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Education

Ph.D. 2012 Graduate School of Nutritional and Environmental Sciences, University of Shizuoka

MS 2006 Graduate School of Nutritional and Environmental Sciences, University of Shizuoka

BS 2004 School of Food and Nutritional Sciences, University of Shizuoka

Employment

2015-present Research Assistant Professor, Laboratory of Physiology, School of Food and Nutritional
Sciences / Graduate Division of Nutritional and Environmental Sciences, University of
Shizuoka

2014-2015 Lecturer, Department of Registered Dietitians, Faculty of Health and Welfare, Tokai Gakuin
University

2009-2015 Assistant, Department of Nutrition, Faculty of Health Care, Kiryu University

2006-2009 Assistant, Department of Nutrition and Dietetics, Faculty of Family and Consumer Sciences,
Kamakura Women's University

Journal articles

1. Functional Assessment of Intestinal Tight Junction Barrier and Ion Permeability in Native Tissue by Ussing Chamber Technique. *J Vis Exp.* 171, 2021
2. Inverse regulation of claudin-2 and -7 expression by p53 and hepatocyte nuclear factor 4 α in colonic MCE301 cells. *Tissue Barriers.* 9(1), 1860409, 2021
3. Angulin-2/ILDR1, a tricellular tight junction protein, does not affect water transport in the mouse large intestine. *Sci Rep.* 10, 10374, 2020
4. Upregulation of Claudin-7 Expression by Angiotensin II in Colonic Epithelial Cells of Mice Fed with NaCl-Depleted Diets *Int J Mol Sci.* 21, 1442, 2020
5. Na⁺-Coupled Nutrient Cotransport Induced Luminal Negative Potential and Claudin-15 Play an Important Role in Paracellular Na⁺ Recycling in Mouse Small Intestine. *Int J Mol Sci.* 21(2), E376, 2020
6. The Mode of Action of NHE3 Inhibitors in Intestinal Na⁺ Absorption. *Gastro Med Res.* 4(1), 297-301, 2019
7. Luminal Na⁺ homeostasis has an important role in intestinal peptide absorption in vivo. *Am J Physiol.*

315, 799-809, 2018

8. Up-regulation of claudin-2 expression by aldosterone in colonic epithelial cells of mice fed with NaCl-depleted diets. *Sci rep.* 7(1), 12223, 2017
9. Vagal hyperactivity due to ventromedial hypothalamic (VMH) lesions increases adiponectin production and release. *Diabetes.* 63(5), 1637-48, 2014
10. Enhanced expression of nesfatin/nucleobindin-2 in white adipose tissue of ventromedial hypothalamus-lesioned rats. *Neuroscience Letters.* 521, 46-51, 2012
11. Ventromedial hypothalamic lesions enhance small intestinal cell proliferation in mice. *Obesity Research & Clinical Practice.* 6, e241-e247, 2012
12. Cell proliferation in ventromedial hypothalamic lesioned rats inhibits acute gastric mucosal lesions. *Obesity Research & Clinical Practice.* 6, e233-e240, 2012
13. Masked function of amino acid sensors on pancreatic hormone secretion in ventromedial hypothalamic (VMH) lesioned rats with marked hyperinsulinemia. *Obesity Research & Clinical Practice.* 6, e225-e232, 2012
14. Beneficial effects of ventromedial hypothalamus (VMH) lesioning on function and morphology of the liver after hepatectomy in rats. *Brain Res.* 1421, 82-9, 2011
15. Enhanced Exercise-Induced Muscle Damage and Muscle Protein Degradation in Streptozotocin-Induced Type 2 Diabetic Rats. *Journal of Diabetes Investigation.* 2(6), 423-428, 2011
16. Cell proliferation in visceral organs induced by ventromedial hypothalamic (VMH) lesions: Development of electrical VMH lesions in mice and resulting pathophysiological profiles. *Endocrine Journal* 58(4), 247-56, 2011
17. High cardiovascular risk factors among obese children in an urban area of Japan. *Obesity Research & Clinical Practice.* 4, e333-e337, 2010
18. Gene expression profiling in rat pancreas after VMH lesioning. *Pancreas.* 39(5), 627-32, 2010
19. VMH lesions downregulate the expression of Per2 gene in the pancreas in the rat. *Neuroscience Letters.* 471(3), 148-51, 2010