

## CURRICULUM VITAE

NAME: Hironori Hondoh

TITLE: Associate Professor

AFFILIATION: Food Physics, Department of Food Science and Biotechnology,  
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### EDUCATION:

Ph.D. Graduate School of Science, Osaka University, 2003

M.S. Graduate School of Science Tohoku University, 2000

B.S. Faculty of Science, Tohoku University, 1998

### ACADEMIC CAREER HISTORY:

2003-2007. College of Science and Engineering, Ritsumeikan University

2007-2010. JSPS Research Fellowship for Young Scientists

2010. Hokkaido Agricultural Research Center, NARO

2010-2019. School of Applied Biological Science, Hiroshima University

2019- School of Food and Nutritional Sciences, University of Shizuoka

## RECENT WORKS

### Publication:

1. *J. Am. Oil Chem. Soc.* **95** (2018), 709-720.

C. Ishibashi, H. Hondoh, S. Ueno.

“Influence of Fatty Acid Moieties of Sorbitan Esters on Polymorphic Occurrence of the Palm Mid-Fraction”

2. *Cryst. Growth Des.*, **18** 2018, 4226–4229.

Yoshihisa Suzuki\*, Hideaki Tsuge, Hironori Hondoh, Yusuke Kato, Yuta Uehara, Nobuo Maita, Kohei Hosokawa, and Shoko Ueta

“Precipitant-Free Lysozyme Crystals Grown by Centrifugal Concentration Reveal Structural Changes”

3. *Cryst. Growth & Design*, **17** (2017) 6363-6371.

C. Ishibashi, H. Hondoh\*, S. Ueno.

“Epitaxial Growth of Fat Crystals on Emulsifier Crystals with Different Fatty Acid Moieties”

4. *Food Research International*, (2016), 89. 604-613.

C. Ishibashi, Hironori Hondoh\*, Satoru Ueno

“Influence of morphology and polymorph of fat crystals on the freeze-thaw stability of mayonnaise-type O/W emulsion”

5. *Food Structure*, (2016), **8**, 8-15.

Hironori Hondoh\*, Kenta Yamasaki, Miharuru Ikutake, Satoru Ueno

“Visualization of oil migration in chocolate using scanning electron microscopy - energy dispersion X-ray spectroscopy”

6. *FEBS letters*, (2015), **589**, 865–869.

Wataru Saburi, Hiroaki Rachi-Otsuka, Hironori Hondoh, Masayuki Okuyama, Haruhide Mori, Atsuo Kimura

“Structural elements responsible for the glucosidic linkage-selectivity of a glycoside hydrolase family 13 exo-glucosidase”

7. *FEBS letters*, (2015), **589**, 484–489.

Momoko Kobayashi, Wataru Saburi, Daichi Nakatsuka, Hironori Hondoh, Koji Kato, Masayuki Okuyama, Haruhide Mori, Atsuo Kimura, Min Yao

“Structural insights into the catalytic reaction that is involved in the reorientation of Trp238 at the substrate-binding site in GH13 dextran glucosidase”

BOOK:

Hironori Hondoh, Satoru Ueno, Kiyotaka Sato: “Crystallization of Lipids - Fundamentals and Applications in Food, Cosmetics and Pharmaceuticals (Ed. K. Sato) Chapter 4. Fundamental Aspects of Crystallization of Lipids” Wiley-Blackwell, pp. 105-142, 2018.

Okuyama, M, Mori, H, Hondoh, H, Nakai, H, Saburi, W, Kang, MS, Kim, YM, Nishimoto, M, Wongchawalit, J, Yamamoto, T, Son, M, Lee, JH, Mar, SS, Fukuda, K, Chiba, S, Kimura, A: Molecular mechanism of  $\alpha$ -glucosidase. “Carbohydrate-active enzymes: structure, function, and applications”, ed. by Park K-H, Woodhead Publishing Ltd. (Cambridge, UK), pp.64-76, 2008.