

# Programme Tuesday November 21

09.00-09.30 REGISTRATION, COFFEE

09.30-09.40 Welcome address

## TREATING METABOLIC DISEASE

Chair: Tommy Olsson, UmU

09.40-10.20 **Roy Taylor**, Newcastle University

*"Reversal of Type 2 diabetes - simplicity revealed"*

10.20-10.50 **Fredrik Bäckhed**, University of Gothenburg

*"Mechanistic studies of the impact of the gut microbiome on obesity and type 2 diabetes"*

10.50-11.20 **Lena Carlsson**, University of Gothenburg

*"Bariatric surgery and diabetes - how to improve long-term benefits"*

11.20-11.50 **Olov Andersson**, Karolinska Institutet

*"Drug discovery in zebrafish for novel treatments of diabetes"*

11.50-13.00 LUNCH, POSTER SETUP

## TYPE 1 DIABETES

Chair: Malin Flodström Tullberg, KI

13.00-13.30 **Knut Dahl-Jørgensen**, University of Oslo

*"Type 1 Diabetes goes Viral - a "guerilla war" going on in the islets?"*

13.30-14.00 **Johan Jendle**, Örebro University

*"Insulin treatment of today and tomorrow"*

14.00-14.30 **Daniel Espes**, Uppsala University

*"Intervention and replacement therapies for type 1 diabetes"*

14.30-15.00 **Helena Fadl**, Örebro University

*"Type 1 diabetes and pregnancy outcomes- improvements over time?"*

15.00-15.30 COFFEE

## ADIPOSE TISSUE

Chair: Ulf Smith, GU

15.30-16.00 **Peter Strålfors**, Linköping University

*"Insulin-signalling network normally and in type 2 diabetes: mechanisms of insulin resistance"*

16.00-16.30 **Ingrid Dahlman**, Karolinska Institutet

*"Genetics and Epigenetics on Adipose Tissue, impact on Adiposity and Insulin Resistance"*

16.30-17.00 **Ingrid Wernstedt Asterholm**, University of Gothenburg

*"Antioxidant treatment leads to a paradoxical increase in mitochondrial oxidative stress"*

## ARTIFICIAL INTELLIGENCE IN HEALTH AND DIABETES

Chair: Gunnar Cedersund, LiU

17.00-17.30 **Christian Guttman**, Nordic Artificial Intelligence Institute

*"Artificial Intelligence: Will it transform Diabetes?"*

17.30-19.30 BUFFET DINNER WITH POSTER VIEWING

# Programme Wednesday November 22

07.30-08.00 COFFEE, EXHIBITIONS

## GENETICS

Chair: Lena Eliasson, LU

- 08.00-08.40 **Stephen O’Rahilly**, University of Cambridge  
*"Genetic susceptibility to overnutrition and its adverse metabolic consequences"*
- 08.40-09.10 **Charlotte Ling**, Lund University  
*"Epigenetics and the pathogenesis of type 2 diabetes"*
- 09.10-09.40 **Anders Rosengren**, Lund University/University of Gothenburg  
*"Using genetic and gene expression data to identify new anti-diabetic therapies"*
- 09.40-10.10 **Carina Ämmälä**, AstraZeneca, Mölndal  
*" Selective and specific targeting antisense oligonucleotides to pancreatic  $\beta$ -cells using peptide mediated cargo delivery"*
- 10.10-10.40 COFFEE, EXHIBITIONS

## NUTRITION AND EXERCISE

Chair: Julia Otten, UmU

- 10.40-11.10 **Christian A Drevon**, University of Oslo  
*"Adipokines and myokines might be important biological effectors of nutrition and exercise"*
- 11.10-11.40 **Anna Krook**, Karolinska Institutet  
*"Exercise-mediated effects on skeletal muscle insulin sensitivity"*
- 11.40-13.00 LUNCH, EXHIBITIONS

## ISLETS

Chair: Anders Tengholm, UU

- 13.00-13.30 **Helena Edlund**, Umeå university  
*"AMPK activator O304 reverts obesity and diabetes and prevents hepatic steatosis and beta-cell amyloid formation"*
- 13.30-14.00 **Per-Olof Berggren**, Karolinska Institutet  
*"A Natural Body Window to Pancreatic Islet Cell Signalling"*
- 14.00-14.30 **Patrik Rorsman**, University of Oxford/University of Gothenburg  
*"Why does glucagon secretion become perturbed in diabetes?"*
- 14.30-15.00 **Sebastian Barg**, Uppsala University  
*"Assembly of the insulin granule release machinery"*
- 15.00-15.20 COFFEE, EXHIBITIONS

NEURONAL CONTROL OF METABOLISM

Chair: Barbara Cannon, SU

- 15.20-15.50 **Tore Bengtsson**, Stockholm University  
*"Improving type 2 diabetes through a novel distinct beta-adrenergic signaling pathway"*
- 15.50-16.20 **Karolina Skibicka**, University of Gothenburg  
*"Critical role of brain GLP-1R in body weight and food reinforcement control."*

POSTER PRESENTATIONS

Chair: Anna Benrick, GU

- 16.20-16.30 **Beichen Xie**, Uppsala University  
*"Extended synaptotagmin-1 control insulin secretion through diacylglycerol transport at ER-PM contact sites"*
- 16.30-16.40 **Annika Mehlem**, Karolinska Institutet  
*"Inhibition of Vascular Endothelial Growth Factor B improves wound healing in a mouse model of type 2 diabetes"*
- 16.40-16.50 Closing remarks