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Education:

- 2009 B.S. Bioorganic Chemistry, Tsukuba University (Thesis Adviser: Prof. Hideo Kigoshi)
- 2011 M.S. Bioorganic Chemistry, Tsukuba University (Thesis Adviser: Prof. Hideo Kigoshi)
- 2014 Ph.D. Bioorganic Chemistry, Tsukuba University (Thesis Adviser: Prof. Hideo Kigoshi)

Professional Experience:

- 2017-present Appointed Assistant Professor, Department of Pharmaceutical, University of Shizuoka (Principal Investigator: Prof. Kenji Watanabe)
- 2016-2017 Visiting scientist, Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute (HKI) – (Principal Investigator: Prof. Dr. Christian Hertweck)
- 2015-2016 Appointed Assistant Professor, Department of Pharmaceutical, University of Shizuoka (Principal Investigator: Prof. Kenji Watanabe)
- 2014-2015 JSPS Postdoctoral Fellow, Tsukuba University

Academic Honors:

- 2013 CSJ Student Presentation Award 2013
- 2014 Postdoctoral Fellowship from JSPS

Societies:

The Chemical Society of Japan

The Pharmaceutical Society of Japan

Japan Society for Bioscience, Biotechnology, and Agrochemistry

Publications:

1. Masaki Kita, Yuichiro Hirayama, Miyuki Sugiyama, and Hideo Kigoshi. Development of Highly Cytotoxic and Actin-Depolymerizing Biotin Derivatives of Aplyronine A. *Angewandte Chem. Int. Ed.* **2011**, 50, 9871.

2. Kenichi Kobayashi, Yusuke Fujii, Yuichiro Hirayama, Shinichi Kobayashi, Ichiro Hayakawa, Hideo Kigoshi. Design, Synthesis, and Biological Evaluations of Aplyronine A- Mycalolide B Hybrid Compound. *Org. Lett.* **2012**, *14*, 1290.
3. Masaki Kita, Kozo Yoneda, Yuichiro Hirayama, Kota Yamagishi, Yuki Saito, Yuka Sugiyama, Yoshihiro Miwa, Osamu Ohno, Maho Morita, Kiyotake Suenaga, and Hideo Kigoshi. Fluorescent Aplyronine A: Intracellular Accumulation and Disassembly of Actin Cytoskeleton in Tumor Cells. *ChemBioChem* **2012**, *13*, 1754-1758.
4. Masaki Kita, Yuichiro Hirayama, Kota Yamagishi, Kozo Yoneda, Ryota Fujisawa, Hideo Kigoshi. Interactions of the Antitumor Macrolide Aplyronine A with Actin and Actin-Related Proteins established by Its Versatile Photoaffinity Derivatives. *J. Am. Chem. Soc.* **2012**, *134*, 20314–20317.
5. Masaki Kita, Yuichiro Hirayama, Kozo Yoneda, Kota Yamagishi, Takumi Chinen, Takeo Usui, Eriko Sumiya, Motonari Uesugi, and Hideo Kigoshi. Inhibition of Microtubule Assembly by a Complex of Actin and Antitumor Macrolide Aplyronine A. *J. Am. Chem. Soc.* **2013**, *135*, 18089–18095.
6. Yuichiro Hirayama, Peter L. Katavic, Andrew M. White, Gregory K. Pierens, Lynette K. Lambert, Anne E. Winters, Hideo Kigoshi, Masaki Kita, Mary J. Garson. New Cytotoxic Norditerpenes from the Australian Nudibranchs *Goniobranchnus Splendidus* and *Goniobranchnus Daphne*. *Aust. J. Chem.* **2016**, *69*, 136–144.
7. Yuichiro Hirayama, Kota Yamagishi, Tomohiro Suzuki, Hirokazu Kawagishi, Masaki Kita, Hideo Kigoshi. Analysis of the aplyronine A-induced protein–protein interaction between actin and tubulin by surface plasmon resonance. *Bioorg. Med. Chem.* **2016**, *24*, 2809–2814.
8. Yi Zou, Marc Garcia Borrás, Mancheng Tang, Yuichiro Hirayama, Dehai Li, Li Li, Kenji Watanabe, K. N. Houk, Yi Tang. Enzyme-Catalyzed Cationic Epoxide Rearrangements in Quinolone Alkaloid Biosynthesis. *Nat. chem. Biol.* **2017**, *7*, 431.
9. Mamoru Yokoyama, Yuichiro Hirayama, Tsuyoshi Yamamoto, Shinji Kishimoto, Yuta Tsunematsu, and Kenji Watanabe. Integration of Chemical, Genetic, and Bioinformatic Approaches Delineates Fungal Polyketide-Peptide Hybrid Biosynthesis. *Org. Lett.*, in press (DOI: 10.1021/acs.orglett.7b00559)