

SYMPOSIUM ON CELLULAR BIOPHYSICS

OCTOBER 2021

Organized by the International Max Planck Research School (IMPRS) on Cellular Biophysics in cooperation with the Max Planck Institute of Biophysics, the Goethe University Frankfurt and the Johannes Gutenberg University Mainz

Participation via **Zoom**: **Meeting ID:** 944 5900 7369
 Passcode: 174661

<https://biophys.zoom.us/j/94459007369?pwd=ZW1xck1GVVBINHAwbEI2ODIwa204Zz09>

Please keep your microphones muted during all sessions and use the chat to ask questions.
Thank you!

Monday, October 4, 2021

9.30 am -10.30 am	Mechanisms of Genetic Quality Control in Oocytes Prof. Dr. Volker Dötsch <i>Institute of Biophysical Chemistry, Goethe University Frankfurt</i>
10.30 am - 11.00 am	<i>Break</i>
11.00 am - 12.00 am	NMR Spectroscopy: RNAs and Proteins Dr. Andreas Schlundt <i>Institute for Molecular Bio Science, Goethe University Frankfurt</i>
12.00 am - 1.00 pm	Cool Stuff in Small Worms Prof. Dr. Alexander Gottschalk <i>Institute of Biophysical Chemistry, Goethe University Frankfurt</i>
1.00 pm - 2.00 pm	<i>Break</i>
2.00 pm - 3.00 pm	Endoplasmic Reticulum Remodeling Prof. Dr. Ivan Đikić <i>Institute of Biochemistry II, Goethe University Frankfurt</i>
3.00 pm - 4.00 pm	Pathogen-host Interactions Prof. Dr. Ivan Đikić <i>Institute of Biochemistry II, Goethe University Frankfurt</i>
4.00 pm - 4.15 pm	<i>Break</i>
4.15 pm - 5.15 pm	Visualizing the Neurovascular Interface Dr. Marta Segarra and Johanna Vogenstahl <i>Institute of Cell Biology and Neuroscience, Goethe University Frankfurt</i>
5.15 pm - 6.15 pm	Sticky Spots! Prof. Dr. Achilleas Frangakis <i>Institute of Biophysics, Goethe University Frankfurt</i>

Tuesday, October 5, 2021

8.30 am - 9.30 am	Native Mass Spectrometry Prof. Dr. Nina Morgner <i>Institute of Physical and Theoretical Chemistry, Goethe University Frankfurt</i>
9.30 am - 10.30 am	Mass Spectrometry and Proteomics Dr. Julian Langer <i>Max Planck Institute of Biophysics, Frankfurt</i>
10.30 am - 11.00 am	<i>Break</i>
11.00 am - 12.00 am	Dynamics of Cellular Stress Responses Dr. Christian Münch <i>Institute of Biochemistry II, Goethe University Frankfurt</i>
12.00 am - 1.00 pm	Regulating Gene Expression Across Cellular Compartments Prof. Dr. Michaela Müller-McNicoll <i>Institute for Molecular Bio Science, Goethe University Frankfurt</i>

Wednesday, October 6, 2021

8.30 am - 10.30 am	Membrane Proteins and cryo-Electron Microscopy Prof. Dr. Werner Kühlbrandt <i>Max Planck Institute of Biophysics, Frankfurt</i>
10.30 am - 11.00 am	<i>Break</i>
11.00 am - 12.00 am	Visualizing the Building Blocks of Life Inside Cells Dr. Martin Beck <i>Max Planck Institute of Biophysics, Frankfurt</i>
12.00 am - 1.00 pm	Cryo-Electron Microscopy of Redox- and Metalloproteins Dr. Bonnie Murphy <i>Max Planck Institute of Biophysics, Frankfurt</i>
1.00 pm - 3.00 pm	<i>Break</i>
3.00 pm - 4.00 pm	Selective Autophagy of Macromolecular Machines Dr. Florian Wilfling <i>Max Planck Institute of Biophysics, Frankfurt</i>
4.00 pm - 4.15 pm	<i>Break</i>

Thursday, October 7, 2021

8.30 am - 9.30 am	Membrane Transporters and Channels Prof. Dr. Inga Hänel <i>Institute of Biochemistry, Goethe University Frankfurt</i>
9.30 am - 10.30 am	Structural Plasticity of Protein Kinases Prof. Dr. Stefan Knapp <i>Institute of Pharmaceutical Chemistry, Goethe University Frankfurt</i>
10.30 am - 11.00 am	<i>Break</i>
11.00 am - 12.00 am	Introduction to Machine Learning Dr. Roberto Covino <i>Frankfurt Institute for Advanced Studies</i>
12.00 am - 1.00 pm	Multiscale Simulations of Disordered Biomolecules Dr. Lukas Stelzl <i>Institute of Molecular Biology (IMB), Johannes Gutenberg University Mainz</i>

Friday, October 8, 2021

9.30 am - 10.30 am	Biomolecular Simulations and Modeling Prof. Dr. Gerhard Hummer <i>Max Planck Institute of Biophysics, Frankfurt</i>
10.30 am - 11.00 am	<i>Break</i>
11.00 am - 12.00 am	Membrane Protein Studies by Solid-state NMR Prof. Dr. Clemens Glaubitz <i>Institute of Biophysical Chemistry, Goethe University Frankfurt</i>
12.00 am - 1.00 pm	Cryo-Electron Tomography Dr. Beata Turoňová <i>Max Planck Institute of Biophysics, Frankfurt</i>

Monday, October 11, 2021

12.00 am - 1.00 pm	Basics of Optogenetics Prof. Dr. Alexander Gottschalk <i>Institute of Biophysical Chemistry, Goethe University Frankfurt</i>
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Thursday, October 14, 2021

9.30 am - 10.30 am	Optical Super-resolution Microscopy Prof. Dr. Mike Heilemann <i>Institute of Physical and Theoretical Chemistry, Goethe University Frankfurt</i>
10.30 am - 12.00 am	<i>Break</i>
12.00 am - 1.00 pm	Structure and Dynamics of Genome Organization Dr. Eugene Kim <i>Max Planck Institute of Biophysics, Frankfurt</i>
1.00 pm - 2.00 pm	<i>Break</i>
2.00 pm - 3.00 pm	The Dark Proteome Prof. Dr. Edward A. Lemke <i>Institute of Molecular Biology (IMB), Johannes Gutenberg University Mainz</i>

