

Outlineoffungi.org - Note 654 *Mallocybe*

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Mallocybe (Kuyper) Matheny, Vizzini & Esteve-Rav., Matheny, Hobbs & Esteve-Raventós

This is an agaric genus associated with a wide range of plants. Phylogenetic analyses based on ITS, LSU, *rpb1*, *rpb2*, *tefl* and SSU indicated its close relationships with *Auritella* and *Tubariomyces* within the family, but with limited support ([Matheny et al. 2020](#)). The type species is *M. terrigena* (Fr.) Matheny, Vizzini & Esteve-Rav. Compared with other species of *Inocybaceae*, species in this genus are characterized by a tomentose or appressed scaly pileus, adnate to adnexed lamellae, ellipsoid to ovate-ellipsoid basidiospores and thin-walled, short and usually catenate cheilocystidia ([Kosentka et al. 2013](#); [Matheny et al. 2020](#)). The asexual morph is unknown. Several species were reported to contain muscarine ([Kosentka et al. 2013](#)). The majority of the genus occurs in north temperate regions ([Kosentka et al. 2013](#)). The genus is considered as ectomycorrhizal based on anatomical observations and molecular evidence from ECM plant root tips, including orchidaceous plants (Agerer 1987–2006; [Roy et al. 2009](#)). There are 64 species in this genus. *Mallocybe* is currently placed in *Inocybaceae*, *Agaricales*, *Agaricomycetes*, *Basidiomycota*.

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Entry by

Yuguang Fan, Hainan Key Laboratory for R & D of Tropical Herbs, School of Pharmacy, Hainan Medical University, Haikou 571199, China

(Edited by **Kevin D Hyde & Rekhani Hansika Perera**)

Published online 7 December 2022