Outlineoffungi.org - Note 762 *Keqinzhangia*

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Keqinzhangia Z.F. Yu, M. Qiao & R.F. Castañeda

Zheng et al. (2022) introduced the monotypic genus *Keqinzhangia* within *Microthyriaceae* (*Microthyriales*, *Dothideomycetes*) with the type species *K. aquatica* Z.F. Yu, M. Qiao & R.F. Castañeda. *Keqinzhangia aquatica* was isolated from the leaves of an unidentified plant as a saprobic fungus in freshwater habitats in E'mei National Conservation Area, Sichuan Province, China (Zheng et al. 2022). *Keqinzhangia* is characterized by prostrate conidiophores, holothallic conidiogenous cells and thallic-arthric, polymorphic, cylindrical to fusiform, sub-oblecythiform or cuneiform, unicellular to septate, hyaline conidia with globose, terminal, solitary or short catenulate chlamydospores (Zheng et al. 2022). The sexual morph has been not reported. Phylogenetically, *Keqinzhangia aquatica* clustered with the sexual species *Microthyrium buxicola* (MFLUCC 15-0212 and MFLUCC 15-0213) and the asexual species *Neoanungitea eucalypti* (CBS 143173) within the family *Microthyriaceae* (Zheng et al. 2022). *Keqinzhangia* can be distinguished by its holothallic conidiogenous cells and thallic-arthric, polymorphic conidia while chlamydospores were only observed in *K. aquatica* (Zheng et al. 2022). *Neoanungitea* has holoblastic conidiogenous cells and fusoid-ellipsoid conidia (Crous et al. 2019). The LSU sequences of *K. aquatica* and *M. buxicola* are 90% similar, but they could not link the sexual and asexual morphs of these two distinct species. The placement of *Keqinzhangia* is supported as a monophyletic lineage within *Microthyriaceae* based on maximum likelihood analysis of ITS-LSU nucleotide alignment, although it is morphologically similar to species of *Neoanungitea* (Crous et al. 2019).

References

Crous PW, Wingfield MJ, Lombard L, Roets F et al. 2019 – Fungal planet description sheets: 951–1041. Persoonia 43, 223–425. https://doi.org/10.3767/persoonia.2019.43.06

Zheng H, Qiao M, Guo JS, Castañeda-Ruiz RF et al. 2022 – *Keqinzhangia aquatica* gen. et sp. nov. and *Pseudocoronospora hainanense* gen. et sp. nov., isolated from freshwater in southern China. Antonie van Leeuwenhoek 115, 203–213. https://doi.org/10.1007/s10482-021-01688-3

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