

Outlineoffungi.org – Note 1602 *Lanmaoa*

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Lanmaoa G. Wu & Zhu L. Yang

The genus *Lanmaoa* was introduced by [Wu et al. \(2016\)](#) with the type species *Lanmaoa asiatica* G. Wu & Zhu L. Yang, distributed in southwestern China. Members of this genus are stipitate-pileate boletoid fungi with thin (3–5 times thinner than pileal context at the halfway to the pileus center) cream yellow to lemon yellow hymenophore that stains dull blue when injured; tubes concolorous with hymenophoral surface or light red; central stipe that is yellow to lemon yellow at the apex and light to dark purple-red towards the base, with yellowish white to white basal mycelium; from narrowly suboblong, subellipsoid to subfusoid smooth basidiospores; and can have pileipellis of a (ixo)trichoderm or (ixo)subcutis ([Bessette 2015](#), [Wu et al. 2016](#), [Phookamsak et al. 2019](#), [Farid et al. 2021](#)). At least some *Lanmaoa* species are characterized by peculiar odors: from fruity when fresh and resembling the smell of chicory when dry (*L. fragrans*) to ammonia-like and slightly alliaceous (*L. sublurida*) ([Muñoz 2005](#), [Farid et al. 2021](#)).

This genus is very similar to *Baorangia*, however both genera appear in two separate phylogenetic clades ([Nuhn et al. 2013](#), [Wu et al. 2014](#)). There is an opinion that *Lanmaoa* should be lumped together with *Cyanoboletus* ([Chai et al. 2018](#), [Farid et al. 2021](#)) due to close relation (sister clades) and morphologically intergrading, although *Cyanoboletus* tends to have dull brown colors and *Lanmaoa* often has bright red or yellow coloration ([Wu et al. 2014, 2016](#), [Chai et al. 2018](#)). However, this should be carefully re-considered in future studies of these clades as more data become available ([Farid et al. 2021](#)).

At this moment the genus *Lanmaoa* includes 12 species ([Species Fungorum 2024](#)). The known distribution of the genus is Asia, Europe, North Africa, North America, and Australia ([Crous et al. 2018](#), [Wu et al. 2016](#), [Phookamsak et al. 2019](#), [GBIF 2024](#)). The genus is ectomycorrhizal with *Pinaceae* and *Fagaceae* ([Wu et al. 2016](#), [Phookamsak et al. 2019](#), [Farid et al. 2021](#)).

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Entry by

Katerina Rusevska, Mycological Laboratory, Institute of Biology, Faculty of Natural Science and Mathematics, Ss. Cyril and Methodius University, Arhimedova 5, 1000 Skopje, Macedonia, **Alona Yu. Biketova**, Mycological Society of Israel, P.O. Box 164, Pardesiya 42815, Israel; British Mycological Society, 1 Naoroji Street, London, WC1X 0GB, United Kingdom.

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