



2017

# Schedule

## SFB 803 Autumnschool

Georg-August-Universität Göttingen

27. – 28. September



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**Autumnschool 2017**  
**27.09.2017 – 28.09.2017**  
**„Ferienparadies Pferdeberg“**

**Wednesday, 27.09.2017**

- 08:30**      **Departure by bus, Tammannstr. 2**
- 09:20**      **Arrival Ferienparadies Pferdeberg / Check in**
- 09:45**      **Coffee**

**1. Session**

10:00	Welcome	Claudia Steinem
10:10	A04 - Trying to find the toxic pore: AFM studies on membrane embedded Amyloid- $\beta$ 40	Leif Antonschmidt
10:35	A04 - Interaction between a drug candidate and amyloidogenic protein intermediates in membranes	Riza Dervisoglu
11:00	A11 - Cholesterol-mediated allosteric regulation of the mitochondrial translocator protein structure	Garima Jaipuria
11:25	A05 - Diffusion of lipids and lipid domains in PSMs and the influence of STxB binding	Jeremias Sibold
11:50	A01 - The contribution of non-covalent interactions for incorporation, organization, and dynamics of peptide helices in lipid membranes	Marta Anna Cal

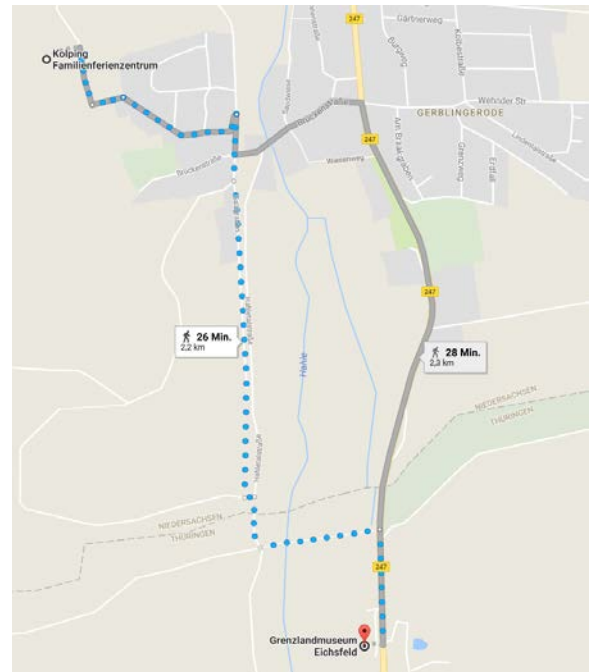
**12:15**      **Lunch**

**2. Session**

13:15	A02 - Structural investigation of TOPP labelled $\beta$ -peptides with EPR-spectroscopy	Karin Halbmaier
13:40	A03 - Mechanical stress switches between the conductive up and less conductive down state of TREK-2	Julian Tim Brennecke
14:05	A10 - Probing molecular stoichiometry by nanofluidic assisted imaging in solution	Hao Cheng
14:30	A12 - Pore formation in membranes: role of lipids, ions and peptides	Neha Awasthi

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- 15:00**      **Coffee Break and 30 min walk to**  
**Grenzlandmuseum**
  
- 16:00**      **1,5 h guided tour of the**  
**Grenzlandmuseum**  
**(<http://www.grenzlandmuseum.de/>)**
  
- ca. 18:00**    **PI meeting / Members meeting**
  
- 19:00**      **Buffet and get-together**



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**Thursday, 28.09.2017**

**1. Session**

09:00	B01 - X-ray structural investigations of liposome and membrane fusion intermediates	Karlo Komorowski
09:25	B02 - The free energy barrier to membrane pore formation	Gregory Bubnis
09:50	B03 - Minimum free energy paths calculation for membrane transformations	Yuliya Smirnova

**10:15 Coffee Break**

**2. Session**

10:45	B03 - Rupturing the hemi-fission intermediate in dynamin-mediated membrane fission: roles of membrane tension and dynamin's conformational changes	Guojie Zhang
11:10	B08 - Membrane fusion as a function of normal forces and in-plane tension	Hannes Witt
11:35	B04/B09 - Interactions of biomimetic membrane models with the ENTH domain of epsin 1 and substrate surfaces	Nelli Teske
12:00	B09 - Lipid specific oligomerization of ENTH domain is crucial for membrane bending	Michael Meinecke

**12:25 Group photo**

**12:30 Lunch**

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### 3. Session

13:30	B05 - Construction of novel hybrid biooligomers as artificial SNAREs to dissect the mechanism of SNAREs in membrane docking and fusion	Anastasia Schirmacher
13:55	B04 - Pore-spanning membranes - an in vitro system to study SNARE-mediated single vesicle fusion	Peter Mühlenbrock
14:20	B06 - Interactions of exocytotic proteins with lipids	Perez-Lara Angel

**14:45 Coffee Break**

### 4. Session

15:00	The roles of tether proteins in SNARE-mediated fusion	Herre Jelger Risselada
15:25	Z02 - Statistical tools for analysis of patch clamp recordings	Florian Pein
15:50	Ö01 - Science outreach activities for the SFB 803 - past - present - future	Elena von Hoff
16:15	Closing Remarks	Steinem, Claudia

**16:30 Departure by bus**

**17:20 Arrival in Göttingen**