

Outlineoffungi.org - Note 640 *Heterophaeomoniella*

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Heterophaeomoniella L. Mostert, C.F.J. Spies, Halleen & Gramaje

Heterophaeomoniella was established by [Chen et al. \(2021\)](#) for a single species, *Heterophaeomoniella pinifoliorum*. The species was originally introduced as *Phaeomoniella pinifoliorum* from a needle surface of *Pinus densiflora* in its anamorphic state from Korea ([Lee et al. 2006](#)). The taxon was characterized by reduced, swollen, phialide-like cells, lateral production of conidia from hyphae and terminal, subterminal or less commonly lateral, secondary production of conidia from yeast-like primary conidia ([Lee et al. 2006](#)). [Lee et al. \(2006\)](#) placed this taxon within *Phaeomoniella* based on the ITS phylogenetic analysis also showed the close phylogenetic association with *P. chlamydospora*. [Chen et al. \(2021\)](#) found that *Phaeomoniella pinifoliorum* formed a distant clade from *P. chlamydospora* based on ITS, *tef1* and *tub2* sequences data which further differs in the optimal growth in culture and presence of little to no aerial mycelium from the latter. Thus, the monotypic genus *Heterophaeomoniella* was introduced within *Phaeomoniellales*, but the familial placement of the genus remains uncertain ([Chen et al. 2021](#)).

References

- Chen Q, Bakhshi M, Balci Y, Broders KD et al. 2021 – Genera of phytopathogenic fungi: GOPHY 4. *Studies in Mycology* 101, 417–564. <https://doi.org/10.3114/sim.2022.101.06>
- Lee HB, Park JY, Jung HS, Summerbell RC. 2006 – *Phaeomoniella zymoides* and *Phaeomoniella pinifoliorum* spp. nov., new acid-tolerant epiphytic fungi isolated from pine needles in Korea. *Mycologia* 98(4), 598–611. <https://doi.org/10.1080/15572536.2006.11832663>

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