

## Ōmura Research Group (2017): Senior staff



**Name:** Kazuro Shiomi

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### Research speciality:

- Natural Products Chemistry
- Antibiotics

### Publications (selected):

1. K. Shiomi, N. Arai, Y. Iwai, A. Turberg, H. Kölbl & S. Ōmura. (2000). Structure of argifin, a new chitinase inhibitor produced by *Gliocladium* sp. FTD-0668., *Tetrahedron Lett.* **41**, 2141-2143.
2. H. Miyadera, K. Shiomi, H. Ui, Y. Yamaguchi, R. Masuma, H. Tomoda, H. Miyoshi, A. Osanai, K. Kita & S. Ōmura. (2003). Atpenins, potent and specific inhibitors of mitochondrial complex II (succinate-ubiquinone oxidoreductase)., *Proc. Natl. Acad. Sci. USA* **100**, 473-477.
3. K. Kimura, M. Iwatsuki, T. Nagai, A. Matsumoto, Y. Takahashi, K. Shiomi, S. Ōmura & A. Abe. (2011). A small-molecule inhibitor of the bacterial type III secretion system protects against in vivo infection with *Citrobacter rodentium*., *J. Antibiot.* **64**, 197-203.
4. T. Yamamoto, N. Izumi, H. Ui, A. Sueki, R. Masuma, K. Nonaka, T. Hirose, T. Sunazuka, T. Nagai, H. Yamada, S. Ōmura & K. Shiomi. (2012). Wickerols A and B, novel anti-influenza virus diterpenes produced by *Trichoderma atroviride* FKI-3849., *Tetrahedron* **68**, 9267-9271.
5. M. Mori, G. Jeelani, Y. Masuda, K. Sakai, K. Tsukui, D. Waluyo, Tarwadi, Y. Watanabe, K. Nonaka, A. Matsumoto, S. Ōmura, T. Nozaki & K. Shiomi. (2015). Identification of natural inhibitors of *Entamoeba histolytica* cysteine synthase from microbial secondary metabolites., *Front. Microbiol.* **6**, 962.

### Awards:

Sumiki-Umezawa Memorial Award (2005)  
Shibasaburo Kitasato Memorial Award (2017)

### Comment:

Microorganisms have amazing abilities. I am interested in the search for useful bioactive compounds from microbial sources, particularly for the development of anti-infectious drugs to help fight bacteria, fungi, parasites and viruses.