



## Targets in heart failure treatment

**15.07. – 16.07.2022**

Würzburg

Scientific Management  
Jan Dudek  
Brenda Gerull  
Christoph Maack  
Katrin Streckfuß-Bömeke



**AG12.**  
Kardiomyopathien



**AG13.**  
Myokardiale Funktion  
und Energetik

### Scientific Management

Jan Dudek, Würzburg  
Brenda Gerull, Würzburg  
Christoph Maack, Würzburg  
Katrin Streckfuß-Bömeke, Würzburg

### Speakers

Stefan Anker, Berlin  
Johannes Backs, Heidelberg  
Heiko Bugger, Graz  
Ruping Chen, Würzburg  
Thomas Fischer, Würzburg  
Stefan Frantz, Würzburg  
Anna Frey, Würzburg  
Nazha Hamdani, Bochum  
Ulrich Hofmann, Würzburg  
Matthias Hohl, Homburg/Saar  
Marten van Hoogenhof, Heidelberg  
Rafael Kramann, Aachen  
Arpad Kovacs, Bochum  
Lorenz Lehmann, Heidelberg  
Kristina Lorenz, Würzburg  
Wolfgang Linke, Münster  
Benjamin Meder, Heidelberg  
Steffen Pabel, Regensburg  
Gustavo Ramos, Würzburg  
Susanne Rohrbach, Gießen  
Gabriele Schiatarella, Berlin  
Constanze Schmidt, Heidelberg  
Christian Schulze, Jena  
Simon Sedej, Graz  
Vasco Sequeira, Würzburg  
Samuel Sossalla, Regensburg  
Karl Toischer, Göttingen  
Carsten Tschöpe, Berlin  
Niels Voigt, Göttingen  
Rolf Wachter, Leipzig  
Cordula Wolf, München  
Patapia Zafeiriou, Göttingen  
Laura Zelarayan, Göttingen  
Wolfram Zimmermann, Göttingen

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### Venue

Deutsches Zentrum für Herzinsuffizienz Würzburg  
Am Schwarzenberg 15  
97078 Würzburg

### Registration

Registration until 10.07. under:  
<https://akademie.dgk.org/veranstaltung/page/37961/>

Usually you will receive the confirmation of participation on the next working day.

### Abstracts / Poster

Submission until 27.06.2022

Prizes for the best submissions:  
3 prizes of 500,- EUR each

Requirements:

Title: 250 characters including spaces

Maintext: 3.500 characters including spaces

Please send the abstracts to: [arbeitsgruppen@dgk.org](mailto:arbeitsgruppen@dgk.org)  
Usually, you will receive the confirmation of abstract submission on the next working day.

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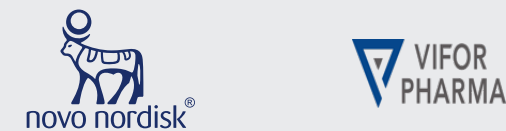
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### Contact DGK

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In cooperation with



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## Foreword

Patients with heart failure often suffer from various comorbidities. To understand the inter-organ crosstalk of heart failure, we will focus on systemic aspects involving neuroendocrine activation, inflammation, and metabolic alterations.

While current treatments predominantly address the imbalance of the neuroendocrine system, the prognosis of heart failure patients remains poor emphasizing the need for the identification and development of novel therapeutic targets for the treatment of HF. In specific sessions, we elucidate on the interfaces between the heart and other organs and highlight therapeutic concepts targeting the immune system and metabolism.

Comorbidities including hypertension, chronic kidney disease, and cancer significantly affect the development of heart failure. We will shed light into the genetic predisposition and their cardiac consequences on contractile and sarcomeres' dysfunction, and the vicious cycle of atrial fibrillation and heart failure. We will discuss first clinical experience with tissue engineered heart repair.

The sessions will cover basic, translational and clinical aspects and will attract young clinicians and scientists to present their innovative research.

By joining forces to organize the DGK/DZHK (German Cardiac Society/ German Center for Cardiovascular Research) myocardial symposium in Würzburg we aim to foster collaborations between leading labs to realize the identification and development of new targets in individualized heart failure treatment.

We are looking forward to the scientific exchange and networking in Würzburg!

