



Danish Diabetes Academy

DDA Summer School on
Diabetes & Metabolism
for PhD Students
- Scientific Programme

24-27 August 2020

Sinatur Hotel Gl. Avernæs
Helnæsvej 9
DK-5631 Ebberup

Session overview



Day 1

Monday 24 August

Session I

Welcome & personalized medicine / GWAS

Session II

Circadian rhythm, mitochondria and metabolism

Poster session I

Posters no. (PP: 1-22)

Day 2

Tuesday 25 August

Session III

Drug targets/discovery

Workshop 1

Workshop A-C

Session IV

Tissue cross talk with the brain

Poster session II

Posters no. (PP: 23-46)

Day 3

Wednesday 26 August

Workshop 2

Workshop D-F

Session V

T1D and exercise

Day 4

Thursday 27 August

Session VI

Exercise/diet physiology

Programme

Monday 24 August

10:00-10:30 Registration, breakfast and mounting of posters

10.30-11:00 Welcome and meet & greet

Professor **Nils Færgeman**, University of Southern Denmark (DK) and Education Manager Jette Husum, Danish Diabetes Academy (DK)

Session I **Personalized medicine/ GWAS (key note)**

Chairs: Professor **Torben Hansen**, University of Copenhagen (DK) and PhD Student **Sophia Metz**, University of Copenhagen (DK)

11:00-11:40 Overview of precision medicine in diabetes: where we are and where we're heading

Professor **Paul Franks**, Lund University Diabetes Centre (SE)

11:40-11:50 Questions & answers

11:50-12:00 Energizer

Session II **Circadian rhythm, mitochondria and metabolism**

Chairs: Professor **Nils Færgeman**, University of Southern Denmark (DK) and Professor Louise Dalgaard, Roskilde University (DK)

12:00-12:30 Long non-coding RNAs as metabolic regulators in brown and white adipose tissue

Associate Professor **Søren Nielsen**, Rigshospitalet (DK)

12:30-12:40 Questions & answers

12:40-13:30 Lunch

13:30-14:00	<p>Cardiolipin and mammalian metabolism: insane in the (inner mitochondrial) membrane</p> <p>Associate Professor Zach Gerhart-Hines, University of Copenhagen (DK)</p>
14:00-14:10	Questions & answers
14:10-14:20	Energizer
14:20-14:50	<p>Circadian timing of glucose homeostasis</p> <p>Professor Charna Dibner, University of Geneva (CH)</p>
14:50-15:00	Questions & answers
15:00-15:20	Coffee Break
15:20-15:40	<p>Oral presentation</p> <p>Identification of glomerular-specific transcriptome changes in a hypertensive, uninephrectomized db/db mouse model of diabetic kidney disease</p> <p>PhD Student Frederikke Sembach, Gubra ApS (DK)</p>
15:40-16:10	Walk & Talk
16:15-16:50	<p>One-minute poster presentations / teasers</p> <p>Chair: Managing Director Tore Christiansen, Danish Diabetes Academy (DK)</p>
16:50-17:40	Poster session I (PP: 1-22)
17:40-19:00	Free time
19:00	Dinner

Programme

Tuesday 25 August

07:00-08:30 Morning exercise and breakfast

08:30- 08:40 Morning assembly

Session III Drug targets / discovery

Chair: Co-founder **Jacob Jelsing**, Gubra (DK)

08:40-09:10 A diabetes pharmaceutical bench to bedside story

Scientific Director **Kirsten Raun**, Novo Nordisk (DK)

09:10-09:25 Questions & answers

09:25-09:35 Energizer

09:35-10:05 Targeting weight loss and lipid metabolism for the treatment of non-alcoholic steatohepatitis (NASH) (online)

Head of Drug Development **Aimo Kannt**, Fraunhofer Institute for Molecular Biology and Applied Ecology (DE)

10:05-10:20 Questions & answers

10:20-10:40 Coffee break

10:40-12:40 Workshop 1

A: Systematic reviews of randomized trials to support evidence-based medicine

Professor **Khalid Khan**, University of Granada (E)

B: Mechanisms and clinical relevance of metabolic dysfunctions in cancer

Associate Professor **Lykke Sylow**, University of Copenhagen (DK)

C: Design and analyses of clinical trials and statistics

Postdoc **Nikolaj Rittig**, Aarhus University (DK)

12:40-13:40 Lunch

Session IV Tissue cross talk with the brain

Chairs: Professor **Dorte Møller Jensen**, University of Southern Denmark (DK) and Professor **Louise Torp Dalgaard**, Roskilde University (DK)

13:40-14:10 Behavioural and emotional factors and diabetes outcomes
Professor **Frans Pouwer**, University of Southern Denmark (DK)

