

Program
7th Helmholtz Diabetes Conference

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Date: September 23-25, 2019

Location: Lenbach Palais, Ottostraße 6, 80333 Munich, Germany

Monday, September 23

10:30-13:00 Registration

13:00-13:15 *Welcome and Opening Remarks*
Stephan Herzig, *Helmholtz Zentrum München*
& Celeste Simon, *University of Pennsylvania*

13:15-13:45 *Opening Keynote Lecture*
Chair: Stephan Herzig

Vasilis Ntziachristos, Helmholtz Center Munich

13:45-15:15 *Session 1: Systemic Metabolic Control*
Chairs: Timo Müller and Jens Brüning

13:45-14:15 **Christian Wolfrum, ETH Zurich**
Adipose Tissue Plasticity in Regulating Metabolic Health

14:15-14:45 **Sir Stephen O’Rahilly, University of Cambridge**
Explorations in Human Metabolic Disease

14:45-15:15 **David Mangelsdorf, University of Texas Southwestern**
FGF21 and Metabolism: Eat, Drink, but Don’t be Too Merry

15:15-15:45 Break

15:45-17:15 *Session 2: Cancer Metabolism*
Chairs: *Maria Rohm and Marcus Conrad*

15:45-16:15 **Celeste Simon, University of Pennsylvania**
Inflammation, Metabolism, and the Tumor Microenvironment

16:15-16:45 **Mauricio Berriel Diaz, Helmholtz Center Munich**
Control of Systemic Metabolism in Cancer

16:45-17:00 Benjamin Hopkins, *Mt. Sinai School of Medicine*
Targeting Insulin in Cancer Therapy

17:00-17:15 Thales Papagiannakopoulos, *NYU Medical Center*
Uncovering Metabolic Bottlenecks in Lung Cancer

17:15-17:45 Break

17:45-19:15 *Session 3: Immuno-Metabolism*
Chairs: *Carolin Daniel and Michele Solimena*

17:45-18:15 **Marcia Haigis, Harvard Medical School**
Dissecting Metabolism in the Tumor Microenvironment

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- 18:15-18:45 **Nicolas Venteclef, UPMC Sorbonne Universités**
Transcriptional Control of Macrophage Polarization in Type 2 Diabetes
- 18:45-19:00 Alexander Bartelt, *Ludwig Maximilians University Munich*
Proteasomal protein quality control and cardiometabolic health
- 19:00-19:15 Elise Dalmas, *INSERM Paris*
Does immunity regulate insulin secretion in physiology ?
- 19:30-22:30 Opening Reception (for all conference attendees)

Tuesday, September 24

- 08:00-08:30 Coffee
- 08:30-10:00** ***Session 4: Diabetes and Cancer***
Chairs: Götz Hartleben and Annette Peters
- 08:30-09:00 **Lewis Cantley, Weill Cornell Medical College**
PI 3-Kinase: Connecting Insulin and Cancer
- 09:00-09:30 **Almut Schulze, University of Würzburg**
TBA
- 09:30-09:45 Kivanc Birsoy, *Rockefeller University*
Systematic Approaches to Study Cancer Cell Metabolism
- 09:45-10:00 Lydia Finley, *Memorial Sloan Kettering Cancer Center*
Metabolic Coordination of Pancreatic Cancer Cell Fate
- 10:00-10:30** Break
- 10:30-12:00** ***Session 5: Hormone Action***
Chairs: Heiko Lickert and Anette Ziegler
- 10:30-11:00 **David Savage, University of Cambridge**
Lipodystrophic Insights into Human Insulin Resistance
- 11:00-11:15 Julie Sneddon, *University of California San Francisco*
TBA
- 11:15-11:30 Jakob Knudsen, *University of Oxford*
Glucagon Secretion - is it a Matter of Fat?
- 11:30-11:45 Utpal Pajvani, *Columbia University*
The Metabolic and Neoplastic Consequences of Reactivated Liver Notch Signaling in Obesity
- 11:45-12:00 Pedro Moraes-Vieira, *University of Campinas*
Immunometabolic Regulation of Adipose Tissue
- 12:00-14:00** Lunch/Break and Poster Presentations
- 13:00-14:00** Flash Talk Presentations sponsored by ***Molecular Metabolism***

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- 14:00-15:30** **Session 6: Cellular Metabolism**
Chairs: Henrik Semb and Andreas Birkenfeld
- 14:00-14:30 **Bruce Spiegelman, Harvard University**
TBA
- 14:30-14:45 Anja Zeigerer, *Helmholtz Center Munich*
Coupling Intracellular Trafficking to Metabolic Control
- 14:45-15:00 Will Holland, *University of Texas Southwestern*
Targeting Ceramides to Blunt Glucagon Overproduction and Hyperglycemia
- 15:00-15:15 Pedro Friedmann Angeli, *Rudolf-Virchow-Zentrum Würzburg*
Metabolic Control of Ferroptotic Cell Death
- 15:15-15:30 Jihye Yun, *Baylor College of Medicine*
High-Fructose Corn Syrup Enhances Intestinal Tumor Growth
- 15:30-16:00** Break
- 16:00-17:00** **Session 7: Genomics and Metabolic Control**
Chairs: Martin Hrabe de Angelis and Robert Schneider
- 16:00-16:30 **Susanne Mandrup, University of Southern Denmark**
Adipose Tissue Plasticity in Obesity
- 16:30-16:45 Edward Chouchani, *Harvard Medical School*
Mechanisms of Mitochondrial Redox Control over Thermogenic Adipose Tissue Function
- 16:45-17:00 Zach Gerhart-Hines, *University of Copenhagen*
Non-Canonical Signaling Pathways Controlling Adipose Thermogenesis
- 17:00-17:15 Jonathan Campbell, *Duke University*
A Revisionist Look at Glucagon
- 17:15-17:45** Break
- 17:45-18:30** **Session 8: Neuroendocrine Control**
Chairs: Paul Pfluger and Martin Heni
- 17:45-18:15 **Lora Heisler, University of Aberdeen**
5-HT Circuits Modulating Energy Expenditure
- 18:15-18:30 Cristina García Cacéres, *Helmholtz Zentrum München*
Emerging Role of Astrocytes in Metabolic Control
- 19:00-21:00** Speaker's Dinner
Munich city tours (optional event for conference attendees)
- 21:30 Special performance by The Sugar Daddies (Open to everyone)

