

NAME: Waka Omata, M.P.H., Ph.D.

APPOINTMENTS AND POSITIONS:

2008- **Post Doctoral Researcher**, Department of Pathology, The Ohio State University Medical Center, Ohio, USA

1993- **Senior Research Technician**, Department of Cell Biology, Gunma University IMCR, Gunma, Japan

EDUCATION & DEGREES:

2007 **Ph.D. Gunma University of Graduate School of Engineering**, Gunma, Japan

1993 **M.P.H. National Institute of Public Health (The Institute of Public Health)**, Tokyo, Japan

1992 **B.S. Tokyo University of Science**, Tokyo, Japan

RESEARCH SUPPORTS:

2007 **Research support for young scientists**, Gunma University IMCR, Japan “The involvement of ubiquitylation in insulin-induced GLUT4 degradation” (500,000yen, equivalent to approximately 5,000 US Dollars.)

2005 **Research support for young scientists**, Gunma University, Japan “Characterization of a novel modulation mechanism of insulin sensitivity by SUMO-conjugating enzyme Ubc9” (700,000yen, equivalent to approximately 7,000 US Dollars.)

SCIENTIFIC SKILLS:

Preparation of isolated rat adipose cells

Subcellular membrane fractionation

Western blot analysis

Immunohistochemistry

Fluorescence microscopy

Isotope experiments

Cell culture, transfection, Elisa,

TEACHING EXPERIENCES:

1995-1997 Instructor of Physiology (part-time), Maebashi Nursing School, Gunma, Japan

BIBLIOGRAPHY:

Omata W, Shibata H, Nagasawa M, Kojima I, Kikuchi H, Oshima Y, Hosaka K, Kubohara Y. Dictyostelium differentiation-inducing factor-1 induces glucose transporter 1 translocation and promotes glucose uptake in mammalian cells. *FEBS J.* 2007 Jul; 274(13):3392-404.

Liu LB, **Omata W**, Kojima I, Shibata H. The SUMO conjugating enzyme Ubc9 is a regulator of GLUT4 turnover and targeting to the insulin-responsive storage compartment in 3T3-L1 adipocytes. *Diabetes.* 2007 Aug; 56(8):1977-85.

Omata W, Suzuki Y, Kojima I, Shibata H. Duality in the mastoparan action on glucose transport in rat adipocytes. *Endocr J.* 2005 Aug; 52(4):395-405.

Liu LB, **Omata W**, Kojima I, Shibata H. Insulin recruits GLUT4 from distinct compartments via distinct traffic pathways with differential microtubule dependence in rat adipocytes. *J Biol Chem.* 2003 Aug 8; 278(32):30157-69

Li L, **Omata W**, Kojima I, Shibata H. Direct interaction of Rab4 with syntaxin 4. *J Biol Chem.* 2001 Feb 16; 276(7):5265-73.

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