

CURRICULUM VITAE

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RESEARCH INTERESTS:

1. A simple and sensitive method for detecting pathogen using molecular diagnostic technologies
2. Waste and wastewater treatment technologies using microorganisms
3. Distribution and characteristics of dissimilatory iron-reducing bacteria (magnetite producing bacteria)

ACADEMIC AND CAREER HISTORY:

2013-present: Assistant Professor, Graduate Division of Nutritional and Environmental Sciences, University of Shizuoka, Japan

2008-2013: Assistant Professor, Institute for Environmental Sciences, University of Shizuoka, Japan

2004-2008: Ebara Jitsugyo Company Limited, Japan

2001-2003: Mitsubishi Electric Corporation, Japan

2001: Ph.D. Degree (University of Shizuoka, Japan)

1998: MS Degree (University of Shizuoka, Japan)

1996: BE Degree (IWATE University, Japan)

MAJOR PUBLICATIONS:

1. Sekikawa T., A new immunomagnetic bead separation-surfactant extraction treatment protocol for rapid and sensitive quantitative PCR-detection of *Cryptosporidium parvum* DNA, *Wat. Sci. Tech.: Water Suppl.*, 17(1). 161-168 (2017)
2. Sekikawa T., Toshiki K., A new method for efficient detection of *Cryptosporidium* RNA by real-time reverse transcription-PCR with surfactants, *Wat. Sci. Tech.:Water Suppl.*, 15(5), 1061-1068 (2015)
3. Toshiki K., Giang P. Q., Serrona K. R., Sekikawa T., Yu J., Choihil B., Kunikane S., Effects of introducing energy recovery processes to the municipal solid waste management system in Ulaanbaatar, Mongolia, *J. Environ. Sci.*, 28, 178-186 (2015)

4. Sekikawa T., Hayashi H., Iwahori K., Detection of dissimilatory iron-reducing Deltaproteobacteria in anaerobic sludge with high mineral content, *Jpn. J. Wat. Treat. Biol.*, 49(1), 37-46 (2013)
5. Sekikawa T., Kawasaki Y., Katayama Y., Iwahori K., A simple method for extracting DNA from *Cryptosporidium* oocysts using the anionic surfactant LSS, *New Biotechnology*, 29(1), 139-143 (2011)
6. Sekikawa T., Hayashi H., Iwahori K., Real-time PCR and melting curve analysis for rapid detection of dissimilatory iron-reducing Deltaproteobacteria in river sediments, *Jpn. J. Wat. Treat. Biol.*, 47(4), 147-155 (2011)
7. Sekikawa T., Hayashi H., Iwahori K., Detection of dissimilatory iron-reducing bacteria in freshwater sediments using ferrihydrite-enriched cultures and PCR-DGGE analysis, *Jpn. J. Wat. Treat. Biol.*, 46(4), 191-199(2010)