

Curriculum Vitae (short version)

Takamichi Orihara, Ph.D.

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CURRENT POSITION:

2011– Curator of mycology, Kanagawa Prefectural Museum of Natural History (KPM), Kanagawa, Japan

WORK ADDRESS:

Kanagawa Prefectural Museum of Natural History (KPM)

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MAJOR RESEARCH INTERESTS:

1. Systematics, evolution and biogeography of sequestrate (truffle-like) fungi
2. Systematics, phylogeny and evolution of macrofungi in Basidiomycota and Ascomycota
3. Ecology and evolution of mycorrhizal fungi

EDUCATIONAL QUALIFICATION:

2012 - Ph.D. in Agriculture, The United Graduate School of Agricultural Sciences, Tottori University, Tottori, Japan

PhD Thesis: Systematics of the *Leccinum*-related sequestrate fungi (*Boletaceae*, *Boletales*) with emphasis on Japanese taxa. Supervisor: Prof. Nitaro Maekawa

2009 - M.Sc. in Agriculture, Graduate School of Agriculture, Tottori University, Tottori, Japan

Master Thesis: Systematics and phylogeny of the genus *Octaviania* in Japan. Supervisor: Prof. Koji Iwase

2007 - B.Sc. in Agriculture, Kyoto Prefectural University, Japan

Bachelor Thesis: Taxonomy, species composition and seasonal fruiting of macrofungi in the moor and the surrounding watershed of Hacchodaira, Kyoto. Supervisor: Prof. Hikaru Takahara

PUBLICATIONS (*Original scientific articles only*):

- 1) **Orihara T**, Smith ME. (2017) Unique phylogenetic position of the African truffle-like fungus, *Octaviania ivoryana* (Boletaceae, Boletales) and the proposal of a new genus, *Afrocastellanoa*. *Mycologia*, in press.
<http://dx.doi.org/10.1080/00275514.2017.1301750>
- 2) Yano M, Yano K, Yamamoto Y, **Orihara T**. (2017) Myxomycete biota of Izu Peninsula, central Japan (in Japanese with English abstract). *Bulletin of Kanagawa Prefectural Museum (Natural Science)* 46: 25–38.
- 3) **Orihara T**, Nakamura K, Murata T. (2017) A survey with local children reveals macrofungal flora in Manazuru Peninsula and evaluates the growth of Japanese pine trees based on ectomycorrhizal formation (in Japanese with English abstract). *Bulletin of Kanagawa Prefectural Museum (Natural Science)* 45: 7–23.
- 4) Kumar LM, Smith ME, Nouhra ER, **Orihara T**, Leiva PS, Pfister DH, McLaughlin DJ, Trappe JM, Healy RA. (2017) A molecular and morphological re-examination of the generic limits of truffles in the *Tarzetta-Geopyxis* lineage – *Densocarpa*, *Hydnocystis*, and *Paurocotylis*. *Fungal Biology* 121 (3): 264–284.
<http://dx.doi.org/10.1016/j.funbio.2016.12.004>
- 5) Suyama M, Takagi N, Sato H, **Orihara T**. (2017) A new record of *Simulium* *microspor* (Harpellales), a gut-living fungus of blackfly larvae in Kanagawa Prefecture, Japan (in Japanese with English abstract). *Natural History Report of Kanagawa* 38: 1–4.
- 6) **Orihara T**, Lebel T, Ge Z-W, Smith ME, Maekawa N. (2016) Evolutionary history of the sequestrate genus *Rossbeevera* (Boletaceae) reveals a new genus *Turmalinea* and highlights the utility of ITS minisatellite-like insertions for molecular identification. *Persoonia* 37: 173–198.
<http://dx.doi.org/10.3767/003158516X691212>
- 7) Yano M, Yano K, Yamamoto Y, **Orihara T**. (2016) Myxomycete biota in Hiromachi-Ryokuchi, Kamakura City, Kanagawa Prefecture with first records of two taxa from Japan (in Japanese with English abstract). *Bulletin of Kanagawa Prefectural Museum (Natural Science)* 45: 69–79.
- 8) **Orihara T**, Ohmae M, Yamamoto K. (2016) First report of *Chamonixia caespitosa* (Boletaceae, Boletales) from Japan and its phylogeographic significance. *Mycoscience* 57: 58–63.
<http://dx.doi.org/10.1016/j.myc.2015.08.005>
- 9) Yano M, Yano K, Yamamoto Y, **Orihara T**. (2015) Myxomycetes in the montane forest of Mt. Fuji, Shizuoka Prefecture (in Japanese with English abstract). *Bulletin of Kanagawa Prefectural Museum (Natural Science)* 44: 49–70.
- 10) Nakajima A, **Orihara T**. (2015) *Talaromyces cecidicola* new to Asia on citrus fruits and the

substrate-dependent morphological variation of its synnemata (in Japanese with English abstract). *Natural History Report of Kanagawa* 36: 1–6.