**Jan Dudek**  
**Brenda Gerull**  
**Christoph Maack**  
**Katrin Streckfuß-Bömeke**

## Schedule

### Friday, 15.07.2022

09:30 – 10:30 **Strategic meeting WG13**

#### Start of Symposium

10:45 – 11:00 **Welcome address**  
 Katrin Streckfuß-Bömeke, Jan Dudek;  
 Brenda Gerull, Christoph Maack

#### Atrial fibrillation and heart failure: vicious twins?

Chairs: Steffen Pabel, Thomas Fischer

11:00 – 11:20 **The clinical evidence**  
 Rolf Wachter

11:20 – 11:40 **Atrial fibrillation begets ventricular dysfunction**  
 Samuel Sossalla

11:40 – 12:00 **Role of mitochondrial calcium in atrial fibrillation**  
 Niels Voigt

12:00 – 12:20 **Atrial arrhythmopathy and heart failure**  
 Constanze Schmidt

12:20 – 12:40 **Renal denervation prevents atrial fibrillation in chronic kidney disease**  
 Mathias Hohl

12:40 – 13:40 **Lunch & Posters**

#### Therapeutic targets in cardiac metabolism

Chair: Kristina Lorenz, Heiko Bugger

13:40 – 14:00 **SGLT2-inhibitors and GLP1-Agonists in cardiovascular disease**  
 Christoph Maack

14:00 – 14:20 **Mitochondria-lipid crosstalk in the failing heart**  
 Christian Schulze

14:20 – 14:40 **Mitochondria and Aging**  
 Susanne Rohrbach

14:40 – 15:00 **NAD Metabolism in heart failure**  
 Simon Sedej

15:00 – 15:20 **Metabolic rewiring in Barth Syndrome cardiomyopathy**  
 Jan Dudek

15:20 – 17:00 **Posters & Coffee**

#### Inflammation and immunity in heart failure

Chairs: Ulrich Hofmann, Karl Toischer

17:00 – 17:20 **Myocarditis and inflammatory cardiomyopathy**  
 Carsten Tschöpe

17:20 – 17:40 **The Heart promotes Covid-19 disease**  
 Johannes Backs

17:40 – 18:00 **T-cell responses in heart failure**  
 Gustavo Ramos

18:00 – 18:45 **Keynote lecture**  
 Chair: Stefan Frantz  
**Engineered heart tissue:  
 The path to First in man study**  
 Wolfram Zimmermann

19:30 **Evening symposium**

### Saturday, 16.07.2022

#### Sarcomeric diseases and HFpEF

Chairs: Nazha Hamdani, Samuel Sossalla

08:30 – 08:50 **Redox regulation of sarcomeric function in HFpEF**  
 Arpad Kovacs

08:50 – 09:10 **Creatine kinase in HCM**  
 Vasco Sequeira

09:10 – 09:30 **Metabolism in HFpEF**  
 Gabriele Schiatarella

09:30 – 09:50 **Role of titin in HFpEF**  
 Wolfgang Linke

09:50 – 10:10 Coffee Break

## Cardiomyopathies

Chairs: Brenda Gerull, Laura Zelarayan

10:10 – 10:30 **Clinical overview**  
 Benjamin Meder

10:30 – 10:50 **Signaling-targeted therapies in childhood RASopathic cardiomyopathy**  
 Cordula Wolf

10:50 – 11:10 **LEMD2 mutations in arrhythmogenic cardiomyopathy**  
 Ruping Chen

11:10 – 11:30 **Novel pathways in RBM20 cardiomyopathy**  
 Marten van Hoogenhof

11:30 – 11:50 **New insights into polygenetic Takotsubo cardiomyopathy**  
 Katrin Streckfuß-Bömeke

11:50 – 12:10 Coffee Break

#### Heart failure and comorbidities

Chair: Katrin Streckfuß-Bömeke, Anna Frey

12:10 – 12:30 **Advanced cancer is (also) heart failure: A new kind of cardio-oncology**  
 Stefan Anker

12:30 – 12:50 **Modeling Cardiotoxicity of anti-cancer drugs**  
 Lorenz Lehmann

12:50 – 13:10 **Bioengineering of a human autonomically innervated cardiac muscle model**  
 Patapia Zafeiriou

13:10 – 13:30 **Heart and Kidney: Human myofibroblast in kidney and cardiac fibrosis**  
 Rafael Kramann

13:20 – 13:30 **Closing remarks**  
 Nazha Hamdani, Benjamin Meder

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