

## Outlineoffungi.org - Note 1245 *Cadophora*

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*Cadophora* Lagerb. & Melin

*Cadophora* is a polyphyletic genus, the phylogenetic structure reflecting the diversity of lifestyles within the genus (Maciá-Vicente et al. 2020). Of the two main clades these authors recognize, species within *Cadophora* sensu stricto (includes the type species *C. fastigiata*) are often associated with vascular staining, whereas the species in a second phylogenetically divergent clade are mostly found as endophytes of healthy roots, but with a few vascular staining species. Incorporating data from Maciá-Vicente et al. (2020) and Walsh et al. (2019) into the 15 gene dataset of Johnston (2019), *Cadophora* sensu stricto probably needs its own family, sister to *Drepanopezizaceae* and *Pyrenopezizaceae* (Johnston 2022, *Pyrenopezizaceae* as *Ploettnerulaceae*, *Cadophora* represented by *C. novi-eboraci* and *C. orientoamericana*). The root-inhabiting '*Cadophora*' species belong in *Pyrenopezizaceae* in a clade sister to the vascular staining '*C. malorum*'. Based on teleomorph morphology, *Cadophora* sensu stricto cannot be distinguished from the sexual states of species in *Pyrenopezizaceae* (H.O. Baral, pers. comm.).

### References

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- Maciá-Vicente JG, Piepenbring M, Koukol O. 2020 – Brassicaceous roots as an unexpected diversity hot-spot of helotialean endophytes. IMA Fungus 11, 16.
- Walsh E, Duan W, Mehdi M, Naphri K, Khiste S, et al. 2018 – *Cadophora meredithiae* and *C. interclivum*, new species from roots of sedge and spruce in a western Canada subalpine forest. Mycologia 110, 201–214.

### Entry by

**P.R. Johnston**, Manaaki Whenua – Landcare Research, Private Bag 92170, Auckland 1142, New Zealand

(Edited by **Maryam Tavakol Noorabadi**)

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