- 11) **Orihara T.** (2014) A search and taxonomy of unknown sequestrate lineages in the Boletaceae and investigation of their evolution and geographic origins (in Japanese). *IFO Research Communications* 28: 128.
- 12) Yano M, Yano K, **Orihara T.**, Yamamoto Y. (2014) Myxomycete biota in Manazuru Peninsula, Kanagawa Prefecture (in Japanese with English abstract). *Bulletin of Kanagawa Prefectural Museum (Natural Science)* 43: 13–17.
- 13) **Orihara T.**, Okada T, Daiguji T, Takagi N. (2014) Occurrence of a truffle-like fungus, *Rhizopogon roseolus* (Rhizopogonaceae, Boletales) in Kanagawa Prefecture, Japan (in Japanese with English abstract). *Bulletin of Kanagawa Prefectural Museum (Natural Science)* 43: 63–66.
- 14) Hosaka K, Iguchi K, **Orihara T.** (2013) Basidiomycota collected from Meiji Jingu (in Japanese). 2nd Scientific Report of Meiji Jingu: 125–134.
- 15) Sato H, **Orihara T.** (2013) *Pennnella angustispora* (Harpellales), a gut-living fungus of blackfly larvae: a new record in Kanagawa Prefecture, Japan (in Japanese with English abstract). *Natural History Report of Kanagawa* 34: 21–23.
- 16) Yano M, Yano K, Yamamoto Y, **Orihara T.** (2013) An additional survey of myxomycete biota on the Premises of Jimmu-ji Temple, Zushi, with emphasis on collecting sites by the Showa Emperor, Hirohito (in Japanese with English abstract). *Bulletin of Kanagawa Prefectural Museum (Natural Science)* 42: 13–22.
- 17) **Orihara T.**, Smith ME, Ge Z-W, Maekawa N. (2012) *Rosbeevera yunnanensis* (Boletaceae, Boletales), a new sequestrate species from Southwest China. *Mycotaxon* 120: 139–147. <http://dx.doi.org/10.5248/120.139>
- 18) **Orihara T.**, Smith ME, Shimomura N, Iwase K, Maekawa N. (2012) Diversity and systematics of the sequestrate genus *Octaviania* in Japan: two new subgenera and eleven new species. *Persoonia* 28: 85–112. <http://dx.doi.org/10.3767/003158512X650121>
- 19) Yagame T, **Orihara T.**, Selosse M-A, Yamato M, Iwase K. (2012) Mixotrophy of *Platanthera minor*, an orchid associated with ectomycorrhiza-forming Ceratobasidiaceae fungi. *New Phytologist* 193: 178–187.
- 20) Lebel T, **Orihara T.**, Maekawa N. (2012) The sequestrate genus *Rosbeevera* T. Lebel & Orihara gen. nov. (Boletaceae) from Australasia and Japan: new species and new combinations. *Fungal Diversity* 52: 49–71.
[Lebel T, **Orihara T.**, Maekawa N. (2012) Erratum to: The sequestrate genus *Rosbeevera* T. Lebel

& Orihara gen. nov. (*Boletaceae*) from Australasia and Japan: new species and new combinations. *Fungal Diversity* 52: 73.]

