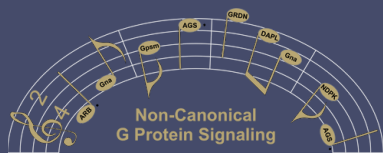


INTERNATIONAL SYMPOSIUM
**THE DIFFERENT FACETS OF
GUANINE NUCLEOTIDE SIGNALING**

17.09. - 19.09.2024

RTG/GRK 2816 & 2381



THE DIFFERENT FACETS OF GUANINE NUCLEOTIDE SIGNALING

Meeting date: Tuesday 17/09/2024 - Thursday 19/09/2024

Start time: Tuesday 17/09/2024 12:00 End time: Thursday 19/09/2024 16:00

Organizing Committee:

Bernd Nürnberg, Ellen Reisinger, Robert Feil, Veronika Leiss, Iris Noetzelmann

Contact: veronika.leiss@uni-tuebingen.de, sekretariat.apet@medizin.uni-tuebingen.de

Meeting location: Haus der bayerischen Landwirtschaft
Rieder Straße 70
82211 Herrsching am Ammersee
<https://www.hdbl-herrsching.de>



INVITED SPEAKERS

Aisah Aubdool, London, UK

Jürgen Bernhagen, Munich, Germany

Moritz Bünemann, Marburg, Germany

Davide Calebiro, Birmingham, UK

Friederike Cuello, Hamburg, Germany

Lisa Lynn Cunningham, Bethesda, USA

Michael Freissmuth, Vienna, Austria

Anna Junker, Tübingen, Germany

Ines Liebscher, Leipzig, Germany

Kristina Lorenz, Würzburg, Germany

Stylianos Michalakis, Munich, Germany

Valentin Nägerl, Bordeaux, France

Uwe Schlattner, Grenoble, France

Martina Schmidt, Groningen, Netherlands

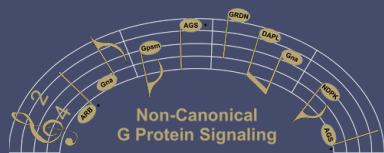
Alan Smrcka, Ann Arbor, USA



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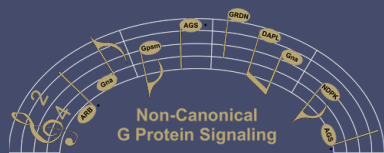
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TUESDAY, 17TH SEPTEMBER

TIME	TITLE	PRESENTER
noon	Arrival + Registration	
12:30 pm - 1:30 pm	Lunch, Coffee	
1:30 pm - 1:40 pm	Welcome and Opening	Ellen Reisinger, Bernd Nürnberg, Robert Feil
1:40 pm - 4:45 pm	Session 1: GPCRs Chair: Johanna Tischlarik & Julia Hofmeister	
1:40 pm - 2:10 pm	Dissecting the spatiotemporal organisation of GPCR signalling with light	Davide Calebiro
2:10 pm - 2:40 pm	Signaling diversity of the adhesion GPCR GPR133 and resulting physiological implications	Ines Liebscher
2:40 pm - 3:05 pm	Targeting P2Y2 receptors: from structure-activity study towards PET tracer development	Anna Junker
3:05 pm - 3:30 pm	Coffee Break	
3:30 pm - 3:45 pm	Single-cell imaging shines light on the heterogeneity of natriuretic peptide signaling in the cardiovascular system	Moritz Lehnert
3:45 pm - 4:15 pm	Voltage sensitivity of opioid receptors	Moritz Bünemann
4:15 pm - 4:45 pm	Timing is crucial: synergism and antagonism in GPCR-promoted bone marrow reconstitution	Mischa Freissmuth
4:45 pm - 5:45 pm	Poster session I - Meet The Expert	
6:30 pm - 10:00 pm	Lake Ammersee Shipping Tour	



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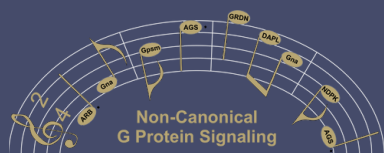
WEDNESDAY, 18TH SEPTEMBER

TIME	TITLE	PRESENTER
07:30 am - 09:00 am	Breakfast	
09:00 am - 11:40 am	Session 2: Non-canonical G protein signaling Chair: Ramil Arora & Vittoria Bonetto	
09:00 am - 09:30 am	New Downstream Signaling Pathways for G Protein α Subunits	Alan Smrka
09:30 am - 10:00 am	The NME/NDPK Protein Family: A Mitochondrial Perspective on Roles in GTP Supply and Beyond	Uwe Schlattner
10:00 am - 10:25 am	Coffee Break	
10:25 am - 10:40 am	Subcellular localization of GLP-1R mediates non-canonical cAMP-dependent gene transcription.	Ezgi Karaoglu
10:40 am - 11:10 am	Unraveling the sensing and guanine nucleotide signaling power of pollutants	Martina Schmidt
11:10 am - 11:40 am	Targeting pathological ERK1/2 signalling for different diseases	Kristina Lorenz
11:40 am - 1:00 pm	Lunch	
1:00 pm - 2:45 pm	Poster session II - Meet The Experts	
3:00 pm - 6:00 pm	Andechs, Bowling	
06:30 pm - 07:30	Dinner	
8:00 pm	Posters and Get Together	

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THURSDAY, 19TH SEPTEMBER

TIME	TITLE	PRESENTER
07:30 am - 09:00 am	Breakfast	
09:00 am - 11:30 am	Session 3: Sensory systems Chair: Timo Kopp & Ana Villar-Miyar	
09:00 am - 09:30 am	Non-autonomous protective signaling via exosomes in the inner ear	Lisa Cunningham
09:30 am - 10:00 am	Retina-directed gene therapy: achievements and remaining challenges	Stylios Michalakis
10:00 am - 10:25 am	Coffee Break	
10:25 am - 10:40 am	Non-canonical control of Gai3 by Girdin and Gpsm1 in autophagy	Maximilian Haas
10:40 am - 11:10 am	Mind the Gap! Shadow imaging of brain microanatomy in vivo	Valentin Nägerl
11:10 am - 12:10 pm	Selected poster presentations	
12:10 pm 2:00 pm	Lunch	
2:00 pm - 3:40 pm	Session 4: cGMP and beyond Chair: Aylin Balmes & Ragini Kushwaha	
2:00 pm - 2:25 pm	C-type natriuretic peptide is a critical regulator of angiogenesis and vascular remodelling	Aisah Aubdool
2:25 pm - 2:55 pm	Non-cognate engagement of chemokine receptors by atypical chemokines in cardiovascular disease	Jürgen Bernhagen
2:55 pm - 3:10 pm	Effect of PDE9 inhibitor on an autism mouse model	Morgan Hess
3:10 pm - 3:40 pm	Unraveling the molecular pathomechanisms in PRKG1 variant-associated aortopathies	Friederike Cuello
Closing Remarks, Fare Well and Departure		