

Winterschool 2011
14.02.2011 – 15.02.2011
Haus Hainstein, Eisenach

Schedule

14.02.2011

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

10:30 **Arrival in Eisenach**

11:00 **1. Session**

	Welcome	Claudia Steinem
11:05	D,L-peptides in membranes: EPR and fluorescence studies	Stefan Müller
11:30	Synthesis of modified gramicidin A derivatives for analysis of peptide-lipid interactions	Tatjana Polupanow
11:55	Monitoring membrane permeability: development of a SICM approach	Christoph Saßen
12:20	Quantifying the translational diffusion of membrane proteins and peptides	Kerstin Weiß

12:50 **Lunch**

14:00 **2. Session**

	Voltage-dependent anion channels under the loupe	Zrinka Gattin
14:25	Functional dynamics in the voltage-dependent anion channel	Saskia Villinger/ Xuejun Yao
14:50	Robust design for NMR signals	Thomas Hotz
15:15	Mechanical characterization of primary cilia	Chris Battle

15:40 **Coffee Break**

16:15 **3. Session**

	Mechanosensing across the cell membranes : lipid bilayers on microchips	Theresa Kaufeld
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	Measurements of distances and orientation with high-frequency EPR	Igor Tkach

18:00 **Dinner**

19:30 **Social program: guided tour through Eisenach**

21:00 **Get together**



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8:30 1.Session

8:30	Molecular dynamics simulations of lipid-protein interactions	Rodolfo Briones
8:55	Free energy and membrane fusion	Gregory Bubnis
9:20	Fast roads and dead-ends in SNARE-mediated fusion	Jelger Risselada
9:45	Fusion mediated by molecular recognition - investigations based on pore-spanning membranes	Ines Höfer

10:10 Coffee Break

10:30 2. Session

10:30	Vesicles at surfaces-adsorption, fusion, rupture and spreading	Marc Fuhrmanns
10:55	Minimalistic model for bilayer membranes and hydrophobic inclusions: Application to membrane fusion	Giovanni Marelli
11:20	Synthesis of modified SNARE analogues to inhibit the alpha- SNAP/NSF mediated disassembly	Annika Groschner
	Studies of SNARE derived peptides in membrane fusion	Karsten Meyenberg

12:15 Lunch

13:15 3. Session

13:15	Synthesis of SNARE analogues to analyze the mechanism of membrane fusion	Antonina Lygina
13:40	Protein-lipid interactions in neuronal exocytosis	Geert van den Bogaart
14:05	Glycosphingolipids to investigate domain formation	Annika Holkenbrink
14:30	Curvtuve analysis of stalks based on X-ray scattering data	Sebastian Aeffner
14:55	Closing remarks	Claudia Steinem

15:00 Departure by bus

17:30 Arrival in Göttingen