



## CRC 1213 Retreat

12 – 13 July 2022

Collaborative Research Center Pulmonary Hypertension and Cor Pulmonale

SFB 1213 Sonderforschungsbereich Pulmonale Hypertonie und Cor pulmonale



at Schlosshotel Weilburg

For each project: **15 min** of presentation and **10 min** of discussion.

There will be a “round table discussion” at the end of each session with all leaders of the projects presented.

<b>TUESDAY, 12 JULY</b>		
<b>Time</b>	<b>Duration</b>	<b>Meeting / Presentation</b>
09:00	30 min.	Registration and welcome coffee
09:30	15 min.	Introduction
<b>Session 1      Chairs: Norbert Weißmann / Thomas Braun</b>		
09:45	25 min.	Thomas Braun / Saverio Bellusci: A02 – Deciphering the role of BMP9-BMP10 and YAP-TEAD signaling in vascular smooth muscle heterogeneity and pulmonary hypertension
10:10	25 min.	Saverio Bellusci / Elie El Agha: A04 – Origin and fate of vascular myofibroblasts and smooth muscle cells during pulmonary vascular remodeling and reverse remodeling
10:35	25 min.	Sven Reischauer / Didier Y. R. Stainier: B01 – Analysis of ventricular hypertrophy under physiological and pathological conditions in the zebrafish model
11:00	15 min.	Round table discussion
11:15	30 min.	Coffee break
<b>Session 2      Chairs: Ralph Schermuly / Susanne Rohrbach</b>		
11:45	25 min.	Natascha Sommer / Norbert Weißmann: A06 – Sensing and signaling events underlying development and recovery of hypoxia-induced pulmonary hypertension
12:10	25 min.	Rainer Schulz / Klaus-Dieter Schlüter: B05 – Importance of mitochondrial ROS and substrate metabolism for the development and progression of right heart failure
12:35	15 min.	Round table discussion
12:50	60 min.	Lunch break
<b>Session 3      Chairs: Natascha Sommer / Soni Savai-Pullamsetti</b>		
13:50	25 min.	Soni Savai-Pullamsetti: A01 – FoxO transcription factors in PH: critical integrators of multiple signaling pathways driving pulmonary vascular and right ventricular remodeling
14:15	25 min.	Norbert Weißmann: A07 – iNOS-and NoxO1-based redox signaling in COPD-associated PH – pathomechanisms and therapeutic exploitation
14:40	15 min.	Round table discussion

14:55	30 min.	Coffee break
15:25	25 min.	Christian Hamm / Oliver Dörr: B07 – Selective biomarkers for right heart hypertrophy and failure
15:50	25 min.	Christoph Liebetrau / Eckhard Mayer / Peter Dorf Müller: CP01 – Biobank of human right ventricular tissue, lung and blood specimens from CTEPH patients
16:15	15 min.	Round table discussion
16:30	10 min.	Christine Veith-Berger – Data storage
17:00*	Steering Board meeting – *only for members	Scientific Advisory board – *only for members
19:00*	Dinner – * for overnight participants	
<b>WEDNESDAY, 13 JULY</b>		
08:30	30 min.	Registration and welcome coffee
<b>Session 4      Chairs: H. Ardeschir Ghofrani / Lienhard Schmitz</b>		
09:00	25 min.	Soni Savai-Pullamsetti / Uta-Maria Bauer: A05 – Regulatory network of histone modifications in human pulmonary arterial hypertension
09:25	25 min.	Thomas Braun / Xuejun Yuan: B02 – Epigenetic control of pulmonary vessels and the right heart in development and disease: the role of Suv4-20h1
09:50	25 min.	Susanne Rohrbach / Michael Kracht / Lienhard Schmitz: B03 – Changes in chromatin organization and protein networks in right heart failure
10:15	15 min.	Round table discussion
10:30	30 min	Coffee break
<b>Session 5      Chairs: Oliver Dörr/ Elie El Agha</b>		
11:00	25 min.	Ralph Schermuly / Tatyana Novoyatleva: B04 – The role of HIF-1 and its regulators p53 and Smyd2 in right ventricular hypertrophy and failure
11:25	25 min.	Rajkumar Savai / Natascha Sommer: A10N Inflammatory lung microenvironment in lung cancer-associated PH – the role of macrophages
11:50	25 min.	H. Ardeschir Ghofrani / Martin Wilkins: A09 – Deep phenotyping combined with genomic, proteomic and metabolomic analyses in Kyrgyz highlanders –association with high altitude adaptation
12:15	15 min.	Round table discussion
12:30	60 min.	Lunch
<b>Session 6      Chairs: Birgit Aßmus / Klaus-Dieter Schlüter</b>		
13:30	25 min.	Ralph Schermuly / Friedrich Grimminger: A08 – Kinase signaling driving “pseudo-malignant” lung vascular remodeling –therapeutic exploitation
13:55	25 min.	H. Ardeschir Ghofrani / Khodr Tello: B08 – Right Ventricular (RV) function in Pulmonary Hypertension and impact of targeted interventions on RV-PA (Pulmonary Artery) coupling
14:20	30 min.	Coffee break
14:50	25 min.	Birgit Aßmus: B09N – Mechanisms of pulmonary vascular and right ventricular remodeling in heart failure with preserved ejection fraction
15:15	25 min.	Baktybek Kojonazarov: CP02 – Phenotyping of pulmonary hypertension and cor pulmonale
15:40	15 min.	Round table discussion
15:55	10 min.	Conclusions, goodbye and departure

16:20*	Steering Board meeting – *only for members
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## VENUE, ACCOMMODATION & ARRIVAL

Schlosshotel, Langgasse 25, Am Schloss, 35871 Weilburg – [www.schlosshotel-weilburg.de](http://www.schlosshotel-weilburg.de)

**Room "Rittersaal", ground floor**

**Arrival:** The easiest is to go by train. You need to get off at the train station *Weilburg* and have a short walk ca 10 minutes to the castle. Please have a look at [www.rmv.de](http://www.rmv.de) for the concrete times.

## REGISTRATION

Obligatory! → at [www.uni-giessen.de/sfb1213](http://www.uni-giessen.de/sfb1213) **Deadline: 24 June, 2022**

## CHILD CARE

Will be provided by the society "Eltern helfen Eltern" ([www.ehe-giessen.de](http://www.ehe-giessen.de)) during the following times:  
12 July: 09:00 - 16:30 and 13 July: 08:30 - 16:30

## CONTACT

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### **CRC Speaker:**

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