

Chemistry meets Biology

Satellite-Meeting of the 3rd Sino German Frontiers in Chemistry Symposium
LMU Munich, August 15th and 16th 2010

Center for Advanced Studies, Seestr. 13, Munich

Organisation: Prof. Jens Michaelis, Chemistry Department, LMU Munich

Sunday August 15th 2010

19.00-20.00 Keynote lecture: Prof. Dirk Trauner, LMU München
Chemical Approaches to Restoring Vision

Monday August 16th 2010

9:00-10:30 Session 1: Modifications of Proteins

Dr. Christian Hackenberger, Freie Universität Berlin

*Chemoselective Staudinger Reactions – Useful Tools for the
Functionalisation of Proteins*

Prof. Dr. Peng Chen, Peking University

*New methodology for specific protein labeling in living system
Semisynthesis of functional proteins*

10:30-11:00 Coffee Break

11:00-12:30 Session 2: Physical Approaches to Bio-Chemical Systems

Dr. Nadia Ruthardt, LMU Munich

*Live-cell imaging and single-particle tracking of gene carrier
internalization into cells*

Prof. Zongbao Zhao, Chinese Academy of Science

*Developing a Bioorthogonal Redox System Using Synthetic
NAD Analogs*

Prof. Thorsten Hugel, Technical University Munich

Kinetics of Molecular Machines

12:30-14:30 Lunch

14:30-16:00 Session 3: Synthesis and Design

Prof. Christoph Arenz, Humboldt University Berlin

Small Molecule Inhibitors of Acid Sphingomyelinase

Prof. Guangxin Liang, Nankai University,

Synthesis of Complex Bioactive Alkaloids

Investigative chemical biology with peptide natural product probes

Dr. Hans-Dieter Arndt (MPI Dortmund)

Investigative chemical biology with peptide natural product probes

16:00-16:30 Coffee Break

16:30-18:00 Session 4: New Technologies

Prof. Jens Michaelis, LMU Munich

Chemistry at the level of single molecules

Prof. Lei Liu, Tsinghua University

Chemical synthesis and modification of proteins

Dr. Dariush Hinderberger, MPI Mainz

*Simplify your protein - Probing Functional Protein Structures
with Electron Paramagnetic Resonance (EPR) Spectroscopy*