

## Outlineoffungi.org - Note 1400 *Bonitomyces*

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### *Bonitomyces* Crous

*Bonitomyces* is a monotypic genus, including *B. buffelskloofinus* Crous as the type species. This genus was erected by Crous et al. (2023) based on morphology and phylogenetic analysis using ITS and LSU sequence data. The type species was isolated from dead twigs of unidentified trees in South Africa (Crous et al. 2023). In the genus, sporangiophores are in clusters, erect, unbranched, hyaline, and smooth with globose and multi-spored sporangia. Sporangiospores are hyaline, smooth-walled, globose to ellipsoid or reniform, and aseptate. Chlamydospores are abundant, globose, and thick-walled. *Bonitomyces buffelskloofinus* is closely related to *Dissophora globulifera*. According to Vandepol et al. (2020), all *Dissophora* species have been found in forest litter and soil, which aligns with the ecological niche of *B. buffelskloofinus*. Additionally, it forms clusters of sporangiophores similar to those reported for *D. globulifera* by Vandepol et al. (2020), but it seems to belong to a genus that falls between *Dissophora* and *Benniella*. The taxonomic placement of this genus is uncertain within *Mortierellaceae*, *Mortierellales*.

### References

- Crous PW, Costa MM, Kandemir H, Vermaas M et al. 2023 – Fungal Planet description sheets: 1550–1613. *Persoonia: Molecular Phylogeny and Evolution of Fungi* 51(1), 280–417.
- Vandepol N, Liber J, Desirò A, Hyunsoo Na et al. 2020 – Resolving the *Mortierellaceae* phylogeny through synthesis of multi-gene phylogenetics and phylogenomics. *Fungal Diversity* 104, 267–289.

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