Degelia crustacea

FAMILY

Pannariaceae

AUTHORITY

Degelia crustacea P.M.Jørg. & D.J.Galloway

FLORA CATEGORY

Lichen - Native

ENDEMIC TAXON

Nο

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Lichens - Crustose

CURRENT CONSERVATION STATUS

2018 | Data Deficient | Qualifiers: SO

BRIEF DESCRIPTION

Characterised by the corticolous habit; the crustose to subsquamulose thallus; the paraplectenchymatous upper cortex of anticlinal hyphae; the I+ blue reaction of the hymenium; ellipsoidal ascospores, 10–15 \times 5–8 μm ; and a negative chemistry.

DISTRIBUTION

North Island: Northland (Waipoua, Kawakawa, Russell) to Auckland (Waitakere Ranges) and South Auckland (Hunua Ranges). On bark of lowland coastal trees and shrubs. Known also from Australia (NSW) and Juan Fernandez.

HABITAT

A pioneer of bare bark of stems or branches of trees and shrubs in humid, lowland, coastal forests of northern New Zealand, in regions with a subtropical climate. Like *D. periptera* it may prove to have a wider distribution area in the Tasman Sea region, and may be restricted to that region.

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DETAILED DESCRIPTION

Thallus small-squamulose to crustose, squamules closely appressed, attached to a blue-black prothallus, forming orbicular patches to 3 cm diam. **Squamules** incised, sometimes lobulate, to 0.1 mm diam., not noticeably enlarged at margins. **Upper surface** blue-grey. Cortex 25 μ m thick, paraplectenchymatous of anticlinal hyphae. **Apothecia** rather rare, brown to blackish, to 1 mm diam., with a distinct, coronate thalline exciple to 100 μ m thick, and a paraplectenchymatous proper exciple to 125 μ m thick. **Hymenium** colourless, I+ blue to 120 μ m tall. **Hypothecium** yellowish to 100 μ m thick. Asci cylindrical, 60–90 × 12–15 μ m, with amyloid apical structures. **Ascospores** ellipsoidal, 10–15 × 5–8 μ m. **Pycnidia** not seen.

Chemistry: TLC-, all reactions negative.

SIMILAR TAXA

It appears to be related to *Degelia periptera*, another northern species, which, however, has long, stellately radiating lobes that are apically fan-shaped, and a differing cortical anatomy (upper cortex not paraplectenchymatous). Sepertated from *Degeliella* by the hymenium I+ persistent blue. *Degelia crustacea* is superficially similar to the subantarctic *D. rosulata*. It differs from that species in its more crustose habit and the blue, instead of reddish iodine reaction of the hymenium.

SUBSTRATE

Corticolous

ATTRIBUTION

Fact sheet prepared by Marley Ford (5 September 2021). Brief description and Features sections copied from Galloway (2007). Habitat, and similar taxa copied form Jørgensen & Galloway (2000).

REFERENCES AND FURTHER READING

Galloway D.J. 2007: Flora of New Zealand: Lichens, including lichen-forming and lichenicolous fungi. 2nd edition. Lincoln, Manaaki Whenua Press. 2261 pp.

Jørgensen P.M., Kantvilas G., & Galloway D.J. 2000:. Three new species in the lichen genus Degelia. *The Lichenologist*, 32(3): 257-262.

MORE INFORMATION

https://www.nzpcn.org.nz/flora/species/degelia-crustacea/