

## Conference Office

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## Symposium WLAN

Free WiFi is provided

## Directions/parking

### With public transport:

Lines 16 or 63 in the direction of Bad Godesberg or line 66 in the direction of Bad Honnef. Get off at the UNIVERSITY/ MARKET station.



### Upon arrival at Cologne/Bonn Airport:

With the airport bus S60, get off at the station BONN-MARKT

### By car:

If you arrive by car, we recommend the "Unigarage" (Navi: 53111 Bonn, Stockenstraße)

## Conference Venue

Universitätsclub Bonn e.V.  
Konvikstr. 9  
53113 Bonn



## Speaker's Dinner

All conference speakers and project leaders of the TRR259 are invited: March 23, 8:00 pm



### Nees

In the botanical gardens of the University of Bonn  
Meckenheimer Allee 169  
53115 Bonn

## Social Event

Please register by March 23 at 8:00 p.m. at the latest if you want to participate in the social event on March 24 from 4:45 - 7:30 pm



House of the History of the Federal Republic of Germany  
Museumsmeile  
Willy-Brandt-Allee 14  
53113 Bonn



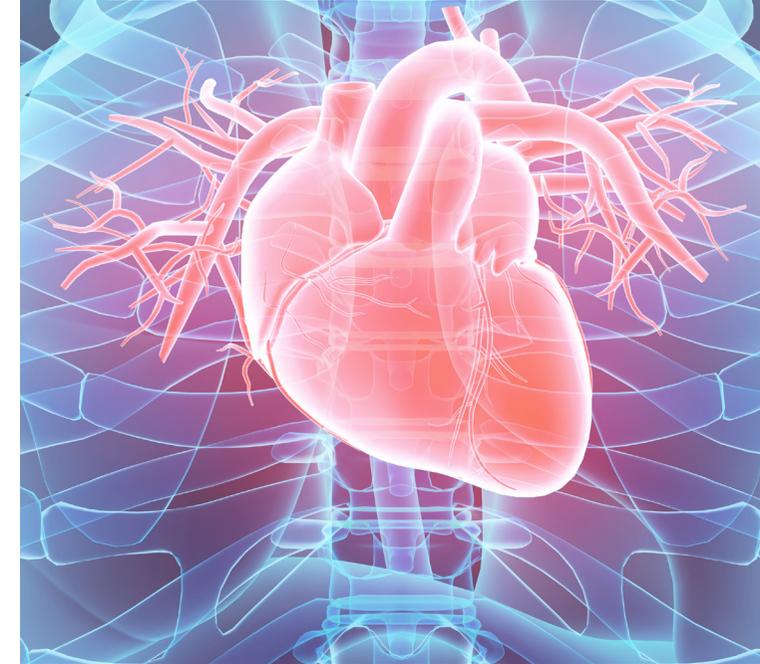
4:45 pm Departure to "House of the History of the Federal Republic of Germany"  
5:30 pm Guided tour of the museum  
7:15 pm Return to the Bonn University Club

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# NEW MECHANISTIC INSIGHTS INTO AORTIC DISEASES

## 3<sup>rd</sup> International Symposium of the TRR259



**March 23 - 25, 2022**  
**Universitätsclub Bonn**



Bonn - Cologne - Düsseldorf

# 3<sup>rd</sup> International Symposium on Aortic Diseases

## New mechanistic insights into aortic diseases

It is a great pleasure to welcome you to our 3<sup>rd</sup> International Symposium on “New mechanistic insights into aortic diseases” which will take place from March 23 – 25, 2022 at the Universitätsclub Bonn. The symposium is hosted by scientists and students of the Collaborative Research Center/Transregio TRR259 to discuss and develop new interactions and strengthen existing ones.

The Symposium will provide an update on the following topics:

- Modulation of extracellular matrix
- Cell characterization and communication
- Immunometabolism
- Immunological mechanisms
- Translation into therapies

We are happy to welcome a number of internationally acclaimed keynote speakers who will cover these topics and connect molecular mechanisms with clinical observations as well as the development of novel treatment strategies. In addition, we will present the most interesting projects from our Collaborative Research Center/Transregio TRR259.

Moreover, the city of Bonn has a rich history both in culture and science and offers a multitude of historic sites to visit during your stay.

We are very grateful to the German Research Foundation for their support of our symposium.

We hope you enjoy your time in Bonn.