14:10-14:25 Questions & answers

14:25-14:55 Glucose and the brain: insight from clinical studies (online)
Assistant Professor **Janice Hwang**, Yale School of Medicine (US)

14:55-15:10 Questions & answers (online)

15:10-15:40 Coffee Break

15:40-16:00 **Summary kahoot**

16:00-16:30 One-minute poster presentations / teasers

Chair: Managing Director **Tore Christiansen**, Danish Diabetes Academy (DK)

16:30-17:30 Poster session II (PP: 23-46)

17:30-19:00 Voluntary networking activity

19:00-20:00 Dinner

20:30-21:30 Beer / wine with a brain

Programme

Wednesday 26 August

07:00-08:30 Morning exercise and breakfast

08:30-08:40 Morning assembly

08:40-10:40 Workshop 2

D: Personalised prevention and treatment of diabetes – insights from the Inuit population in Greenland

Professor **Marit Eika Jørgensen**, Steno Diabetes Center Copenhagen & University of Southern Denmark (DK)

E: The promise of polygenic risk scores: perspective and applications

Senior Researcher **Bjarni Jóhann Vilhjálmsson**, Aarhus University (DK)

F: Glucagon in diabetes - fiction, function, pharmacology and physiology

Assistant Professor **Jakob Grunnet Knudsen**, University of Copenhagen (DK)

10:40-11:10 Coffee break and group photo

11:10-11:30 Oral presentation

Kisspeptin-Induced Autophagy Independently Inhibits Basal Insulin Secretion from Pancreatic β -Cells

PhD Student **Chien Huang**, University of Southern Denmark (DK)

Session V T1D and exercise

Chairs: Professor **Jørgen Wojtaszewski**, University of Copenhagen (DK) and Professor **Dorte Møller Jensen**, University of Southern Denmark (DK)

11:30-12:00 Impaired awareness of hypoglycaemic symptoms in type 1 diabetes – epidemiology, pathophysiology and consequences

Professor **Ulrik Pedersen-Bjergaard**, University of Copenhagen (DK)

12:00-12:15 Questions & answers

12:15-12:35 Oral presentation

The Impact of Hospital-diagnosed Depression or use of Antidepressants on Treatment Initiation, Adherence, and HbA1c/LDL Target Achievement in Newly Diagnosed Type 2 Diabetes

PhD Student **Christopher Rohde**, Aarhus University Hospital (DK)

12:35-13:40 Lunch

13:40-14:00 Oral presentation

Dexamethasone during gestation impair the endocrine pancreas function after a postnatal islet insult in mice

PhD Student **Cristiane Dos Santos**, Lund University (S)

14:00-14:30 Mechanisms of exercise dysglycemia in type 1 diabetes (online)

Professor **Michael Riddell**, York University (CA)

14:30-14:45 Questions & answers (online)

14:45-15:05 Sum up

15:05-15:30 Coffee break

15:30-16:30 Afternoon with a brain

16:30-19:00 Voluntary networking activity

19:00 Pre-dinner drinks & gala dinner

Programme

Thursday 27 August

07:30-09:30 Morning exercise & breakfast

09:30-09:40 Morning assembly

Session VI Exercise/diet physiology

Chairs: Professor **Jørgen Wojtaszewski**, University of Copenhagen (DK) and Professor **Nils Færgeman**, University of Southern Denmark (DK)

09:40-10:10 Maximal fat oxidation; Implications for health

Professor **Jørn Wulff Helge**, University of Copenhagen (DK)

10:10-10:25 Questions & answers

10:25-10:35 Energizer

10:35-10:55 Oral presentation

The metabolic perturbations of cancer are accelerated by loss of AMPK activity in skeletal muscle

PhD Student **Steffen Henning Raun**, University of Copenhagen (DK)

10:55-11:15 Coffee break

11:15-11:45 How does exercise and diet supplementation affects mitochondrial function

Associate Professor **Steen Larsen**, University of Copenhagen (DK)

11:45-11:55 Questions & answers

11:55-12:20 Poster and SoMe awards

12:20-12:45 Closing remarks

12:45-13.15 Lunch-to-go and goodbye

13:15 Joint transportation by bus to Odense Central Station

Organising Committee Scientific Programme

Professor **Nils Færgeman**,
University of Southern Denmark (DK) (Chair)

Professor **Jørgen Wojtaszewski**,
University of Copenhagen (DK)

Professor **Dorte Møller Jensen**,
University of Southern Denmark (DK)

Professor **Louise T. Dalgaard**,
Roskilde University (DK)

PhD, MD **Esben Søndergaard**,
Aarhus University (DK)

Professor **Torben Hansen**,
University of Copenhagen (DK)

Co-founder **Jacob Jelsing**,
Gubra (DK)

PhD student **Sophia Metz**,
University of Copenhagen (DK)



Danish Diabetes Academy
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