

## Outlineoffungi.org - Note 947 *Trapejamesia*

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*Trapejamesia* S. Y. Kondr.

Kondratyuk et al. (2022) introduced this genus to accommodate two species, *Trapelia corticola* and *Placynthiella hurii*. Both were recovered as sister species in a phylogeny based on a combination of ITS, LSU and SSU sequences, although for *P. hurii* only ITS sequences (not available in the Gen Bank) were used. *Trapejamesia* was typified by *T. corticola* S.Y. Kondr. The relationships between this clade and the rest of *Trapeliaceae* remain unresolved. The two species differ considerably, whereas *T. corticola* is an epiphytic, usually sterile, sorediate crustose species occurring in temperate and boreal forests in both hemispheres (Coppins & James 1984), *P. hurii* was described as sterile composed of more or less bullated squamules occurring on soil in crevices or more rarely on rock in South Korea, rarely producing soredia (although the diagnosis states that it lacks such a reproductive strategy) (Kondratyuk et al. 2017). Both species have lecanoric and gyrophoric acids as secondary metabolites, and in addition, *T. corticola* also has 5-O-methylhiassic acid. The diagnosis of the genus seems to be based only on *T. corticola*, as the generic diagnostic features were the presence of bark or wood, small ascospores, and paraphyses with swollen apices, all characters not shared by *P. hurii*. Both ascospore size and paraphyses shape are characters that vary in *Trapelia* (Orange 2018), so apart from the substrate there are no solid features to separate this clade from *Trapelia* and further studies with additional molecular markers should be carried out before accepting this genus. The taxonomic placement of *Trapejamesia* is in *Trapeliaceae*, *Baeomycetales*, *Ostropomycetidae*, *Lecanoromycetes*, *Pezizomycotina*, and *Ascomycota*.

### References

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Published online 2 April 2024