# Information

# Committee

### **Scientific Chair**

Prof. Dr. Gabriela Riemekasten Department of Rheumatology University of Lübeck E-Mail: gabriela.riemekasten@uksh.de

Scientific Coordinator Alexander Hackel E-Mail: alexandermaximilian.hackel@uksh.de

# **Call for Abstracts**

Please submit your abstract and present your scientific work. Submission Deadline: July 31, 2022 www.rab-symposium.org/submissions

### Venue and Travel

Media Docks Willy-Brandt-Allee 31 23554 Lübeck, Germany Livestream - online participation Login to the conference portal www.rab-symposium.org/login

Please use the event ticket of Deutsche Bahn or Lübeck Air. www.rab-symposium.org/venue-and-travel

# Registration

Please register on the conference portal for submissions, tickets and other features. The fee for in-person participation includes a nominal fee. Online participation is free, but needs registrations as well. www.rab-symposium.org/registration

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**Prof. Dr. Yehuda Shoenfeld** Tel Aviv, Israel

Lübeck, Germany

Prof. Dr. Gabriela Riemekasten

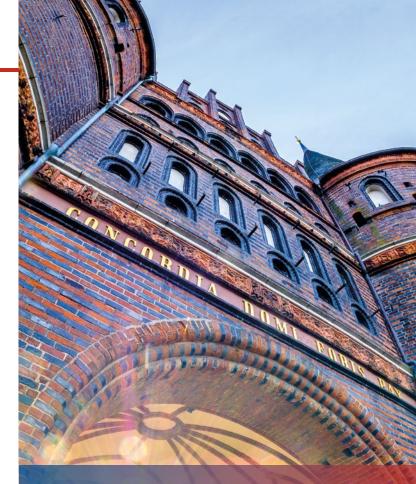


**Prof. Dr. Carmen Scheibenbogen** Berlin, Germany

# Host and Organization

Infinite Science GmbH Maria-Goeppert-Str. 1, 23562 Lübeck info@rab-symposium.org | www.infinite-science.de





# RAB-Symposium Regulatory Autoantibodies Targeting GPCRs

September 15-16, 2022 Lübeck, Germany With optional online participation

# www.rab-symposium.org

**DFG** Deutsche Forschungsgemeinschaft

# Program Friday | Sep 16, 2022

### Dear Sir or Madam, dear Colleagues,

It gives me great pleasure to announce the fourth hybrid symposium on regulatory autoantibodies targeting G protein-coupled receptors (GPCRs) in Lübeck.

GPCRs are involved in a variety of physiological and pathophysiological processes. So far, numerous therapeutics targeting GPCRs have been developed, with a focus on small molecules and monoclonal antibodies for the treatment of cancer, infections, metabolic disorders or inflammatory diseases. Recently, functional autoantibodies targeting GPCRs have been associated with various disease-specific manifestations, highlighting a potential new area for therapeutic intervention. Therefore, the aim of this symposium is to bring together the current knowledge on the role of autoantibodies targeting GPCRs in various diseases, such as cardiovascular diseases, renal diseases, autoimmune diseases such as systemic sclerosis or systemic lupus erythematosus. In addition, one aim is to bring together the mode of action of autoantibodies in immune regulation and pathogenesis.

I hereby cordially invite you to participate in this stimulating symposium with outstanding speakers from the field of GPCR research and fruitful discussions as well as poster sessions. I look forward to welcoming you to the beautiful Hanseatic city of Lübeck and encourage you and your colleagues to contribute to this exciting meeting.



Welcome to the in-person symposium with the option to participate online.

#### Prof. Dr. Gabriela Riemekasten Department of Rheumatology University of Lübeck

### OPENING

09:00 Welcome

### **PROVOCATIVE STATEMENTS**

- 09:05 All diseases are autoimmune diseases · Y. Shoenfeld
- 09:35 All diseases are GPCR abs mediated diseases G. Riemekasten
- 10:05 Coffee break

#### COVID-19 AND NATURAL REGULATORY ABS

- 10:30 Anti-GPCR and acute COVID infection · F.Tran
- 11:00 SARS-Cov-2 v accination and anti-GPCR abs · T. Lange
- 11:30 Role of GPCR abs in Post-COVID syndrome · C. Scheibenbogen
- 12:00 Lunch break
- 13:45 Poster Session

### PROGRESS IN PRECLINICAL MODELS TO MEASURE RAB AB EFFECTS

- 14:30 Animal models · X. Yu
- 15:00 Modification of animal models and GPCR/monoclonal abs F. Petersen
- 15:30 Stroke and anti-GPCR abs · M. Endres

16:00 Coffee break

#### ANTI-GPCR BINDING BIOLOGY

- 16:30 Glycocalix and their interplay with GPCR abs · K. Kusche-Viehrog
- 17:00 Ab binding by measuring the crystal structures of GPCRs P. Scherer
- 17:30 Biology of regulatory abs, insight from bioinformatics O. Cabral Marques
- 18:30 Get together, Networking in the industrial exhibition

#### NATURAL RAB-INDUCED SIGNALLING

09:00	Catalytic antibodies from psychoses condition · K. Sivasankaran
09:30	What comes after ab binding? How to go beyond the cell surface? E. Kostenis
10:00	Signalling of GPCR abs in different cellular models · R. Catar
10:30	Ab-induced proteome · H. Grasshoff
11:00	Coffee break
THERA	γ
11:30	Aptamer BQ007, a novel therapeutic agent? · B. Hohenberger
12:00	Interacting with GPCR by peptides · J. Bernhagen
12:30	Lunch and Postersession
FIBRON	IYALGIA AND ME/CSF AS ANOTHER CHALLENGE
14:00	Fibromyalgia: ab-mediated pathogenesis · C. I. Svensson
14:30	GPCR abs and influencing factors: Learning from a study on fibromyalgia syndrome · H. Graßhoff
15:00	Role of GPCR abs in chronic fatigue syndrome · F. Sotzny
15:30	Coffee break
NEW P	ATHOGENESIS INSIGHTS FROM SSC
16:00	GPCR abs in systemic sclerosis · S. Schinke
16:30	t.b.d.
17:00	GPCR abs and EVs in SSc - the bad boys affecting immune cell functions · A. Hackel
LECTUR	E
17:30	EVs and antibody-interactions · D. Pisetzky
<b>WHAT</b> A	ARE THE NEXT STEPS, HOW TO PROCEED?
18:15	General discussion