

**Boston Ithaca Islet Club Meeting
Sturbridge Host Hotel, Sturbridge, MA
May 9-10, 2009**

Saturday, May 9, 2009

Time	Description
12:00-1:25 p.m.	Registration
1:25 p.m.	Introduction
1:30-3:10 p.m.	Scientific Session 1: <u>Beta Cell Development and Survival</u> 25 minutes per presentation (including 10 minute Q&A)
	1:30-1:55 Mechanisms of β-cell growth in the Pdx1 haplodeficient mice
	Satish, Basanthi (1) Habibovic, Aida (1) Roskens, Violet (1) Herzer, Kristi (1) Leahy Jack (1) Jetton, Tom (1) Peshavaria, Mina (1) (presenter)
	(1) Medicine, University of Vermont, Burlington, VT
	1:55-2:20 Sel1l function and Pancreatic Development
	Long, Qiaoming (1) (presenter) Li, Shuai (1) Francisco, Adam (1) Vani, Anish (1) Munroe, Robert (2) Schimenti, John (2)
	(1) Department of Animal Science, College of Agriculture and Life Sciences, Cornell University, Ithaca, New York (2) Department of Biomedical Sciences, College of Veterinary Medicine, Cornell University, Ithaca, New York
	2:20-2:45 Beta Cell Growth Patterns During Nutrient Overabundance
	Everill, Brian Lausier, James Larock, Kyla Herzer, Kristi Peshavaria, Mina Jetton, Tom (presenter)
	Department of Medicine, University of Vermont, Burlington VT

2:45-3:10

Molecular cues of ducts in regenerating foci after 90% pancreatectomy in rats parallels that of embryonic pancreatic progenitors

Li,Wan-chun (1) (presenter)
Rukstalis,J Michael (2)
Nishimura,Wataru (1)
Habener,Joel F (2)
Sharma,Arun (1)
Bonner-Weir,Susan (1)

(1) Section of Islet Transplantation & Cell Biology, Joslin Diabetes Center, Harvard Medical School, Boston, 02215, Massachusetts, USA
(2) Laboratory of Molecular Endocrinology, Massachusetts General Hospital, Boston, MA 02114, USA

3:10-3:40 p.m.

Break

3:40-4:30 p.m.

Scientific Session 1 (continued): **Beta Cell Development and Survival**
25 minutes per presentation (including 10 minute Q&A)

3:40-4:05

High Fat and High Carbohydrate Diets Markedly Accelerate Diabetes in Mice Lacking Survivin

Kassai, Andrea (1) (presenter)
Wang, Haijuan (1)
Holloway, Michael (2)
Altura, Rachel (1,2)

(1) Pediatrics, Brown University, Providence, RI
(2) Pediatrics, Rhode Island Hospital, Providence, RI

4:05-4:30

Ovol1: a Novel Regulator of Pancreatic Endocrine Progenitors

Amedeo Vetere (1)
Wan-Chun Li (1) (presenter)
Federico Paroni (2)
Kirstine Juhl (1)
Lili Guo (1)
Wataru Nishimura (1)
Xing Da (3)
Susan Bonner-Weir (1)
Arun Sharma (1)

(1) Islet transplantation and Cell Biology, Joslin Diabetes Center, Boston, MA
(2) Centre for Biomolecular Interactions, University of Bremen, Bremen, Germany
(3) Department of Biological Chemistry & Developmental Biology Center, University of California, Irvine, CA

4:45-5:30 p.m.

PANEL

5:30-5:40 p.m.

Chip DeWitt
Research Foundation
American Diabetes Association

5:45 p.m.

Business meeting (Senior members only)

7:00 p.m.

Cocktail Reception

8:00 p.m.

