



10th Spring School Medicinal Chemistry

GPCR-Ligand Interactions

March 22 - 24, 2023

Regensburg (G)

Confirmed Speakers:

Irene Coin, Leipzig, Germany

Davide Calebiro, Birmingham, UK

Gunnar Schulte, Stockholm, Sweden

Bernhard Wünsch, Münster, Germany

Matthias Schiedel, Erlangen, Germany

Antonella di Pizio, München, Germany

Evi Kostenis, Universität Bonn, Germany

Matthias Gehringer, Tübingen, Germany

Albert J. Kooistra, Copenhagen, Denmark

Stefan Laufer, Universität Tübingen, Germany

Steffen Pockes, Universität Regensburg, Germany

Roland Seifert, Medizinische Hochschule Hannover, Germany

György Keseru, Research Center for Natural Sciences Budapest, Hungary

Poster session:

Participants are invited to present their scientific results on posters.

10th Spring School Medicinal Chemistry

GPCR-Ligand Interactions
University of Regensburg

March 22-24, 2023

Lecture Hall H44 (Chemistry & Pharmacy Building)

Scientific Program

Wednesday, March 22nd, 2023

13:00 **Welcome and Review of GRK1910**

13:45 **Prof. Dr. E. Kostenis** (University of Bonn)
Mechanism(s) of drug action: why do they matter?

14:30 **Coffee Break**

15:00 **Prof. Dr. A. Kooistra** (University of Copenhagen)
Squeezing every ounce out of GPCR structures.

15:45 **Prof. Dr. G. Keseru** (Research Center for Natural Sciences Budapest)
The role of the secondary binding pocket in GPCR pharmacology – Discovery of Cariprazine.

16:00 **Short Oral Presentations** selected from Poster Abstracts

17:00 **Poster Session and Get Together**

Thursday, March 23rd, 2023

08:30 **PD. Dr. Steffen Pockes** (University of Regensburg)
High affinity fluorescent and bivalent ligands targeting the H₃R and the D₁R-H₃R heteromer.

09:15 **Prof. Dr. Davide Calebiro** (University of Birmingham)
Shedding new light on GPCR signalling: why space and time matter.

10:00 **Coffee break**

10:30 **Prof. Dr. Stefan Laufer** (University of Tübingen)
Discovery and development of a first in class MKK-4 inhibitors to increase liver regeneration.

11:15 **Prof. Dr. Antonella di Pizio** (Technical University of Munich)
Modeling and simulations of odorant GPCRs.

12:00 **Lunch break**

13:00 **Prof. Dr. Matthias Schiedel** (FAU Erlangen)
New approaches for targeting the intracellular allosteric binding site of GPCRs .

13:45 **Prof. Dr. Matthias Gehringer** (University of Tübingen)
Covalent Inhibitors targeting the protein kinases' cysteinome.

14:30 **Coffee break**

15:00 **Prof. Dr. NN** (University of NN)
Titel to be determined

15:45 **Round Table Discussion**
Work-Life-Balance in Science.
Moderator: Prof. Dr. Jutta Eichler (FAU Erlangen)

17:00 **Poster Session**

19:00 **Dinner at Parkhotel Maximilian**

Friday, March 24th, 2023

08:30 **Scholarly Session by Prof. Dr. M. Bünemann**
Functional assays: How to screen receptor activity ?

10:00 **Coffee break**

10:30 **Prof. Dr. Bernhard Wunsch** (University of Münster)
Bicyclic k-opioid receptor agonists.

11:15 **Prof. Dr. Gunnar Schulte** (Karolinska Institute Stockholm)
The concept of targeting Frizzleds with small molecule compounds.

12:00 **Lunch Break**

13:00 **Prof. Dr. Irene Coin** (University of Leipzig)
Genetically encoded chemical tools for GPCR studies in the live cell.

13:45 **Prof. Dr. Roland Seifert** (MH Hannover)
cCMP and cUMP: New opportunities for medicinal chemistry.

14:30 **Prof. Dr. Pierre Koch** (University of Regensburg)
Closing Remarks

Registration:

Please sign up for participation by sending an eMail to spring.school@ur.de until **March 5th, 2023**. On-site registration is not possible. The number of participants is limited. We accept participation on a first-come-first-served basis.

Poster session:

Participants are invited to present scientific posters (maximum poster size: 'A0 oversize', 90 cm width x 120 cm height). Please visit our website <http://www.grk1910.de/spring-school.html> for details about abstract submission. A small number of abstracts will be selected for short oral presentations. Presenters will be informed till **March 10th, 2023**.

Accommodation:

Reservations for accommodation can be made through the **Regensburg Tourismus GmbH office**: Prinz-Ludwig-Straße 9, D-93055 Regensburg; Phone: + 49 941 507 4414; Fax: + 49 941 507 1919; eMail: Tourismus@regensburg.de <http://tourismus.regensburg.de>

Contact:

Research Training Group 1910 „Medicinal Chemistry of Selective GPCR Ligands“; c/o Prof. Dr. Peter Gmeiner, FAU Erlangen-Nürnberg

LOEWE Initiative GLUE on „GPCR Ligands for Underexplored Epitopes“
c/o Prof. Dr. Moritz Bünemann, Prof. Dr. Peter Kolb, University of Marburg

Local Organizer:

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