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[Marthomyces](#) L.K. Mathew, Jac. Thomas & N.N. Nair

[Lini et al. \(2021\)](#) synonymised *Echidnodella vateriae* Hosag. & Kamar under [Marthomyces vateriae](#) (Hosag. & Kamar.) L.K. Mathew, Jac. Thomas & N.N. Nair and introduced [Marthomyces](#) to accommodate this species. The monotypic genus [Marthomyces](#) is an ectoparasitic foliicolous taxon associated with *Vateria indica* L. (Dipterocarpaceae) in India ([Lini et al. 2021](#)). [Marthomyces](#) is distinguishable by non-appressoriolate mycelia with peculiar nutritive hyphae (haustoria) surrounding the stomata, elongated thyriothecia, with longitudinal dehiscence ([Lini et al. 2021](#)). Molecular data is unavailable for this genus. [Marthomyces](#) is listed as a member of *Asterinaceae* in Index Fungorum (2022), while it was placed in *Lembosiaceae* by [Lini et al. \(2021\)](#). Hosagoudar et al. (2001) validly introduced *Lembosiaceae* using the morphological character of elongate thyriothecia with longitudinal or X- or Y-shaped slits. This was followed by [Hosagoudar \(2012\)](#). [Hyde et al. \(2013\)](#) treated this family as a possible synonym of *Asterinaceae*. [Hongsanan et al. \(2014\)](#) synonymised *Lembosiaceae* under *Asterinaceae* based on the presence of appressoria and sequence data of *Lembosia albersi*. [Dai et al. \(2018\)](#) showed that their two new species of *Lembosia* are phylogenetically separate from *Asterinaceae*. By adding more sequence data, [Hongsanan et al. \(2020\)](#) and [Marasinghe et al. \(2021, 2022\)](#) revealed that *Lembosia* should be raised to a family in *Asterinales*. [Lini et al. \(2021\)](#) accepted *Cirsosia*, *Echidnodes*, *Echidnodella*, *Eupelte*, *Lembosia*, *Maheshwaramyces*, and [Marthomyces](#) in *Lembosiaceae* based on their elongate thyriothecia which dehisce to open by a longitudinal or X- or Y-shaped slits. According to unresolved placement and lack of molecular data in these genera, the characters of thyriothecia are recommended to key out the differentiate genera of *Asterinaceae* and *Lembosiaceae*. Therefore, *Cirsosia*, *Echidnodes*, *Echidnodella*, *Eupelte*, *Lembosia*, *Maheshwaramyces*, [Marthomyces](#) are accepted in *Lembosiaceae* in this study. However, molecular data for these genera are needed to confirm their placement.

### References

- Dai DQ, Tang LZ, Liu C, Wang HB et al. 2018 – Studies on *Parmulariaceae* I. A phylogeny based on available sequence data; introducing *Parmulariales* ord. nov., and *Hemigraphaceae*, *Melaspileellaceae* and *Stictographaceae* fam. nov. *Phytotaxa* 369, 63–79. <http://dx.doi.org/10.11646/phytotaxa.369.2.1>
- Hongsanan S, Hyde KD, Phookamsak R, Wanasinghe DN et al. 2020 – Refined families of *Dothideomycetes*: *Dothideomycetidae* and *Pleosporomycetidae*. *Mycosphere* 11, 1553–2107. <https://doi.org/10.1007/s13225-020-00462-6>
- Hongsanan S, Li YM, Liu JK, Hofmann T et al. 2014 – Revision of genera in *Asterinales*. *Fungal Diversity* 68, 1–68. <https://doi.org/10.1007/s13225-014-0307-4>
- Hosagoudar VB, Abraham TK, Biju CK 2001 – Re-evaluation of the family *Asterinaceae*. *Mycopathological Research* 39, 61–63
- Hosagoudar VB, Dhivaharan V, Nithyatharani R 2012 – Foliicolous fungi of Kodaikanal in Tamil Nadu. Elias Academic Publishers, Nagercoil 1–94. <https://doi.org/10.11609/JOTT.O2056.705-8>
- Hyde KD, Jones EBG, Liu JK, Ariyawansa H et al. 2013 – Families of *Dothideomycetes*. *Fungal Divers* 63, 1–313. <https://doi.org/10.1007/s13225-013-0263-4>
- Lini KM, Jacob T, Neeta NN 2021 – *Marthomyces* gen. nov. (*Asterinales*, *Lembosiaceae*) from Southern Western Ghats, India. *Asian Journal of Mycology* 4, 35–41. <https://doi.org/10.5248/136.635>

Marasinghe DS, Dayarathne MC, Maharachchikumbura SSN, Elgorban AM et al. 2021 – *Lembosia mimusopis* sp. nov. from Thailand. Mycotaxon 136, 635–644. <https://doi.org/10.5248/136.635>

Marasinghe DS, Hongsanan S, Zeng XY, Jones EGB et al. 2022 – Taxonomy and ecology of epifoliar fungi. Mycosphere 13(1), 558–601. <https://doi.org/10.5943/mycosphere/13/1/4>

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