Dinner and further discussion

Sunday, May 10, 2009

Time	Description
7:30-8:50 a.m.	Breakfast
9:00-11:10 a.m.	Scientific Session 2: <u>Islet Metabolism</u> 25 minutes per presentation (including 10 minute Q&A) 9:00-9:25 Isocitrate dehydrogenase 1 knockdown in INS 832/13 cells using siRNA enhances glucose-induced insulin secretion Guay, Claudiane (1) (presenter) Pepin, Émilie (1) Guèvremont, Mélanie (1) Madiraju, Murthy (1) Joly, Érik (1) Prentki, Marc (1) (1) Montreal Diabetes Research Center, Université de Montréal, Montreal, Quebec. 9:25-9:50 The Effect of Iron on Pancreatic Beta-Cells Ferrante, Tom (presenter) Corkey, Barbara E. Deeney, Jude T. (1) Department of Medicine, Boston University, Boston, MA 9:50-10:15 Study of the role of mitochondrial fusion in beta cells in vivo. Stiles, Linsey (1) (presenter) Molina, Anthony (1) Shirihai, Orian (1) (1) Department of Medicine, Boston University, Boston, MA 10:15-10:40 Effects of simultaneous infusion of glucose and intralipid on beta-cell function in rats Zarrouki, Bader (1) (presenter) Hagman, Derek K (1) Fontés, Ghislaine (1) Latour, Martin G (1) Semache, Meriem (1) Prentki, Marc (1,2) Poitout, Vincent (1,2,3) (1) Montréal Diabetes Research Center, CRCHUM, and Department of Medecine, University of Montréal, Montréal, QC, Canada.

(1,2) Montréal Diabetes Research Center, CRCHUM, and Departments of Nutrition, and Biochemistry, University of Montréal, Montréal, QC, Canada.

(1,2,3) Montréal Diabetes Research Center, CRCHUM, and Departments of Medicine, Nutrition, and Biochemistry, University of Montréal, Montréal, QC, Canada.

10:40-11:05

The mechanisms of hyperinsulinemia in GPX1 overexpressing mice

Wang XD(1)
Vatamaniuk MZ(1) (presenter)
Wang SK(1)
Roneker CA(1)
Simmons RA(2)
Lei XG(1).

(1) Department of Animal Science, Cornell University, Ithaca, NY

(2) Department of Pediatrics, Children's Hospital Philadelphia and University of Pennsylvania, Philadelphia, PA

11:05-11:30 a.m.

Break

11:30 a.m.-1:10 p.m.

Scientific Session 3: **Molecular Signaling in the beta cell**
25 minutes per presentation (including 10 minute Q&A)

11:30-11:55

Regulation of GPR40 gene expression

Kebede, Melkam (1) (presenter)
Alquier, Thierry (2)
Poitout, Vincent (1,2)

(1) Montréal Diabetes Research Center, CRCHUM; and Departments of Medicine, University of Montréal, Montréal, QC, Canada

(2) Montréal Diabetes Research Center, CRCHUM; and Departments of Medicine, Nutrition and Biochemistry, University of Montréal, Montréal, QC, Canada

11:55-12:20

Store-operated Ca²⁺ entry: Orai1 and iPLA2b as new determinants of beta cell function

Severova, Severina(1) (presenter)
Yang, Bo (1)
Tomas Gwozdz(1)
Richard, Ann-Marie (2)
Deeney, Jude (2)
Corkey, Barbara (2)
Bolotina, Victoria (1)

(1) Ion Channel and Calcium Signaling Unit/Molecular Medicine, Boston University School of Medicine, Boston MA.

(2) Diabetes and Metabolism Unit/Molecular Medicine, Boston University School of Medicine, Boston MA.

12:20-12:45

Potential interaction of PPARgamma and the Wnt signalling pathway in pancreatic beta-cells

Welters, Hannah (1) (presenter)

Meyer, John (1)

Smith, Dave (2)

Kulkarni Rohit (1)

(1)Department of Cellular and Molecular Physiology, Joslin Diabetes Center, Boston, MA

(2)AstraZeneca, Alderley Park, Macclesfield,UK

12:45-1:10

In vivo interactions between GLP-1 and insulin signaling in pancreatic β -cells

Kawamori, Dan (1) (presenter)

Liew, Chong Wee (1)

Kurpad, Amarnath (1)

Hu, Jiang (1)

Duttaroy, Alokesh (2)

Burkey, Bryan (2)

Kulkarni, Rohit (1)

1.Cellular and Molecular Physiology, Joslin Diabetes Center and Harvard Medical School, Boston, MA

2.Diabetes/Metabolism Department, Novartis Institutes for Biomedical Research, Cambridge, MA

1:10-2:30 p.m.

Lunch