

Monday, September 24th 2018

09:30	Departure - Coffee
Session 1	Chairperson: Claudia Steinem
10:00 – 10:10	Welcome – Claudia Steinem
10:10 – 10:55	Leonid Chernomordik Dissecting membrane fusion pathways in viral entry and in development
10:55 – 11:20	Marcus Müller Thermodynamically reversible path of stalk formation
11:20 – 11:45	Gregory Bubnis A stepwise mechanism for membrane poration determined by MD simulations
11:45 – 12:10	Andreas Janshoff Physics of membrane fusion revealed by colloidal probe microscopy lecture
12:10 – 12:35	Claudia Steinem SNARE-mediated single vesicle fusion of chromaffin granules and reconstituted vesicles with pore-spanning membranes
12:40 – 13:45	Lunch break
Session 2	Chairperson: Andreas Janshoff
13:45 – 14:00	Reinhard Jahn Introduction Axel Brunger (Balzan lecture)
14:00 – 14:45	Axel Brunger (Balzan lecture) Molecular mechanisms of neurotransmitter release
14:45 – 15:10	Tim Salditt Membrane docking and fusion studied by x-ray diffraction
15:10 – 15:35	Herre Jelger Risselada Does microscopic membrane fusion benefit from voluminous protein?
15:35 – 16:00	Reinhard Jahn Targeting and fusion mediated by endosomal SNARE proteins
16:00 – 16:30	Coffee break
Session 3	Chairperson: Reinhard Jahn
16:30 – 17:15	Andreas Zumbühl Mechanoresponsive drug delivery
17:15 – 17:40	Daniel B. Werz Synthesis of fluorescent Gb ₃ glycosphingolipids and their phase behavior in giant unilamellar vesicles
17:40 – 18:25	Frauke Gräter Mechano-sensing through and at membranes
18:25 – 18:50	Peter Jomo Walla Docking and membrane distances regulated by Synaptotagmin 1, SNARES and artificial SNARE model peptides
19:00	Poster session (warm buffet)

Tuesday, September 25th 2018

Session 4	Chairperson: Markus Zweckstetter
09:00 – 09:45	Sebastian Hiller Mechanisms in outer membrane protein folding and biogenesis
09:45 – 10:10	Loren Andreas Folded and misfolded proteins in membranes by NMR
10:10 – 10:35	Karin Halbmaier Semi-rigid spin labels and long-range EPR distance measurements reveal the structure of model peptides in lipid bilayers
10:35 – 11:00	Coffee break
Session 5	Chairperson: Marina Bennati
11:00 – 11:45	Antoinette Killian The styrene-maleic acid copolymer: a versatile tool in membrane research
11:45 – 12:10	Ulrike Rost Characterisation and functionalisation of artificial transmembrane β -peptides
12:10 – 12:35	Markus Zweckstetter The mitochondrial translocator protein TSPO
12:35 – 14:00	Lunch break (individual arrangements)
Session 6	Chairperson: Loren Andreas
14:00 – 14:45	Marc D. Binder Cooperative gating of adjacent L-type calcium channels within surface membrane clusters formed by stochastic self-assembly enhances calcium influx
14:45 – 15:10	Bert de Groot The molecular dynamics of potassium channel permeation, selectivity and mechanogating
15:10 – 15:35	Jochen Hub Free-energy calculations of pore formation in lipid membranes reveal determinants for metastable pores
15:35 – 16:00	Florian Pein Statistical analysis of patch clamp recordings
16:00 – 16:30	Coffee break
Session 7	Chairperson: Ingo Mey
16:30 – 17:15	Daniel Fletcher Physical segregation of proteins at cell-cell interfaces
17:15 – 17:40	Thomas Waitz Bridging the gaps between science and society
	Walk to the Historische Sternwarte (Historic Observatory)
ca. 18:00	Guided tour <i>Historische Sternwarte (Historic Observatory)</i> Guest speaker and PIs
19:00	Conference dinner – <i>Restaurant Planea</i> Guest speaker and PIs

Wednesday, September 26th 2018

Session 8	Chairperson: Michael Meinecke
09:00 – 09:45	David Cafiso Protein allostery, transmembrane signaling and energy-coupling between membranes in a bacterial transport family
09:45 – 10:10	Camilo Aponte-Santamaria Temperature dependence of protein-water interactions in a membrane-transport channel
10:15 – 10:45	Coffee break
Session 9	Chairperson: Jochen Hub
10:45 – 11:30	Joseph Lyons Structural and functional studies of lipid flippases
11:30 – 11:55	Michael Meinecke Lipid dependent oligomerization of the ENTH domain drives membrane remodeling during clathrin mediated endocytosis
11:55	Departure