

Monday, September 29th 2014

11:00 – 11:10	Welcome – Claudia Steinem
11:10 – 11:55	Tobias Baumgart Curvature coupling of peripheral membrane proteins
11:55 – 12:20	Markus Müller Coarse-grained simulation of changes of membrane topology
12:20 – 12:45	Michael Meinecke Identification of a mitochondrial membrane morphology affecting protein necessary for cristae junction formation
12:45 – 13:45	Lunch
13:45 – 14:30	Bruno Antony Atomic view of the response of phospholipids to membrane curvature and the advantage of polyunsaturated acyl chains for membrane fission
14:30 – 14:55	Claudia Steinem Pore-spanning membranes: Monitoring protein-mediated membrane fusion and fission processes
14:55 – 15:20	Tim Salditt Membrane fusion in model bilayers stacks: in search for the magic mixture
15:20 – 15:45	Andreas Janshoff Interaction forces in membrane fusion - how colloidal beads and coiled coil model peptides can help to quantify them
15:45 – 17:00	Coffee Break and Poster Session
17:00 – 17:45	Daniel Nietlispach Functional studies of 7TM receptors: insight from solution NMR spectroscopy
17:45 – 18:10	Markus Zweckstetter Atomic views of the structure and dynamics of membrane proteins: VDAC and TSPO
18:10 – 18:35	Rasmus Linser Characterization of protein function by proton-detected solid-state NMR spectroscopy
18:40 – 19:00	Cornelia Pfordt Guided tour of the Paulinerkirche
19:00	Conference Dinner – Location: Bullerjahn

Tuesday, September 30th 2014

09:00 – 09:45	Christoph Thiele Click-chemistry based lipid tracing to study lipid metabolism and localisation
09:45 – 10:10	Daniel B. Werz Gb ₃ glycosphingolipids differing in their fatty acid chain: Chemical synthesis and biophysical behavior in solid-supported membranes
10:10 – 10:35	Igor Tkach Distances and orientations in peptides studied with 94 and 263 GHz EPR and PELDOR
10:35 – 11:15	Coffee Break
11:15 – 12:00	Eric Moulines Hidden Markov models and non linear filters: a state of the art and beyond
12:00 – 12:25	Axel Munk Statistical analysis of highly fluctuating signals: from electrophysiology to protein dynamics
12:25 – 12:50	Jörg Enderlein Diffusion in lipid bilayers
12:50 – 14:00	Lunch
14:00 – 14:45	Siewert Jan Marrink Lipid organization of the plasma membrane
14:45 – 15:10	Reinhard Jahn How do SNARE proteins fuse membranes? Concepts, mechanisms, energy barriers
15:10 – 15:35	Gregory Bubnis A helical transport mechanism for type III secretion
15:35 – 16:15	Coffee Break
16:15 – 17:00	Erik Lindahl Tracing the strokes of ion channels with molecular simulations and experiments
17:00 – 17:25	Bert de Groot The molecular dynamics of membrane-protein interactions
17:25 – 17:50	Peter Jomo Walla Nanoscopy of membrane structures and distances
18:00	Poster Session – Alfred-Hessel-Saal – Buffet

Wednesday, October 1th 2014

09:00 – 09:45	Margitta Dathe Antimicrobial peptides: The secrets of the Lord of the Rings
09:45 – 10:10	Jochen Hub Peptide-membrane interactions from potential of mean force calculations
10:15 – 10:45	Coffee Break
10:45 – 11:30	Sandro Keller An unusual membrane-protein topology for sensing bilayer thickness and triggering bacterial biofilm formation
11:30	Departure