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)

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@ur.de

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Karin Reindl, Silvia Heinrich  
Institute of Pharmacy  
D-93040 Regensburg  
Phone: +49-941-9434823  
Fax: +49-941-9434820  
e-mail: summer.school@ur.de
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 Schnees, 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.00</td>
<td>Welcome</td>
<td>U. Hebel, President of the UR, A. Buschauer and P. Gmeiner</td>
<td><strong>GPCR structure and function</strong></td>
</tr>
<tr>
<td>13.10</td>
<td>Dan Larhammar</td>
<td>University of Uppsala, Sweden</td>
<td><strong>GPCR evolution and structure</strong></td>
</tr>
<tr>
<td>14.05</td>
<td>Reinhard Grisshammer</td>
<td>National Institutes of Health, Rockville, USA</td>
<td>Structure of the agonist-bound neurotensin receptor NTS1</td>
</tr>
<tr>
<td>15.00</td>
<td>Martha E. Sommer</td>
<td>Charité, Universitätsmedizin Berlin, Germany</td>
<td>The versatility of arrestin-receptor interactions</td>
</tr>
<tr>
<td>15.30</td>
<td>Takeaki Ozawa</td>
<td>University of Tokyo, Japan</td>
<td>Imaging and analysis of GPCRs using protein complementation analysis</td>
</tr>
<tr>
<td>16.25</td>
<td>Robert Lane</td>
<td>Monash Institute of Pharmaceutical Sciences, Parkville, Australia</td>
<td>New tricks for an old dog: bias and allostery at the dopamine D2 receptor</td>
</tr>
<tr>
<td>17.20</td>
<td>- Coffee break -</td>
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</tr>
<tr>
<td>17.50</td>
<td>Peter Kolb</td>
<td>University of Marburg, Germany</td>
<td>Computational structure-based identification and optimization of small molecular ligands (lecture + hands-on training)</td>
</tr>
<tr>
<td>18.45</td>
<td>Oral poster presentation</td>
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</tr>
<tr>
<td>19.15</td>
<td>Poster session / Beer and bretzel</td>
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### Thursday, September 18, 2014

**Drug design**

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