

Rigi-Workshop 2011

From biological machines to molecular devices of the future

January 23 – 25, 2011, Rigi Kulm Hotel

Sunday, January 23

12:00 – 14:00	Arrival / Lunch / Check-in / Registration
14:20 – 14:30	Opening
14:30 – 15:15	Invited Talk: Andreas Plückthun; University of Zurich, Switzerland Design, Engineering and Evolution of Specific Molecular Interactions
15:15 – 15:40	Break
15:40 – 16:00	Talk 1: Marcy Zenobi-Wong; Swiss Federal Institute of Technology Zurich, Switzerland Molecular Switches for Control of Cell Morphology
16:00 – 16:20	Talk 2: Roderick Y.H. Lim; Biozentrum/Swiss Nanoscience Institute, University of Basel, Switzerland Biomimicry of the Nuclear Pore Complex for Precision Protein Targeting
16:20 – 17:30	Upgraded Poster Session 1 (14 posters)
18:00 – 19:30	Dinner
19:30 – 20:30	Posters 1
20:30 – 22:00	Discussion Groups 1: What biological mechanisms can be used in non-biological applications?

Monday, January 24

08:00 – 09:00	Breakfast
09:00 – 09:45	Invited Talk: Nico Bruns; University of Basel, Switzerland Damage Self-Reporting Materials and Nanoreactors Based on Polymer-Protein Hybrid Systems
09:45 – 10:00	Break
10:00 – 10:20	Talk 3 – Edwin C. Constable; University of Basel, Switzerland Cheaper or better? Refining the performance of light emitting electrochemical cells through molecular engineering
10:20 – 10:40	Talk 4 - Takashi Ishikawa; Paul Scherrer Institute Cooperativity of dynein motor proteins in flagella/cilia revealed by electron cryo-tomography
10:40 – 11:50	Upgraded Poster Session 2 (13 posters)
12:00 – 13:00	Lunch
13:00 – 17:00	Free Time
17:00 – 18:00	Invited Talk: Viola Vogel; Swiss Federal Institute of Technology Zurich, Switzerland Proteins as Mechano-Chemical Signal Converters
18:00 – 19:30	Dinner
19:30 – 20:30	Posters 2
20:30 – 22:00	Discussion Groups 2: How can biomimetic applications be scaled up? Etc..

Tuesday, January 25

08:00 – 09:00	Breakfast / Check out
09:00 – 09:45	Invited Talk: Hagan Bayley; University of Oxford, UK Building Prototissues from Aqueous Droplets
09:45 – 10:05	Talk 5 - Xavier Deupi; Paul Scherrer Institute Title G protein-coupled receptors: the intercoms that transmit signals into the cell
10:05 – 10:20	Break
10:20 – 11:40	Discussion Groups 3: Wrap up Etc..
11:45 – 12:45	Lunch
12:45 – 13:45	Group Reports
13:45 – 14:45	Group Reports
14:45 – 15:00	Break
15:00 – 15:30	Closing Remarks and Awards Presentation
15:30	Conference closure and departures