



Brown and Beige Fat
Organ Crosstalk,
Signaling
and Energetics

BATenergy

Draft Program International Conference



Brown and Beige Fat
Organ Crosstalk,
Signaling
and Energetics

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Bonn, March 31st - April 02nd 2025

Conference Venue

University Hospital Bonn (UKB)

Biomedical Center I (Building B13) - Lecture Hall

Supported by the

DFG

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Forschungsgemeinschaft

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DAY 0 – Sunday, March 30th 2025

17.00 – 19.00 **Early Registration & Networking**

DAY 1 – Monday, March 31st 2025

08.15 – 08.45 **Registration**

08:45 – 09:00 **Welcome by Organizers (Alexander Pfeifer & Jörg Heeren)**

Keynote Lecture (45 min + 15 min)

9:00 – 10:00 Brown fat as a tool to understand mitochondrial bioenergetics
Shingo Kajimura (Boston, USA)

Session 1 – Chair Stephan Herzig (20 min + 10 min)

10:00 – 10:30 Exploring thermogenic adipose tissue from inside-out
Yu-Hua Tseng (Boston, USA)

10:30 – 11:00 **Coffee Break**

11:00 – 11:30 Novel pathways regulating BAT
Alexander Pfeifer (Bonn, DE)

11:30 – 12:00 UCP1: Regulation and metabolic significance
Jan Nedergaard (Stockholm, SE)

12:00 – 13:00 **Lunch**

Session 2 – Chair to be announced (20 min + 10 min)

13:00 – 13:30 Transcriptional and posttranscriptional activation of thermogenesis
Hei Sook Sul (Berkeley, USA)

13:30 – 14:00 Elucidating adipocyte lipid storage via spatial proteomics
Natalie Krahmer (Munich, DE)

14:00 – 14:30 Adipose tissue composition and its impact on metabolic control
Christian Wolfrum (Zurich, CH)

14:30 – 15:00 **Coffee Break**



DAY 1 – Monday, March 31st 2025 (continued)

Session 3 – Chair to be announced (20 min + 10 min)

15:00 – 15:30 Non-invasive imaging of brown fat activity

Martin Klingenspor (Munich, DE)

15:30 – 16:00 Circadian and thermogenic control of metabolite transport in adipocyte mitochondria

Zach Gerhart-Hines (Copenhagen, DK)

Short Talk Session 1 – Chair to be announced (10 min + 5 min)

16:00 – 16:15 Short presentation I selected from abstracts

16:15 – 16:30 Short presentation II selected from abstracts

16:30 **Group Picture**

Poster Session 1 with Wine, Beer & Refreshments

16:30 – 18:30 Foyer

19:00 **Participants Gathering**



DAY 2 – Tuesday, April 01st 2025

Session 4 – Chair to be announced (20 min + 10 min)

- 09:00 – 09:30** Lipid processing in thermogenic adipose tissues
Joerg Heeren (Hamburg, DE)
- 09:30 – 10:00** Primary cilia – how to determine fate and function of progenitor cells in the adipose tissue
Dagmar Wachten (Bonn, DE)
- 10:00 – 10:30** **Coffee Break**
- 10:30 – 11:00** Uncoupled respiration in white adipocytes: A novel mechanism for energy expenditure and thermogenesis
Shannon Reilly (New York, USA)

Podium Discussion with Editors – Panel Hosts Alexander Pfeifer, Jörg Heeren, Martin Klingenspor

- 11:00 – 11:30** Francesca La Rosa (Nature Communications), Revati Dewal (Nature Metabolism) and Patrick Schaefer (Cell Metabolism)

Short Talk Session 2 – Chair to be announced (10 min + 5 min)

- 11:30 – 11:45** Short presentation III selected from abstracts
- 11:45 – 12:00** Short presentation IV selected from abstracts
- 12:00 – 12:15** Short presentation V selected from abstracts
- 12:15 – 13:00** **Lunch**

Session 5 – Chair to be announced (20 min + 10 min)

- 13:00 – 13:30** Novel insights into brown fat biology from a third dimension
Yongguo Li (Bonn, DE)
- 13:30 – 14:00** Defining the vascular niche of human adipose tissue across metabolic conditions
Joanna Kalucka (Aarhus, DK)

Social Event

- 16:00** **Participants Gathering**



DAY 3 – Wednesday, April 02nd 2025

Session 6 – Chair to be announced (20 min + 10 min)

09:00 – 09:30 Recent advances in human BAT research

Kirsi Virtanen (Turku, FI)

09:30 – 10:00 Human brown and white adipose tissues

Aaron Cypess (Bethesda, USA)

10:00 – 10:30 **Coffee Break**

Poster Session 2

10:30 – 12:30 Foyer

12:30 – 13:30 **Lunch**

Session 7 – Chair to be announced (20 min + 10 min)

13:30 – 14:00 Mapping brown adipose tissue in humans

Kirsty Spalding (Stockholm, SE)

14:00 – 14:30 Understanding the role of human brown adipose tissue in health and disease - Insights from studies in patients with cancer

Maria Chondronikola (California, USA)

Short Talk Session 3 – Chair to be announced (10 min + 5 min)

14:30 – 14:45 Short presentation VI selected from abstracts

14:45 – 15:00 Short presentation VII selected from abstracts

15:00 – 15:15 **Closing Remarks by Alexander Pfeifer & Organizing Committee**

DEPARTURE