A new combination in *Torrentaria* (Brachytheciaceae, Bryophyta), with new records of *T. muelleri* in Australia

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**Abstract**

*Rhynchostegium muelleri* A.Jaeger is transferred to *Torrentaria muelleri* (A.Jaeger) Ochyra & Bednarek-Ochyra (Brachytheciaceae).

**Introduction**

*Torrentaria* Ochyra is the name of a moss genus of the family Brachytheciaceae which has long been known as *Platyhypnidium* M.Fleisch. Since the latter generic name proved to be illegitimate because it included the lectotype of an earlier generic name, *Platyhypnum* Loeske, the new generic name *Torrentaria* was proposed to replace it (Ochyra 2012). Altogether 15 species were transferred to *Torrentaria* and these are all aquatic mosses, some of which are widely distributed in rheophytic habitats throughout the world. Alas, by a mischance one important and firmly rooted member of *Platyhypnidium* had not been transferred to *Torrentaria* and this error is corrected herein.


Type citation: “Habitat insulam Javae, de Vriese (c. fructu); in m. [montibus] Gedé et Salak, Teysmann. Sumatra: prov. Padang in regione superiore, Andrée Wiltens.” (Dozy et al. 1867, p. 162)

Syntypes: Indonesia: Jawa: m. Gede et Salak, Teysmann — H-BR 3235!; Java (2 specimens, 1 with sporophyte) — H-SOL 1105!.

*Torrentaria muelleri* is an aquatic moss widely distributed in Asia from India through the Indo-China Peninsula (Myanmar, Thailand, Vietnam and Malaysia) to Indonesia (Sumatera, Jawa, Sulawesi, Papua), Papua New Guinea and the Philippines, with northward extensions to Japan and with isolated stations in the Hawaiian Islands and New South Wales in eastern Australia (Ignatov *et al.* 1999). Herein, two additional records of this species are reported from Queensland, based on the specimens that the authors obtained many years ago from the late G.A.M. Scott and I.G. Stone.

The former genus Platyhypnidium was represented in Australia by a single species, P. austrinum (Hook.f. & Wilson) M.Fleisch. (Hedenäs 2002). However, this species, along with Rhynchostegium muriculatum (Hook.f. & Wilson) Reichardt of New Zealand, is at present placed in the bitypic genus Hedenaesia Huttunen & Ignatov (Huttunen and Ignatov 2010). Accordingly, the genus Torrentaria, a replacement of Platyhypnidium, still consists of only one species in Australia.

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References

Anonymous (1975) [untitled map]. Contributions of the Queensland Herbarium 19: back end paper.

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