

## Outlineoffungi.org - Note 707 *Austrocortinarius*

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*Austrocortinarius* Niskanen & Liimat.

To resolve the higher-level classification of *Cortinariaceae*, both targeted capture sequencing and shallow whole genome sequencing were adopted to produce data ([Liimatainen et al. 2022](#)). Based on the phylogenomic analyses of 75 single-copy genes from 19 species and 5-locus analysis (*rpb1*, *rpb2*, *mcm7*, *gpd* and *tef1*) of 245 species, a classification of *Cortinariaceae* with ten genera including seven new genera was established ([Liimatainen et al. 2022](#)). The type species is *Austrocortinarius victoriaensis* (Liimat.) Niskanen. *Austrocortinarius* is a genus established to accommodate species with the combination morphological characteristics of pileipellis simplex, large, ± white basidiomata and a peronate universal veil often forming a distinct ring at the upper part of the rooting stipe ([Liimatainen et al. 2022](#)). The basidiomata are agaricoid (phlegmacioid), stipito- carpic and the spores are rather large and amygdaloid ([Liimatainen et al. 2022](#)). The asexual morph is unknown. *Austrocortinarius* species have been found in Australia and New Zealand ([Liimatainen et al. 2022](#)). *Austrocortinarius* is currently placed in *Cortinariaceae* (*Agaricales*, [Agaricomycetes](#), [Basidiomycota](#)).

### Reference

Liimatainen K, Kim JT, Pokorny L, Kirk PM, Dentinger B, Niskanen T. 2022 – Taming the beast: a revised classification of *Cortinariaceae* based on genomic data. *Fungal Diversity* 112(1), 89–170. <https://doi.org/10.1007/s13225-022-00499-9>

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