



...

THIS PAGE IS SECURE

[Home](#) / Persoonia - Molecular Phylogeny and Evolution of Fungi, Volume 28, June 2012

Diversity and systematics of the sequestrate genus *Octaviania* in Japan: two new subgenera and eleven new species

Download Article:
 [Download](#)
(PDF 3,617.7 kb)

Authors: Orihara, T.; Smith, M. E.; Shimomura, N.; Iwase, K.; Maekawa, N.**Source:** Persoonia - Molecular Phylogeny and Evolution of Fungi, Volume 28, June 2012, pp. 85-112(28)**Publisher:** Naturalis Biodiversity Center**DOI:** <https://doi.org/10.3767/003158512X650121>[previous article](#)[view table of contents](#)[next article](#) [ADD TO FAVOURITES](#)[...
Abstract](#)[References](#)[Citations](#)[Supplementary Data](#)[Article Media](#)[Metrics](#)[Suggestions](#)

The sequestrate fungi of Japan, including truffle and truffle-like fungi, have not been well characterized but are potentially diverse. We investigated the diversity and phylogeny of Japanese *Octaviania* specimens using a multifaceted approach including scanning and transmission electron microscopy as well as analysis of nuclear ribosomal DNA (ITS and LSU) and EF-1 α (tef1) sequences. Phylogenetic analyses indicate that the genus *Octaviania* is divided into three major clades, and that there are at least 12 species-level lineages in Japan. Accordingly, we describe two new subgenera, *Parcaea* and *Fulgoglobus*, and eleven new species. Subgenus *Parcaea* accommodates four highly divergent, but macromorphologically almost indiscernible cryptic species. We discuss not only the diversity and species delimitation within the genus *Octaviania* but also the phylogeography of the Japanese taxa and their relatives.

Keywords: BIOGEOGRAPHY; BOLETACEAE; CRYPTIC SPECIES; HYPOGEOUS FUNGI; PHYLOGENY; TAXONOMY**Document Type:** Research Article

Publication date: 2012年6月30日

[More about this publication?](#)

We recommend

diversity and systematics of the sequestrate genus *Octaviania* in Japan: two new subgenera and eleven new species
T. Orihara et al., Persoonia - Molecular Phylogeny and Evolution of Fungi

Tales of the unexpected: angiocarpous representatives of the Russulaceae in tropical South East Asia
A. Verbeken et al., Persoonia - Molecular Phylogeny and Evolution of Fungi

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
T. Orihara et al., Persoonia - Molecular Phylogeny and Evolution of Fungi

Pollen morphology of Philippine species of Phyllanthus (Phyllanthaceae, Euphorbiaceae s.l.)

Chen, Y.-J. et al., *Blumea - Biodiversity, Evolution and Biogeography of Plants*

Exploring fungal mega-diversity: Pseudocercospora from Brazil

M. Silva et al., *Persoonia - Molecular Phylogeny and Evolution of Fungi*

Sequential treatment with afatinib and osimertinib in patients with EGFR mutation-positive non-small-cell lung cancer: an observational study 

Maximilian J Hochmair, *Future Oncology*

Verification of Chinese Names of Truffles and Their Conservation in Natural Habitats 

WANG Yun-1、2 et al., *Plant Diversity*

Pollen Morphology of the Genus Incarvillea (Bignoniaceae) 

CHEN Shao-Tian et al., *Plant Diversity*

Specificity and transmission mosaic of ant nest-wall fungi. 

Birgit C Schlick-Steiner et al., *Proc Natl Acad Sci U S A*

Studies on diversity of higher fungi in Yunnan, southwestern China: A review 

Feng et al., *Plant Diversity*

Powered by **TREND MD**



Share Content



Access Key

-  Free content
-  Partial Free content
-  New content
-  Open access content
-  Partial Open access content
-  Subscribed content
-  Partial Subscribed content
-  Free trial content

Browse by Publication

Browse by Subject

Browse by Publisher

Advanced Search

About us

Researchers

Librarians

Publishers

New featured titles

Help

Contact us





Website © 2018 Ingenta. Article copyright remains with the publisher, society or author(s) as specified within the article.

[Terms and Conditions](#)

[Privacy](#)

[Information for Advertisers](#)

[Cookie Policy](#)