

# BROWN ADIPOSE TISSUE AND HUMAN OBESITY

**Saturday 10 July, 2010**

8.00 – 8.58	Registration
9.00 – 9.10	Welcome
<b>Morning session</b>	<b>Chairman</b> Jan Nedergaard
9.10 – 9.35	<i>Timothy J. Bartness</i> Neural control of brown adipose tissue
9.35 – 10.00	<i>Saverio Cinti</i> UCP1-immunoreactive multilocular cells in omental fat of adult humans affected by pheochromocytomas
10.00 – 10.25	<i>Patrick Seale</i> Transcriptional control of brown adipocyte fate by Prdm16
10.25 – 10.50	<i>Masayuki Saito</i> Cold-activated brown adipose tissue, energy expenditure and obesity in humans
10.50 – 11.20	coffee
11.20 – 11.45	<i>Sheila Collins</i> Role of p38 MAP kinase in conveying $\beta$ -adrenergic activation of brown fat thermogenesis
11.45 – 12.10	<i>Ez-Zoubir Amri</i> Human multipotent adipose-derived stem cells differentiate into functional brown adipocytes
12.10 – 12.35	<i>Eduardo Rial</i> Regulation of the activity of UCP1 in the brown adipocyte
12.35 - 13.00	<i>Michael E. Symonds</i> Seasonal influences on brown adipose tissue in humans – effect of photoperiod or ambient temperature; a role for the prolactin receptor?
13.00 – 13.55	lunch

**Afternoon session****Chairman** Wouter van Marken Lichtenbelt

13.55 – 14.20

*Brian Oldfield*

The involvement of brown adipose tissue thermogenesis in body weight shifts following feeding and drug interventions – a lead from rodent models

14.20 – 14.45

*Andrew S. Greenberg*

Perilipin regulates the thermogenic actions of norepinephrine in brown adipose tissue

14.45 – 15.10

*Jan Nedergaard*

Brown adipose tissue and diet-induced thermogenesis

15.10 – 15.35

*Sven Enerbäck*

Functional brown adipose tissue in humans

15.35 – 16.00

*Martin Klingenspor*

Evolution of Uncoupling Protein 1

16.00 – 16.25

coffee

16.25 – 16.50

*Michael Tisdale*

ZAG and brown adipose tissue

16.50 – 17.15

*Lise Madsen*

Transdifferentiation of brown into white adipose tissue requires cyclooxygenases

17.15 – 17.40

*Stephen Farmer*

Distinctions and similarities between brown and white adipocytes

17.40 - 18.05

*M. Luisa Bonet*

Retinoblastoma protein as a modulator of the metabolic plasticity of adipose tissues

18.05 – 18.30

*Arne Astrup*

Older human BAT studies in a new perspective

18.30 –

buffet dinner

20.00 - 21.00

poster viewing

**Sunday 11 July, 2010**

**Morning session**

**Chairman** Sven Enerbäck

9.00 – 9.25

*Aaron Cypess*  
Brown fat in adult humans

9.25 – 9.50

*Louis Casteilla*  
Brown and white adipocyte progenitors

9.50 – 10.15

*Francesc Villarroya*  
Fibroblast growth factor-21, a novel actor in brown adipose tissue biology

10.15 - 10.45

coffee

10.45 – 11.10

*Wouter D. van Marken Lichtenbelt*  
Brown adipose tissue and adaptive thermogenesis in lean and overweight humans

11.10 – 11.35

*Yu-Hua Tseng*  
Identification of inducible brown adipocyte progenitors residing in skeletal muscle and subcutaneous white fat

11.35 – 12.00

*Richard K. Porter*  
Absence of UCP1 increases the production of reactive oxygen containing species by mitochondria isolated from brown adipose tissue

12.00 – 12.25

*Michael A. Lomax*  
Transcription factor regulation in brown and white adipocytes

12.25 – 13.30

lunch

**Afternoon session**

**Chairman** Barbara Cannon

13.30 - 13.55

*Denis Richard*

BAT metabolism in cold-exposed male human subjects

13.55 – 14.20

*Susanne Klaus*

Expression of UCP1 in skeletal muscle in mice: effects on ageing and longevity

14.20 – 14.45

*Jan Kopecky*

Pushing lipid catabolism of white fat cell to its limit – brown fat phenotype without UCP1

14.45 – 15.10

*Orian S. Shirihai*

Mitochondrial dynamics in the brown adipocyte

15.10 – 15.40

coffee

15.40 – 16.05

*Karsten Kristiansen*

p53 and Mdm2 as regulators of white and brown adipogenesis and energy homeostasis

16.05 – 16.30

*Karine Clément*

Should we revisit human genetic association studies with UCP1?

16.30

Concluding remarks, end of meeting