

## Outlineoffungi.org - Note 789 *Honghemyces*

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

*Honghemyces* Wanas., J.D.P. Bezerra & P.E. Mortimer

*Honghemyces* was introduced as a monotypic genus with *H. pterolobii* Wanas. & J.D.P. Bezerra as the type species. It was isolated from dead twigs of *Pterolobium macropterum* in Yunnan, China ([Wanasinghe et al. 2022](#)). Morphological characters and phylogenetic analyses based on combined sequences of ITS, LSU, SSU, *tef1-α*, and *rpb2* confirmed that *Honghemyces* can be clearly distinguished from allied genera *Neorhamphoria* Boonmee, Hüseyin & Selçuk, *Bezerromyces* Bezerra, Souza-Motta & Crous in *Bezerromycetaceae* and form a distinct clade. The results supported *H. pterolobii* as a new species of *Honghemyces* within *Bezerromycetaceae*, *Tubeufiales*. *Honghemyces* is characterized by a saprotrophic life mode, semi-immersed to superficial ascomata, clavate, short pedicellate asci, ellipsoidal, hyaline with 3-septate ascospores, a hamathecium comprising filamentous, branched, septate pseudoparaphyses and chlamydospores forming a chain of a torulose-like structure in culture ([Wanasinghe et al. 2022](#)). Furthermore, *Honghemyces pterolobii* shares some characteristics with species in *Bezerromyces* and *Neorhamphoria* such as dark-pigmented ascomata, broad clavate asci, and multi-septate, hyaline ascospores, and it was able to produce an asexual state as chlamydospores-like structure in culture ([Boonmee et al. 2016](#); [Bezerra et al. 2017](#)). Currently, there is only one species known from China (Index Fungorum 2022).

### References

- Bezerra JDP, Oliveira RJV, Paiva LM, Silva GA, Groenewald JZ, Crous PW, Souza-Motta CM. 2017 – *Bezerromycetales* and *Wiesneriomycetales* ord. nov. (class *Dothideomycetes*), with two novel genera to accommodate endophytic fungi from Brazilian cactus. *Mycological Progress* 16, 1297–1309. <https://doi.org/10.1007/s11557-016-1254-0>
- Boonmee S, Ekanayaka AH, Hyde KD, Hüseyin E, Ekici K, Selçuk F. 2016 – Phylogenetic placement of *Neorhamphoria garethjonesii* gen. et sp. nov. (*Tubeufiales*, genus *incertae sedis*). *Mycosphere* 7, 1447–1457. <https://doi.org/10.5943/mycosphere/7/9/16>
- Wanasinghe DN, Bezerra JDP, Xu JC, Mortimer PE. 2022 – *Honghemyces pterolobii*, gen. et sp. nov. (*Bezerromycetaceae*, *Tubeufiales*), a new ascomycetous fungus from *Pterolobium macropterum* in Honghe, China. *Sydowia* 75, 13–21. <https://doi.org/10.12905/0380.sydowia75-2022-0013>

### Entry by

**Saranyaphat Boonmee**, Center of Excellence in Fungal Research, Mae Fah Luang University, Chiang Rai 57100, Thailand

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

Published online 7 April 2023