

Outlineoffungi.org - Note 1179 *Acephala*

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Acephala Grünig & T.N. Sieber

Acephala was introduced by Grünig & Sieber (2005) to accommodate *A. applanata* Grünig & Sieber as the type species based on the phylogeny of ITS, LSU, *rpb1*, TOP1, LNS2 sequence data. Phylogenetically, *Acephala* formed a sister clade with *Phialocephala*. The taxonomic placement of *Acephala applanata* is in *Mollisiaceae*, *Helotiales*, *Leotiomyces*, and *Ascomycota*. The second species placed in this genus, *A. macrosclerotiorum* Münzenb. & Bubner, forms a phylogenetically distinct clade within *Mollisiaceae* (Tanney & Seifert 2020). This species reportedly forms true ectomycorrhizas and sclerotia on the roots of *Pinus sylvestris* (Münzenberger et al. 2009). *Acephala applanata* is a dark septate symbiont of the roots of *Picea abies*, earlier known under the invalid name *Mycelium radice-atrovirens* (Grünig & Sieber (2005).

References

- Grünig CR, Sieber TN. 2005 – Molecular and phenotypic description of the widespread root symbiont *Acephala applanata* gen. et sp. nov., formerly known as dark-septate endophyte Type 1. *Mycologia* 97, 628–640. <https://doi.org/10.1080/15572536.2006.11832794>
- Münzenberger B, Bubner B, Wöllecke J, Sieber TN et al. 2009 – The ectomycorrhizal morphotype *Pinirhiza sclerotia* is formed by *Acephala macrosclerotiorum* sp. nov., a close relative of *Phialocephala fortinii*. *Mycorrhiza* 19, 481–492. <https://doi.org/10.1007/s00572-009-0239-0>
- Tanney JB, Seifert KA. 2020 – *Mollisiaceae*: An overlooked lineage of diverse endophytes. *Studies in Mycology* 95, 293–380. <https://doi.org/10.1016/j.simyco.2020.02.005>

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Published online 15 May 2023