

PROBING AND MANIPULATING BIOMOLECULES: FROM SINGLE MOLECULES TO AN ENSEMBLE

DIP Status Workshop
LMU Munich - May 11, 2012



- 9:00** **MICHAEL URBAKH**
Modeling forced unfolding and refolding of proteins
- 9:40** **RONY GRANEK**
Modeling equilibrium dynamics and unfolding of proteins: Tensorial network models, Dynamic structure factor, thermal and force induced unfolding
- 10:20** **MATTHIAS RIEF**
Folding Mechanics of Single Calmodulin Molecules
- 11:00** Coffee break
- 11:20** **YOAV HENIS**
Accurate FRAP analysis of the membrane interaction dynamics of non-integral membrane proteins: Raft protein clustering alters N-Ras depalmitoylation, membrane interactions and activation pattern
- 12:00** **SHARON EISENBERG**
Anomalous diffusion of proteins in the ER: Studies on N-Ras mutants and differently-anchored proteins
- 12:40** Lunch
- 13:40** **MATTHIAS WEISS**
Monitoring the dynamics of peripheral membrane proteins
- 14:20** **SHLOMI REUVENI**
Vibrational shortcut to the mean-first-passage-time problem
- 15:00** **AMIR AHARONI**
Directed evolution for the generation of highly specific and improved enzymes
- 15:40** **HERMANN GAUB**
Fluctuating enzymes and single molecule cut & paste
- 16:20** Coffee break
- 16:40** **DISCUSSION JNN AND OTHER FUTURE PLANS**
- 18:00** Stroll through the English Garden towards the Restaurant
- 18:30** Dinner at the Restaurant "Seehaus"