

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 Venticlef, 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**
Targeting Lipid Metabolism in Cancer
- 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 Utah
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 **Sarah-Maria Bendt, KU Leuven**
TBA
- 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 Sarah-Maria Bendt, KU Leuven, 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, 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 Utah, 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.