

# Arthonia radiata

## SYNONYMS

Opegrapha radiata Pers., A. subramulosa Müll.Arg., Arthonia ramulosa C.Knight & Mitt.

## FAMILY

Arthoniaceae

## AUTHORITY

Arthonia radiata (Pers.) Ach.

## FLORA CATEGORY

Lichen – Native

## ENDEMIC TAXON

No

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Lichens - Crustose

## CURRENT CONSERVATION STATUS

2018 | Not Threatened | Qualifiers: SO

## BRIEF DESCRIPTION

Characterised by the corticolous habit; the pale grey-white to brownish thallus, delimited by a thin black line of prothallus and forming mosaics on bark; black, elongate to branched apothecia in star-like clusters; and 3-septate ascospores, the apical cell not enlarged.

## DISTRIBUTION

**North Island:** Auckland, Wellington (Wellington City). **South Island:** Canterbury (Mt Palm, Lowry Peaks Range, Peel Forest).

Known from Great Britain, Europe, Scandinavia, North America and Australia.

## HABITAT

On smooth-barked trees (e.g. *Acer pseudoplatanus*\*) in parks and gardens, and on *Cytisus scoparius*\* and *Discaria toumatou* more widely in the countryside. A pioneer species on smooth bark of deciduous trees.

## DETAILED DESCRIPTION

**Thallus** immersed, usually delimited by a brown or brown-black prothalline line and often mosaic-forming, whitish, pale-grey, sometimes with a brownish or olivaceous tinge. **Apothecia** variable, rounded, elongate to stellate, 0.2–0.8 mm diam., linear to sparingly branched or stellate and to 1–2 × 0.1–0.2 mm, flat to subconvex, black, epruinose. **Hymenium** 35–50 µm tall, colourless; epithecium brown or olivaceous, K+ greenish. **Hypothecium** 10–25 µm thick, colourless to pale olivaceous, K+ greenish. **Paraphysoids** numerous, 1–2 µm thick, apices slightly swollen to 3–4 µm diam., with brown apical caps. **Asci** broadly clavate. **Ascospores** obovoid to oblong, 3-septate, apical cell not enlarged, 15–20 × 4.5–6 µm.

## SUBSTRATE

Corticolous

## ATTRIBUTION

Fact sheet prepared by Marley Ford (January 2023). Brief description, Distribution, Habitat, and Features sections sourced from Galloway (2007).



## 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.

## MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/arthonia-radiata/>