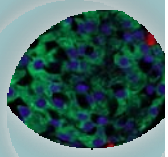
RITSUMEIKAN GLOBAL INNOVATION RESEARCH ORGANIZATION
R-GIRO

Pancreatic β-cell ~Mini-Symposium~

Innovative approaches to understanding pancreatic β-cell function



Date: January 28th, 2013
Location: Ritsumeikan University (BKC), Epock Ritsumei 21 (1F), Epock Hall
http://www.ritsumei.jp/accessmap/accessmap_bkc_j.html

~ Opening ~ 10:00~10:15

Oral Presentations:

"Protecting pancreatic islets with immuno-privileged cell types: co-aggregation and manipulation of emergent organization."
Ian Torao Hoffecker Graduate student, Institute for Frontier Medical Sciences, KyotoUniversity 10:15~11:00

"Application of metabolomics to the study of insulin secretion."
Susumu Seino Professor of Divisions of Diabetes and Endocrinology/Cellular and Molecular Medicine, Kobe University 11:00~11:45

~ Lunch Break~ 11:45~13:00

"Measuring the beta cell reaction by the micro device."
Hidetoshi Kotera Executive Vice-President for External Strategy, Knowledge & Technology Transfer and Innovation, Kyoto University 13:00~13:45

"Non-Selective Cation Channels and Store-Operated Ca-Entry in pancreatic beta cells."
Colin A. Leech Associate Professor, State University of New York Upstate Medical University 13:45~14:30

"A modeling analysis of GLP-1 effects on membrane excitability in pancreatic β-cells."
Yukari Takeda Postdoctoral Fellow of Ritsumeikan Global Innovation Research Organization, Ritsumeikan University 14:30~15:15

~ Poster session & Coffee break ~ 15:15~16:15

"Genetically-encoded biosensor for ATP: Development and its application to insulin-secreting cells."
Hiromi Imamura Associate Professor, The Hakubi Center for Advanced Research & Graduate School of Biostudies, Kyoto University 16:15~17:00

"A Novel Phosphoinositide-Specific Phospholipase C-Epsilon Links Epac2 Activation to Islet Insulin Secretion."
Presentation include:
1. Overview of beta-cell stimulus-secretion coupling.
2. Potential Role of Epac2/PLC-epsilon in Ca2+ handling, excitability, and exocytosis.
3. New Epac2 inhibitors / Collaboration with Dr. Xiaodong Cheng.
   B12-GLP-1 / Collaboration with Dr. Robert P. Doyle.
   Regulation of GLP-1 biosynthesis by GPR119 in L-cells.
4. Conclusion : Insights concerning how to model beta-cell function: interaction of glucose and GLP-1.

George G. Holz Professor of Medicine and Pharmacology, State University of New York Upstate Medical University 17:00~18:00

~ Reception at Epock Ritsumei 21 (3F) for invited guests ~ 18:15~20:30

Poster Presentations:

1) ***"Activation of non-selective cation channels by GLP-1exposure sensitizes glucose-stimulated insulin secretion via membrane depolarization in pancreatic β-cells."*** **Masashi Yoshida**, Jichi Medical University, Saitama Medical Center

2) ***"Actin dynamics regulated by N-WASP and cofilin determines the phasic response of glucose-induced insulin secretion."*** **Tadao Shibasaki**, Division of Cellular and Molecular Medicine, Kobe University Graduate School of Medicine

3) ***"Interaction of sulfonylurea and cAMP through Epac2 in insulin secretion."*** **Harumi Takahashi**, Division of Cellular and Molecular Medicine, Kobe University Graduate School of Medicine

4) ***"Palmitate Induces Beta-Cell Dysfunction by Activating HADPH Oxidase Through via the Src Kinase Signaling."*** **Yuichi Sato**, Department of Diabetes and Clinical Nutrition, Graduated School of Medicine, Kyoto University

5) ***"The Effect of High-Fat Diet Induced Obesity on GIP Secretion from K-Cells."*** **Kazuyo Suzuki**, Department of Diabetes and Clinical Nutrition, Graduated School of Medicine, Kyoto University

6) ***"Assessment of Gene Expression in Enteroendocrine K-Cells."*** **Kazuki Sasaki**, Department of Diabetes and Clinical Nutrition, Graduated School of Medicine, Kyoto University

7) ***"Lowering GIP Secretion has Beneficial Role in Reducing Obesity and Insulin Resistance Without Impairing Glucose Tolerance and Osteogenesis."*** **Daniela Nasteska**, Department of Diabetes and Clinical Nutrition, Graduated School of Medicine, Kyoto University

8) ***"SKIP Inhibits Glucose-Stimulated and Incretin-Enhanced Insulin Secretion."*** **Yu Wang**, Department of Diabetes and Clinical Nutrition, Graduated School of Medicine, Kyoto University

Ritsumeikan University Biwako-kusatsu Campus, Graduate School of Life Science（host: Akinori Noma MD, PhD)
If you have any questions concerning the symposium please E-mail Yukari Takeda at yukari@fc.ritsumei.ac.jp