

Core-to-Core Project sponsored by JSPS
“New Insights into the Molecular Basis of Prevention of Diseases
in the Aging Society Caused by Modulation of Insulin-Like Activities”
(FY2012-FY2017)

INTERNATIONAL SEMINAR

**Insulin-like activities and their related-diseases in aging
from the aspects of basic and translational medicine**

DATE: 25th August 2012

VENUE: Nakashima Hall, Food Sciences Bldg,
Graduate School of Agricultural and Life Sciences, The University of Tokyo

Introduction

10:00 – 10:15 **Regulation of insulin-like activities and its physiological significance**

Shin-Ichiro Takahashi (Graduate School of Agricultural and Life Sciences, The University of Tokyo)

Molecular mechanisms of regulation of intracellular signaling

Chair: Satoshi Tanaka (Graduate School of Agricultural and Life Sciences, The University of Tokyo)

10:15 – 11:00 **Regulation of gene expression by RNA splicing and its disruption in RNA diseases**

Naoyuki Kataoka (School of Medicine, Kyoto University)

11:00 – 11:45 **Regulation of energy metabolism and cancer cell motility by protein acetylation**

Akihiro Ito (Chemical Genetics Laboratory, RIKEN Advanced Science Institute)

Lunch Break

Chair: Asako Takenaka (School of Agriculture, Meiji University)

13:00 – 13:45 **Binding partners of insulin receptor substrates (IRSs) modulated insulin-like bioactivities**

Fumihiko Hakuno (Graduate School of Agricultural and Life Sciences, The University of Tokyo)

13:45 – 14:30 **Regulation by ubiquitin-proteasome system**

Yasushi Saeki (Laboratory of Protein Metabolism, Tokyo Metropolitan Institute of Medical Science)

Break

Modulation of insulin-like signaling and diseases

Chair: Jun Nakae (School of Medicine, Keio University)

14:45 – 15:30 **Molecular mechanisms of the modulation of insulin-like activities in diabetes:
Roles of insulin receptor substrates (IRSs)-associated proteins**

Toshiaki Fukushima (Institute of Biomedical and Health Sciences, Hiroshima University)

15:30 – 16:15 **Insulin-like growth factor (IGF)-I and atherosclerosis**

Yusuke Higashi (School of Medicine, Tulane University)

Break

Chair: Kazuhiro Chida (Graduate School of Agricultural and Life Sciences, The University of Tokyo) and
Takeshi Nishijima (Graduate School of Human Health Sciences, Tokyo Metropolitan University)

16:30 – 17:15 **Biasing IGF-1R Signaling through G-protein coupled receptors (GPCR):
Functional and therapeutic implications in malignancy**

Leonard Girnita (Cancer Center, Karolinska)

17:15 – 18:00 **Insulin peptides in brain diseases: Focus in Alzheimer's dementia**

Ignacio Torres Aleman (Instituto Cajal, The Spanish Research Council)

Closing remarks

18:00 – 18:10 **Our future plan on core-to-core project**

Shin-Ichiro Takahashi (Graduate School of Agricultural and Life Sciences, The University of Tokyo)