**Georg Nickenig**  
Speaker of TRR259  
Bonn

**Malte Kelm**  
Co-Speaker of TRR259  
Düsseldorf

**Stephan Baldus**  
Co-Speaker of TRR259  
Cologne

## Program

### Day 1 Wednesday, March 23, 12 pm - 7 pm

12:00 REGISTRATION  
12:45 Welcome and Highlights of the TRR259  
Prof. Georg Nickenig | University of Bonn

#### 1:00 - 3:30 pm Session I: Modulation of extracellular matrix

*Chairs: Prof. Maria Grandoch, Prof. Gerhard Sengle*

1:00 Epidemiology, outcome and treatment of AA 2022  
Prof. Anders Wanhainen | University of Uppsala  
1:30 Hylauronic acid and endothelial cells  
Prof. Bernard M. van den Berg | LUMC Leiden  
2:00 Molecular mechanisms of AA disease  
Prof. Philip S. Tsao | Stanford University  
2:30 JNK-Targeting nanotherapeutics for elastic matrix regenerative repair in Abdominal Aortic Aneurysms  
Prof. Anand Ramamurthi | Lehigh University  
3:00 Genetic aortic disorders  
Prof. Bart Loeys | University of Antwerp  
3:30 COFFEE BREAK

#### 4:00 - 7:00 pm Session II: Cell characterization and communication

*Chairs: PD Dr. Felix Jansen, Prof. Bernd Fleischmann, Prof. Holger Winkels*

4:00 Epidemiology, outcome and treatment of AS 2022  
Prof. Bernard D. Prendergast | Guy's and St Thomas' NHS Foundation Trust, London  
4:30 Vesicles as a novel approach to induce cardiac repair  
Prof. Joost Sluijter | University of UMC Utrecht  
5:00 Spatial multiomic map of cardiovascular disease  
Prof. Rafael Kramann | RWTH Aachen  
5:30 hiPS models to mimic genetic and complex cardiovascular diseases in vitro  
Prof. Alessandra Moretti | TUM Munich  
6:00 Cellular cross-talk in cardiovascular repair  
Prof. Stefanie Dimmeler | University of Frankfurt  
6:30 Single cell RNAseq and spatial transcriptomics  
PD Dr. Marc Beyer | DZNE Bonn  
8:00 DINNER FOR SPEAKERS AND TRR259 PROJECT LEADERS (NEES)

### Day 2 Thursday, March 24, 9 am - 7 pm

#### 9:00 am - 12:30 pm Session III: Immunometabolism

*Chairs: Prof. Eicke Latz, Prof. Alexander Pfeifer*

9:00 Epigenetics and immunometabolism  
Prof. Musa Mhlanga | Radboud University  
9:30 Obesity and the vascular system  
Prof. Matthias Blüher | HI-MAG, University of Leipzig  
10:00 Role of monocytes in aortic disease  
Prof. Terje Espevik | NTNU  
10:30 COFFEE BREAK

11:00 Mechanisms of metabolic fitness and cardiovascular disease  
Prof. Mark Febbraio | Monash University  
11:30 Mechanisms leading from diabetes to macrovascular disease  
Prof. Michael Roden | DDZ, University of Düsseldorf  
12:00 The lipid-immuno-axis in cardiovascular disease  
Prof. Magnus Bäck | Karolinska Institute  
12:30 LUNCH

#### 1:30 - 3:30 pm Poster Session

#### 3:30 - 4:30 pm Highlights of the TRR259

*Chairs: Prof. Stephan Baldus, Prof. Malte Kelm, Prof. Georg Nickenig*

3:30 Danger, Danger, Danger - Aortic Valve Stenosis  
Prof. Sebastian Zimmer | University of Bonn  
3:50 Dysregulated extracellular signaling pathways in aortic aneurysm formation in Marfan syndrome  
Prof. Gerhard Sengle | University of Cologne  
4:10 Beyond vessel diameters: Comprehensive in vivo characterization of aortic disease by cardiovascular MR  
Prof. Ulrich Flögel | University of Düsseldorf

#### 4:45 - 7:30 pm Social Event

#### 8:00 pm Dinner for all

### Day 3 Friday, March 25, 9 am - 3 pm

#### 9:00 am - 12:00 pm Session IV: Immunological mechanisms

*Chairs: Prof. Norbert Gerdes, Prof. Christian Kurts, Prof. Gunther Hartmann  
Prof. Sebastian Zimmer*

9:00 Trained immunity: relevance for atherosclerosis  
Prof. Niels Riksen | Radboud University  
9:30 CHIP in cardiovascular disease  
Prof. Dominik Wolf | Medical University of Innsbruck  
10:00 Targeting adaptive immunity for treatment of aortic disease  
Prof. Alma Zernecke-Madsen | University of Würzburg  
10:30 COFFEE BREAK  
11:00 Role of RIG-I-like receptors in Singleton-Merten Syndrome  
Prof. Takashi Fujita | Kyoto University  
11:30 Birth, life and death of immune cells in aortic disease  
Prof. Filip Swirski | Mount Sinai  
12:00 LUNCH

#### 1:00 - 2:30 pm Session V: Translation into therapies

*Chairs: Prof. Stephan Baldus, Prof. Malte Kelm, Prof. Georg Nickenig*

1:00 Novel therapies for AA disease  
Prof. Lars Maegdefessel | TUM Munich  
1:30 Bioprosthesis engineering and ex vivo tissue testing  
Prof. Artur Lichtenberg | University of Düsseldorf  
2:00 Inflammation: a treatment target in CAD prevention  
Prof. Christian Weber | LMU Munich  
2:30 CLOSING REMARKS