

Ōmura Research Group (2017): Senior staff



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Research specialty:

Taxonomy of *Actinobacteria* and isolation of untapped or hitherto uncultured bacteria

Publications (selected):

1. A. Matsumoto & Takahashi Y. (2017). Endophytic actinomycetes: promising source of novel bioactive compounds., *J. Antibiot.* **70**, 514-519.
2. A. Také, T. Nakashima, Y. Inahashi, K. Shiomi, Y. Takahashi, S. Ōmura & A. Matsumoto. (2016). Analyses of the cell-wall peptidoglycan structures in three genera *Micromonospora*, *Catenuloplanes*, and *Couchioplanes* belonging to the family *Micromonosporaceae* by derivatization with FDLA and PMP using LC/MS., *J. Gen. Appl. Microbiol.* **62**, 199–205.
3. R. Mingma, K. Tanaka, S. Ōmura, Y. Takahashi & A. Matsumoto. (2016). *Actinorhabdospora filicis* gen. nov., sp. nov., a new member of the family *Micromonosporaceae*., *Int. J. Syst. Evol. Microbiol.* **66**, 3071-3077.
4. R. Mingma, K. Duangmal, A. Také, Y. Inahashi, S. Ōmura, Y. Takahashi & A. Matsumoto. (2016). Proposal of *Sphaerimonospora cavernae* gen. nov., sp. nov. and transfer of *Microbispora mesophila* (Zhang et al., 1998) to *Sphaerimonospora mesophila* comb. nov. and *Microbispora thailandensis* (Duangmal et al., 2012) to *Sphaerimonospora thailandensis* comb. nov., *Int. J. Syst. Evol. Microbiol.* **66**, 1735-1744.
5. T. Seki, A. Matsumoto, S. Ōmura & Y. Takahashi. (2015). Distribution and isolation of strains belonging to the order *Solirubrobacterales*., *J. Antibiot.* **68**, 763-766.

Comment: There are still a multitude of as-yet-uncultured microbes in the environment. It is important to isolate and cultivate untapped microorganisms, using diverse and innovative methods, media and cultivation practices, to fully realize the potential of these treasure troves.