



DZHK

DEUTSCHES ZENTRUM FÜR  
HERZ-KREISLAUF-FORSCHUNG E.V.



# 7<sup>th</sup> DZHK Retreat

Personalized Cardiovascular  
Medicine

12–14 September 2019

## PROGRAM

# PROGRAM

Day **1**

Thursday, 12 September 2019

## Opening

3:30 PM – 05:00 PM

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03:30– 04:00 *Welcome coffee*

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04:00– 04:15 Thomas Sommer, Tanja Zeller,  
Holger Gerhardt  
Welcome

04:15– 05:00 Thomas Eschenhagen, Hamburg  
DZHK – State of affairs

## Keynote

05:00 PM – 05:45 PM

Chair: Lars Maegdefessel

05:00– 05:45 **Calum MacRae, Harvard Medical School**  
Integrative high-throughput modeling  
to understand the mechanisms of atrial  
fibrillation

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05:45 *Group photo*

06:00– 07:30 *Dinner*

## Young DZHK poster session I

07:30 PM – 09:00 PM

09:00 *Get together*



### 1<sup>st</sup> Session: Personalized cardiovascular medicine I (to be continued on day 3)

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08:30 AM – 10:30 AM

Chairs: Djawid Hashemi, Tobias Petzold

08:30–08:50 Stephan B. Felix, Greifswald  
Immunoabsorption in patients with dilated cardiomyopathy

09:00–09:20 Laura Zelarayan, Göttingen  
CRISPR-mediated activation of endogenous gene expression to restore homeostasis

09:30–09:50 Maximilian Emmert, Berlin  
Next generation regenerative implants to repair the diseased heart

10:00–10:35 Friedrich Luft, Berlin  
Critical view on personalized medicine

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10:45–11:30 *Coffee break*

### 2<sup>nd</sup> Session: Highlight talks from the Young DZHK Retreat

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11:30 AM – 12:30 PM

Chairs: Nadya Al-Wakeel-Marquard,  
Tobias Jakobi

Talks will be selected during the Young DZHK Retreat which takes place prior to the main retreat.

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12:30–02:30 *Lunch break*

### Keynote

02:30 PM – 03:15 PM

Chair: George Kararigas

02:30–03:15 [Leslie Leinwand, University of Colorado](#)  
Pathogenesis and treatment of genetic cardiomyopathies

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03:15–03:45 *Coffee break*

### Team events

04:00 PM – 06:00 PM

04:00–06:00 Team events: Dragon boat or guided city tour

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06:15–07:30 *Dinner*

### Young DZHK poster session II

07:30 PM – 09:00 PM

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**3<sup>rd</sup> Session: DZHK papers of the months 2018  
- flash talks**

08:15 AM – 09:15 AM

Chairs: Nuno Camboa, Eileen Moritz

- 01 Jiong Hu, Frankfurt  
Inhibition of soluble epoxide hydrolase prevents diabetic retinopathy
- 02 Eike Nagel, Frankfurt  
Native T1 and ECV of noninfarcted myocardium and outcome in patients with coronary artery disease
- 03 Anne-Clemence Vion, Nantes  
Primary cilia sensitize endothelial cells to BMP and prevent excessive vascular regression
- 04 Jan Christoph, Göttingen  
Electromechanical vortex filaments during cardiac fibrillation
- 05 Lars Maegdefessel  
H19 induces abdominal aortic aneurysm development and progression
- 06 Richard Schell, Heidelberg  
Inflammation leads through PGE/EP3 signaling to HDAC5/MEF2-dependent transcription in cardiac myocytes
- 07 Carlos Silvestre-Roig, Munich  
Chrono-pharmacological targeting of the CCL2-CCR2 axis ameliorates atherosclerosis
- 08 Andreas Daiber, Mainz  
Crucial role for Nox2 and sleep deprivation in aircraft noise-induced vascular and cerebral oxidative stress, inflammation, and gene regulation
- 09 Friedrich Köhler, Berlin  
Efficacy of telemedical interventional management in patients with heart failure (TIM-HF2): a randomised, controlled, parallel-group, unmasked trial
- 10 Alexander Meyer, Berlin  
Machine learning for real-time prediction of complications in critical care: a retrospective study

- 11 Belal Mohamed, Göttingen  
Sarcoplasmic reticulum calcium leak contributes to arrhythmia but not to heart failure progression
- 12 Hendrik Bartolomaeus, Berlin  
The short-chain fatty acid propionate protects from hypertensive cardiovascular damage

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09:15–09:45 *Coffee break*

#### **4<sup>th</sup> Session: Flash talks on selected abstracts**

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09:45 PM – 10:25 PM

Chairs: Norman Liaw, Anca Remes

- 09:45–09:50 Lukas Cyganek, Göttingen  
Exploring LZTR1-associated Noonan Syndrome in patient-specific and CRISPR corrected iPSC-derived cardiomyocytes
- 09:55–10:00 Jirko Kühnisch, Berlin  
Genetic modelling of PRDM16 associated cardiomyopathy in mice leads to diverse subtypes of heart failure
- 10:05–10:10 Farbod Sedaghat-Hamedani, Heidelberg  
First results of Translational Registry for Cardiomyopathies (TORCH)
- 10:15–10:20 Mariya Kucherenko, Berlin  
Pulmonary arterial stiffening in pulmonary hypertension due to left heart disease

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10:25–11:00 *Coffee break & checking-out of rooms*

#### **5<sup>th</sup> Session: Personalized cardiovascular medicine II**

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11:00 AM – 12:30 PM

Chairs: Michelle Collins, Katharina Scherschel

- 11:00–11:15 Stefanie Dimmeler, Frankfurt  
RNA Therapeutics for Cardiovascular Disease
- 11:20–11:35 Anne Dueck, Munich  
Single cell transcriptomics of coding and non-coding RNA to study cardiovascular disease

