

Participants: PhD students, master students, postdoctoral researchers / junior scientists at the beginning of their career (in academia or industry)

Registration

Registration fee: Participants from academic institutions 65 Euro
Industrial participants 280 Euro

Early registration including application for funding: before July 20, 2012

Late registration: until September 14, 2012

For **online registration**, please, visit our website: <http://www.medicinal-chemistry.de>, then use the link to 'Summer School 2012'.

Scientific contributions, preparation and submission of abstracts

Participants (registration required) are invited to present posters (maximum poster size: 'A0 oversize', 90 cm width x 120 cm height).

Online abstract submission is required before August 17, 2012

For instructions and a template, please visit the aforementioned website.

Payment

By bank transfer. For detailed information, please, visit our website.

Fellowships

Limited funds are available for participants from abroad who will need financial aid to cover part of their expenses. In this case, a poster presentation is mandatory. Please send applications to our office (address see below).

Accommodation

Reservations for accommodation can be made through the **Regensburg tourist office**: Phone: +49-941-5074410; Fax: +49-941-5074418; <http://www.regensburg.de>; e-mail: tourismus@regensburg.de

Organization

Pharmaceutical/Medicinal Chemistry Groups of the Faculty of Chemistry and Pharmacy at the University of Regensburg,
www-buschauer.uni-regensburg.de

Prof. Dr. Armin Buschauer
University of Regensburg
Institute of Pharmacy
D-93040 Regensburg

Phone: +49-941-9434827
Fax: +49-941-9434820
e-mail: armin.buschauer@chemie.uni-regensburg.de

Contact:

Office Summer School 2012
Karin Reindl, Uta Hasselmann
Institute of Pharmacy
D-93040 Regensburg

Phone: +49-941-9434823
Fax: +49-941-9434820
e-mail: summer.school@chemie.uni-regensburg.de

6th Summer School "Medicinal Chemistry"

September 26 - 28, 2012

Confirmed Speakers:

*Nigel **Birdsall***, National Institute for Medical Research, London, UK

*Sébastien **Granier***, Stanford University, Stanford, CA, USA

*Markus **Kalesse***, Institute of Organic Chemistry, University of Hannover, DE

*Evi **Kostenis***, Institute of Pharmaceutical Biology, Bonn, DE

*Hugo **Kubinyi***, University of Heidelberg, Heidelberg, DE

*Daniel **Rauh***, Faculty of Chemistry – Chemical Biology, TU Dortmund, DE

*Kurt **Ritter***, Sanofi-Aventis, Frankfurt, DE

*Martial **Ruat***, Institute of Neurobiology A. Fessard, Gif-Yvette, FR

*Wolfgang **Sippl***, Institute of Pharmacy, Martin-Luther-University Halle-Wittenberg, DE

*Stephen R. **Sprang***, University of Montana, Missoula, MO, USA

*Christofer **Tautermann***, Boehringer Ingelheim, Biberach, DE

*Dirk **Trauner***, Dept. of Chemistry, Ludwig-Maximilians-University Munich, DE

*Nuška **Tschammer***, Dept. of Chemistry and Pharmacy, Emil Fischer Center, University of Erlangen-Nuremberg, DE

*Franz **von Nussbaum***, Bayer HealthCare, Berlin, DE

*Joachim **Wegener***, Institute of Analytical Chemistry, Chemo- and Biosensors, University of Regensburg, DE

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').

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
- 9.30 Wolfgang Sippl, Institute of Pharmacy, Martin-Luther-University 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***
- 8.30 Daniel Rauh, Faculty of Chemistry - Chemical Biology, TU Dortmund, DE
Change or be changed - Reflections of the workshop "Future in Medicinal Chemistry"
- 9.30 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, 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