

Program
8th Helmholtz Diabetes Conference

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Date: May 10-12, 2021

Online - Munich, Germany

Monday, May 10th

- 12:00-12:20** **Welcome and Opening Remarks**
Stephan Herzig, Martin Hrabě de Angelis and Robert Schneider
Helmholtz Center Munich
- 12:20-12:45** **Opening Keynote Lecture**
Chair: *Stephan Herzig*
- Eleftheria Zeggini**, Helmholtz Center Munich
Next generation association studies of cardiometabolic traits
- 12:45-13:00** *Virtual coffee break*
- 13:00-14:15** **Session 1: Neuronal control of metabolism (1)**
Chairs: *Timo Müller, Natalia Pellegata*
- 13:00-13:25** **Jens Brüning**, MPI for Metabolism Research
Molecular and functional characterization of heterogenous POMC-neuron classes
- 13:25-13:50** **Sadaf Farooqi**, University of Cambridge
The hunger genes – lessons from obesity and thinness
- 13:50-14:15** **Randy Seeley**, University of Michigan
Progress and pitfalls in identifying the molecular mechanisms for the potent effects of bariatric surgery
- 14:15-14:45** *Virtual coffee break*
- 14:45-15:50** **Session 2: Epigenetics and pharmacogenomics**
Chairs: *Annette Peters, Raffaele Teperino*
- 14:45-15:10** **Andrew Pospisilik**, Van Andel Institute
Probabilistic and intergenerational mechanisms of metabolic disease susceptibility
- HeIDI nominees:**
- 15:10-15:20** **Katrin Fischer**, Sanofi
Transcriptional effects of recurrent hypoglycemia in Streptozotocin-induced T1D mice
- 15:20-15:30** **Qi Chen**, University of California
"Sperm RNA code": how many secrets in programming offspring metabolic health
- 15:30-15:40** **Kyle Gaulton**, University of California San Diego
Interpreting diabetes genetics using single cell epigenomics
- 15:40-15:50** HeIDI discussion round
- 15:50-16:20** *Virtual coffee break*

May 10-12, 2021

Program
8th Helmholtz Diabetes Conference

16:20-17:40

Session 3: Adipose tissue

Chairs: *Siegfried Ussar, Anja Zeigerer*

16:20-16:45

Philipp Scherer, University of Texas Southwestern
Adipose tissue – Therapeutic target for diabetes and beyond

16:45-17:10

Andreas Stahl, University of California Berkeley
Organ-on-a-Chip Solutions for Diabetes Research

HeIDI nominees:

17:10-17:20

Qiong (Annabel) Wang, City of Hope National Medical Center
Adipose Tissue Remodeling and Cellular Heterogeneity

17:20-17:30

Jang Cholsoon, University of California Irvine
The landscape of temperature-dependent glucose usage by brown fat in vivo

17:30-17:40

HeIDI discussion round

Tuesday, May 11th

11:00-11:50

Session 4: Genetics of type 1 diabetes

Chairs: *Anette Ziegler, Mostafa Bakhti*

11:00-11:25

John A. Todd, University of Oxford
How has genetics helped us approach prevention of type 1 diabetes?

HeIDI nominees:

11:25-11:35

Elisa De Franco, University of Exeter
Using gene discovery to understand human beta-cells development and function

11:35-11:45

Irina Stefana, University of Oxford
Cytoplasmic versus nuclear hyperphosphorylated Tau in ageing and diabetes

11:45-11:55

HeIDI discussion round

11:55-13:00

Virtual lunch break

13:00-13:55

Session 5: Cell Metabolism, Diabetes and Cancer

Chairs: *Mauricio Berriel-Diaz, Fabiana Perocchi*

13:00-13:25

Kathryn Wellen, University of Pennsylvania
TBD

HeIDI nominees:

13:25-13:35

Maria Rohm, Helmholtz Zentrum München
How fat talks - the role of lipids in cancer and metabolic disease

13:35-13:45

Edward T. Chouchani, Harvard Medical School
The homeostatic succinate circuit: a systemic sensor for energetic adaptation

