

Outlineoffungi.org - Note 809 *Austroporia*

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Austroporia B.K. Cui & Shun Liu

Liu et al. (2023) introduced *Austroporia* as a monotypic genus with *Austroporia stratosa* (J.E. Wright & J.R. Deschamps) B.K. Cui & Shun Liu as the type species. The new combination, *Austroporia stratosa* was erected to accommodate *Poria stratosa* J.E. Wright & J.R. Deschamps and *Amyloporia stratosa* (J.E. Wright & J.R. Deschamps) Rajchenb, Gorjón & Pildain. Based on phylogenetic analysis of combined ITS, LSU, SSU, *tef1*, *rpb1*, and *rpb2* sequence data this genus was placed in *Adustoporiaceae*, *Polyporales*. This genus grew on a fallen trunk of *Eucalyptus* sp in Tasmania (Australia) and causes a brown rot. *Austroporia* is characterized by resupinate, hard corky, perennial basidiocarps, and white to cream to greyish brown pore surface. The hyphal system is dimitic and basidiospores are cylindrical to slightly allantoid. Cystidia are absent, and cystidioles are present. Phylogenetically, the specimens of *Austroporia* formed a well-supported clade comprising *Adustoporia*, *Amyloporia*, *Lentoporia*, and *Resinoporia*. Morphologically, it is separated from *Adustoporia* by having annual and thin basidiocarps with a pale brown larger pore surface when fresh; *Amyloporia* and *Lentoporia* differs by having amyloid skeletal hyphae; *Resinoporia* differs by its skeletal hyphae dissolving in KOH, abundant resinous matter in the subiculum and tubes, and cylindrical to oblong-ellipsoid basidiospores; and *Rhodonia* differs by its monomitric hyphal system (Liu et al. 2023). *Poria stratosa* was described in 1972 from Argentina growing on the fallen trunk of *Nothofagus dombeyi*. Rajchenberg et al. (2011) cited this species as *Amyloporia stratosa* from Argentina and Tasmania (Australia), and in the last locality, growing on *Eucalyptus obliqua*. *Austroporia* is a genus not validly published, because the type of the species was not mentioned (Article 40.1 of Shenzhen Code, 2018). Besides, the authors cited as basionym to *Amyloporia stratosa* (J.E. Wright & J.R. Deschamps) Rajchenb., Gorjon & Pildain, instead of *Poria stratosa* J.E. Wright & J.R. Deschamps, so the name of the species is invalid following the article 41.5 of the *International Code of Nomenclature for algae, fungi, and plants* (Shenzhen Code, 2018).

References

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- Rajchenberg M, Gorjon SP, Pildain MB. 2011– The phylogenetic disposition of *Antrrodia* s.l. (*Polyporales*, *Basidiomycota*) from Patagonia Argentina. *Australian Systematic Botany* 24, 111-120. <https://doi.org/10.1071/SB11003>

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