

ITS2 secondary structure and morpho-genetic groups of species in the genus *Trebouxia*

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ITS2 secondary structures are a prominent and useful tool in taxon delimitation analyses in many groups of organisms. Here, it is demonstrated that these kinds of investigations are also helpful in delimitating species in *Trebouxia* and mainly add further support for the four morpho-genetic groups of species in the genus *Trebouxia*: **arboricola-group** including *T. aggregata*, *T. arboricola*, *T. asymmetrica*, *T. crenulata*, *T. cretacea*, *T. decolorans*, *T. gigantea*, *T. jamesii*, *T. incrustata*, *T. showmanii*, *T. solaris*, *T. vaga*; **impressa-group** including *T. anticipata*, *T. gelatinosa*, *T. impressa*, *T. flava*, *T. potteri*; **corticola-group** including *T. corticola*, *T. galapagensis*, *T. higginsiae*, *T. usneae*; and **simplex-group** including *T. angustilobata*, *T. australis*, *T. brindabellae*, *T. simplex*, *T. suecica*. These groups correspond also to individual, highly supported clades according to molecular phylogenetic analyses based on ITS and partial SSU nuclear rDNA data (Beck 2002; Helms 2003; Doering & Piercey-Normore 2009; Voytsekhovich & Beck 2015).