

5th Summer School Medicinal Chemistry

Universität Regensburg

September 13-15, 2010

Organized by Graduiertenkolleg (Research Training Group) GRK 760
 “Medicinal Chemistry: Molecular Recognition – Ligand Receptor Interactions”
 Lecture Hall H36 (Physics Building)

Monday, September 13, 2010

- 13.00 Welcome
Prof. Dr. Armin Buschauer
- Opening lecture**
- 13.10 Prof. Dr. Peter Seeberger
Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Potsdam, D
Carbohydrates – using the “undruggable” for diagnostics and vaccines
- G-protein-coupled receptors**
- 14.10 Prof. Dr. Gebhard F. X. Schertler
Paul Scherrer Institute, Villigen, CH
Structure of G protein-coupled receptors (GPCRs): Implications for ligand binding and activation
- 15.10 - Coffee break -
- 15.40 Prof. Dr. Rob Leurs
VU University Amsterdam, NL
Fragment based discovery of H₄ receptor antagonists
- 16.40 Prof. Dr. Peter Gmeiner
University of Erlangen, D
Tailor-made GPCR ligands as molecular probes
- 17.40 - Coffee break -
- Medicinal Chemistry of natural products**
- 18.00 Prof. Dr. Gunda I. Georg
University of Minnesota, MN, USA
Synthesis and evaluation of phenanthropiperidine alkaloids for anticancer activity and CNS side effects
- 19.00 Oral poster presentation
- 19.30 Poster session / Beer and pretzel

Tuesday, September 14, 2010

- Enzymes as drug targets**
- 8.30 Prof. Dr. Stefan Laufer
University of Tübingen, D
Eicosanoids and cancer-chemoprevention: cox, lox and beyond
- 09.30 Prof. Dr. Rolf W. Hartmann
Saarland University, Saarbrücken, D
Target identification, hit discovery and lead optimization in the field of endocrinology and intracrinology
- 10.30 - Coffee break -
- 11.00 Prof. Dr. Martin Schneider
Bayer Schering Pharma AG, Berlin, D
A case study: From research to market - Xarelto, a new anti-thrombotic principle

- 12.00 Oral poster presentation
- 12.30 - Lunch break -
- Drug design / Computer-aided methods**
- 13.45 Dr. Gerhard Hessler
Sanofi-Aventis D GmbH, Frankfurt/M., D
Fragment-based lead discovery: Different perspectives
- 14.45 Prof. Dr. Alexander Dömling
University of Pittsburgh, PA, USA
ANCHOR SEARCH: Web-based tool for the design of protein protein interaction antagonists
- 15.45 Oral poster presentation
- 16.00 - Coffee break -
- 16.30 Dr. Michael Thormann
Origenis GmbH, Martinsried, D
Quantum-chemical computation of compound properties, bioisosterism and protein ligand interactions
- 17.30 Prof. Dr. Klaus-Jürgen Schleifer
BASF SE, Ludwigshafen, D
Challenges in agrochemicals design
- 18.30 Oral poster presentation
- 18.45 Poster Session
- 20.00 Barbecue at the University of Regensburg

Wednesday, September 15, 2010

- Hot topics in drug research**
- 08.30 Dr. Ralph Lipp
Lilly Research Laboratories, Indianapolis, IN, USA
A holistic look at developability of new chemical entities
- 09.45 Prof. Dr. Oliver Werz
University of Tübingen, D
Gender: The forgotten aspect in drug development
- 10.45 - Coffee break -
- 11.15 Prof. Dr. Roland Seifert
Medical School of Hannover, D
Drugs for orphan diseases
- 12.15 Prof. Dr. Hugo Kubinyi
University of Heidelberg, D
ADME problems? Rescue your candidate
- 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 2010’