

## Outlineoffungi.org - Note 1453 *Postiaceae*

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***Postiaceae*** B.K. Cui, Shun Liu & Y.C. Dai

Liu et al. (2023) erected *Postiaceae* under (*Polyporales*, *Agaricomycetes*, *Basidiomycota*) to accommodate *Positia* Fr. as the type genus based on morphology and phylogeny using ITS, nLSU, nSSU, mtSSU, *tef1*, *rpb1*, and *rpb2* sequence data. Phylogenetically, this new family *Postiaceae* forms a sister clade with *Dacrybolaceae*. In the family *Postiaceae*, basidiocarps are annual, stipitate, pileate, or effused-reflexed to resupinate, corky, and fragile to woody hard when dry. Hymenophores are poroid. The hyphal system is monomitic and generative hyphae are clamped, IKI<sup>-</sup>, and CB<sup>-</sup>. Cystidia are occasionally present, and cystidioles are present or absent. Basidiospores are allantoid to cylindrical to oblong to ellipsoid-shaped, colorless, thin- to thick-walled, smooth, IKI<sup>-</sup>, occasionally CB<sup>+</sup>. The members of this family cause a brown rot. In terms of phylogenetic relationships, the species within *Postia* s.l. clustered together to create a unified lineage with moderate to high support. The findings aligned with earlier phylogenetic research on *Postia* s.l. (Pildain & Rajchenberg, 2013; Justo et al. 2017; Shen et al. 2019). According to the investigation by Liu et al. (2023), 16 genera are recognized within *Postiaceae*.

### References

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- Pildain MB, Rajchenberg M. 2013 – The phylogenetic position of *Postia* s.l. (*Polyporales*, *Basidiomycota*) from Patagonia, Argentina. *Mycologia* 105, 357–367.
- Shen LL, Wang M, Zhou JL, Xing JH, et al. 2019 – Taxonomy and phylogeny of *Postia*. Multi-gene phylogeny and taxonomy of the brown-rot fungi: *Postia* (*Polyporales*, *Basidiomycota*) and related genera. *Persoonia-Molecular Phylogeny and Evolution of Fungi* 42(1), 101–26.

### Entry by

**Maryam Tavakol Noorabadi**, Innovative Institute for Plant Health, Zhongkai University of Agriculture and Engineering, Guangzhou 510225, People's Republic of China

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