



Universität Regensburg

REGENSBURGER UNIVERSITÄTS
STIFTUNG
HANS VIELBERTH



4th Summer School Medicinal Chemistry at the University of Regensburg

organized by

Graduiertenkolleg (Research Training Group) GRK 760
“Medicinal Chemistry: Molecular Recognition – Ligand Receptor Interactions”

September 29 – October 01, 2008

Lecture Hall H36 (Physics Building)

The Research Training Group (Graduiertenkolleg) Medicinal Chemistry (GRK 760) invites Ph.D. students, diploma/master students as well as young scientist at the beginning of their career in academic or industrial drug research to participate in the 4th Summer School Medicinal Chemistry at the University of Regensburg.

Leading scientists from academic institutions and pharmaceutical companies will present innovative ideas, modern methods and strategies, best practices as well as case studies in the field of Medicinal Chemistry. Main topics are:

- ***Computer-aided methods in medicinal chemistry***
- ***G-protein-coupled receptors***
- ***Enzymes as drug targets***
- ***Hot Topics in Drug Research***

Additionally, the participants are invited to present their scientific results on posters. A limited number of authors will be selected to give an ultra-short oral presentation (5 min, 2-3 slides) of the results shown on the posters ('oral poster presentation'). Language of the meeting is English.

Programme

Monday, Sept 29, 2008

13.00 h	Welcome Prof. Dr. Armin Buschauer
	Opening lecture
13.10 – 14.10 h	Prof. Dr. Francois Diederich, ETH Zürich, Switzerland <i>Structure-based approaches towards new antimalarials</i>
	Computer-aided methods in medicinal chemistry
14.10 – 15.10 h	Prof. Dr. Gerhard Klebe, University of Marburg, Germany <i>Protein-Ligand Interactions as the Bases of Drug Design</i>
	<i>Coffee break</i>
15.40 – 16.40 h	Prof. Dr. Hugo Kubinyi, University of Heidelberg, Germany <i>Chemical similarity and biological activity</i>

16.40 – 17.40 h Prof. Dr. Tudor Oprea, University of New Mexico,
Albuquerque, NM, USA
*Predictions and machine learning: a personal viewpoint of GPCR
activation*

Coffee break

G-protein-coupled receptors

18.00 – 19.00 h Prof. Dr. Christa Müller, University of Bonn, Germany
From adenine to ATP: purinergic G protein-coupled receptors

19.00 – 19.30 h Oral poster presentation

19.30 h Poster session / Beer and pretzel

Tuesday, Sept 30, 2008

G-protein-coupled receptors (continued)

08.30 – 09.30 h Prof. Dr. Jillian Baker, University of Nottingham, UK
Ligand-specific GPCR conformations

09.30 – 10.30 h Prof. Dr. JoAnn Trejo, University of California, San Diego, CA, USA
Regulation of GPCR signaling and trafficking

Coffee break

11.00 – 12.00 h Dr. Klaus Rudolf, Boehringer Ingelheim, Biberach, Germany
Medicinal Chemistry experiences with GPCRs

12.00 – 12.30 h Oral poster presentation

Lunch break

Enzymes as drug targets

13.45 – 14.45 h Prof. Dr. Stefan Laufer, University of Tübingen, Germany
Protein kinases: the selectivity problem

14.45 – 15.45 h Dr. George Hartman, Merck & Co., Westpoint, PA, USA
Akt inhibitors for cancer therapy - evolution of enzyme inhibitor classes

15.45 – 16.00 h Oral poster presentation

Coffee break

16.30 – 17.30 h Prof. Dr. Torsten Steinmetzer, University of Marburg, Germany
Successful developments in the field of protease inhibitors

17.30 – 18.30 h Dr. Karl-Heinz Baringhaus, Sanofi-Aventis, Frankfurt/Main, Germany
*Lead identification and optimization of glycogen phosphorylase
inhibitors*

18.30 – 18.45 h Oral poster presentation

18.45 – 20.00 h Poster Session

20.00 h Barbecue at the University of Regensburg

Wednesday, Oct 01, 2008

Hot Topics in Drug Research

08.30 – 09.45 h Prof. Dr. Martin Schneider, Bayer-Schering Pharma, Berlin, Germany
Biomarkers: vision and reality

9.45 – 10.45 h Prof. Dr. Gert Fricker, University of Heidelberg, Germany
Blood-brain barrier

Coffee break

11.15 – 12.15 h	Dr. Jeff Reagan, Amgen South San Francisco, CA, USA <i>Allosteric GPCR modulation</i>
12.15 – 13.15 h	Prof. Dr. Ludger Wessjohann, Leibniz Institute for Plant Biochemistry, Halle, Germany <i>Natural products: Is there more to gain than a lead structure?</i>
13.15 h	Concluding remarks

Registration

Registration fee: participants from academic institutions 50 Euro
industrial participants 250 Euro

Early registration including application for funding: before June 30, 2008

Late registration: until August 31, 2008

For **online registration**, please, visit our website: <http://www.medicinal-chemistry.de>, then use link to 'Summer School 2008'.

Scientific contributions, preparation and submission of abstracts

The 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 July 31, 2008.

Preparation of the abstracts:

Please visit the summer school website for download of a template. Abstracts must be submitted in English and formatted as follows:

- Paper format: DIN A4, 21 cm x 29.7 cm, portrait format; white paper
- Upper margin: 5.8 cm; lower margin: 7.3 cm; left and right margin: 4.0 cm each
- Font size not smaller than 12 pt
- Top: title (first letter upper case, then lower case); next line: authors (name, followed by initials of first name(s)); next line: affiliation and address; next line: empty; abstract (text)

Payment

By bank transfer (free of bank commission) to the following account:

Universitaet Regensburg
account number 1279276
Bayerische Landesbank Muenchen, BLZ 700 500 00
BIC/SWIFT: BYLA DE MM
IBAN: DE42700500000001279276
subject: 7207078 Summer School, registration fee

A printable invoice will be available upon online registration. Fees are due at the time of registration. If fees are paid in advance, but after August 31, 2008, we kindly ask participants to show proof of payment when claiming their tickets and congress papers at the registration desk. Credit cards will be **not** accepted.

Fellowships

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

Accommodation

Reservations for accommodation can be made through the **Regensburg tourist office:**

Phone: +49-(0)941-5073411; Fax: +49-(0)941-5071919;
<http://www.regensburg.de>; e-mail: tourismus@regensburg.de

Organisation

Graduiertenkolleg / Research Training Group GRK 760 'Medicinal Chemistry'
www.chemie.uni-regensburg.de/GK/MedChem/en/index.html

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