



**Islet Society meeting,  
Nordic Sea Hotel,  
Stockholm, Sweden,  
Sunday 18 July, 16:00-  
21:30; Monday 19 July,  
09:00-22:30**

**Program**

**Sunday, 18 July, 16:00-21:30**

**16:00-18:00**

Arrival, check in, registration, coffee, poster display

**18:00-19:15**

Dinner; all registered participants are invited

**Session 1: 19:30-21:25. Chair: Peter Krippeit-Drews**

**19:30-19:35**

Md. Shahidul Islam, Karolinska Institutet, SE  
Introduction

**19:35-20:00**

Manami Hara, University of Chicago, US  
Pancreatic islet plasticity – Interspecies architectural differences and intraspecies changes under physiological and pathophysiological conditions

**20:00-20:05**

Discussion

**20:05-20:25**

Vipul Periwal, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)/NIH, US  
Neogenesis, growth, and fission of pancreatic islets

**20:25-20:30**

Discussion

**20:30-20:55**

Jens Høiriis Nielsen, University of Copenhagen, DK  
Regulation of beta cell mass: lessons from pregnancy

**20:55-21:00**

Discussion

**21:00-21:20**

Venant Tchokonte-Nana, School of Medicine, W.S.U, ZA

Gene expression profile versus morphological changes in PDL pancreas: A chronobiological study on the remodelling of Beta cells in the rats' pancreas

**21:20-21:25**

Discussion

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## **Monday, 19 July, 09:00-22:30**

**07:30-08:30**

Breakfast for participants staying in Nordic Sea Hotel

Poster display

Session 2: <b>09:00-10:50</b> . Chair: Noel Morgan
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**09:00-09:25**

James Johnson, University of British Columbia, CA

Regulation of beta-cell fate and maturity by local islets secreted factors

**09:25-09:30**

Discussion

**09:30-09:50**

Dan Luciani, University of British Columbia, CA

Loss of anti-apoptotic Bcl-xL or Bcl-2 enhances beta-cell glucose signalling

**09:50-09:55**

Discussion

**09:55-10:15**

Gitanjali Dharmadhikari, University of Bremen, DE

The Fas apoptotic inhibitory protein TOSO acts as a switch for proliferation in human beta-cells

**10:15-10:20**

Discussion

**10:20-10:45**

Ulf Ahlgren, Umeå University, SE

New aspects on pancreas development and type 1 diabetes disease aetiology revealed by optical projection tomography (OPT) imaging

**10:45-10:50**

Discussion

10:50-11:05

Break

Session 3: **11:05-12:30**. Chair: Manami Hara

**11:05-11:30**

Noel G. Morgan, Peninsula Medical School, UK  
The immunopathology of the Human Pancreas in Type 1 Diabetes

**11:30-11:35**

Discussion

**11:35-12:00**

Alexander V. Chervonsky, University of Chicago, USA  
Commensal microbes and type 1 diabetes

**12:00-12:05**

Discussion

**12:05-12:25**

Mari Cleide Sogayar, Universidade de São Paulo, BR  
Cell and molecular approaches aiming at human beta-cell replacement: the Brazilian experience

**12:25-12:30**

Discussion

12:30-13:30

Lunch

**13:30-15:25**

Free time

**15:30-16:00**

Coffee and mingle

Session 4: **16:00-17:30** Chair: Rudi Vennekens

**16:00-16:25**

Ernest Adeghate, UAE University, UAE  
Mechanism of GLP-1- and Exenatide-induced hypoglycemic effect in an animal model of diabetes: a pancreatic islet study

**16:25-16:30**

Discussion

**16:30-16:55**

Olof Idevall Hagren, Uppsala University, SE  
cAMP effectors in glucose-stimulated insulin secretion

**16:55-17:00**

Discussion

**17:00-17:25**

Antony Galione, University of Oxford, UK  
Role of NAADP-evoked calcium release and two-pore channels in stimulus-secretion coupling in mouse pancreatic beta-cells

**17:25-17:30**

Discussion

**17:30-17:45**

Break

Session 5: <b>17:45-20:30</b> . Chair: James Johnson
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**17:45-18:10**

Rudi Vennekens, Katholieke Universiteit Leuven, BE

A role for the transient receptor potential melastatin 5 (TRPM5) channel in glucose-induced oscillations in intracellular calcium and membrane potential in the pancreatic beta cells

**18:10-18:15**

Discussion

**18:15-18:40**

Martina Düfer, University of Tübingen, DE

Modulation of antioxidant defence mechanisms by inhibiting beta-cell KATP channels

**18:40-18:45**

Discussion

**18:45-19:10**

Gisela Drews, University of Tübingen, DE

Role of Ca<sup>2+</sup>-activated K<sup>+</sup> channels in pancreatic beta-cell function and survival

**19:10-19:15**

Discussion

**19:15-19:40**

Staffan Nilsson, Lund University, SE

Acoustically created “wall-less” test tubes for single beta-cell biology in type 2 diabetes related research

**19:40-19:45**

Discussion

**19:45-20:00**

Break

**20:15-22:15**

Dinner; all registered participants are invited