

# The 11th Adiposcience Symposium

## New Approach to Adiposcience - From Adipocyte Development to Metabolic Syndrome -

9:00-18:35 August 19 (Sat), 2006  
Senri Hankyu Hotel, Osaka, Japan

### Opening Remarks

9:00-9:05 Teruo Kawada (Graduate School of Agriculture, Kyoto University)

### I. Molecular Mechanisms of Food Intake and Energy Metabolism

Chairperson: Takashi Kadowaki (Graduate School of Medicine, The University of Tokyo)

9:05-9:30 The Mechanism of Energy Metabolism in Adipocytes  
? Yoshikazu Tamori (Graduate School of Medicine, Kobe University)

9:30-9:55 Brain-Adipose Axis and a New Anorexigenic Molecule  
? Hiroyuki Shimizu (Graduate School of Medicine, Gunma University)

9:55-10:25 Novel Inter-Organ Communication Involved in Glucose and Energy Homeostasis  
? Hideki Katagiri (Graduate School of Medicine, Tohoku University)

### Coffee Break 10:25-10:40

### II. Implication of Adipocytokine and Metabolic Syndrome (1)

Chairperson: Masatomo Mori (Graduate School of Medicine, Gunma University)

10:40-11:05 The Role of Adiponectin in Cardiovascular Disease  
? Shinji Kihara (Graduate School of Medicine, Osaka University)

11:05-11:30 Pathophysiological Roles of Adipokine Network in Metabolic Syndrome  
? Toshimasa Yamauchi (Graduate School of Medicine, The University of Tokyo)

11:30-12:00 Structural Properties of Adipocytokines  
? Yuji Kobayashi (Osaka University of Pharmaceutical Sciences)

### Lunch & Poster Session 12:00-14:00

### III. Implication of Adipocytokine and Metabolic Syndrome (2)

Chairperson: Masato Kasuga (Graduate School of Medicine, Kobe University)

14:00-14:25 Clinical Application of Leptin in the Treatment of Diabetes  
? Ken Ebihara (Graduate School of Medicine, Kyoto University)

14:25-14:55 Role of Oxidative Stress and the JNK Pathway in Pancreatic  $\beta$ -Cell Glucose Toxicity  
? Hideaki Kaneto (Graduate School of Medicine, Osaka University)

### Special Lecture I

Chairperson: Kazuwa Nakao (Graduate School of Medicine, Kyoto University)

14:55-15:45 Stem Cells Isolated from Human Adipose Tissue: A New Tool for Pharmacology and for Medicine  
? Christian Dani (CNRS Université de Nice Sophia-Antipolis)

### Coffee Break 15:45-16:00

【Program】

**IV. Molecular Biology of Adipose Tissue**

Chairperson: Yoshihiro Ogawa (Medical Research Institute, Tokyo Medical and Dental University)

16:00-16:30 Ear Mesenchymal Stem Cells (EMSC) from Regenerative and Non-Regenerative Mice Provides a New in vitro Model Cell System for Adipogenesis

? Barbara Kozak (Pennington Biomedical Research Center, Louisiana State University)

16:30-17:00 Adipose-Derived Stem Cells with Multiple Potential of Differentiation

? Yasuo Kitagawa (Graduate School of Bioagricultural Sciences, Nagoya University)

17:00-17:30 Origin of Mesenchymal Stem Cells

? Takumi Era (Center for Developmental Biology, RIKEN)

**Special Lecture II**

Chairperson: Yuji Matsuzawa (Sumitomo Hospital)

17:30-18:20 Epigenetics and Variation in Susceptibility to Diet-Induced Obesity.

? Leslie P. Kozak (Pennington Biomedical Research Center, Louisiana State University)

**Poster Award**

18:20-18:30 Yuji Matsuzawa (Sumitomo Hospital)

**Closing Remarks**

18:30-18:35 Takashi Kadowaki (Graduate School of Medicine, The University of Tokyo)