

Friday, April 08, 2022 Times given in CEST: Central European Summer Time (UCT+2)	
10:00	Arrival, registration
11:30 - 13:00	Lunch (depending on individual arrival time)
13:00 – 13:05	Welcome Helmut Grubmüller
13:05 – 13:30	Georg Diez Albert Ludwig University of Freiburg, Germany <i>Identifying Collective Motion in Proteins - Divide and Conquer the Feature Space</i>
13:30 – 13:55 online	Hugo McGrath University of Chemistry and Technology, Prague, Czech Republic <i>Peptide Deformylase as a Probe of Long-Range Allostery Through the Ribosomal Protein uL22</i>
13:55 – 14:20	Raphaëlle Versini Sorbonne University, PSL Research University, University of Paris, France <i>Structural Basis of the Transmembrane Domain of the Yeast Mitofusin Fzo1</i>
14:20 – 14:45 online	Maximilian Vossel Max Planck Institute for Multidisciplinary Sciences, Göttingen, Germany <i>Local Mode Softening versus Hardening Underpins Specific Allosteric Responses</i>
14:45 – 15:10	Claudia Leticia Gomez Flores Karlsruhe Institute of Technology, Germany <i>Thiol-Disulfide Exchange Reactions Using an Artificial Neural Network Corrected DFTB/MM Methodology</i>
15:10 – 15:30	Coffee break
15:30 – 15:55 online	Chun Kei Lam Max Planck Institute for Multidisciplinary Sciences, Göttingen, Germany <i>Identification of Gating Sensitive Residues in TREK-2</i>
15:55 – 16:20	Callum Ives University of Dundee, United Kingdom <i>A Cooperative Knock-On Mechanism Underpins Ca²⁺-Selective Cation Permeation in TRPV Channels</i>
16:20 – 16:45 online	Nabanita Mandal National Institute of Technology, Warangal, India <i>Mechanistic Insights into the Differential Dynamics of SARS-CoV-2 Variants of Concern (VOC)</i>
16:45 – 17:10	Terra Sztain Free University Berlin, Germany <i>Weighted Ensemble Simulations of SARS-CoV-2 Glycosylated Spike Opening</i>
17:10 – 17:35	Stefan Schäfer Max-Planck-Institute for Biophysics, Frankfurt/Main, Germany <i>Anchoring of the SARS CoV-2 Fusion Peptide in Host Membranes</i>
17:40 – 18:25	Dinner 1 (45 min)
18:40 – 19:25	Dinner 2 (45 min)
19:30 –	Poster Session on-site and online

Saturday, April 09, 2022 Times given in CEST: Central European Summer Time (UCT+2)	
7:35 – 8:05	Breakfast 1 (30 min)
8:20 – 8:50	Breakfast 2 (30 min)
8:55 – 9:35	Invited speaker Gerhard Hummer Max Planck Institute for Biophysics, Frankfurt/Main, Germany <i>Towards Cell-Scale Molecular Simulations</i>
9:35 – 10:00	Pavel Buslaev University of Jyväskylä, Finland <i>Constant pH MD in GROMACS</i>
10:00 – 10:25	Eliane Briand Max Planck Institute for Multidisciplinary Sciences, Göttingen, Germany <i>Constant pH Molecular Dynamics in GROMACS using Lambda Dynamics and the Fast Multipole Method</i>
10:25 – 10:45	Coffee break
10:45 – 11:10	Aleksander Durumeric Free University Berlin, Germany <i>Towards Quantitatively Accurate Neural Network CG Force-fields</i>
11:10 – 11:35	Hendrik Jung Max Planck Institute for Biophysics, Frankfurt/Main, Germany <i>Artificial Intelligence for Molecular Mechanism Discovery</i>
11:40 – 12:25	Lunch 1 (45 min)
12:40 – 13:25	Lunch 2 (45 min)
13:25 – 13:50	Melanie König University of Groningen, The Netherlands <i>Membrane Curvature Induced Lipid Sorting in Coarse-Grained Simulations</i>
13:50 – 14:15	Xavier Prasanna Anthony Raj University of Helsinki, Finland <i>Mechanistic Insight into Seipin's Activity During Initial Stages of Lipid Droplet Formation</i>
14:15 – 14:40 online	Ebru Çetin Sabanci University, Istanbul, Turkey <i>Manipulation of a Cryptic Site on DHFR to Combat Trimethoprim Resistance in E. coli</i>
14:40 – 15:05	Anna Selina Juber Ruhr University Bochum, Germany <i>Thermodynamic Driving Forces of Guest Confinement in a Photoswitchable Cage</i>
15:05 – 15:25	Coffee break
15:25 – 15:50	Christian Faber Research Center Jülich, Germany <i>A New Measure for Contact Maps</i>
15:50 – 16:15	Batuhan Kav Research Center Jülich, Germany <i>Does the Inclusion of Polarisability Lead to a Better Modelling of Peptide Aggregation?</i>
16:15 – 16:40	Maxim Igaev Max Planck Institute for Multidisciplinary Sciences, Göttingen, Germany <i>Bending-Torsional Elasticity and Energetics of the Plus-End Microtubule Tip</i>
16:40 – 17:05	Jeremy Lapierre Saarland University, Saarbrücken, Germany <i>DNA Opening During Transcription Initiation by RNA Polymerase II in Atomic Detail</i>
17:05 – 17:30	Nicholas Michelarakis Heidelberg Institute for Theoretical Studies, Germany <i>Avidity of the Malaria Adhesin VAR2CSA is Mechano-Controlled by Exposure of a Second Cryptic CSA Sugar Binding Site</i>
17:30 – 17:55	Poster prize, final remarks Volkhard Helms
18:00	Dinner / Departure