September 18, 2024

9:30 am – 10:30 am **Understanding Cargo Packing and Recognition During Autophagy**
Florian Wilfling
Max Planck Institute of Biophysics, Frankfurt

10:45 am – 11:45 am **Neurovascular Interactions During CNS Development**
Marta Segarra
Institute of Cell Biology & Neuroscience, Goethe University Frankfurt

11:45 am – 12:45 pm **Advanced Light Microscopy To Study Dynamic Processes in Membranes**
Ana Garcia-Saez
Max Planck Institute of Biophysics, Frankfurt

1:45 pm – 2:30 pm **TBA**
Beata Turoňová
Max Planck Institute of Biophysics, Frankfurt

2:45 pm – 3:45 pm **ER Remodeling**
Ivan Đikić
Institute of Biochemistry II, Goethe University Frankfurt

Thursday, September 19, 2024

9:30 am – 10:30 pm **Molecular Mechanism of Regulated Necrosis**
Uris Ros
Max Planck Institute of Biophysics, Frankfurt

10:45 am – 11:45 am **Nuclear Transport Defects and Aberrant Phase Transitions in Neurodegenerative Diseases**
Dorothee Dormann
Institute of Molecular Biology, Johannes Gutenberg University Mainz

1:45 pm – 2:30 pm **Mass Spectrometry: From Small Membrane Proteins to Tissue Proteomics**
Julian Langer
Max Planck Institute of Biophysics, Frankfurt

2:45 pm – 3:45 pm **Understanding Gene Expression in Space and Time**
Michaela Müller-McNicoll
Institute for Molecular Bio Science, Goethe University Frankfurt

4:00 pm – 5:00 pm **Developmental Control of Nuclear Pore Complex Assembly**
Bernhard Hampölz
Max Planck Institute of Biophysics, Frankfurt

5:00 pm – 6:00 pm **Learning From Molecular Simulations**
Gerhard Hummer
Max Planck Institute of Biophysics, Frankfurt

Program

Friday, September 20, 2024

9:30 am – 10:30 am **Simulation-Based Inference in Molecular Biology –
From Ensemble Refinement To Force Field Refinement**
Jürgen Köfinger
Max Planck Institute of Biophysics, Frankfurt

10:45 am – 11:45 am **High-Throughput Structural Studies
Revealing Dynamic Features of Signaling Molecules**
Stefan Knapp
Buchmann Institute for Molecular Life Sciences and Institute of
Pharmaceutical Chemistry, Goethe University Frankfurt

11:45 am – 12:45 pm **TBA**
Alexandra Stolz
Institute of Biochemistry II, Goethe University Frankfurt
