

Outlineoffungi.org - Note 668 *Poeltonia*

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Poeltonia S.Y. Kondr., Lökös & Hur

[Kondratyuk et al. \(2021\)](#) introduced *Poeltonia* with *P. grisea* as the type species based on phylogenetic analyses, combined with morphology characteristics. The genus comprises four other species viz. *P. elegantula*, *P. isidiomuscigena*, *P. perisidiosa*, and *P. venusta*. This genus is characterized by paraplectenchymatous or scleroplectenchymatous upper cortex, a whitish or pale brown underside in the central part, whitish to brownish or grey, simple or rarely brush-like rhizines, wider conidia and several unidentified substances. The type species, *P. grisea*, is recorded from Europe, North America, Nepal, Australia, and New Zealand where it grows on rock, soil, bark and wood. In the text, the phylogenetic position of five species within *Poeltonia* are said to have been confirmed by the phylogeny based on the combined matrix. However, only three of this species are shown in the phylogenetic tree. In the presented cladogram, *Poeltonia* is paraphyletic, basal to *Physconia* and one of these branches are supported. The genus will most likely not be readily accepted (e.g., Cannon et al. 2022). The taxonomic position of the genus is in *Physciaceae* (*Caliciales*, *Lecanoromycetes*).

References

- Cannon P, Thüs H, Aptroot A, Coppins B, Orange A, Sanderson N & Simkin J .2022 – *Caliciales: Physciaceae*, including the genera *Anaptychia*, *Heterodermia*, *Hyperphyscia*, *Mischoblastia*, *Phaeophyscia*, *Physcia*, *Physciella*, *Physconia*, *Rinodina* and *Tornabea*. *Revisions of British and Irish Lichens* 24, 1–37.
- Kondratyuk SY, Lökös L, Kärnefelt I, Thell A, Jeong M-H, Oh S-O, Kondratiuk AS, Farkas E, Hur J-S. 2021 – Contributions to molecular phylogeny of lichen-forming fungi 2. Review of current monophyletic branches of the family *Physciaceae*. - *Acta Botanica Hungarica* 63(3-4), 351–390. <https://doi.org/10.1556/034.63.2021.3-4.8>

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