



Brown and Beige Fat
Organ Crosstalk,
Signaling
and Energetics

BATenergy

Preliminary Program International Conference



Brown and Beige Fat
Organ Crosstalk,
Signaling
and Energetics

BATenergy

Hamburg, May 22 -24 2023

Congress Venue

Bucerius Law School

Helmut Schmidt Auditorium

Supported by the

DFG

Deutsche
Forschungsgemeinschaft

German Research Foundation



Sunday, May 21 2023 **Arrival**

Monday, May 22 2023

Session 1 - Energy Handling by Thermogenic Adipose Tissues (Chair Martin Klingenspor)

- 9:00 – 9:10** **Welcome by Alexander Pfeifer and Jörg Heeren**
- 9:10 – 9:50** **Barbara Cannon (Stockholm, Sweden)**
Brown and browning adipose tissues: basic issues
- 9:50 – 10:20** **David Guertin (Worcester, USA)**
Metabolic Adaptations that Power Adipocyte Thermogenesis
- 10:20 – 10:35** **Short presentation I selected from Abstracts (10 min + 5 min)**
- 10:35 – 10:50** **Short presentation II selected from Abstracts (10 min + 5 min)**
- 10:50 – 11:30** **Coffee break and refreshment**

Session 2 – Thermogenic Adipose Tissues and Metabolic Imaging (Chair Wiebke Fenske)

- 11:30 – 12:00** **Kirsi Virtanen (Turku, Finland)**
Oxidative metabolism of human brown adipose tissue
- 12:00 – 12:30** **Maria Chondronikola (Davis, USA)**
The role of the human brown adipose tissue in free fatty acid and triglyceride metabolism
- 12:30 – 12:45** **Short presentation III selected from Abstracts (10 min + 5 min)**
- 12:45 – 13:00** **Short presentation IV selected from Abstracts (10 min + 5 min)**
- 13:00 – 14:00** **Lunch**

Session 3 – Thermogenic Adipose Tissues and Energy Metabolism (Chair Joerg Heeren)

- 14:00 – 14:30** **Patrick Rensen (Leiden, The Netherlands)**
Role of brown fat in lipoprotein metabolism: new targets, tools and tracers
- 14:30 – 15:00** **Camilla Scheele (Copenhagen, Denmark)**
Heterogeneity and crosstalk of human brown adipose tissue
- 15:00 – 15:30** **Aaron Cypess (Bethesda, USA)**
Using Metabolic Imaging of Human Thermogenic Adipose Tissues to Determine their Physiological Roles



Brown and Beige Fat
Organ Crosstalk,
Signaling
and Energetics

BATenergy

15:30 – 15:45 **Short presentation V selected from Abstracts (10 min + 5 min discussion)**

15:45 – 16:00 **Short presentation VI selected from Abstracts (10 min + 5 min discussion)**

Poster Session 1 with Wine, Beer and Refreshment

16:00 – 18:00 **Foyer Helmut Schmidt Auditorium**

Tuesday, May 23 2023

Session 4 –Signals and Pathways in Thermogenic Adipose Tissues (Chair Dagmar Wachten)

9:00 – 9:30 **Zachary Gerhart-Hines (Copenhagen, Denmark)**
Leveraging mitochondrial phospholipid synthesis in adipose tissue to improve cardiometabolic health

9:30 – 10:00 **Yu-Hua Tseng (Boston, USA)**
Brown fat in communication: within and without

10:00 – 10:15 **Short presentation VII selected from Abstracts (10 min + 5 min)**

10:15 – 10:30 **Short presentation VIII selected from Abstracts (10 min + 5 min)**

10:30 – 11:00 **Coffee break and refreshment**

Session 5 – Adipocyte Subpopulations in Thermogenic Adipose Tissues (Chair Alexander Pfeifer)

11:00 – 11:40 **Shingo Kajimura (Boston, USA)**
Adipose tissue remodeling in pathophysiology

11:40 – 12:10 **Christian Wolfrum (Zürich, Switzerland)**
Cold dependent adipose tissue remodeling

12:10 – 12:40 **Jae Bum Kim (Seoul, South Korea)**
Dynamic Adaptations of Thermogenic Adipocytes

12:40 – 12:55 **Short presentation IX selected from Abstracts (10 min + 5 min)**

12:55 – 13:10 **Short presentation X selected from Abstracts (10 min + 5 min)**

13:10 – 14:15 **Lunch**



Brown and Beige Fat
Organ Crosstalk,
Signaling
and Energetics

BATenergy

14:15 -15:00

Talk with the Editors and the DFG

Georg Caputa (Nature), Christoph Schmitt (Nature Metabolism), Georg Munz (DFG),...

Poster Session 2 with Coffee and Refreshment

15:00 – 17:00

Foyer Helmut Schmidt Auditorium

Social Evening

19:00 – 22:00

Boat Trip on the Elbe River (Start Landungsbrücken)

Wednesday, May 24 2023

Session 6 – Adipocyte Heterogeneity and Cellular Models (Chair Anna Worthmann)

9:00 – 9:30

Martina Schweiger (Graz, Austria)

Macrophage-Neuron-Adipocyte communication during catabolic remodeling of white adipose tissue

9:30 – 10:00

Carolina Hagberg (Stockholm, Sweden)

Using 3D cultures to study adipocyte growth and dysfunction

10:00 – 10:15

Short presentation XI selected from Abstracts (10 min + 5 min)

10:15 – 10:30

Short presentation XII selected from Abstracts (10 min + 5 min)

10:30 – 11:30

Coffee break and refreshment

Session 7 – Adipose Tissue Development and Remodelling (Chair Henriette Uhlénhaut)

11:30 – 12:00

Patrick Seale (Philadelphia, USA)

Fate and function of adipose tissue mesenchymal cell

12:00 – 12:30

Audrey Carrière (Toulouse, France)

Lactate fluxes and plasticity of adipose tissues

12:30 – 13:00

Alexander Bartelt (Munich, Germany)

Discovering novel brown fat regulators through epigenetics

13:00 – 13:15

Awards for Best Poster and Best Presentation

Closing remarks by Alexander Pfeifer and Jörg Heeren