



Danish Diabetes Academy

UOE-UCPH-SDU
Mini-symposium on
Adipose Tissue & Fat
Metabolism

28 February – 1 March 2022

University of Copenhagen
The Faculty Club
Blegdamsvej 3B
DK-2200 Copenhagen N

Programme

Monday 28 February



09:15-09:45 Registration, breakfast & mounting of posters

09:45-10:15 Welcome, meet & greet

Professor **Nik Morton** University of Edinburgh (UK),
Professor **Nils Færgeman**, University of Southern Denmark (DK),
Professor **Kei Sakamoto**, University of Copenhagen (DK)

Session I Novel Regulatory Mechanisms & Signaling in Adipose

Chair: Professor **Nik Morton**, University of Edinburgh (UK)
Early Career Fellow **Lasse Markussen**, University of Southern Denmark (DK)

10:15-10:35 Enhancer Networks Controlling Adipocyte Differentiation

Professor **Susanne Mandrup**, University of Southern Denmark (DK)

10:35-10:45 Discussion, questions & answers

10:45-11:05 Fat-associated Lymphoid Clusters at the Interface Between Adipose Tissue and Immune System

Assistant Professor **Cecile Benezech**, University of Edinburgh (UK)

11:05-11:15 Discussion, questions & answers

11:15-11:45 Tea & coffee break

11:45-12:00 Online presentation:
Hypoxia Signaling in Metabolism

Early Career Fellow **Zoi Michailidou**, University of Edinburgh (UK)

12:00-12:10 Discussion, questions & answers

12:10-12:25 Short talk selected from submitted abstracts:
Identification of Rare Loss of Function Genetic Variation
Regulating Body Fat Distribution
Early Career Fellow **Mine Koprulu**, University of
Cambridge (UK)

12:25-12:30 Discussion, questions & answers

12:30-13:20 Lunch

Session II Human/Clinical/Translational Biology of Adipose

Chair: Professor **Nils Færgeman**, University of Southern
Denmark (DK), Early Career Fellow **Hande Topel**, University of
Southern Denmark (DK)

13:20-13:40 Online presentation:
Human Brown Adipose Tissue Function – Insights from
Experimental Medicine Studies

Professor **Roland Stimson**, University of Edinburgh (UK)

13:40-13:50 Discussion, questions & answers

13:50-14:05 Liposys as a Major Regulation of Transcription in Adipocytes

Early Career Fellow **Lasse Markussen**, University of Southern
Denmark (DK)

14:05-14:10 Discussion, questions & answers

14:10-14:25 In Vivo and in Vitro Modelling of Multiple Symmetric Lipomatosis:
The Role of Mitofusins in Adipose Dysfunction

Early Career Fellow **Ineke Luijten**, University of Edinburgh (UK)

14:25-14:30 Discussion, questions & answers

14:30-15:00 Tea & coffee break

15:00-15:20 Regulation of Human Thermogenic Adipogenesis

Associate Professor **Camilla Schéele**, CBMR, University of
Copenhagen (DK)

15:20-15:30 Discussion, questions & answers

Session III **Novel Target & Drug Discovery & Adipose**

Chair: Professor **Kei Sakamoto**, University of Copenhagen (DK), Early Career Fellow **Fabian Finger**, University of Copenhagen (DK)

15:30-15:50 Leveraging Thermogenic Adipose Tissue to Counteract Metabolic Disease

Associate Professor **Zach Gerhart-Hines**, University of Copenhagen (DK)

15:50-16:00 Discussion, questions & answers

16:00-16:20 Tea & coffee break

16:20-16:35 Glucocorticoid Metabolism in Obesity

Early Career Fellow **Ruth Morgan**, University of Edinburgh (UK)

16:35-16:40 Discussion, questions & answers

16:40-17:00 Adipose-sperm miRNA Crosstalk in Intergenerational Epigenetic Inheritance of Metabolic Disease

