



PSEUDOBOGORIELLA ¹

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Pseudobogoriella Lücking, R.Miranda & Aptroot, in S. Hongsanan et al., *Fungal Diversity* 105: 187 (2020).

Type: *P. hemisphaerica* (Müll.Arg.) Lücking, R.Miranda & Aptroot

Thallus crustose, ecorticate, sometimes barely lichenised, with or without a prothallus. Photobiont *Trentepohlia*. Ascomata perithecia, globose to conical, solitary, erumpent to prominent and exposed; perithecial wall black, in section completely carbonised, not differentiated internally. Ostiole apical, rarely lateral. Interascal hyphae richly branched and anastomosed, sometimes inspersed, embedded in a non-amyloid, gelatinous matrix. Asci clavate to fusiform, typically with a distinct "tail" or pedicel, 8-spored, non-amyloid. Ascospores soon grey-brown, fusiform-ellipsoid, 1-septate, KI-, with the wall of even thickness and a gelatinous halo that becomes minutely spinulose with age. Conidiomata pycnidia, immersed or erumpent, usually occurring on the prothallus; conidia bacilliform. Chemistry: nil.

A genus of c. 15 chiefly tropical, corticolous or rarely folicolous species, segregated initially from *Mycomicrothelia* and then *Bogoriella*. In its current circumscription, it is strongly based on molecular data (Hongsanan et al. 2020), and differs from *Bogoriella* by having smaller (mostly < 20 µm long), exclusively 1-septate ascospores that lack thickened, endospore invaginations.

Key references: Hawksworth (1985); Aptroot & Lücking (2016); Hongsanan et al. (2020).

1 *Pseudobogoriella minutula* (Zahlbr.) Lücking, R.Miranda & Aptroot

In S. Hongsanan et al., *Fungal Diversity* 105: 188 (2020); —*Microthelia minutula* Zahlbr., in H. von Handel-Mazzetti, *Symb. Sinica* 3: 18 (1930); *Mycomicrothelia minutula* (Zahlbr.) D.Hawksw., *Bull. Br. Mus. Nat. Hist., Bot.* 14: 102 (1985); *Bogoriella minutula* (Zahlbr.) Aptroot & Lücking, *Lichenologist* 48: 912 (2016).

Thallus very thin, endophloeodal, at most forming a paler discoloration of the substratum; prothallus lacking. Perithecia 0.15–0.3 mm wide, emergent; wall 14–35 µm thick, opaque reddish brown, unchanged in K; ostiole apical. Interascal hyphae 1–1.5 µm thick, not inspersed. Asci 8-spored, 55–65 × 12–14 µm; ascospores 12.5–16 × 5.5–7 µm, with the proximal locule a little larger (after Hawksworth 1985). Pycnidia not seen.

Known in Tasmania (and Australia) from a single, small specimen (identified by A. Aptroot), collected from the bark of an exotic *Agonis juniperina* in a suburban garden; also known (and originally described) from eastern Asia. Several additional Tasmanian collections from the smooth bark of understorey trees in wet forest remain unidentified and are tentatively retained under the genus name *Mycomicrothelia*.

Cascades, South Hobart, 42°54'S 147°17'E, 130 m, 2002, G. Kantvilas 462/02 (HO).

1 This work can be cited as: Kantvilas G (2023). *Pseudobogoriella*, version 2023:1. In MF de Salas (Ed.) *Flora of Tasmania Online*. 2 pp. (Tasmanian Herbarium, Tasmanian Museum and Art Gallery: Hobart). <https://flora.tmag.tas.gov.au/lichen-genera/pseudobogoriella/>

2 Tasmanian Herbarium, Tasmanian Museum & Art Gallery, PO Box 5058, UTAS LPO, Sandy Bay, TAS 7005, Australia.

REFERENCES

- Aptroot A, Lücking R (2016) A revisionary synopsis of the Trypetheliaceae (Ascomycota: Trypetheliales). *Lichenologist* **48** 763–982.
- Hawksworth DL (1985) A redistribution of the species referred to the ascomycete genus *Microthelia*. *Bulletin of the British Museum (Natural History)*, Botany Series **14** 43–181.
- Hongsanan S, Hyde KD, Phookamsak R, Wanasinghe DN, McKenzie EHC, Sarma VV, Lücking R, Boonmee S, Bhat JD, Liu N-G, Tennakoon DS, Pem D, Karunarathna A, Jiang S-H, Jones GEB, Phillips AJL, Manawasinghe IS, Tibpromma S, Jayasiri SC, Sandamali D, Jayawardena RS, Wijayawardene NN, Ekanayaka AH, Jeewon R, Lu Y-Z, Phukhamsakda C, Dissanayake AJ, Zeng X-Y, Luo Z-L, Tian Q, Thambugala KM, Dai D, Samarakoon MC, Chethana KWT, Ertz D, Doilom M, Liu J-K, Pérez Ortega S, Suija A, Senwanna C, Wijesinghe SN, Niranjana M, Zhang S-N, Ariyawansa HA, Jiang H-B, Zhang J-F, Norphanphoun C, de Silva NI, Thiagaraja V, Zhang H, Bezerra JDP, Miranda González R, Aptroot A, Kashiwadani H, Harishchandra D, Sérusiaux E, Abeywickrama PD, Bao D-F, Devadatha B, Wu H-X, Moon KH, Gueidan C, Schumm F, Bundhun D, Mapook A, Monkai J, Bhunjun CS, Chomnunti P, Suetrong S, Chaiwan N, Dayarathne MC, Yang J, Rathnayaka AR, Xu J-C, Zheng J, Liu G, Feng Y, Xie N (2020) Refined families of Dothideomycetes: orders and families incertae sedis in Dothideomycetes. *Fungal Diversity* **105** 17–318.

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