



2015

# Schedule

## **SFB 803 Autumnschool**

**Georg-August-Universität Göttingen**

**12. – 13. October**  
**„EC Altenau“**

**An der Schwefelquelle 17**  
**38707 Altenau**

**Harz/Lower Saxony**



**Autumnschool 2015**  
**12.10.2015 – 13.10.2015**  
**„EC Altenau“**

## Monday, 12.10.2015

**08:00**      **Departure by bus, Tammannstr. 2**

**09:30**      **Arrival EC Altenau / Check in**

**10:00**      **Coffee**

### 1. Session

10:20	Welcome	Steinem, Claudia
10:30	Lipid protein interactions by MD simulations	Briones, Rofolfo
10:55	On the transition region of trans-membrane pores	Awasthi, Neha
11:20	Free energy calculations for membrane transformations	Smirnova, Yuliya
11:45	Statistical methods for fully automatic reconstruction of ion channel recordings	Pein, Florian

**12:15**      **Lunch**

### 2. Session

13:15	Recognition of artificial $\beta$ -peptides in lipid membranes	Rost, Ulrike
13:40	Mechanosensitive membrane channels in primary cilia and bacteria	Schmidt, Christoph
14:05	Nanometer Distances and Orientations in Peptides with EPR-Spectroscopy	Halbmair, Karin
14:30	Dynamics of lipids domains in pore-spanning lipid membranes	Schütte, Ole

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**15:00 Coffee Break**

**3. Session**

15:30	Lipid-and ligand-dependent structure of helical membrane proteins	Jaremko, Lukasz
15:55	NMR-spectroscopic investigations on oligomerization inhibitors in phospholipid membranes	Antonschmidt, Leif
16:20	NMR spectroscopic investigations on the human voltage dependent anion channel (hVDAC1)	Schmidt, Christian

**16:45 PI meeting / Members' meeting**  
**Freetime activity (optional Disc Golf ca. 1,5 h)**

**19:00 Buffet**

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**Tuesday, 13.10.2015**

**1. Session**

9:00	High fusogenic lipid membranes in PEG solution	Xu, Yihui
9:25	Fusion kinetics of late-endosomal SNAREs and SNARE-like mimics	Halder, Partho
9:50	SNARE mimicking hybrid biooligomers for the dissection of membrane fusion mechanisms	Wehland, Jan-Dirk

**10:15 Coffee Break**

**2. Session**

10:45	Membrane fusion as a function of lateral membrane tension	Kliesch, Torben-Tobias
11:10	Bilayer topological transitions (poration, stalk formation) via molecular dynamics	Bubnis, Greg
11:35	Simulation of cellular adhesion	Savic, Filip
12:00	Synapse on a chip: SNARE-mediated fusion in planar pore-spanning membranes	Hubrich, Raphael

**12:30 Lunch**

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**3.Session**

13:30	Measuring membrane diffusion in small unilamellar vesicles with MIET	Thiart, Jan
13:55	Impact of the ENTH domain on protruded pore spanning membranes	Gleisner, Martin
14:20	Membrane deformation by ENTH domains - The effect of lipids and auxiliary protein on Epsin	Meinecke, Michael
14:45	Synaptotagmin-1 binds to PI(4,5)P2-containing membranes but not to SNAREs in a physiological ionic environment	Park, Yongsoo
15:10	On a magic carpet ride with syntaxins and SFB 803: a personal story	Milovanovic, Dragomir
15:35	Closing Remarks	Steinem, Claudia

**16:00 Departure by bus**

**17:30 Arrival in Göttingen**