

## Speakers / Sponsors

### Speakers

Michael Adu-Gyamfi, Berlin  
 Reza Akbarzadeh, Lübeck  
 Miroslav Banasik, Wroclaw, Poland  
 Otavio Cabral Marques, São Paulo, Brazil  
 Matthias Endres, Berlin  
 Konstantinos Fourlakis, Lübeck  
 Hanna Graßhoff, Lübeck  
 Alexander Hackel, Lübeck  
 Aiden Haghikia, Magdeburg  
 Markus Hoffmann, Lübeck  
 Maj Jäpel, Lübeck  
 Sebastian Klapa, Lübeck  
 Afsaneh Mehrpouyan  
 Guido Moll, Berlin  
 Frank Mooren, Witten-Herdecke  
 Friedemann Paul, Berlin  
 Gabriela Riemekasten, Lübeck  
 Thomas Sakmar, New York, USA  
 Yehuda Shoenfeld, Tel Aviv, Israel  
 Carmen Scheibenbogen, Berlin  
 Susanne Schinke, Lübeck #  
 Franziska Sotzny, Berlin  
 Dmitry Veprintsev, Nottingham, United Kingdom  
 Pinchao Wang, Berlin  
 Jacqueline Wax, Borstel  
 Maike Winziers, Lübeck  
 Torsten Witte, Hannover  
 Xinhua Yu, Borstel

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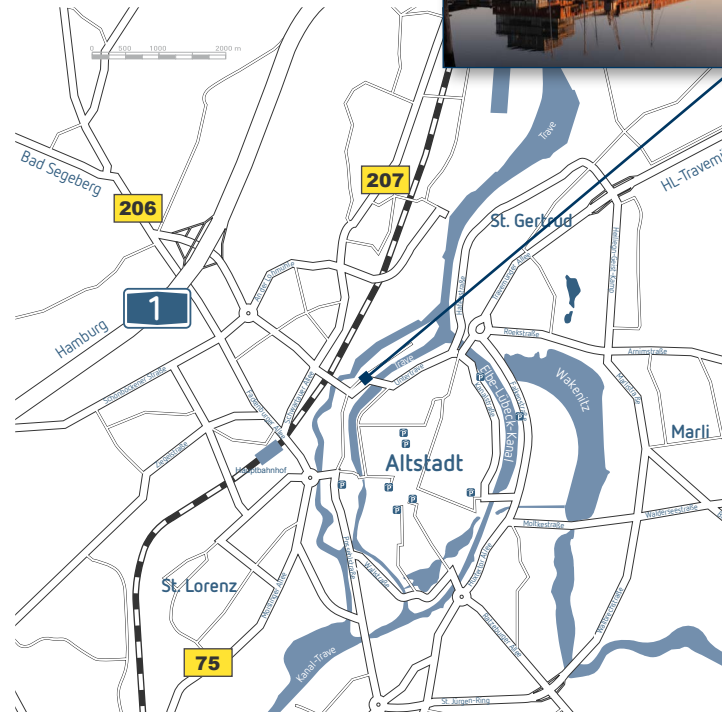
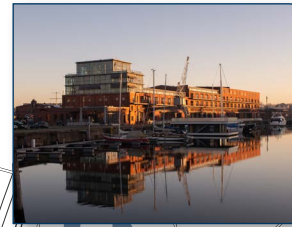


**Registration**  
 For further information  
[www.rabsymposium.de](http://www.rabsymposium.de)

<https://www.rabsymposium.de/registration.html>

### Venue

Media Docks Lübeck  
 Willy-Brandt-Allee 31, (entrance B)  
 23554 Lübeck



Wissen schafft Gesundheit

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Campus Lübeck

Dept. of Rheumatology  
 and Clinical Immunology



**5<sup>th</sup> International Symposium  
 on Regulatory Autoantibodies**

September, 26–27, 2024 - Media Docks Lübeck

Titelbild: Adobe Stock ©Ulus; Stabsstelle Integrierte Kommunikation, J. Hahnefeld, Stand September 2024.

# Welcome

Dear Sirs and Madams, dear Colleagues,

It is with great pleasure that I extend this invitation to you for the fifth hybrid symposium on regulatory autoantibodies targeting G-protein-coupled receptors (GPCRs) in Lübeck.

As key regulators in physiological and pathophysiological processes, GPCRs have garnered significant attention, particularly due to the emergence of autoantibodies targeting them. These antibodies play crucial roles in modulating GPCR signaling and regulating inflammation, making them potential game-changers in human biology and pathophysiology.

I warmly invite you to join us for this engaging symposium, featuring distinguished speakers in the field of GPCR research, stimulating discussions, and enlightening poster sessions.

For those joining us in person, our venue at the Media Docks Lübeck offers a captivating blend of modern amenities and historic charm, situated conveniently close to the city center. It promises an ideal setting for networking amidst the scenic waterfront and industrial heritage.

