

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 18, 2014

Late registration: until September 3, 2014

For **online registration**, please, visit our website:

<http://www.uni-regensburg.de/summer-school-medchem/>

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 15, 2014

For instructions and a template, please visit the above mentioned 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

Graduiertenkolleg / Research Training Group GRK 1910

"Medicinal Chemistry of Selective GPCR Ligands" (www.grk1910.de)

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7th Summer School "Medicinal Chemistry"

Graduiertenkolleg (Research Training Group) GRK1910
September 17 - 19, 2014



Confirmed Speakers:

Karlheinz **Altmann**, ETH Zürich, Switzerland

Chiara **Cabrele**, University of Salzburg, Austria

Martin **Empting**, Helmholtz-Institute for Pharmaceutical Research Saarland (HIPS), Saarbruecken, Germany

Beat **Ernst**, University of Basel, Switzerland

Reinhard **Grisshammer**, National Institute of Health, Rockville, USA

Manfred **Jung**, University of Freiburg, Germany

Peter **Kolb**, University of Marburg, Germany

Robert **Lane**, Monash Institute of Pharmaceutical Sciences, Australia

Dan **Larhammar**, University of Uppsala, Sweden

Takeaki **Ozawa**, University of Tokyo, Japan

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

Norbert **Schmees**, Bayer Healthcare, Berlin, Germany

Martha E. **Sommer**, Charité - Universitätsmedizin Berlin, Germany

Christofer **Tautermann**, Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim a.R., Germany

Michael **Thormann**, Origenis, München, Germany

Bernhard **Wünsch**, University of Münster, Germany

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 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 allostery at the dopamine D2 receptor
- 18.45 Oral poster presentation
- 19.15 Poster session / Beer and pretzel

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 –

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

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