

## Outlineoffungi.org - Note 1334 *Monocalenia*

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### *Monocalenia* Xavier-Leite, M. Cáceres & Lücking

The monotypic genus *Monocalenia* was established within the *Gomphillaceae* (*Graphidales*, *Ostropomycetidae*, *Lecanoromycetes*, *Pezizomycotina*, *Ascomycota*) to classify *M. monospora* (Vězda) Xavier-Leite, M. Cáceres & Lücking. This taxonomic designation was based on comprehensive morphological analyses and phylogenetic studies utilizing SSU and LSU ribosomal RNA sequence data. (Xavier-Leite et al. 2023). This lichenized genus is characterized by having a continuous and smooth thallus that lacks setae. The apothecia are erumpent and zeorine (*Calenia* type) with epithelial algae. The ascospores are singular and muriform. The hyphophores remain unknown. *Monocalenia* is closely related to *Asterothyrium* rather than the broader *Calenia* group. The most similar species, *Calenia lueckingii*, shares characters like epithelial algae and muriform ascospores but differs by having a finely verrucose thallus and apothecia without pruina. Molecular data indicate that *Calenia lueckingii* is more closely related to *Calenia* s.str. than to *Monocalenia monospora* (Xavier-Leite et al. 2023).

### References

Xavier-Leite AB, Goto BT, Lücking R, da Silva Cáceres ME. 2023 – New genera in the lichenized family *Gomphillaceae* (*Ascomycota*: *Graphidales*) focusing on neotropical taxa. *Mycological Progress* 22(12), 88.

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