

Outlineoffungi.org - Note 825 *Gomphocantharellus*

Web-links: [Index Fungorum](#), [Facesoffungi](#), [MycoBank](#), [GenBank](#)

Gomphocantharellus L. Fan, Y.Y. Xu, Zhu L.Yang & S. P. Jian

Xu et al. (2022) introduced the monotypic genus *Gomphocantharellus* to accommodate *G. cylindrosporus* L. Fan, Y.Y. Xu, Zhu L.Yang & S.P. Jian, as the type species, based on three collections from coniferous forests on a mountain in Shanxi Province in North China. This taxon resembles the species of *Cantharellus* due to its pink-colored, cantharelloid sporomes with strongly lamellate hymenophores, but is distinguished by a white spore-print and smooth-walled, cylindrical to allantoid basidiospores. This lineage is phylogenetically placed within *Gomphales* forming a sister position to a clade comprising *Clavariadelphus*, *Hydnocristella*, *Kavinia*, *Beenakia*, and *Lentaria*. This placement is confirmed based on molecular phylogenetic analysis of concatenated partial sequences of the mitochondrial small subunit ribosomal RNA gene (mtSSU) and mitochondrial ATP synthase subunit 6 gene (atp6) conducted by Xu et al. (2022). No familial classification has been proposed. The taxonomic placement of *Gomphocantharellus* is in *Gomphales*, *Phallomycetidae*, *Agaricomycetes*, *Agaricomycotina*, and *Basidiomycota*.

Reference

Xu YY, Jian SP, Mao N, Yang ZL, Fan L. 2022 – *Gomphocantharellus*, a new genus of *Gomphales*. *Mycologia*, 114(4), 748–756. <https://doi.org/10.1080/00275514.2022.2065781>

Entry by

Bryn Dentinger, Natural History Museum of Utah & School of Biological Sciences, University of Utah, Salt Lake City, UT, USA.

(Edited by **Kevin D. Hyde** & **Maryam Tavakol Noorabadi**)

Published online 21 March 2024