



BOGORIELLA ¹

Gintaras Kantvilas ²

Bogoriella Zahlbr., *Annals Cryptog. Exot.* 1: 111 (1928).

Type: *B. subpersicina* Zahlbr. [= *B. decipiens* (Müll.Arg.) Aptroot & Lücking

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, at maturity lacking an ocular chamber. Ascospores soon grey-brown, fusiform, ellipsoid to oblong, transversely septate or muriform, KI-, with the endospore wall thickened and a gelatinous halo that becomes minutely spinulose with age. Conidiomata pycnidia; conidia fusiform to bacilliform. Chemistry: nil.

A genus of 18, chiefly tropical, corticolous species, segregated from *Mycomicrothelia* and, in its current circumscription, strongly based on molecular data (Hongsanan *et al.* 2020). In the Tasmanian flora, it is most closely related to *Pseudobogoriella*, from which it differs by its larger ascospores (> 20 µm long) which have unevenly thickened, invaginated walls.

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

1 *Bogoriella queenslandica* (Müll.Arg.) Aptroot & Lücking

Lichenologist 48: 914 (2016); —*Microthelia queenslandica* Müll.Arg., *Rep. Australas. Assoc. Advancem. Sci.* 6: 455 (1895); *Mycomicrothelia queenslandica* (Müll.Arg.) Sipman & Aptroot, *Lichenologist* 37: 309 (2005).

Thallus whitish, to 10–40 µm thick, forming small irregular patches 10–20 mm wide, sometimes delimited by a black prothallus. Perithecia 0.2–1 mm wide, emergent; wall 30–40 µm thick, opaque reddish brown, unchanged in K; ostiole apical. Interascal hyphae 1–1.5 µm thick, not inspersed. Asci 8-spored, 90–110 × 25–32 µm. Ascospores (30–)31–36.8–45(–48) × 10–12.2–15 µm, fusiform-ellipsoid with rounded apices, transversely 1-septate and constricted at the septum, also often slightly attenuated towards the apices, with the endospore wall thickened, invaginated and sometimes forming pseudosepta; cells ± even sized, or with the proximal one wider and the distal one longer; wall of ± even thickness, or a little thicker at the apices. Pycnidia not seen.

Widespread in the tropics, including mainland Australia, but rare (or overlooked) in Tasmania where it grows on smooth bark in wet forests. This tiny, inconspicuous species can easily be mistaken for a species of *Anisomeridium* or *Arthopyrenia*, although the large, 2-celled, grey-brown, spinulose ascospores are very distinctive.

Florentine Bridge, 42°29'S 146°27'E, 360 m. 1968, G.C. Bratt 68/322 (HO); Balts Spur, 43°05'S 147°56'E, 420 m, 1983, G. Kantvilas 148/83 (HO, NY).

1 This work can be cited as: Kantvilas G (2023). *Bogoriella*, 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/bogoriella/>

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.
- 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, Senwana C, Wijesinghe SN, Niranjana M, Zhang S-N, Ariyawansa HA, Jiang H-B, Zhang J-F, Norphanphoun C, de Silva NI, Thiyagaraja 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.

INDEX

A

Anisomeridium.....1
Arthopyrenia.....1

B

Bogoriella.....1
Bogoriella decipiens.....1
Bogoriella queenslandica.....1
Bogoriella subpersicina.....1

M

Microthelia queenslandica.....1
Mycomicrothelia.....1
Mycomicrothelia queenslandica.....1

P

Pseudobogoriella.....1

T

Trentepohlia.....1