



Speakers

Dmitry Atochin, *Cardiovascular Research Center*, Massachusetts General Hospital and Harvard Medical School

Moritz Bünemann, *Institute of Pharmacology and Clinical Pharmacy*, Philipps-University Marburg

Christian Becker, *Department of Dermatology*, University Hospital Münster

Ingrid Ehrlich, *Institute of Biomaterials and Biomolecular Systems*, University of Stuttgart

Andreas Friebe, *Institute of Physiology*, University of Würzburg

Dai Fukumura, *Department of Radiation Oncology*, Massachusetts General Hospital and Harvard Medical School

Christine Gee, *Institute of Synaptic Physiology*, University Medical Center Hamburg-Eppendorf

Clint Makino, *Department of Physiology and Biophysics*, Boston University School of Medicine

Thomas Müller, *Department of Cell Biology*, Bayer AG

Viacheslav Nikolaev, *Institute of Experimental Cardiovascular Research*, University Medical Center Hamburg-Eppendorf

Stefan Offermanns, *Department of Pharmacology*, Max Planck Institute for Heart and Lung Research

Monilola Olayioye, *Institute of Cell Biology and Immunology*, University of Stuttgart

François Paquet-Durand, *Institute for Ophthalmic Research*, University of Tübingen

Peter Sandner, *Research and Development Pharmaceuticals*, Bayer AG

Harald Schmidt, *Department of Pharmacology and Personalised Medicine*, Maastricht University

Achim Schmidtko, *Institute of Pharmacology and Clinical Pharmacy*, Goethe University

Gregory Schwartz, *Department of Ophthalmology*, Northwestern University

Gil Westmeyer, *Department of Chemistry and School of Medicine*, Technical University of Munich

Maria Zaldivia, *Interfaculty Institute of Biochemistry*, University of Tübingen

GRK 2381

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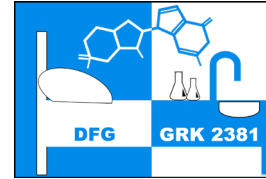
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GRK 2381 Board

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Melanie Cruz-Santos

Aylin Balmes



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Event information

Visit our website

Tickets available for in person

or online attendance and

dinner.

Students are discounted!



event.fourwaves.com/cancan

Conference location

Alte Aula

Münzgasse 30

72070, Tübingen

Dinner location

Liquid Kelter

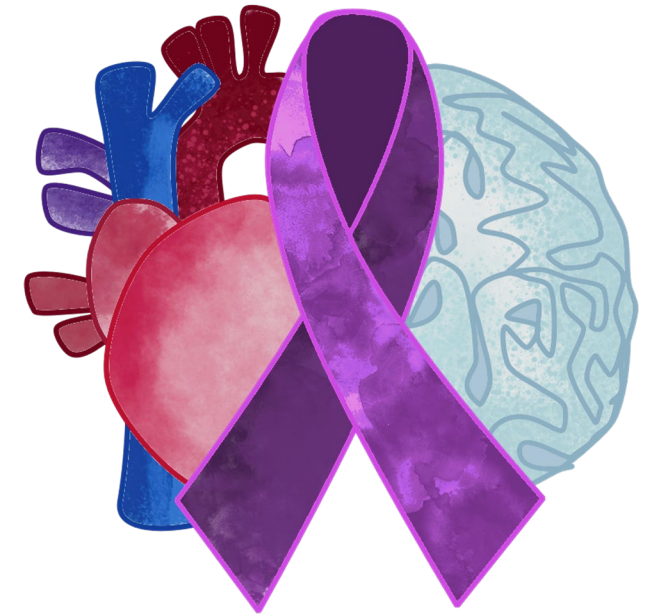
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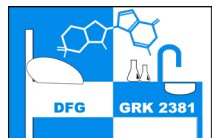


CanCaN 2021

The 1st PhD Student Conference of the GRK 2381 on
**Cancer, Cardiovascular diseases &
Neurological disorders**

**17th – 19th Nov 2021
in Tübingen**

EBERHARD KARLS
UNIVERSITÄT
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CanCaN 2021 – a conference on cancer, cardiovascular diseases, and neurological disorders – is hosted by the PhD students of the Research Training Group 2381 (**GRK 2381: “cGMP: From Bedside to Bench”**) at the University of Tübingen. This event will give an opportunity to young scientists to learn from experts and discuss current research in a great variety of fields.

