

Abrodictyum strictum

COMMON NAMES

erect bristle fern

BIOSTATUS

Native

CATEGORY

Vascular

STRUCTURAL CLASS

Ferns

SIMPLIFIED DESCRIPTION

Terrestrial or epiphytic filmy fern. Plants solitary or growing in patches of many individuals. Fronds narrow up to 14 cm long (usually less). Fertile fronds with sori at bases of frond divisions, on short branches, tubular with a fine hair-like projection prominently exerted from tube.

DETAILED DESCRIPTION

Terrestrial tufted fern. **Rhizomes** short, stout, erect, bearing numerous red-brown hairs. **Fronds** dark green, ± erect, arcuate. **Stipes** 30–140 mm long. **Rachises** narrowly winged throughout. **Laminae** 60–200(–220) × 20–60 mm, narrowly elliptic, 3-pinnate, somewhat stiff and bristly.

Primary and secondary pinnae stalked, imbricate; ultimate segments linear, each furnished with a single unbranched vein. **Sori** present near bases of lamina segments, stalked on short branches, several on each primary pinna. **Indusia** tubular, mouth slightly flared, receptacle exerted.

SIMILAR TAXA

Easily distinguished from other New Zealand members of *Abrodictyum* species by the short, erect rhizomes, and long, narrow rather stiff and bristly fronds with finely divided linear ultimate segments. Most often confused with young plants of the very different *Leptopteris hymenophylloides* from which it can be distinguished by the tubular indusia bearing hair-like exerted receptacles.

DISTRIBUTION

Indigenous. New Zealand: North Island (from Te Pahi south), South Island, Stewart Island/Rakiura and Chatham Islands. Mainly westerly on the two main islands of New Zealand. Extremely uncommon on the Chatham Islands where it is known only from two sites on Chatham Island (Rēkohu). Also present in New Caledonia (Zhao et al. 2024).

HABITAT

Coastal to montane, in closed forest (at usually (but not exclusively) at higher elevations in the North Island), often in tree caves, and amongst exposed tree roots, in and around rock overhangs, cave entrances, and within pot holes in ephemeral streams, or on mossy logs and moss covered banks and ledges within stream systems. Occasionally on clay banks in gumland scrub.

CURRENT CONSERVATION STATUS

2023 | Not Threatened

THREATS

Not Threatened. However, this species is biologically sparse and possibly merits listing as 'At Risk-Naturally Uncommon' with the qualifier "Sp" [Sparse].

DETAILED TAXONOMY



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FAMILY

Hymenophyllaceae

AUTHORITY

Abrodictyum strictum (Menzies ex Hook. et Grev.) Ebihara et K.Iwats.

SYNONYMS

Trichomanes strictum Menzies ex Hook. et Grev.; *Macroglena stricta* (Hook. et Grev.) Copel.; *Trichomanes leptophyllum* A.Cunn.; *Trichomanes rigidum* var. *strictum* (Menzies ex Hook. et Grev.) Field,

TAXONOMIC NOTES

NZPCN now follows Ebihara et al. (2006) and Zhao et al. (2024) in recognising *Abrodictyum* as distinct from *Trichomanes*. Although Brownsey & Perrie (2016) rejected this idea, the generic segregation was adopted by the PPG I (2016) and is now widely followed throughout the world.

ENDEMIC TAXON

No

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

ECOLOGY

PROPAGATION TECHNIQUE

Difficult—should not be removed from the wild.

OTHER INFORMATION

ETYMOLOGY

abrodictyum: From the Greek habros ‘delicate’, ‘pretty’ and diktyon ‘net’, literally “delicate net”

strictum: From the Latin strictus ‘upright, stiff’

NVS CODE

ABRSTR

PREVIOUS CONSERVATION STATUSES

2017 | Not Threatened

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

REFERENCING AND CITATIONS

REFERENCES AND FURTHER READING

Brownsey PJ, Smith-Dodsworth JC. 2000. New Zealand Ferns and Allied Plants. David Bateman, Auckland, NZ. 168 p.

Brownsey PJ, Perrie LR. 2016. Hymenophyllaceae. In: Breitwieser I, Heenan PB, Wilton AD. Flora of New Zealand - Ferns and Lycopphytes. Fascicle 15. Manaaki Whenua Press, Lincoln, NZ. <https://doi.org/10.7931/B1QP4Z>.

Ebihara A, Dubuisson, J-Y, Iwatsuki K, Hennequin S, Ito M. 2006. A taxonomic revision of the Hymenophyllaceae. *Blumea* 51: 2–57. <https://doi.org/10.3767/000651906X622210>.

Yanan Zhao, Elodie Boucheron-Dubuisson, Germinal Rouhan, Kunio Iwatsuki, Atsushi Ebihara, Sabine Hennequin & Jean-Yves Dubuisson (19 Nov 2024): Updated diversity and taxonomy of the fern genus *Abrodictyum* C. Presl (Hymenophyllaceae, Polypodiidae) in Asia, Australasia and Oceania. *Botany Letters*. DOI: <https://10.1080/23818107.2024.2417245>

PPG 1: The Pteridophyte Phylogeny Group 2016. A community-derived classification for extant lycophytes and ferns. *Journal of Systematics and Evolution* 54: 563–603. <https://doi.org/10.1111/jse.12229>.

ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange (21 April 2011). Description adapted from Brownsey & Smith-Dodsworth (2000).

NZPCN FACT SHEET CITATION

Please cite as: de Lange, P.J. (Year at time of access): *Abrodictyum strictum* Fact Sheet (content continuously updated). New Zealand Plant Conservation Network. <https://www.nzpcn.org.nz/flora/species/abrodictyum-strictum/> (Date website was queried)

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/abrodictyum-strictum/>

PDF DATE

28 November 2024