7th Helmholtz Diabetes Conference
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
Christian Wolfrum, ETH Zurich
Adipose Tissue Plasticity in Regulating Metabolic Health
Sir Stephen O’Rahilly, University of Cambridge
Explorations in Human Metabolic Disease
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
Marcia Haigis, Harvard Medical School
Dissecting Metabolism in the Tumor Microenvironment
Mauricio Berriel Diaz, Helmholtz Center Munich
Control of Systemic Metabolism in Cancer
Benjamin Hopkins, Mt. Sinai School of Medicine
Targeting Insulin in Cancer Therapy
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
Marcia Haigis, Harvard Medical School
Dissecting Metabolism in the Tumor Microenvironment
### Program

**7th Helmholtz Diabetes Conference**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Title</th>
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<tbody>
<tr>
<td>18:15-18:45</td>
<td>Nicolas Venteclef</td>
<td>UPMC Sorbonne Universités</td>
<td>Transcriptional Control of Macrophage Polarization in Type 2 Diabetes</td>
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<td>18:45-19:00</td>
<td>Alexander Bartelt</td>
<td>Ludwig Maximilians University Munich</td>
<td>Proteasomal protein quality control and cardiometabolic health</td>
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<td>19:00-19:15</td>
<td>Elise Dalmas</td>
<td>INSERM Paris</td>
<td>Does immunity regulate insulin secretion in physiology</td>
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<td>19:30-22:30</td>
<td>Opening Reception</td>
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<td>(for all conference attendees)</td>
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**Tuesday, September 24**

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

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

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

Barbara Kahn, Harvard University
Fatty Acid Signaling

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, Vasillis Ntziahristos, 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 Ventecelef, UPMC Sorbonne Universités, Karen Voussen, 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.