



Brown and Beige Fat  
Organ Crosstalk,  
Signaling  
and Energetics

**BATenergy**

## ***Draft Program International Conference***



**Brown and Beige Fat**  
Organ Crosstalk,  
Signaling  
and Energetics

**BATenergy**

**Bonn, March 31<sup>st</sup> - April 02<sup>nd</sup> 2025**

**Conference Venue**

**University Hospital Bonn (UKB)**

**Biomedical Center I (Building B13) - Lecture Hall**

**Supported by the**



Deutsche  
Forschungsgemeinschaft  
German Research Foundation



**SABLE**  
**SYSTEMS**  
EUROPE GmbH



## DAY 0 – Sunday, March 30<sup>th</sup> 2025

17.00 – 19.00      **Early Registration & Networking**

## DAY 1 – Monday, March 31<sup>st</sup> 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      Alternative regulators of 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 Barbara Cannon (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      Mechanisms of brown fat involution  
**Joerg Heeren** (Hamburg, DE)

14:30 – 15:00      **Coffee Break**



## DAY 1 – Monday, March 31<sup>st</sup> 2025 (continued)

### Session 3 – Chair Alexander Pfeifer (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 Christian Schlein (10 min + 5 min)

**16:00 – 16:15** **Irina Shabalina** (Stockholm, SE)

**16:15 – 16:30** **Tongtong Wang** (Zurich, CH)

### Poster Session 1 with Wine, Beer & Refreshments

**16:30 – 18:30** Foyer

**19:00** **Participants Gathering**



## DAY 2 – Tuesday, April 01<sup>st</sup> 2025

### Session 4 – Chair Alexander Bartelt (20 min + 10 min)

- 09:00 – 09:30** Adipose tissue composition and its impact on metabolic control  
**Christian Wolfrum** (Zurich, CH)
- 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 Anna Worthmann (10 min + 5 min)

- 11:30 – 11:45** **Anastasia Georgiadi** (Munich, DE)
- 11:45 – 12:00** **Chunyan Wu** (Zurich, CH)
- 12:00 – 12:15** **Isabel Reinisch** (Zurich, CH)
- 12:15 – 13:00** **Lunch**

### Session 5 – Chair Carolina Hagberg (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)
- 14:15** **Group Picture**

### Social Event

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



## DAY 3 – Wednesday, April 02<sup>nd</sup> 2025

### Session 6 – Chair Anne Bouloumie-Diehl (20 min + 10 min)

- 09:00 – 09:30** Pharmacological and nutritional activation of thermogenic adipose tissue  
**Jan-Wilhelm Kornfeld** (Odense, DK)
- 09:30 – 10:00** Recent advances in human BAT research  
**Kirsi Virtanen** (Turku, FI)
- 10:00 – 10:30** **Coffee Break**

### Poster Session 2

- 10:30 – 12:30** Foyer
- 12:30 – 13:30** **Lunch**

### Session 7 – Chair Tobias Fromme (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** (Cambridge, UK)

### Short Talk Session 3 – Chair Kerstin Wilhelm-Jüngling (10 min + 5 min)

- 14:30 – 14:45** **Hannah Hui** (Hongkong, CN)
- 14:45 – 15:00** **Livia Petriskova** (Bratislava, SK)
- 15:00 – 15:15** **Closing Remarks by Alexander Pfeifer & Organizing Committee**

## DEPARTURE