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Wednesday, September 25

- 08:30-09:00 Coffee
- 09:00-10:00** **Session 9: Diet and Metabolism**
Chairs: Michael Roden and Annette Schürmann
- 09:00-09:30 **Valter Longo, University of Southern California**
Periodic Fasting Mimicking Diets, Diabetes, and Pancreatic Regeneration
- 09:30-10:00 **Juleen Zierath, Karolinska Institute**
Interplay between Diet, Exercise and the Molecular Circadian Clock in Orchestrating Metabolic Adaptations
- 10:00-10:30** Break
- 10:30-12:00** **Session 10: Nutrient Handling in Cancer and Metabolism**
Chairs: Natalia Pellegata and Hans Häring
- 10:30-11:00 **Matthew Vander Heiden, Massachusetts Institute of Technology**
Metabolic Limitations for Cell Proliferation
- 11:00-11:30 **Karen Vousden, The Francis Crick Institute**
Nutrient Handling and Oncogenic Signaling
- 11:30-12:00 **Kathryn Wellen, University of Pennsylvania**
Acetyl-CoA Metabolism and the Response to Dietary Sugar
- 12:00-13:00** Lunch
- 13:00-15:00** **Session 11: Lipid Signaling and Adipose Tissue**
Chairs: Matthias Blüher and Siegfried Ussar
- 13:00-13:30 **Barbara Kahn, Harvard University**
Fatty Acid Signaling
- 13:30-14:00 **Jeffrey Friedman, Rockefeller University**
Leptin and the Central Control of Thermogenesis and Metabolism
- 14:00-14:30 **Philipp Scherer, University of Texas Southwestern**
Adipokine Action: A Coordinated Effort of the Adipocyte to Achieve Maximal Benefit
- 14:30-15:00** Break
- 15:00-15:45** **The Helmholtz Diabetes Lecture**
Chair: Adriano Maida
- Dan Drucker, University of Toronto**
GLP1: From Discovery to Therapy
- 15:45-15:50** **HelDi Award Presentation**
- 15:50-15:55** **Helmholtz Best Abstract Prize Presentation**

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15:55-16:00 *Closing Remarks*

2019 Confirmed speakers **Mauricio Berriel Diaz**, Helmholtz Zentrum München, **Lewis Cantley**, Weill Cornell Medical College, **Dan Drucker**, Univ. of Toronto, **Jeffrey Friedman**, Rockefeller University, **Marcia Haigis**, Harvard Medical School, **Lora Heisler**, Univ. of Aberdeen, **Barbara Kahn**, Harvard University, **Valter Longo**, Univ. of Southern California, **Susanne Mandrup**, Univ. of Southern Denmark, **David Mangelsdorf**, Univ. of Texas Southwestern, **Vasilis Ntziachristos**, Helmholtz Zentrum München, **Sir Stephen O’Rahilly**, Univ. of Cambridge, **David Savage**, Univ. of Cambridge, **Philipp Scherer**, Univ. of Texas Southwestern, **Almut Schulze**, Univ. of Würzburg, **Celeste Simon**, Univ. of Pennsylvania, **Bruce Spiegelman**, Harvard University, **Matthew Vander Heiden**, Massachusetts Institute of Technology, **Nicolas Venteclef**, UPMC Sorbonne Universités, **Karen Vousden**, The Francis Crick Institute, **Kathryn Wellen**, Univ. of Pennsylvania, **Christian Wolfrum**, ETH Zurich, **Juleen Zierath**, Karolinska Institute.

2019 HelDI Award Nominees **Alexander Bartelt**, Ludwig Maximilian University Munich, **Kivanc Birsoy**, Rockefeller University, **Jonathan Campbell**, Duke University, **Edward Chouchani**, Harvard Medical School, **Elise Dalmas**, INSERM Paris, **Lydia Finley**, Memorial Sloan Kettering Cancer Center, **Pedro Friedmann Angeli**, Rudolf-Virchow-Zentrum, **Cristina García Cacéres**, Helmholtz Zentrum München, **Zach Gerhart-Hines**, Univ. of Copenhagen, **Will Holland**, Univ. of Texas Southwestern, **Benjamin Hopkins**, Mt. Sinai School of Medicine, **Jacob Knudsen**, Univ. of Oxford, **Pedro Moraes-Vieira**, Univ. of Campinas, **Utpal Pajvani**, Columbia University, **Thales Papagiannakopoulos**, NYU Medical Center, **Julie Sneddon**, Univ. of California San Francisco, **Jihye Yun**, Baylor College of Medicine, **Anja Zeigerer**, Helmholtz Zentrum München.