

Winterschool 2012
22.03.2012 – 23.03.2012
Kloster Drübeck

22.03.2012

08:00 Departure by bus, Tammannstr. 2

10:30 Arrival at Kloster Drübeck

1. Session

11:00	Welcome	Claudia Steinem
11:05	Synthesis of modified gramicidin (gA) analogs and β -peptides for analysis of membrane-peptide-interactions	Tatjana Polupanow
11:30	Recognition of artificial peptides in membranes	Stefan Müller
11:55	Minimalistic model for bilayer membranes and hydrophobic inclusions: Application to pore stabilization	Giovanni Marelli

12:30 Lunch

2. Session

14:00	hVDAC-1: Investigation on the single channel level	Conrad Weichbrodt
14:25	Investigation of VDAC with solid-state NMR	Zrinka Gattin
14:50	Robust design for NMR	Fabian Telschow
15:15	Local electric recordings of lipid bilayers on a microfabricated microporous device	Theresa Kaufeld

15:45 Coffee Break

3. Session

16:15	Orientations in spin labeled biomolecules by high-field pulsed EPR: towards a general applicability	Giuseppe Sicoli
16:40	Synthesis of chemical probes to elucidate function and inhibition of the bacterial membrane protein MraY	Anatol Spork
17:05	Analysis of the membrane binding mechanism of the peripheral membrane protein pyruvate oxidase from <i>E. coli</i>	Astrid Sitte
17:30	tba	Tim Salditt

18:00 Dinner

19:30 Tour through Kloster Drübeck

21:00 Get together - Café/Weinstube im Gärtnerhaus

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1. Session

8:30	Fluorescent and non-fluorescent glycosphingolipids to investigate domain formation	Annika Ries
8:55	Quantifying the diffusion of membrane proteins and peptides	Kerstin Weiß
9:20	Lipid-protein interactions by MD simulations	Rodolfo Briones
9:45	Hydration forces between lipid bilayers: Coarse-grained MD simulations	Yuliya Smirnova

10:10 Coffee Break

2. Session

10:30	Forcing membranes to bend and fuse using a modified umbrella sampling approach for diffusive systems	Gregory Bubnis
10:55	tba	Jelger Risselada
11:20	Hybrid biooligomers as modified SNARE-motifs for membrane fusion and inhibition of the SNARE disassembly	Meike Quast / Muheeb Sadek
11:45	Single vesicle fusion with pore-spanning lipid bilayers	Henrik Neubacher

12:15 Lunch

3. Session

13:15	PIP ₂ in exocytosis	Geert van den Bogaart
13:40	Beyond the raft	Dragomir Milovanovic
14:05	Probing the Interaction between synaptotagmin and anionic lipids with FCS	Chao-Chen Lin
14:30	Simulation of vesicles at surfaces – rupture, fusion and spreading	Marc Fuhrmans
14:55	Closing remarks	Claudia Steinem

15:15 Departure by bus

17:45 Arrival in Göttingen