

6th Summer School Medicinal Chemistry

September 26-28, 2012

Organized by the Pharmaceutical/Medicinal Chemistry Groups
of the Faculty of Chemistry and Pharmacy at the University of Regensburg

Lecture Hall H36 (Physics Building)

Wednesday, September 26, 2012

- 13.00 Welcome
A. Buschauer
Opening lecture
- 13.10 Stephen R. Sprang
University of Montana, Missoula, MO, USA
Structural insights into adenylyl cyclase inhibitors
- G-protein-coupled receptors**
- 14.10 Sébastien Granier
Stanford University, Stanford, CA, USA
Structural insights into opioid receptor function
- 15.10 - Coffee break -
- 15.40 Nigel Birdsall
National Institute for Medical Research, London, UK
Multiple allosteric sites on muscarinic receptors and the free fatty acid receptor, FFAR1
- 16.40 Nuška Tschammer
Department of Chemistry and Pharmacy, Emil Fischer Center, University of Erlangen-Nürnberg, DE
Allosteric modulation of GPCRs: Chemokine receptor CXCR3 as an example
- 17.40 - Coffee break -

Drug design

- 18.00 Christofer Tautermann
Boehringer Ingelheim, Biberach, DE
Structure based GPCR ligand design – use of homology models and crystal structures for lead identification and lead optimization
- 19.00 Oral poster presentation
- 19.30 Poster session / Beer and pretzel

Thursday, September 27, 2012

Drug design (continued)

- 8.30 Hugo Kubinyi
University of Heidelberg, Heidelberg, DE
Drug design – Solved and unsolved problems
- 09.30 Wolfgang Sippl
Institute of Pharmacy, Martin-Luther-Univ. Halle-Wittenberg, DE
Structure based drug design for epigenetic targets
- 10.30 - Coffee break -
- 11.00 Kurt Ritter
Sanofi-Aventis, Frankfurt, DE
A journey in structure-based drug discovery: inhibitors of IGF1R kinase (oncology) and 11 β -HSD1 (diabetes)
- 12.00 Oral poster presentation
- 12.30 - Lunch break -

Anti Cancer Drugs

- 13.45 Markus Kalesse
Institute of Organic Chemistry, University of Hannover, DE
Argyriin F - a new proteasom inhibitor
- 14.45 Daniel Rauh
Faculty of Chemistry - Chemical Biology, TU Dortmund, DE
Chemical oncology - converging cancer genetics, structural biology and medicinal chemistry
- 15.45 Oral poster presentation
- 16.00 - Coffee break -
- 16.30 Martial Ruat
Institute of Neurobiology A. Fessard, Gif-Yvette, FR
Hedgehog signaling inhibitors for cancer therapy
- 17.30 Franz von Nussbaum
Bayer HealthCare, Berlin, DE
Kinase-inhibitors at Bayer Oncology - Three chapters of an exciting story
- 18.30 Oral poster presentation
- 18.45 Poster Session
- 20.00 Barbecue at the University of Regensburg

Friday, September 28, 2012

Hot topics in drug research

- 08.30 Daniel Rauh
Faculty of Chemistry - Chemical Biology, TU Dortmund, DE
Change or be changed - Reflections of the workshop "Future in Medicinal Chemistry"
- 09.30 Evi Kostenis
Institute of Pharmaceutical Biology, Bonn, DE
Monitoring whole cell responses with label-free biosensors: fancy trend or holistic approach to resolve cellular signaling?
- 10.30 - Coffee break -
- 10.45 Joachim Wegener
Institute of Analytical Chemistry, Chemo- and Biosensors University of Regensburg, DE
Eavesdropping on cell-based assays using wired culture dishes
- 11.45 Dirk Trauner
Department of Chemistry, Ludwig-Maximilians-University Munich, DE
Ion channels and GPCRs: The age of enlightenment
- 12.45 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.medicinal-chemistry.de>, then use link to 'Summer School 2012'