

**Fissidens dietrichiae** Müll.Hal., *Linnaea* 37: 146 (1872)

T: Brisbane R., Qld, 1884, *A.Dietrich* 444; holo: S n.v.; iso: BM, MEL, NY.

*Fissidens undatodecurrans* Müll.Hal., *Enum. Bryin. Exot.* 90: (1889). T: Ashgrove, near Brisbane, Qld, May 1885, *H.Tryon*; iso: MEL.

*Fissidens praemollis* Broth., *Proc. Linn. Soc. New South Wales* 41: 578 (1916). T: Skinners Head, Richmond R., N.S.W., 1901, *W.W.Watts* 5371; holo: H-BR; iso: MEL, NSW.

*Fissidens densifolius* Broth., *Queensland Bot. Bull.* 4: 21 (1891), *nom. nud.* T: Mt Perry, Qld, *J.Keys*(?); iso: MEL.

*Fissidens sydneyensis* Geh., *Proc. Linn. Soc. New South Wales*, Suppl. 27: 29 (1902), *nom. nud.* Based on: Minto, near Sydney, N.S.W., *T.Whitelegge* 263; iso: MEL.

[*Fissidens crassipes auct. non* Wilson ex Bruch & Schimp.: G.A.M.Scott & I.G.Stone, *Mosses Southern Australia* 96 (1976)]

Illustrations: M.A.Bruggemann-Nannenga, *Proc. Kon. Ned. Akad. Wetensch.*, ser. C, 82: 23, fig. 5 (1979); D.G.Catcheside, *Mosses of South Australia* 73, fig. 13 (1980), as *F. crassipes*; H.Streimann, *Mosses of Norfolk Island* 80, fig. 34 (2002).

Dioicous or synoicous. Stems simple or branched, robust, 5–40 mm long, with minute axillary nodules. Leaves ±distant, multijugate, homomallous, curled when dry, elliptical to obovate, 1.1–2.0 mm long, 0.3–0.7 mm wide; limbidium mostly unistratose, biseriata, to 5 rows in vaginant laminae, the outer rectangular to quadrate proximally; apex obtuse, apiculate. Costa usually subpercurrent. Vaginant laminae exceeding half the leaf length, ±closed; dorsal lamina usually slightly decurrent. Lamina cells hexagonal, firm-walled, 11–15 µm diam., 20–25 × 10–12 µm juxtacostally at the base of the vaginant lamina.

Perichaetial leaves more acuminate than vegetative leaves. Setae 4–10 mm long. Capsules suberect, subsymmetrical; theca oblong, c. 0.8 mm long and 0.65 mm wide; operculum 0.3–0.7 mm long, conical-acute. Spores 17–26 µm diam.

Occurs in N.T., S.A., Qld, N.S.W., A.C.T., Vic., as well as Lord Howe Island and Norfolk Island; semiaquatic on rocks or terrestrial in damp places. Also in New Caledonia and the Kermadec Islands.

N.T.: Reedy Rock Hole, George Gill Ra., *A.C.Beaglehole* 20937 (MEL). S.A.: Clarendon, *J.O.Tepper* 587 (NY). Qld: Cania Gorge Natl Park, *I.G.Stone* 20941A (MEL). N.S.W.: Hickeys Falls, S of Coonabarabran, *I.G.Stone* 8408B (MEL); Hanging Rock Ck, Barkers Vale, *H.Streimann* 6141 (CANB). A.C.T.: Uriarra Crossing, Murrumbidgee R., *D.G.Catcheside* 64.82 (AD). Vic.: Yarra R. at Heyington Railway Stn, *J.H.Willis* 154 (BM, MEL).