I eagerly anticipate welcoming you to the picturesque city of Lübeck and encourage you and your colleagues to contribute to this dynamic meeting.

Welcome to the symposium, where you can participate both in person and online



Yours Prof. Dr. med. Gabriela Riemekasten

Die Veranstaltung wurde von der Ärztekammer SH mit 6 Fortbildungspunkten der Kategorie A anerkannt.

# Program

## Thursday, September 26<sup>th</sup>

Time	Topic
9:00	Desk opening
10:00	Welcome address T. Münte
10:15	Current concepts in the development of autoimmune diseases Y. Shoenfeld
	5 <sup>th</sup> anniversary RAB: "Challenges in GPCR ab research: from bio-marker research to precision medicine G. Riemekasten
11:25	Coffee Break
11:55	Session: Regulation of Chronic Inflammation Chair: G. Moll
11:55	AT1R ab-mediated inflammatory processes leading to Interstitial Lung Disease and Pulmonary Arterial Hypertension X. Yu
12:15	Identification of novel functional autoantibodies associated with systemic sclerosis X. Yu, J. Wax
12:25	GPCR abs correlations: lessons from systemic sclerosis and its vascular and fibrotic complications S. Schinke
12:45	Age-associated dynamics of the autoantibodyome: a way to stay old and healthy O. Cabral Marques
13:05	Lunch and Posterwalk
14:05	Session: RABs in Neuroimmunology Chair: G. Riemekasten
14:05	New insights of RABs in myalgic encephalomyelitis / chronic fatigue syndrome (ME/CFS and post Covid syndrome.) C. Scheibenbogen
14:25	EBV-reactive antibodies crossreact with GPCR and other autoantigens in ME/CFS and post Covid syndrome F. Sotzny
14:45	Autoimmune neuroinflammation – pathogenic and regulatory autoantibodies F. Paul
15:05	Phenotypes of autonomic dysfunction in post-COVID syndrome can be related to signatures of regulatory autoantibodies F.C. Mooren
15:35	Coffee Break
15:55	Session: Inside Antibody-Induced Cellular Functions Chair: M. Banasik
15:55	GPCR abs and ligand induced-receptor activation: measuring the interplay between ligand and abs D. Veprintsev
16:25	Antibody-mediated immune cell-endothelium cross-talk in autoimmune diseases R. Akbarzadeh
16:45	„Unexpected impacts of IL-6 on development of pulmonary occlusive vasculopathy in an AT1R-induced mouse model of SSc A. Mehrpouyan
16:55	RABs targeting glycocalyx in systemic sclerosis M. Jäpel
16:55	Vasculitis pathogenesis driven by regulatory antibodies: insights from AAV, GCA, and EGPA S. Klapa
17:25	Closing

## Friday, September 27<sup>th</sup>

Time	Topic
9:00	Desk opening
10:00	Session: RABs as Precision Biomarker in Immunity, and Transplantation Chair: A. Müller
10:00	Immunogenicity of selective GPCR abs T. Sakmar
10:30	Autoantibodies in transplantation G. Moll
11:00	Regulatory autoantibodies targeting GPCRs in transplant rejection and glomerulonephritis M. Banasik
11:20	Endothelin-1 directed RABs in systemic sclerosis P. Wang
11:40	Coffee Break
12:10	Session: insights beyond Anti-GPCR as biomarker Chair: T. Sakmar
12:10	PAR2 abs and other GPCR abs as predictors in ischemic Stroke M. Endres
12:30	Antibodies against muscarinic receptors in Sjögren's Syndrome T. Witte
12:50	RABs in chronic inflammation and as predictors of therapy in psoriatic arthritis and inflammatory bowel disease H. Graßhoff
13:10	Calcium-sensing-receptor (CASR)-specific autoantibodies M. Adu-Gyamfi
13:20	Gut dysmotility through GPCR abs in systemic sclerosis K. Fourlakis
13:30	Lunch and Poster Session
14:30	Session: Complexity of RABs and Vesicles Chair: F. Sotzny
14:30	RABs and exosomes in rheumatoid arthritis: from tissue priming to tissue damage M. Hoffmann
14:50	Revised insights into exosome characteristics in systemic sclerosis M. Winziers
15:10	Axis of trouble: AT1R, AT1R-abs and AT1R-EVs in scleroderma-associated interstitial lung disease A. Hackel
15:25	Coffee Break
15:55	Session: Therapeutic Targeting Chair: Y. Shoenfeld
15:55	Autoantibody targeting in post Covid and ME/CFS: from immunoadsorption to B cell depletion. C. Scheibenbogen
	Emerging potential of CAR-T Cell therapy in Neurology A. Haghikia
16:45	Closing Remarks G. Riemekasten