13:45-13:55

HeIDI discussion round

Program
8th Helmholtz Diabetes Conference

- 13:55-14:30** *Virtual coffee break*
- 14:30-15:25** ***Session 6: Neuronal control of metabolism (2)***
Chairs: *Sonja Schriever, Natalie Kraemer*
- 14:30-14:55 **Jeffrey Friedman**, Rockefeller University
TBD
- HeIDI nominees:**
- 14:55-15:05 Lisa Beutler, Northwestern University
Long-lasting modulation of gut-brain communication underlying obesity
- 15:05-15:15 Sophie Stecutorum, MPI for Metabolism Research
Programming sensory regulation of metabolism
- 15:15-15:25 HeIDI Discussion
- 15:25-16:00** *Virtual coffee break*
- 16:00-16:55** ***Session 7: Lipid homeostasis and insulin secretion***
Chairs: *Henrik Semb, Ingo Bartscher*
- 16:00-16:25 **Ronald Evans**, Salk Institute
TBD
- HeIDI nominees:**
- 16:25-16:35 Bengt-Frederik Belgardt, German Diabetes Center
The role of sphingolipids in insulin secretion and diabetic beta cell dysfunction
- 16:35-16:45 Katrin Svensson, Stanford University
Hormone discovery: control of glucose and lipid homeostasis through insulin-independent pathways
- 16:45-16:55 HeIDI discussion round
- 16:55-17:30** *Virtual coffee Break*
- 17:30-18:30** Flash Talk Presentations sponsored by ***Molecular Metabolism***

Wednesday, May 12th

- 12:00-13:15** ***Session 8: Genetics of Diabetes***
Chairs: *Alberto Cebrian Serrano, Martin Hrabě de Angelis*
- 12:00-12:25 **Sir Stephen O’Rahilly**, University of Cambridge
How does the brain sense the health and nutritional state of the body; some new insights
- 12:25-12:50 **Andrew Hattersley**, University of Exeter Medical School
TBD
- 12:50-13:15 **Mitch Lazar**, University of Pennsylvania
TBD

Program
8th Helmholtz Diabetes Conference

- 13:15-14:00** *Virtual lunch break*
- 14:00-15:15** **Session 9: Epigenetics of Diabetes**
Chairs: *Robert Schneider, Daphne Cagianca*
- 14:00-14:25 **Romain Barrès**, University of Copenhagen
TBD
- 14:25-14:50 **Sarah Kimmins**, McGill University
TBD
- 14:50-15:15 **Oliver Rando**, University of Massachusetts Medical School
TBD
- 15:15-15:45** *Virtual coffee break*
- 15:45-17:00** **Session 10: Hormone action**
Chairs: *Kenneth Dyar, Henriette Uhlenhaut*
- 15:45-16:10 **C. Ronald Kahn**, Harvard Medical School
Defining the cellular and molecular basis of insulin resistance in human type 2 diabetes using a disease-in-a-dish model
- 16:10-16:35 **Dan Drucker**, University of Toronto
GLP-1 action – From where and how?
- 16:35-17:00 **Hei Suk Sul**, University of California Berkeley
TBD
- 17:00-17:30** *Virtual coffee break*
- 17:30-18:00** **The Helmholtz Diabetes Lecture**
Chair: *Heiko Lickert*
- Susan Bonner-Weir**, Harvard University
The ever changing beta cell
- 18:00-18:05** **HelDi Award Presentation**
- 18:05-18:10** **Helmholtz Best Abstract Prize Presentation**
- 18:10-18:15** **Closing Remarks**
- 18:15** **End of Conference**

2021 Confirmed speakers Romain Barrès, University of Copenhagen, Susan Bonner-Weir, Harvard University, Jens Brüning, MPI for Metabolism Research, Dan Drucker, University of Toronto, Ronald Evans, Salk Institute, Sadaf Farooqi, University of Cambridge, Jeffrey Friedman, Rockefeller University, Andrew Hattersley, University of Exeter Medical School, C. Ronald Kahn, Harvard Medical School, Sarah Kimmins, McGill University, Mitch Lazar, University of Pennsylvania, Sir Stephen O’Rahilly, University of Cambridge, Andrew Pospisilik, Van Andel Institute, Oliver Rando, University of Massachusetts Medical School, Philipp Scherer, University of Texas Southwestern, Randy Seeley, University of Michigan, Andreas Stahl, University of California Berkeley, Hei Suk Sul, University

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of California Berkeley, **John A. Todd**, University of Oxford, **Kathryn Wellen**, University of Pennsylvania, **Eleftheria Zeggini**, Helmholtz Center Munich.

2021 HelDI Award Nominees **Bengt-Frederik Belgardt**, German Diabetes Center, **Lisa Beutler**, Northwestern University, **Qi Chen**, University of California, **Edward T. Chouchani**, Harvard Medical School, **Jang Cholsoon**, University of California Irvine, **Elisa De Franco**, University of Exeter, **Katrin Fischer**, Sanofi, **Kyle Gaulton**, University of California San Diego, **Maria Rohm**, Helmholtz Center Munich, **Sophie Stecutorum**, MPI for Metabolism Research, **Irina Stefana**, University of Oxford, **Katrin Svensson**, Stanford University, **Qiong (Annabel) Wang**, City of Hope National Medical Center