

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

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### 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'.

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### 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.

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### Payment

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

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### 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).

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### 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](mailto:tourismus@regensburg.de)

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### Organization

Pharmaceutical/Medicinal Chemistry Groups of the Faculty of Chemistry and Pharmacy at the University of Regensburg,  
[www-buschauer.uni-regensburg.de](http://www-buschauer.uni-regensburg.de)

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# 6<sup>th</sup> 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 $\beta$ -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