11:40–11:55 Timon Seeger, Heidelberg  
iPSC for modeling cardiac disease

12:00–12:15 Arne Hansen, Hamburg  
Phospholamban Arg14del – hiPSC  
disease modelling in the dish

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*12:30 Gerd Hasenfuss and Johannes Backs  
Closing remarks*

*12:40 End of the meeting / take a packed lunch  
from the lobby*

*01:00 Bus departures*

# KEYNOTE SPEAKERS



## Leslie Leinwand

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Leslie Leinwand, PhD is a Molecular, Cellular, and Developmental Biology (MCDB) Distinguished Professor and the Chief Scientific Officer of the BioFrontiers Institute at the University of Colorado Boulder. She received her Bachelor's degree from Cornell University, her PhD from Yale University and did post-doctoral training at Rockefeller University. She joined the faculty at Albert Einstein College of Medicine in New York in 1981 and remained there until moving to Colorado in 1995. She has founded several companies, most recently MyoKardia, Inc. The interests of Dr. Leinwand's laboratory are the genetics and molecular physiology of inherited diseases of the heart and how gender and diet modify the heart.



## Calum MacRae

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Calum MacRae, MD, PhD, is the Vice Chair for Scientific Innovation in the Department of Medicine at Brigham and Women's Hospital in Boston, an Associate Professor of Medicine at Harvard Medical School, a Principal Faculty Member at the Harvard Stem Cell Institute, and an Associate Member at the Broad Institute of Harvard and MIT. MacRae works on the human genetics of cardiac and vascular disease, cardiovascular developmental biology, and drug discovery. He has a longstanding interest in the incorporation of genomics and other large-scale datasets into clinical practice, systematic approaches to the discovery of new translatable phenotypes, and the role of disruptive innovation in refashioning the translational interface. His major clinical focus is the Cardiovascular Clinical Genetics Center, he co-directs the Genomic Medicine Program and he also has established a Next Gen Phenotyping Center at Brigham and Women's Hospital.

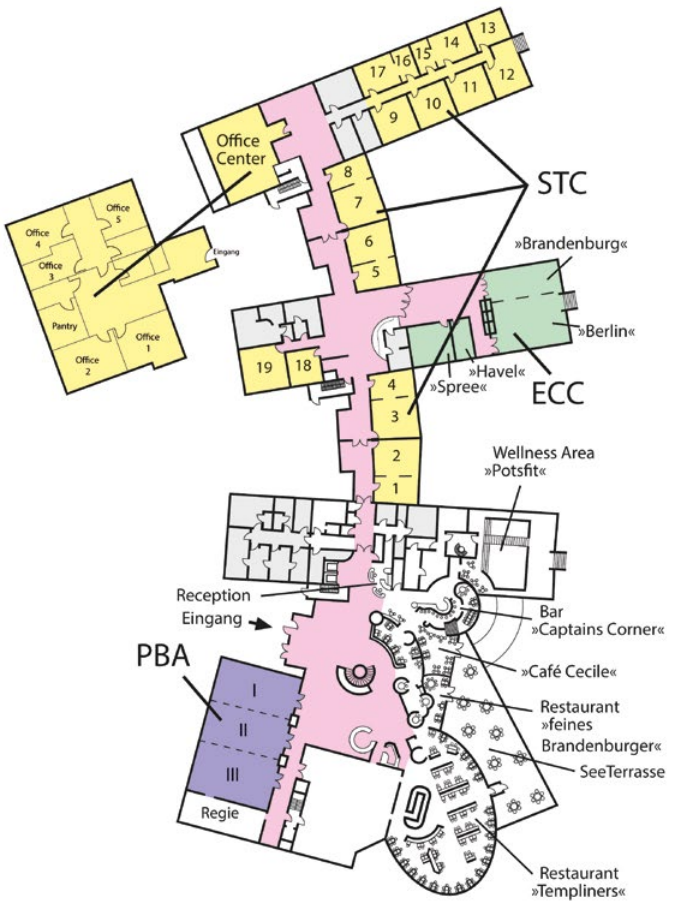
# NOTES



# FLOOR PLAN

## ground floor

- STC = Seminar & Training Center
- ECC = Executive Conference Center
- PBA = Plenary & Banquet Area
- Foyers



## Committee and working group meetings

Thursday, 12 September	Time	Room
Meeting of the DZHK study PIs	08:00 AM–10:00 AM	3–4
Clinical Staff/Study Coordinators	08:00 AM–12:00 PM	1–2
RCC	10:00 AM–11:30 AM	7–8
General Assembly	12:00 PM–02:30 PM	7–8
WGCR	01:00 PM–03:30 PM	1–2
DZHK Partner Site Managers	01:00 PM–03:30 PM	4
DZHK Professors	01:30 PM–03:30 PM	SP*
ECG working group	06:30 PM–07:30 PM	1–2
AI and Imaging project groups	07:30 PM–08:00 PM	1–2

### Friday, 13 September

OMICs	07:00 AM–08:30 AM	3
DZHK Evaluation	01:00 PM–02:30 PM	3
Use & Access Committee	01:30 PM–02:30 PM	SP*

\*Seminarraum Spree

## 7<sup>th</sup> DZHK Retreat

**Date:** 12–14 September 2019

**Venue:** Seminaris SeeHotel Potsdam  
An der Pirschheide 40  
14471 Potsdam

**WiFi access:** User name: SEMINARIS  
Password: POTSDAM

**To submit questions during the sessions you can join at:** [www.slido.com](http://www.slido.com)  
Event code: DZHK7

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