- 21) **Orihara T**, Sawada F, Ikeda S, Yamato M, Tanaka C, Shimomura N, Hashiya M, Iwase K. (2010) Taxonomic reconsideration of a sequestrate fungus, *Octaviania columellifera*, with the proposal of a new genus, *Heliogaster*, and its phylogenetic relationships in the Boletales. *Mycologia* **102** (1): 108–121.
- 22) **Orihara T**, Kasuya T, Phongpaochit S, Dissara Y. (2008) *Radiigera tropica* (Geastraceae, Geastrales), a new species from a tropical rain forest of Thailand. *Mycotaxon* **105**: 111–117.
- 23) Oyabu T, **Orihara T**, Iwase K. (2007) Seasonal dynamics of physiological activity of *Eucalyptus* and fruiting of macrofungi in Japan (in Japanese with English abstract). *Papers on Environmental Information Science* **21**: 65–68
- 24) Kasuya T, **Orihara T**, Fukiharu T, Yoshimi S. (2006) A lycoperdaceous fungus, *Arachnion album* (*Agaricales*, *Arachniaceae*) newly found in Japan. *Mycoscience* **47**: 385–387.

AWARDS:

The 4th Katsumoto Award (2017) – Kanto Branch of the Mycological Society of Japan, 15 Apr. 2017. (Received as a leader of the Volunteer Group of Mycology, Kanagawa Prefectural Museum of Natural History).

The Award for outstanding achievements by personnel in the Kanagawa Prefectural Board of Education, (2016) - The Kanagawa Prefectural Government's Office, Yokohama, Kanagawa, 30 Mar. 2016.

Poster Presentation Award, 2nd prize (2015) - Asian Mycological Congress 2015 (AMC 2015), Goa University, Goa, India, 7 Aug. 2015. [Orihara T., Trappe J.M., Castellano M.A., Claridge A.W. Multigene analyses unveil the phylogenetic position of the Australasian sequestrate provisional genus, “*Pogisperma*” (*Boletaceae*, *Boletales*).]

NIOC Prize (2011) - Nagoya International Orchid Congress (NIOC) 2011, 11 March 2011. [Yagame T, **Orihara T**, Selosse M-A, Yamato M, Iwase K. Ecological characteristics and mycorrhizal symbiosis in *Platanthera minor* (*Orchidaceae*).]

The Best Student Poster Presentation Award (2009) - International Conference on Fungal Evolution and Charles Darwin: From Morphology to Molecules. Sirindhorn Science Home, Thailand Science Park, Thailand, July 2009. [**Orihara T**, Shimomura N, Yamato M, Iwase K, Maekawa N. Species diversity of the sequestrate genus, *Octaviania* in Japan revealed by molecular phylogenetic and ultrastructural studies and its evolutionary inference.]

The Excellent Student Presentation Award (2007) – The 51st Annual Meeting of the Mycological

Society of Japan, Tsukuba, Japan, 27 May 2007. [**Orihara T.** Taxonomy, species composition and seasonal fruiting of macrofungi in the moor and its watershed, Hacchodaira, Kyoto.]

GRANTS:

- 2017.4–2021.3 KAKENHI The Grant-in-Aid for Young Scientists (B) from the Japan Society for the Promotion of Science (JSPS) (4,550,000 JPY)
- 2017.4–2019.3 The Grant-in-Aid from Institute for Fermentation, Osaka (IFO) (3,000,000 JPY)
- 2016.10–2018.9 The Grant-in-Aid from Pro Natura Foundation, Japan. (1,260,000 JPY)
- 2016.4–2018.3 KAKENHI The Grant-in-Aid for Scientific Research (C) from the Japan Society for the Promotion of Science (JSPS) (350,000 JPY) (As a collaborator of Dr. Masahide Yamato, Chiba University)
- 2013.4–2016.3 KAKENHI The Grant-in-Aid for Young Scientists (B) from the Japan Society for the Promotion of Science (JSPS) (4,420,000 JPY)
- 2012.3–2014.3 The Grant-in-Aid from Institute for Fermentation, Osaka (IFO) (3,000,000 JPY)

FELLOWSHIPS AND SCHOLARSHIPS:

- 2009.4–2011.3 Research Fellowships for Young Scientists (DC1; No. 21–6052) from the Japan Society for the Promotion of Science (JSPS)
- 2008.4–2009.3 The Sategory-1 Scholarship for Students from Japanese Student Service Organization (JASSO) (with full-exemption of the loan)

MEMBERSHIPS OF SOCIETIES:

- 2016–present The Japanese Association for Truffle Science (JATS) - President
- 2009–present Mycological Society of America (MSA)
- 2007–present Society of Evolutionary Studies, Japan
- 2007–2008 Center for Environmental Information Science
- 2005–present Kanto Branch of Mycological Society of Japan
- 2003–present Mycological Society of Japan (MSJ)