Professor **Jan-Wilhelm Kornfeld**, University of Southern Denmark (DK)

17:00-17:10 Discussion, questions & answers

17:10-17:15 Sum up of the day

17:15-17:40 Poster pitches 1-21

17:40-18:40 Poster session, drinks & snacks

19:00- Dinner at Nørrebro Bryghus
Ryesgade 3
2200 Copenhagen N

Programme

Tuesday 1 March

08:15-08:50 Breakfast

08:50-09:00 Welcome back

Session IV Emerging Technologies to Probe Adipose Functions

Chair: Associate Professor **Zach Gerhart-Hines**, University of Copenhagen (DK), Early Career Fellow **Ruth Morgan**, University of Edinburgh (UK)

09:00-09:20 Leveraging the Zebrafish Model to Understand Adipose Growth and Function

Assistant Professor **James Minchin**, University of Edinburgh (UK)

09:20-09:30 Discussion, questions & answers

09:30-09:50 CRISPR-mediated Gene Manipulation in Adipose Tissue

Associate Professor **Brice Emanuelli** CBMR, University of Copenhagen (DK)

09:50-10:00 Discussion, questions & answers

10:00-10:05 Energizer

10:05-10:20 Brown Adipose Tissue Imaging: Applications in Human Experimental Medicine

Early Career Fellow **Karla Suchacki**, University of Edinburgh (UK)

10:20-10:25 Discussion, questions & answers

10:25-10:40 Role of a Novel Adenylyl Cyclase 3 (Adcy3) Proteoform in BAT Function

Early Career Fellow **Hande Topel**, University of Southern Denmark (DK)

10:40-10:45 Discussion, questions & answers

10:45-11:15 Tea & coffee break

Session V Computational/Systems Biology & Adipose

Chair: Professor **Jan-Wilhelm Kornfeld**, University of Southern Denmark (DK), Early Career Fellow **Sophia Metz**, University of Copenhagen (DK)

11:15-11:35 Adipose Tissue and Disease: Insights from GWAS

Associate Professor **Tuomas Kilpeläinen**, CBMR, University of Copenhagen (DK)

11:35-11:45 Discussion, questions & answers

11:45-12:05 Massively Parallel Functional Assays of Coding Variants in the Insulin Receptor - A Bridge Between Population Genetics and Function

Professor **Robert Semple**, University of Edinburgh (UK)

12:05-12:15 Discussion, questions & answers

12:15-13:00 Lunch

13:00-13:15 Using Single Cell-resolved Transcriptomics to Study the Impact of Weight Changes on Adipose Tissue Cells

Early Career Researcher **Elvira Laila van Hauwaert**, University of Southern Denmark (DK)

13:15-13:20 Discussion, questions & answers

13:20-13:40 How Does Bone Marrow Adipose Tissue Impact Human Health? Insights from Deep Learning for Large-scale Analyses in the UK Biobank

Assistant Professor **William Cawthorn**, University of Edinburgh (UK)

13:40-13:50 Discussion, questions & answers

13:50-14:05 Tea & coffee break

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- 14:05-14:25 Careers in Scientific Publishing
Associate Editor **Isabella Samuelson**, Nature Metabolism (UK)
- 14:25-14:30 Discussion, questions & answers
- 14:30-15:30 Group work: Round table discussions
- 15:30-15:45 Group work outcomes: Follow up in plenum
- 15:45-16:00 The next step, evaluation & concluding remarks
- 16:00-19:00 Free time
- 19:00- Diner at Un Mercato
Frederiksborggade 19
1360 Copenhagen K

Organising Committee Scientific Programme

Nicholas Morton, Personal Chair of Molecular Metabolism, Centre for Cardiovascular Science, University of Edinburgh, (UK)

Nils Færgeman, Professor, Department of Biochemistry and Molecular Biology, University of Southern Denmark (DK)

Kei Sakamoto, Professor, Center for Basic Metabolic Research, University of Copenhagen (DK)



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