Link to Research Activity

CURRICULUM VITAE

Yasuaki KAWARASAKI, PhD.
Assoc. Professor

OFFICE ADDRESS

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EDUCATION

1997	PhD degree, Agricultural Sciences, Nagoya University (the dissertation title: Study of cell-free protein synthesis)
1992-1997	Graduate School of Agricultural Science, Nagoya University
1988-1992	School of Agricultural Science, Nagoya University

EMPLOYMENT

2006-present	Associate Professor, University of Shizuoka • School of Food and Nutritional Sciences (2006-present) • Graduate School of Integrated Pharmaceutical and Nutritional Sciences (2012-present) • Graduate School of Nutrition and Environmental Sciences (2006-2012)
2002-2004	Post-doctoral Researcher (Faculty Staff), Dept. Chemical Engineering, University of Texas at Austin
1998-2006	Assistant Professor, Graduate School of Bio and Agricultural Sciences, Nagoya University
1997-1997	Special post-doctoral fellow, Institute of Physical and Chemical Research

PROFESSIONAL ACTIVITIES

Memberships in;

- Japanese Society for Bioscience, Biotechnology and Agrochemistry (JSBBA)
- Society for Biotechnology, Japan (SFBJ)
- The Molecular Biology Society of Japan (MBSJ)
- American Chemical Society (ACS)
- Association of Combinatorial Bioengineering (ACB)
- Japanese Association of Enzyme Engineering
- Japan Bioindustry Association (JBA)
- Shizuoka Bioscience Forum (SBF)
- Asian Federation of Biotechnology (AFOB)

HONORS/AWARDS

- Takeda Science Foundation for Life Science Researches 2014
- Awards for the Excellent Papers 2004, J. Biosci. Bioeng.

KEYWORDS in PRESENT RESEARCHES

- Biomolecular engineering based on directed evolution and protein engineering
- Functional genomics based on interactome and reverse-interactome analysis

SELECTED PUBLICATIONS

1. Lan V.T.T., Ito K., Ito S., and Kawarasaki Y.: Trp-Arg-Xaa tripeptides act as uncompetitive-type inhibitors of human dipeptidyl peptidase IV, *Peptides*, 54, 166-70 (2014)
2. Lan V.T.T., Ito K., Ohno M., Motoyama T., Ito S., Kawarasaki Y.: Analyzing a dipeptide library to identify human dipeptidyl peptidase IV inhibitor. *Food Chem.* 175, 66-73 (2015)
3. Kawarasaki Y., Kurose T., Ito K.: High cell-density expression system: Yeast cells in a phalanx efficiently produce a certain range of "difficult-to-express" secretory recombinant proteins, *Method. Mol. Biol.* 1258 "Insoluble Proteins: Methods and Protocols" Part 9, ed. by Elena Garcia-Fruitos, Humana Press (2014)
4. Kurose T., Saito Y., Kimata K., Nakagawa Y., Yano A., Ito K., and Kawarasaki Y.: Secretory expression of *Lentinula edodes* intracellular laccase by yeast high-cell-density system: a sub-milligram production of "difficult-to-express" secretory protein. *J. Biosci. Bioeng.* 117, 659-663 (2014).
5. Hikida A., *Ito K., Motoyama T., Kato R., Kawarasaki Y.: Systematic analysis of a dipeptide library for inhibitor development using human dipeptidyl peptidase IV produced by a *Saccharomyces cerevisiae* expression system. *Biochem. Biophys. Res. Commun.* **430**, 1217-22 (2013).
6. Ito K, Hikida A, Kawai S, Lan VT, Motoyama T, Kitagawa S, Yoshikawa Y, Kato R, Kawarasaki Y.: Analysing the substrate multispecificity of a proton-coupled oligopeptide transporter using a dipeptide library. *Nat Commun.* 4:2502 doi: 10.1038/ncomms3502, (2013)
7. Kimata K., Yamaguchi M., Saito Y., Hata H., Miyake K., Yamane T., Nakagawa Y., Yano A., Ito K., and *Kawarasaki Y., High cell-density expression system: A novel method for extracellular production of "difficult-to-express" proteins. *J. Biosci. Bioeng.* 113, 154-159 (2012)
8. Ito K., *Ito S., Shimamura T., Weyand S., Kawarasaki Y., Misaka T., Abe K., Kobayashi T., Cameron A., and Iwata S. Crystal structure of glucansucrase from dental caries pathogen Streptococcus mutans. *J. Mol. Biol.,* 408, 177-186 (2011)
9. Kamiya T, Ojima T, Sugimoto K, Nakano H, Kawarasaki Y. Quantitative Y2H screening: Cloning and signal peptide engineering of a fungal secretory LacA gene and its application to yeast two-hybrid system as a quantitative reporter. *J. Biotechnol.* 146 , 151-159, (2010)
10. Ikeuchi A., Kamiya T., Sugimoto K., Yamane T., Nakano H., and Kawarasaki Y., A method for reverse interactome analysis: High-resolution mapping of Interdomain interaction network in Dam1 complex and its specific disorganization based on interaction domain expression. *Biotech. Progr*. 26, 945-953 (2010)

TEACHING EXPERIENCE

Associate Professor, School of Food and Nutritional Sciences, University of Shizuoka, 2006-present

Subjects in charge: Genetic engineering; Molecular Biology; English for food science II; Exercise course for genetic engineering and microbial engineering; Advanced course for biomolecular engineering (for graduate students);

Assistant Professor, Graduate School of Bio and Agricultural Sciences, Nagoya University, 1998-2006.

Subjects/duties in charge: Exercise course for molecular biology and genetic engineering; Advanced course for molecular biotechnology; Technical consultation for graduate students and undergraduates (laboratory works)

TEACHING CERTIFICATES (domestically valid licenses)

1994	High school teacher (Agriculture)
1992	High school teacher (Science)-Class 1
1992	Middle school teacher (Science)-Class 2

The document issued: Feb 18, 2016