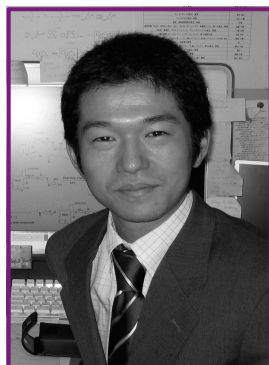


## Ōmura Research Group (2017): Senior staff



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### Research speciality:

- Synthetic Organic Chemistry
- Medicinal Chemistry
- Bioorganic Chemistry

### Publications (selected):

1. T. Hirose, Y. Kojima, H. Matsui, H. Hanaki, M. Iwatsuki, K. Shiomi, S. Ōmura & T. Sunazuka. (2017). Total synthesis of (±)-naphthacemycin A9, possessing both antibacterial activity against methicillin-resistant *Staphylococcus aureus* and circumventing effect of  $\beta$ -lactam resistance., *J. Antibiot.* **70**, 574-581.
2. T. Hirose, N. Maita, H. Gouda, J. Koseki, T. Yamamoto, A. Sugawara, H. Nakano, K. Shiomi, T. Watanabe, H. Taniguchi, K. B. Sharpless, S. Ōmura & T. Sunazuka. (2013). Observation of the controlled assembly of preclick components in the *In situ* Click Chemistry generation of a chitinase inhibitor., *Proc. Natl. Acad. Sci. USA* **110**, 15892-15897.
3. T. Hirose, T. Sunazuka & S. Ōmura. (2010). Recent development of two chitinase inhibitors, Argifin and Argadin, produced by soil microorganisms., *Proc. Jpn. Acad., Ser. B* **86**, 85-102.
4. T. Hirose, T. Sunazuka, A. Sugawara, A. Endo, K. Iguchi, T. Yamamoto, H. Ui, K. Shiomi, T. Watanabe, K. B. Sharpless & S. Ōmura. (2009). Inhibitors of Chitinase: the Extraction of Active Frame from Natural Product Argifin and Using *In Situ* Click Chemistry., *J. Antibiot.* **62**, 277-282.
5. T. Hirose, T. Sunazuka, S. Tsuchiya, T. Tanaka, Y. Kojima, M. Iwatsuki & S. Ōmura. (2008). Total Synthesis and Determination of the Absolute Configuration of Guadinomines B and C2., *Chem. Eur. J.* **27**, 8220-8238.

### Awards:

- 2014 Morimura Houmei Award (from Kitasato Institute)
- 2014 Young Scientists Award of the Symposium on Enzyme Applications
- 2012 Taisho Pharmaceutical Co., Ltd. Award in Synthetic Organic Chemistry
- 2011 The Pharmaceutical Society of Japan Kanto Branch Award for Young Scientists
- 2011 Ninomiya Yoshimoto Award (from Kitasato Institute)
- 2004 Inoue Research Award for Young Scientists