

Organized by Graduiertenkolleg (Research Training Group) GRK 760
“Medicinal Chemistry: Molecular Recognition – Ligand Receptor Interactions“

Lecture Hall H36 (Physics Building)

Monday, September 29, 2008

- 13.00 Welcome
Prof. Dr. Armin Buschauer
- Opening lecture**
- 13.10 Prof. Dr. Francois Diederich
ETH Zurich, Switzerland
Structure-based approaches towards new antimalarials
- Computer-aided methods in medicinal chemistry**
- 14.10 Prof. Dr. Gerhard Klebe
University of Marburg, Germany
Protein-Ligand Interactions as the Bases of Drug Design
- 15.10 - Coffee break -
- 15.40 Prof. Dr. Hugo Kubinyi
University of Heidelberg, Germany
Chemical similarity and biological activity
- 16.40 Prof. Dr. Tudor Oprea
University of New Mexico, Albuquerque, NM, USA
Predictions and machine learning: a personal viewpoint of GPCR activation
- 17.40 - Coffee break -
- G-protein-coupled receptors**
- 18.00 Prof. Dr. Christa Müller
University of Bonn, Germany
From adenine to ATP: purinergic G protein-coupled receptors

19.00 Oral poster presentation

19.30 Poster session / Beer and pretzel

Tuesday, September 30, 2008

G-protein-coupled receptors (continued)

- 8.30 Prof. Dr. Jillian Baker
University of Nottingham, UK
Ligand-specific GPCR conformations
- 09.30 Prof. Dr. JoAnn Trejo
University of California, San Diego, CA, USA
Regulation of GPCR signaling and trafficking
- 10.30 - Coffee break -
- 11.00 Dr. Klaus Rudolf
Boehringer Ingelheim, Biberach, Germany
Medicinal Chemistry experiences with GPCRs

12.00 Oral poster presentation

12.30 - Lunch break -

Enzymes as drug targets

- 13.45 Prof. Dr. Stefan Laufer
University of Tübingen, Germany
Protein kinases: the selectivity problem
- 14.45 Dr. George Hartman
Merck & Co., Westpoint, PA, USA
Akt inhibitors for cancer therapy - evolution of enzyme inhibitor classes
- 15.45 Oral poster presentation
- 16.00 - Coffee break -
- 16.30 Prof. Dr. Torsten Steinmetzer
University of Marburg, Germany
Successful developments in the field of protease inhibitors
- 17.30 Dr. Karl-Heinz Baringhaus
Sanofi-Aventis, Frankfurt, Germany
Lead identification and optimization of glycogen phosphorylase inhibitors
- 18.30 Oral poster presentation
- 18.45 Poster Session
- 20.00 Barbecue at the University of Regensburg

Wednesday, October 1, 2008

Hot topics in drug research

- 08.30 Prof. Dr. Martin Schneider
Bayer-Schering Pharma, Berlin, Germany
Biomarkers: vision and reality
- 09.45 Prof. Dr. Gert Fricker
University of Heidelberg, Germany
Blood-brain barrier
- 10.45 - Coffee break -
- 11.15 Dr. Jeff Reagan
Amgen, South San Francisco, CA, USA
Allosteric GPCR modulation
- 12.15 Prof. Dr. Ludger Wessjohann
Leibniz Institute for Plant Biochemistry, Halle, Germany
Natural products: Is there more to gain than a lead structure?
- 13.15 Concluding remarks

Poster session

The participants are invited to present scientific posters. A limited number of authors will be selected to give an ultra-short oral presentation (5 min, 2-3 slides; ‘oral poster presentation’).

For details, please, visit the homepage: <http://www.medicinal-chemistry.de>, then use link to ‘Summer School 2008’