



Danish Diabetes Academy

Non-coding RNAs in Metabolic
Disease

6–8 May 2019

Novo Nordisk Foundation
Tuborg Havnevej 19
DK-2900 Hellerup

Programme

Monday 6 May



08:30–09:30 Registration, coffee & breakfast

Session I

Keynote Lectures

Chairs: Professor Louise Dalgaard, MSc. PhD Søren Nielsen & Professor Jan-Wilhelm Kornfeld

09:30–09:45

Welcome

Professor Louise Dalgaard, MSc.PhD Søren Nielsen & Professor Jan-Wilhelm Kornfeld

09:45–10:30

New roles for old ncRNA: Tuning the ribosome in health and disease

Keynote Speaker **Professor Anders Lund**

BRIC, University of Copenhagen, DK Keynote Speaker

10:30–10:45

Q&A

10:45–11:30

Non-coding RNAs as therapeutic targets for cardiovascular disease

Keynote Speaker **Professor Stefanie Dimmeler**

Institute for Cardiovascular Research, Frankfurt/Main, DE

11:30–11:45

Q&A

11:45–12:00

Short talk selected from submitted abstracts

12:00–13:00

Lunch break & poster session

Session II

Prediabetes and intergenerational metabolic disease

Chair: Søren Nielsen

13:00–13:45

piRNAs in intergenerational reprogramming

Ass. Professor Adelheid Lempradl

Van Andel Research Institute, US

13:45–14:30

Implication of small RNAs in gametic inheritance induced by metabolic insult

Professor Romain Barrès
Novo Nordisk CBMR, Copenhagen, DK

14:30–14:45 Short break

14:45–15:00 Short talk selected from submitted abstracts

Session III **Exercise physiology, muscle atrophy and regeneration**

Chair: Søren Nielsen

15:00–15:45 Skeletal muscle microRNAs and regulation of metabolism

Professor Anna Krook

Karolinska Institute, Stockholm, SE

15:45–16:00 Short break

16:00–16:45 Mitochondrial non-coding RNAs as new regulators of skeletal muscle function

Senior Lecturer Dr. Severine Lamon

Deakin University, Burwood, AUS

16:45–17:00 Short talk selected from submitted abstracts

19:00– Dinner for participants at Brdr Price, Glassalen, Tivoli

Programme

Tuesday 7 May

08:30-09:00 Coffee & breakfast

Session IV **Non-coding RNAs in pancreas biology**
Chair: Professor Louise Dalgaard

09:00-09:15 Welcome
Professor Louise Dalgaard

09:15-10:00 A multi-center, multi-ethnic cfDNA and microRNA profiling analysis for Type 1 Diabetes
Ass. Professor Anand Hardikar
The University of Sydney & NHMRC Clinical Trials Centre, AUS

10:00-10:45 MicroRNAs in the regulation of insulin- and glucagon secretion
Professor Lena Eliasson
Lund University Diabetes Center, SE

10:45-11:00 Short break

11:00-11:45 Long non-coding RNA regulation of islet function
**Professor & Director of Basic and Translational Research
Lori Sussel**
Barbara Davis Diabetes Center, University of Colorado, US

11:45-12:00 Short talk selected from submitted abstracts

12:00-13:00 Lunch break & poster viewing

Session V **Non-coding RNAs in liver metabolism**
Chair: Jan-Wilhelm Kornfeld

13:00-13:45 MicroRNA drivers of NAFLD
Ass. Professor Praveen Sethupathy
Cornell University, New York, US

13:45-14:30 TBA

Group Leader Dr. Haiming Cao
NIH, Bethesda, US

14:30-14:45 Short break

14:45-15:30 Regulation of microRNA biogenesis

Ass. Professor Ulf A. Ørom
Aarhus University, DK

15:30-16:15 TBA

Professor Kathryn J Moore
NY University Langone Health, US

Programme

Wednesday 8 May

08:30-09:00 Coffee & breakfast

Session VI **Adipocyte noncoding networks**
Chair: Professor Jan-Wilhelm Kornfeld

09:00-09:15 Welcome
Professor Jan-Wilhelm Kornfeld

09:15-10:00 Explore the function of non-coding genes in adipose tissue
Ass. Professor Lei Sun
DUKE-NUS Medical School, Singapore

10:00-10:45 Long non-coding RNAs as regulators of human fat cell development and function
Professor Peter Arner
Karolinska Institute, Stockholm, SE

10:45-11:00 Short break

11:00-11:45 miRNA-mediated adipose/muscle crosstalk controls metabolic adaptation to exercise
Professor Marcelo Mori
U Campesinas, BR

11:45-12:00 Short talk selected from submitted abstracts

12:00-13:00 Lunch break & poster viewing (Editors Corner)

Session VII **Clinical and translational studies**
Chair: Professor Louise Dalgaard

13:00-13:45 Circulating MicroRNAs & Proteomics: From Biomarkers to a New Understanding of Pathophysiology in Cardiometabolic Diseases
Professor Manuel Mayr

King's College London, UK

13:45-14:30 Role of placental exosomes regulating glucose systemic homeostasis in normal and gestational diabetes mellitus pregnancies

Group Leader Dr. Carlos Salomon
University of Queensland, Brisbane, AUS

14:30-15:15 Endothelial non-coding RNAs in cardiometabolic disease

Ass. Professor Mark Feinberg
Brigham and Womens Hospital/Harvard Medical School, Boston, US

15:15-15:30 Short break

15:30-15:45 Short talk selected from submitted abstracts

15:45-16:00 Short talk selected from submitted abstracts

16:00-16:15 Closing remarks
Professor Louise Dalgaard, MSc.PhD Søren Nielsen & Professor Jan-Wilhelm Kornfeld

