

Outlineoffungi.org - Note 810 *Austropostia*

Web-links: [Index Fungorum](#), [Facesoffungi](#), [MycoBank](#), [GenBank](#)

Austropostia B.K. Cui & Shun Liu

Liu et al. (2023) introduced *Austropostia* to accommodate *A. pelliculosa* (Berk.) B.K. Cui & Shun Liu as the type species and five other species were also reported in this genus. They grow on the fallen trunk of *Eucalyptus* sp. and *Nothofagus cunninghamii*, causing brown rot. Based on analysis of combined ITS, LSU, SSU, *tefl*, *rpb1*, and *rpb2* sequence data, *Austropostia* was placed in *Postiaceae*, *Polyporales*. This genus was named because of its resemble *Postia* and its distribution in Australia, *Austropostia* is characterized by pileate, fleshy or corky, annual and polyporoid basidiomata, with a monomitic hyphal system. Basidiospores are oblong to ellipsoid, hyaline and thin- to thick-walled. Cystidia are absent and cystidioles are present. Phylogenetically the species of this genus formed a well-supported distant clade from others related genera of the family *Postiaceae* and *Postia* sensu stricto. *Austropostia* is clearly separated from *Amaropostia*, *Calcipostia*, *Cyanosporus*, *Cystidiopostia* and *Postia*. *Amaropostia* is different from *Austropostia* in having small pores and cylindrical basidiospores. *Calcipostia* is distinguished from *Austropostia* by the short cylindrical to oblong basidiospores. *Cyanosporus* is different from *Austropostia* ~~*Astropostia*~~ by the blue-tinted basidiocarps and basidiospores are narrow, allantoid to cylindrical. Unlike *Austropostia*, *Cystidiopostia* has resupinate basidiocarps and *Postia* has allantoid to cylindrical basidiospores. *Polyporus pelliculosus* Berk. was described from Tasmania (Australia) on dead logs and the roots of trees. Buchanan and Hood (1992) reported *Postia pelliculosa* (Berk.) Rajchenb. from New Zealand growing on *Nothofagus fusca* and *N. truncata*. *Austropostia* 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 *Postia pelliculosa* (Berk.) Rajchenb., instead of *Polyporus pelliculosus* Berk. as basionym, 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) Liu et al. (2023).

References

- Buchanan PK, Hood IA. 1992–New species and new records of *Aphyllorphorales* (*Basidiomycetes*) from New Zealand. *New Zealand Journal of Botany* 30,95–112. <https://doi.org/10.1080/0028825X.1992.10412888>.
- Liu S, Chen YY, Sun YF, He XL, Song CG, Si J, Liu DM, Gates G, Cui BK. 2023 – Systematic classification and phylogenetic relationships of the brown-rot fungi within the *Polyporales*. *Fungal Diversity* 118, 1-94. <https://doi.org/10.1007/s13225-022-00511-2>

Entry by

Ricardo Valenzuela, Laboratorio de Micología, Departamento de Botánica, Escuela Nacional de Ciencias Biológicas, Instituto Politécnico Nacional.

(Edited by **Kevin D. Hyde & Maryam Tavakol Noorabadi**)

Published online 27 July 2023