Sunday, March 25, 2018

16:00 - 21:00 Registration

18:00 BUFFET SUPPER

20:00 – 20:10 Sebastian Fiedler Welcome Note

20:10 – 21:10 Lukas K. Tamm **Membrane asymmetry in viral and**

intracellular membrane fusion

21:10 - get together at the posters

Monday, March 26, 2018

12:40

LUNCH

07:30	BREAKFAST	
08:35 -08:40		announcements
08:40 - 09:20	Erwin London	Influence of interleaflet coupling upon ordered domain formation in asymmetric vesicles
09:20 – 10:00	Georg Pabst	Inside asymmetric membranes: Structure and leaflet coupling
10:00 – 10:20	Milka Doktorova	Gramicidin increases lipid flip-flop in symmetric and asymmetric lipid vesicles
10:20 – 10:50	COFFEE BREAK	
10:50 – 12:30	Poster flashes #1-40 & poster session	
12:30 – 12:40	Conference Photo (outside the lecture hall)	

Monday, March 26, 2018

14:00 – 14:40	Peter Pohl	Registration of lipid domains from the two membrane leaflets
14:40 – 15:20	Claudia Steinem	ENTH-PI(4,5)P ₂ interaction as a function of lateral membrane tension: Introducing membrane asymmetry
15:20 – 16:00	Siewert-Jan Marrink	Molecular dynamics of complex cell membranes
16:00 – 16:30	COFFEE BREAK	
16:30 – 17:10	Annette Meister	Sarcolemma tubulation induced by the peripheral membrane protein N-BAR
17:10 – 19:00	Poster flashes #21-42 & poster session	
19:00	DINNER	
20:00- 21:00	Mark Sansom	Molecular simulation studies of protein/lipid interactions in complex biological membranes

Tuesday, March 27, 2018

07:30	BREAKFAST	
08:35 - 08:40		announcements
08:40 - 09:20	Oscar Ces	Generating and exploiting membrane asymmetry
09:20 – 10:00	Sylvie Roke	Lipid membrane asymmetry probed label-free with nonlinear light scattering and imaging: Direct probes of surface chemistry and electrostatic potential landscapes.
10:00 – 10:20	Marie Markones Carina Drechsler	Zeta potential quantifies charged lipids in the outer leaflet of asymmetric liposomes
10:20 – 10:50	COFFEE BREAK	
10:50 – 11:30	William Dowhan	Generating membrane protein and lipid asymmetry
11:30 – 12:10	Joost C.M. Holthuis	Dissecting protein-lipid crosstalk in life/death decision-making with photoactuated lipid probes
12:10 – 12:30	Frederick Heberle	Determining the structure of asymmetric bilayers with small-angle scattering: Insight from Molecular Dynamics simulations
12:30	LUNCH	

Tuesday, March 27, 2018

14:00 – 14:40	Oliver Ernst	Phospholipid scrambling by rhodopsin
14:40 – 15:20	Thomas Gutsmann	Reconstitution and function of the asymmetric outer membrane of gramnegative bacteria
15:20 – 16:00	Ana J. García-Sáez	Membrane asymmetry in cell death
16:00 – 16:30	COFFEE BREAK	
16:30 - 17:10	Discussion: Proper choice of models for membrane research	
10.50 – 17.10	Discussion. Froper Cit	or models for membrane research
17:10 – 17:30	·	About the Wilhelm and Else Heraeus Foundation
17:10 – 17:30	·	About the Wilhelm and Else Heraeus

Wednesday, March 28, 2018

07:30	BREAKFAST	
08:30 - 08:40		Presentation of poster awards
08:40 - 09:20	Patricia Bassereau	Shaping of membranes upon asymmetric binding of BAR-domain proteins
09:20 – 10:00	Kirsten Bacia	Asymmetric protein-membrane binding in intracellular vesicle formation
10:00 – 10:20	Erik Strandberg	Membrane pore formation of the antimicrobial peptide MSI-103 promoted by lyso-lipids
10:20 – 10:50	COFFEE BREAK	
10:50 – 11:30	Sandro Keller	Polymer-encapsulated nanodiscs for membrane biophysics
11:30 – 12:10	Maria João Moreno	Transient asymmetry in biomembranes due to association of small molecules. Methods for its characterization and relevance for membrane permeability
12:10 – 12:30	Radek Šachl	Inter-leaflet coupling of lipid driven nanodomains
12:30 – 12:40	Heiko Heerklotz	Closing remarks
13:00	LUNCH	

End of the seminar and departure

NO DINNER for participants leaving on Thursday morning