

7th Summer School Medicinal Chemistry

Graduiertenkolleg (Research Training Group) GRK1910

University of Regensburg

September 17-19, 2014

Lecture Hall H44 (Chemistry & Pharmacy Building)



DFG Deutsche
Forschungsgemeinschaft

Wednesday, September 17, 2014

- 13.00 Welcome – U. Hebel, President of the UR,
A. Buschauer and P. Gmeiner
- GPCR structure and function**
- 13.10 Dan Larhammar
University of Uppsala, Sweden
GPCR evolution and structure
- 14.05 Reinhard Grisshammer
National Institutes of Health, Rockville, USA
Structure of the agonist-bound neurotensin receptor NTS1
- 15.00 - Coffee break -
- 15.30 Martha E. Sommer
Charité, Universitätsmedizin Berlin, Germany
The versatility of arrestin-receptor interactions
- 16.25 Takeaki Ozawa
University of Tokyo, Japan
*Imaging and analysis of GPCRs using protein
complementation analysis*
- 17.20 - Coffee break -
- 17.50 Robert Lane
Monash Institute of Pharmaceutical Sciences, Parkville, Australia
*New tricks for an old dog: bias and allosterity at the
dopamine D2 receptor*
- 18.45 Oral poster presentation
- 19.15 Poster session / Beer and pretzel

Anti-infectives

- 13.30 Karl-Heinz Altmann
ETH Zürich, Switzerland
*Synthesis of macrocyclic natural products and their
biological exploration*
- 14.25 Martin Empting
Helmholtz-Institute of Pharmaceutical Research Saarland
(HIPS), Saarbrücken, Germany
*Disruption of bacterial quorum sensing as a novel
anti-infective strategy*
- 15.20 Oral poster presentation
- 15.35 - Coffee break -
- 16.05 Beat Ernst
University of Basel, Switzerland
*Anti-adhesion therapy: A balanced PK/PD-profile
proved key for success*
- 17.00 Kurt Ritter
Sanofi-Aventis, Frankfurt, Germany
New anti-viral therapies (the hepatitis C revolution)
- 17.55 Oral poster presentation
- 18.30 Poster Session
- 19.30 Barbecue at the University of Regensburg

Thursday, September 18, 2014

Drug design

- 08.30 Peter Kolb
University of Marburg, Germany
*Computational structure-based identification and
optimization of small molecular ligands*
(lecture + hands-on training)
- 10.00 - Coffee break -
- 10.30 Christofer Tautermann
Boehringer Ingelheim, Biberach, DE
*GPCR structures in drug design: a case study on the
residence time of antimuscarinic drugs*
- 11.25 Michael Thormann
Origenis, München, Germany
Measurement and optimization of drug-like properties
- 12.15 Oral poster presentation
- 12.30 - Lunch break -

Friday, September 19, 2014

- 08.30 Manfred Jung
University of Freiburg, Germany
Chemical epigenetics - probing the bookmarks of life
- 09.25 Bernhard Wünsch
University of Münster, Germany
*Sigma receptors as targets for the development
of innovative drugs*
- 10.20 - Coffee break -
- 10.40 Chiara Cabrele
University of Salzburg, Austria
*Targeting alpha-helix-mediated protein-protein
interactions using peptide-based molecules*
- 11.35 Norbert Schmees
Bayer Healthcare, Berlin, Germany
New BET inhibitors for cancer therapy
- 12.30 Poster prizes
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.uni-regensburg.de/summer-school-medchem/>