

Outlineoffungi.org - Note 1050 *Phlebicolorata*

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Phlebicolorata C.L. Zhao

Zhao et al. (2023) introduced *Phlebicolorata* within *Meruliaceae* (*Polyporales*, *Agaricomycetes*, *Basidiomycota*) to accommodate four wood-decomposing phlebioid (tuberculate) and poroid species based on phylogenetic analyses using a combined DNA data set of the ITS, LSU, *rpb1*, *rpb2*, *tef1*, GAPDH, and SSU sequences data. *Phlebicolorata* was typified by *Phlebicolorata brevispora* (Nakasone) C.L. Zhao. The genus is distributed in China and North America (Zhao et al. 2023). All species share annual, resupinate basidiomata, monomitic hyphal system with clamp connections. The basidiomes of different species are reported to have an apparent apricot-orange, orange-brown, reddish-brown, or brownish-olive color. The basidiospores are colorless, thin-walled, smooth, broadly ellipsoid to short cylindrical. The genus includes four species *Phlebicolorata brevispora*, *P. alboaurantia* (C.L. Zhao, B.K. Cui & Y.C. Dai) C.L. Zhao, *P. pseudoplacenta* (Vlasák & Ryvarden) C.L. Zhao, and *P. rosea* (C.L. Zhao & Y.C. Dai) C.L. Zhao (Nakasone & Eslyn 1981, Vlasák et al. 2012, Zhao et al. 2015, 2023). Molecular analyses of ITS+LSU dataset indicate proximity of the four species (Figure 1 of Zhao et al., 2023). However, the results of multigene analysis (ITS, mitSSU, nucLSU, *gapdh*, *tef1*, *rpb1*, and *rpb2*) of the same paper (Figure 2 of Zhao et al., 2023) group *Aurantiporus croceus* (Pers.) Murrill to the proximity of *P. rosea*, so *Phlebicolorata* splits in two distinct lineages. The results of multigene phylogeny are questionable, because only few genetic loci were sequenced for all species of *Phlebicolorata*. Moreover, the type species *P. brevispora* was omitted in the multigene analysis. Therefore, a new multigene phylogeny including more specimens with sequences of all gene loci available for each species is desirable to confirm the status of *Phlebicolorata*. According to Zhang et al. (2024) *P. alboaurantia*, *P. rosea* and *P. pseudoplacenta* belong to *Aurantiporus*. According to these results, only *P. brevispora* and possibly *Phlebia austroasiana* remain in *Phlebicolorata*.

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