



Danish Diabetes Academy

5th BBDC-Joslin-UCPH
conference

Prevention of Beta Cell Dysfunction in
T1D and T2D:
Role of Inter-organ Communication

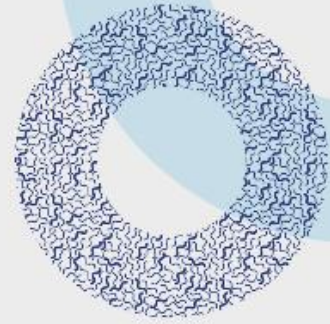
26-27 October 2018

University of Copenhagen
Panum Institute
Maersk Tower

Niels K. Jerne Auditorium

Programme

Friday 26 October



08.00– 08:45 Registration and breakfast

08:45–09:00 Welcome

Professor emeritus **Jens H. Nielsen** (UCPH)
Professor **Gary Lewis** (BBDC)
Professor **George King** (Joslin)
CEO **Allan Flyvbjerg** (DDA)

Session I **Beta cell protection in T1D**
Chair: Professor Jørn Nerup (DK)

09:00-09:30 Type 1 diabetes as a disease of the beta cell

Professor **Bart Roep** (NL/US)

09:30-10:00 Interferon- α signaling shapes immune beta cell interactions in early T1D

Professor **Decio Eizirik** (BE)

10:00-10:30 A role for non-coding RNAs in β cells in T1D development?

Professor **Flemming Pociot** (DK)

10:30-11:00 Coffee break

Session II **Beta cell protection in T1D**
Chair: Professor Louise T. Dalgaard (DK)

11:00-11:30 Primary prevention of type 1 diabetes

Professor **Mikael Knip** (FI)

11:30-12:00 Characterization of beta-cell function in the Joslin Medalists

Ass. Professor (Docent) **Daniel Gordin** (FI)

12:00-12:30 Prevention of ER stress in beta cells

Ass. Investigator **Peng Yi** (US)

12:30-14:00 Lunch

Session III	Beta cell plasticity in T1D and T2D Chair: Professor emeritus Claes Wollheim (SE/CH)
14:00-14:30	Glucotoxicity is really important in T1D and T2D Professor Susan Bonner-Weir (US)
14:30-15:00	The role of cytokines in beta cell dedifferentiation Professor Nils Billestrup (DK)
15:00-15:30	Heterogeneity of beta cells: function and age Research Associate Cristina Aguayo-Mazzucato (US)
15:30-16:00	The role of lipotoxicity in beta cell failure Professor Adria Giacca (CA)
16:00-18:00	Poster Session and refreshments
19:00-23:00	Conference dinner

Programme

Saturday 27 October

08:30-09:00 Breakfast

Session IV **Inter-organ regulation of islet cell function**
Chair: Professor Gary Lewis (BBDC)

09:00-09:30 Similarities and differences of nutrient sensing mechanisms in the gut, brain and beta cells

Professor **Tony Lam** (CA)

09:30-10:00 Disruption of the liver-alpha cell axis as a cause of type 2 diabetes

Professor **Jens Juul Holst** (DK)

10:00-10:30 Beta-cell dysfunction in T2D: role of inter-organ communication

Vice President **Chris Rhodes** (US)

10:30-11:00 Coffee break

Session V **Molecular mechanisms of beta cell function**
Chair: Professor George King (US)

11:00-11:30 Molecular regulation of insulin exocytosis

Professor **Herbert Gaisano** (CA)

11:30-12:00 Pharmacological regulation of glucagon secretion

Ass. Professor **Caroline Kramer** (CA)

12:00-12:30 Molecular pathways in the communication between the innate immune system and the beta cell

Professor **Thomas Mandrup-Poulsen** (DK)

12:30-14:00 Lunch

Session VI	Beta cell protection and recovery Chair: Professor Henning Beck-Nielsen (DK)
14:00-14:30	The role of beta cell recovery in achieving reversal of human type 2 diabetes Professor Roy Taylor (UK)
14:30-15:00	Harnessing beta cell proliferation to prevent progression of T1D Professor Rohit Kulkarni (US)
15:00-15:30	The role of T1D-associated genes as regulators of beta cell sensitivity to inflammatory damage Professor Joachim Størling (DK)
15:30-16:00	Pharmacological interventions for beta cell preservation Professor Ravi Retnakaran (CA)
16:00-16:30	Coffee break
16:30-17:30	Panel discussion
17:30-18:00	Concluding remarks, next meeting, refreshments

