

## Outlineoffungi.org – Note 1360 *Xenoidriella*

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### *Xenoidriella* Crous

Crous et al. (2023) introduced *Xenoidriella* in *Microdochiaceae* (*Xylariales*, *Xylariomycetidae*, *Sordariomycetes*, *Ascomycota*) to accommodate a single species isolated from leaf of *Cinnamomum camphora* (*Lauraceae*) in Western Cape Province, South Africa based on morphology and phylogenetic analyses. *Xenoidriella* was typified by *X. cinnamomi* Crous, characterized by solitary, subcylindrical conidiophores that arise from superficial hyphae, with terminal and integrated conidiogenous cells forming a rachis of denticulate loci, and hyaline, smooth, fusoid conidia, with medianly 1-septate, tapering towards subacutely rounded apex and truncate hilum (Crous et al. 2023). Phylogenetic analysis of combined ITS-LSU-SSU-*rpb2-tef1* sequence data provided by Crous et al. (2023) showed that *X. cinnamomi* is close to *Ciliosporella italica*, *Guayaquilina cubensis*, and *Neoidriella desertorum*. *Xenoidriella* is a hyphomycete, while *Ciliosporella italica* coelomycete with an appendage. Morphologically, *Guayaquilina* has macronematous, tree-like conidiophores, (0–)1-septate navicular conidia, and thick-walled, 1-septate, brown chlamydospores that distinguish it from *Xenoidriella* (Hernández-Restrepo et al. 2016, Magdama et al. 2020). Additionally, *X. cinnamomi* can be distinguished from *N. desertorum* by possessing 1-septate conidia and the absence of chlamydospores (Crous et al. 2023). *Xenoidriella* is monotypic, further investigation through the collection of additional fresh specimens and DNA sequence data could contribute to a more comprehensive understanding of its diversity and molecular phylogenies.

### References

- Crous PW, Osieck ER, Shivas RG, Tan YP et al. 2023. Fungal Planet description sheets: 1478–1549. *Persoonia* 50, 158–310.
- Hernández-Restrepo M, Groenewald JZ, Crous PW. 2016 – Taxonomic and phylogenetic re-evaluation of *Microdochium*, *Monographella* and *Idriella*. *Persoonia* 36, 57–82.
- Magdama F, Sosa D, Espinoza F, et al. 2020 – *Guayaquilina* gen. nov., typified by *Idriella cubensis*. *Mycotaxon* 135, 501–512.

### Entry by

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