Metabolic Cross-Talks

10:30–12:30

Chairs: S. Doroudgar / T. Eschenhagen

10:30 Andreas Fischer (Heidelberg)
The endothelium-myocyte axis

11:00 Thomas Braun (Bad Nauheim)
Hypoxia signaling and epigenetics in the heart

11:30 Stephan Herzig (Munich)
The cancer-heart axis

12:00 Anja Karlstaedt (Houston, U.S.)
Regulation of cardiac function by onco-metabolites

12:30–14:00 Lunch break

Metabolic Adaptation in the Vascular System

14:00–16:00

Chairs: O. Müller / F. Leuschner

14:00 Peter Carmeliet (Leuven, BE)
Metabolic control of the cell cycle

14:30 Michael Potente (Bad Nauheim)
Regulation of metabolic activity by FOXO

15:00 Ulf Landmesser (Berlin)
HDL and endothelial cells

15:30 Till Althoff (Berlin)
Metabolic plasticity of vascular smooth muscle cells in atherosclerosis

Visit the DZHK Building (INF 669)

16:00–18:00 (Optional)

DZHK-Symposium

Metabolism and Cardiovascular Disease

Topics:
- Energetics
- Lipotoxicity and Lipid Droplet-Associated Signalling
- Intermediate Signaling Pathways of Glucose Metabolism
- Metabolic Cross-Talks between Myocytes and Non-Myocytes
- Metabolic Adaptation in the Vascular System
- Metabolic Therapies for Cardiovascular Disease

Date: 26–27 October, 2017

Venue: Marsilius-Arkaden
Im Neuenheimer Feld 130
69120 Heidelberg

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

ECCPS
Excellence Cluster Cardio-Pulmonary System

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DZHK-Symposium

Metabolism and Cardiovascular Disease

26–27 October 2017

PROGRAM

Dear participants,

we are delighted to welcome you to the DZHK-Symposium “Metabolism and Cardiovascular Disease” in Heidelberg!

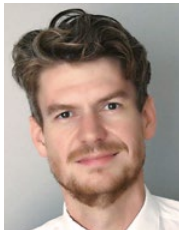
The network for fuel metabolism consists of interacting pathways that result in energy-producing but also non-energy-producing end points. The cardiovascular system is capable of remodeling the metabolic pathways, which results in modulations of cardiovascular function. It is the goal of this meeting to bring together scientists of the DZHK with external experts to discuss different aspects of the complex metabolic framework. Beyond the classical topic of energetics, other sessions will address, lipid-associated signaling, intermediate signaling pathways of glucose metabolism, metabolic cross-talks between myocytes and non-myocytes and metabolic adaptations in the vascular system.

We are looking forward to two exciting days in Heidelberg!

Thank you for your participation.


Michael Potente


Stefanie Dimmeler


Johannes Backs

PROGRAM

Thursday, October 26

11:30–12:45 Registration & Lunch

Welcome

12:45 Welcome by Hugo A. Katus (Speaker of DZHK partner site Heidelberg/Mannheim)

Introductory remarks: Stefanie Dimmeler, Michael Potente & Johannes Backs

Mitochondria & Energetics

13:00–15:00

Chairs: V. Regitz-Zagrosek / B. Meder

13:00 Christoph Maack (Würzburg)
Overview about mitochondrial function in cardiovascular disease

13:30 Patrick Most (Heidelberg)
S100A1: (re)connecting cardiac contractile function with metabolic performance

14:00 Gerald Dorn (St. Louis, U.S.)
Mitophagy in cardiac desease

14:30 Christian Münch (Frankfurt)
The mitochondrial unfolded protein response

15:00–15:30 Coffee break

Lipid Metabolism & Signaling

15:30–17:30

Chairs: S. Engelhardt / M. Völkers

15:30 Ingrid Fleming (Frankfurt)
Lipid mediators

16:00 Steffen Massberg (Munich)
Sphingosine signaling

16:30 Ulrich Kintscher (Berlin)
Lipid Droplet Associated Proteins and cardiac function

17:00 Zegeye Jebessa (Heidelberg)
Epigenetic control by lipid metabolism

Poster Session

17:30–19:00 Poster Session + Coffee

Key Note Lecture

19:00 Eric Verdin (San Francisco)
Metabolism and Epigenetics

20:00 Get together

Friday, October 27

Glucose Metabolism & Side Pathways

8:00–10:00

Chairs: C. Dieterich / G. Hasenfuß

8:00 Heinrich Taegtmayer (Houston, U.S.)
Hyperglycemia and insulin resistance – bad or good for the diabetic heart

8:30 Jaya Krishnan (Frankfurt)
Fructolysis in the Heart

9:00 Gerald W. Hart (Baltimore, U.S.)
Cardiac O-GlcNAcylation

9:30 Lorenz Lehmann (Heidelberg)
Epigenetic control of glucose metabolism

10:00–10:30 Coffee break