

## Outlineoffungi.org - Note 740 *Aureonarius*

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*Aureonarius* 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 of 245 species, a system of *Cortinariaceae* with ten genera including seven new genera was established ([Liimatainen et al. 2022](#)). *Aureonarius* is one of the new genera proposed and typified by *Aureonarius kroegeri* (Niskanen, Liimat., E. Harrower, Berbee, Garnica & Ammirati) Niskanen & Liimat ([Liimatainen et al. 2022](#)). Two subgenera are included in this genus, *viz.*, subgenus *Aureonarius* and subgenus *Callistei* ([Liimatainen et al. 2022](#)). The species of this bihemispheric genus *Aureonarius* are characterized by vivid yellow, orange or red colours, at least in some parts of the basidiomata ([Liimatainen et al. 2022](#)). The basidiomata are small- to rather large-sized, agaricoid (cortinarioid/leprocyboid), and the development type is stipitocarpic (Liimatainen et al. 2022). No sequestrate species are reported from this genus ([Liimatainen et al. 2022](#)). Some species have a weak yellow UV fluorescence, and some species exhibit a  $\pm$  red KOH-reaction in stipital veil, pileus, or context ([Liimatainen et al. 2022](#)). Asexual morph is not known. Species of this genus are mainly distributed in the Northern and Southern Hemispheres with a centre of the diversity in the Southern Hemisphere. They are occurring on coniferous (Pinaceae) and deciduous forests (Nothofagaceae, Fagaceae, Betulaceae) ([Liimatainen et al. 2022](#)).

### 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>

### Entry by

**Maoqiang He**, State Key Laboratory of Mycology, Institute of Microbiology, Chinese Academy of Sciences, Beijing 100101, China

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

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