We are looking forward to meet you all at the Alte Aula in Tübingen or online!

Wednesday 17.11.21

11:30 *Check-in*

12:30 **Welcome**

Session I: Cardiovascular Research

Chair: Melanie Cruz-Santos & Lena Birkenfeld

13:00 **Endothelial mechanosignalling roles in physiology and pathology**
- Stefan Offermanns

13:30 **Role of the extracellular matrix in vascular plasticity and atherosclerosis**
- Maria Zaldivia

14:00 **Illuminating cGMP signaling in cardiovascular cells for better cardiac and vascular protection**
- Viacheslav Nikolaev

14:30 **cGMP connected pathways in stroke**
- Dmitriy Atochin

15:00 *Coffee break*

Session II: Cancer & Immunology

Chair: Mariagiovanna Barresi & Jennifer Schulz

15:30 **cAMP: From Treg function to melanoma therapy**
- Christian Becker

16:00 **Understanding dynamic signaling networks in cancer - Paving the road for new targeted therapies**
- Monilola Olayioye

16:30 **Improving cancer immunotherapy by exercise**
- Dai Fukumura

17:00 **Poster Session I**

Thursday 18.11.21

9:00 **Welcome**

Session III: Neuroscience

Chair: Thomas Pham & Tamara Hussein

9:30 **Deciphering fear circuitry**
- Ingrid Ehrlich

10:00 **Cyclases and synapses**
- Christine Gee

10:30 **Nitric oxide release in the retina is controlled by a feedback loop that depends on cGMP signaling**
- Gregory Schwartz

11:00 *Coffee break*

Keynote Lecture I

Chair: Malte Roelßing & Timo Kopp

11:30 **sGC stimulators and sGC activators research and development @ Bayer: From bench to bedside**
- Peter Sandner

12:30 *Lunch break*

Session IV: Pharmacology & Biotechnology

Chair: Johanna Rodriguez & Aylin Balmes

13:30 **Lead discovery: A great TASK for small molecules**
- Thomas Müller

14:00 **Novel aspects of receptor pharmacology revealed by FRET-based biosensors**
- Moritz Bünemann

14:30 *Coffee break*

Session V: Pharmacology & Biotechnology

Chair: Philine Marchetta & Dila Calis

15:00 **Bioengineered reporters for monitoring alternative splicing and isoform expression - tools for interrogating signal transduction?**
- Gil Westmeyer

15:30 **The end of medicine and cGMP as we know it**
- Harald Schmidt

16:00 **Poster session II**

19:00 *Dinner at “Liquid Kelter”*

Friday 19.11.21

9:00 **Welcome**

Keynote Lecture II

Chair: Marcel Kremser & Valerie Dicenta

9:15 **Pericytes and myofibroblasts: Novel workplaces for NO-sensitive guanylyl cyclase**
- Andreas Friebe

10:15 *Coffee break*

Session VI: cGMP signaling

Chair: Dominic Gonschorek & Tom Schwerd-Kleine

10:45 **cGMP signaling in pain processing**
- Achim Schmidtke

11:15 **Multilevel functional neuroprotection of retinal neurons with the novel PKG inhibitor CN238**
- François Paquet-Durand

11:45 **Neuromodulation of visual transduction by bicarbonate**
- Clint Makino

12:15 *Lunch break*

13:15 **Poster prize ceremony**

14:00 **Conclusion**

