

**CPH
BAT
2024**

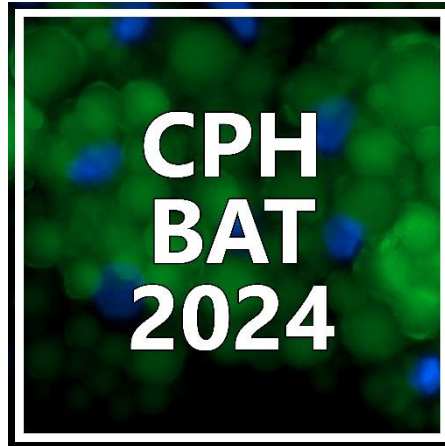
CONFERENCE PROGRAM

**THE MULTIDIMENSIONAL
FUNCTIONS OF ADIPOSE TISSUE**

May 27 – May 31, 2024

Comwell Copenhagen Portside,
Copenhagen, Denmark

Organized by
Rigshospitalet and University of Copenhagen



CPH BAT 2024 INTERNATIONAL CONFERENCE

CENTRE FOR
PHYSICAL

ACTIVITY RESEARCH

Novo Nordisk Foundation
**CENTER FOR
BASIC
METABOLIC
RESEARCH**



*Scientific Committee: Camilla Scheele, Søren Nielsen,
Zachary Gerhart-Hines and Bente Klarlund Pedersen*

Organized by Rigshospitalet and University of Copenhagen

MAY 27

DAY 0 – MONDAY

17.00 – 19.00

Networking and early registration

MAY 28

DAY 1 – TUESDAY

08.15 – 08.45

Registration

08.45 – 09.00

Welcome (by Organizers)

KEYNOTE LECTURE

09.00 – 10.00

The cell biology of adipose beiging

Michael Paul Czech (USA)

10.00 – 10.30

Coffee

SESSION 1

Chair: Camilla Schéele

10.30 – 11.00

Adipocyte plasticity and heterogeneity in humans

Kirsty Spalding (SWE)

11.00 – 11.30

Brown fat and cardiometabolic health: from human cohorts to underlying mechanisms

Paul Cohen (USA)

SHORT TALKS:

11.30 – 11.45

FSTL3 - a potential switch between thermogenic differentiation and immunomodulatory cells

Carla Horvath (CH)

11.45 – 12.00

Connections between brown adipose tissue and glucose-dependent insulinotropic peptide (GIP)

Jacqueline Beaudry (CAN)

12.00 – 13.00

Lunch

SESSION 2

Chair: Tobias Fromme

13.00 – 13.30

Thermogenesis by the futile creatine cycle: quantitative contribution and activation mechanism

Lawrence Kazak (CAN)

13.30 – 14.00

Towards the origin of brown adipose tissue and beyond

Martin Jastroch (SWE)

14.00 – 14.30

Coffee

SESSION 3

Chair: Kirsi Virtanen

14.30 – 15.00

Adipose tissue composition and metabolic control

Christian Wolfrum (CH)

15.00 – 15.30

Mechanisms of human adipocyte beiging

Silvia Corvera (USA)

15.30 – 16.00

Fresh air break

16.00 – 18.00

Poster session A and networking

MAY 29 DAY 2 – WEDNESDAY

SESSION 4 **Chair: Søren Nielsen**

09.00 – 09.30 **Turning white adipose tissue to beige -
the role of glutamine metabolism**
Mikael Rydén (SWE)

09.30 – 10.00 **Microenvironmental Influences on adipose tissue
thermogenesis**
Prashant Rajbhandari (USA)

10.00 – 10.30 *Coffee*

SESSION 5 **Chair: Kristin Stanford**

10.30 – 11.00 **To be announced**
Title: To be announced

11.00 – 11.30 **Adipose tissue response and inter-tissue
communication following an exercise bout in type 2
diabetes**
Anna Krook (SWE)

11.30 – 12.30 **PANEL DISCUSSION**
Mads Tang-Christensen, DK
Prof. Juleen Zierath, SWE
Prof. Bente K. Pedersen, DK
Prof. Ruth Loos, DK
Prof. Philipp Scherer, US
(panel hosts: Søren Nielsen, Zach Gerhart-Hines
& Camilla Schéele)

12.30 – 13.30 *Lunch*

SESSION 6

Chair: Roland Stimson

13.30 – 14.00

Mouse and human UCP1: function and significance

Jan Nedergaard (SWE)

14.00 – 14.30

Brown adipose tissue epidemiology: higher BAT activity protects against type 2 diabetes

Ruth Loos (DK)

14.30 – 15.00

Coffee

SESSION 7

Chair: Siegfried Ussar

15.00 – 15.30

Epigenetic regulation of thermogenic program

Yu-Hua Tseng (USA)

15.30 – 16.00

Uncoupling metabolic health from thermogenesis via mitochondrial BCAA nitrogen flux

Shingo Kajimura (USA)

16.00 – 16.30

Fresh air break

16.30 – 18.30

Poster session B and networking

19.00 –

Dinner on own

MAY 30

DAY 3 – THURSDAY

SESSION 8

Chair: Carolina Hagberg

09.00 – 09.30

The unsurpassed potential of adipose tissue to influence metabolism

Philipp Scherer (USA)

09.30 – 10.00

Plasticity of adipose tissue

Susanne Mandrup (DK)

10.00 – 10.30

Coffee

SESSION 9

Chair: Zach Gerhart-Hines

10.30 – 11.00

Sympathetic regulation of brown adipose function and systemic metabolism

Lori Zeltser (USA)

11.00 – 11.30

Sex differences in BAT thermogenesis in humans

Denis Blondin (CAN)

SHORT TALKS:

11.30 – 11.45

Role of TRPM8 in thermogenesis in the naked mole-rat

Lin Wang (GER)

11.45 – 12.00

The dialogue within fat: targeting adipose tissue neurovasculature to improve metabolism

Farnaz Shamsi (USA)

12.00 – 13.00

Lunch

SESSION 10

Chair: Jörg Heeren

13.00 – 13.30

Metabolic adaptations during adipocyte thermogenesis

David Guertin (USA)

13.30 – 14.00

Control of brown/beige adipose tissue size by EPAC1

Alexander Pfeifer (GER)

14.00 – 14.30

Coffee

14.30 – 15.00

Concluding remarks

15.00 – 17.00

Poster session C and networking

18.30 –

Drinks followed by Conference Dinner

MAY 31

DAY 4 – FRIDAY (POST-CONFERENCE)

DEPARTURE

Organizing team:

Søren Nielsen, Camilla Scheele, Zach Gerhart-Hines,
Bente Klarlund Pedersen, Inge Holm, Emil Toft

Conference manager:

Emil Toft

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