

CURRICULUM VITAE

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Date of birth: February, 1976

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Education:

2003 Graduate School of Agricultural and Life Sciences, The University of Tokyo (Ph.D.)
Agricultural Chemistry

Dissertation: X-ray crystal structural analysis of ADP-dependent glucokinase from hyperthermophilic archaeon

2000 Graduate School of Agricultural and Life Sciences, The University of Tokyo (Master)

1998 Faculty of Agriculture, The University of Tokyo (Bachelor)

Faculty Appointments:

2012-present Associate Professor, University of Shizuoka

2007 Assistant Professor, University of Shizuoka

2003 Research Assistant Professor, University of Shizuoka

2003 Postdoctoral Fellow, Japan Society for the Promotion Science, the University of Tokyo

Award:

The Research Encouragement Prize (9th Symposium on Enzyme Application)

Publication List:

1. S. Ito, K. Ito, T. Shimamura, S. Weyand, T. Kawarasaki, T. Misaka, K. Abe, T. Kobayashi, A.D. Cameron, and S. Iwata: Crystal structure of glucansucrase from the dental caries pathogen *Streptococcus mutans*. *J. Mol. Biol.* **29**, 177-186 (2011)
2. T. Ishii, T. Ichikawa, K. Minoda, K. Kusaka, S. Ito, Y. Suzuki, M. Akagawa, K. Mochizuki, T. Goda, T. Nakayama: Human serum albumin as an antioxidant in the oxidation of (-)-epigallocatechin gallate: participation of reversible covalent binding for interaction and stabilization. *Biosci. Biotechnol. Biochem.* **75**, 100-106 (2011)
3. S. Ito, Y. Saito, A.M. Koltunow, and H. Sakai: Crystallization and preliminary X-ray analysis of geraniol dehydrogenase from *Backhousia citriodora* (lemon myrtle). *Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun.* **67**, 665-667 (2011)
4. S. Takahiro, K. Yuuki, M. Akihiro, M. Hitoshi, S. Ito, A. Yukio, Oe, Sho, and K. Uchida: Transthiocarbamylation of Proteins by Thiolated Isohiocyanate. *J. Biol. Chem.* **286**, 42150-42161 (2011)
5. S. Ito, M. Sugiura, Y. Saito, N. Yasuo, A.M. Koltunow, O. Sugimoto, and H. Sakai: Molecular Cloning and Characterization of Linalool Synthase from Lemon Myrtle. *Biosci. Biotechnol. Biochem.*, **75** (7), 1245-1248 (2011)

6. K. Ito, S. Ito, T. Shimamura, Y. Kawarasaki, K. Abe, T. Misaka, T. Kobayashi, and S. Iwata: Crystallization and preliminary X-ray analysis of a glucansucrase from the dental caries pathogen *Streptococcus mutans*. *Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun.* **66**, 1086-1088, (2010) IF 値 0.563
7. N. Otaki, M. Chikazawa, R. Nagae, Y. Shimozu, T. Shibata, S. Ito, Y. Takasaki, J. Fujii, and K. Uchida: Identification of a lipid peroxidation product as the source of oxidation-specific epitopes recognized by anti-DNA autoantibodies. *J. Biol. Chem.* **285**, 33834-33842 (2010)
8. S. Yamaguchi, G. Aldini, S. Ito, N. Morishaita, T. Shibata, G. Cistoli, M. Carini, and K. Uchida: Δ 12-Prostaglandin J2 as a product and ligand of human serum albumin: Formation of an unusual covalent adduct at His146. *J. Am. Chem. Soc.*, **132**, 824-832 (2010)
9. C. Wakita, T. Maeshima, A. Yamazaki, T. Shibata, S. Ito, M. Akagawa, M. Ojika, J. Todoi, and K. Uchida: Stereochemical Configuration of 4-Hydroxy-2-nonenal-Cysteine Adducts and Their Stereoselective Formation in a Redox-regulated Protein. *J. Biol. Chem.* **284**, 28810-28822 (2009)
10. K. Suzuki, S. Ito, A. Shimizu-Ibuka, and H. Sakai: Crystal Structure of Pyruvate Kinase from *Geobacillus stearothermophilus*. *J. Biochem.* **144**, 305-312 (2008)
11. T. Ishii, S. Ito, S. Kumazawa, T. Sakurai, S. Yamaguchi, T. Mori, T. Nakayama, and K. Uchida: Site-specific modification of positively-charged surfaces on human serum albumin by malondialdehyde. *Biochem. Biophys. Res. Comm.* **371**, 28-32 (2008)
12. K. Ito, S. Ito, K. Ishino, A. Shimizu-Ibuka, and H. Sakai: Val326 of *Thermoactinomyces vulgaris* R-47 amylase II modulates the preference for alpha-(1,4)- and alpha-(1,6)-glycosidic linkages. *Biochem. Biophys. Acta* **1774**, 443-449 (2007)
13. K. Toyoda, R. Nagae, M. Akagawa, K. Ishino, T. Shibata, S. Ito, N. Shibata, T. Kobayashi, Y. Takasaki, T. Matsuda, and K. Uchida: Protein-bound 4-Hydroxy-2-nonenal An endogenous triggering antigen of anti-DNA response. *J. Biol. Chem.* **282**, 25769-25778 (2007)
14. S. Ito, M. Akagawa, K. Toyoda, Y. Ishii, E. Tatsuda, T. Shibata, S. Yamaguchi, Y. Kawai, K. Ishino, Y. Kishi, T. Adachi, T. Tsubata, Y. Takasaki, N. Hattori, T. Matsuda, K. Uchida: Bispecific Abs against modified protein and DNA with oxidized lipids. *Proc. Natl. Acad. Sci. USA* **103**, 6160-6165 (2006)
15. S. Ito, E. Tatsuda, K. Ishino, K. Suzuki, H. Sakai, and K. Uchida: Crystallization and molecular-replacement studies of the monoclonal antibody mAbR310 specific for the-modified protein. *Acta Crystallog. Section F* **62**, 562-564 (2006) Corresponding author
16. K. Suzuki, S. Ito, A. Shimizu-Ibuka, and H. Sakai: Crystallization and preliminary X-ray analysis of pyruvate kinase from *Bacillus stearothermophilus*. *Acta Crystallographica Section F* **61**, 759-761 (2005)
17. S. Ito, J. J. Jeong, I. Yoshioka, S. Koga, S. Fushinobu, H. Shoun, and T. Wakagi: Crystal Structure of an ADP-dependent Glucokinase from *Pyrococcus furiosus*: Implications for a Sugar-induced Conformational Change in ADP-dependent Kinase. *J. Mol. Biol.* **331**, 871-883 (2003)
18. J.J. Jeong, S. Fushinobu, S. Ito, B. S. Jeon, H. Shoun, and T. Wakagi: Archaeal ADP-dependent Phosphofructokinase: Expression, Purification, Crystallization and Preliminary Crystallographic Analysis. *Acta Crystallogr. D Biol. Crystallogr.* **59**, 1327-1329 (2003)
19. J.J. Jeong, S. Fushinobu, S. Ito, B. S. Jeon, H. Shoun, and T. Wakagi: Characterization of the Cupin-type Phosphoglucose Isomerase from the Hyperthermophilic Archaeon *Thermococcus litoralis*. *FEBS Lett.* **535**, 200-204 (2003)
20. S. Ito, S. Fushinobu, I. Yoshioka, S. Koga, H. Matsuzawa, and T. Wakagi: Structural Basis for the ADP-specificity of a Novel Glucokinase from a Hyperthermophilic Archaeon. *Structure* **9**, 205-214 (2001)