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## **A new combination in *Ardeuma* (Pottiaceae, Bryophyta)**

Authors: Zander, Richard H., and Brinda, John C.

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## A new combination in *Ardeuma* (Pottiaceae, Bryophyta)

Richard H. Zander and John C. Brinda

R. H. Zander ([richard.zander@mobot.org](mailto:richard.zander@mobot.org)) and J. C. Brinda, Missouri Botanical Garden, PO Box 299, St. Louis, MO 63116, USA.

A correct combination in *Ardeuma* R.H. Zander & Hedd., *A. annotinum* (Mitt. ex Dixon) R.H. Zander & Brinda, is provided for the species *A. insigne* (Dixon) R.H. Zander & Hedd., which is not the first name available at the species level. Distinctions between the genera *Ardeuma* and *Hymenostylium* are tabulated.

A study (Zander and Hedderson 2016) of *Hymenostylium xanthocarpum* (Hook.) Brid., an uncommon species now known from Republic of Cameroon, La Réunion, India and Nepal, revealed that this species was quite distinct from the widespread *H. recurvirostrum* (Hedw.) Dixon and its several related species. A new genus was proposed for the latter, *Ardeuma* R.H. Zander & Hedd. The distinguishing traits are tabulated here (Table 1).

The second author noticed that the combination in *Ardeuma* in that paper for *Hymenostylium recurvirostrum* var. *insigne* (Dixon) E.B. Bartram was not the earliest available at the species level, and this is here corrected.

***Ardeuma annotinum*** (Mitt. ex Dixon) R.H. Zander & Brinda, **comb. nov.**

Basionym: *Hymenostylium annotinum* Mitt. ex Dixon, J. Bot. 48: 308. 1910. Type: Bhutan, India, Griffith 17 (BM! isotype).

*Weissia recurvirostra* var. *insignis* Dixon, J. Bot. 40: 377. 1902. *Hymenostylium recurvirostrum* var. *insigne* (Dixon) E. B. Bartram, Philipp. J. Sci. 68: 106. 1939. *Hymenostylium insigne* (Dixon) Podp., Consp. Musc. Eur. 173. 1954. *Gymnostomum insigne* (Dixon) A.J.E. Sm., J. Bryol. 9: 279. 1976. *Ardeuma insigne* (Dixon) R.H.Zander &

Table 1. Comparison of salient differential features of *Ardeuma* and *Hymenostylium*.

Character	<i>Hymenostylium</i>	<i>Ardeuma</i>
Central strand presence	present	absent
Leaf shape	long-elliptical	lanceolate
Leaf base shape	short-ovate	long-ovate to rectangular
Leaf constriction	wasp-waisted	absent
Laminal cells	bulging strongly adaxially	convex on both sides
Laminal papillae shape	simple to 2-fid	punctate to multiplex
Laminal papillae size	covering more than 1/2 lumen	covering 1/3 or less of lumen

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*Ardeuma annotinum* differs from its most common congeners by the combination of leaves 2–2.5 mm in length, sharply reflexed above a broad base; distal marginal cells bistratose in patches, laminal papillae mostly bifid, often crowded; costa excurrent, guide cells 4–7, and adaxial epidermal costal cells differentiated. This species, discussed as *Hymenostylium annotinum*, was treated at length by Zander and Eckel (1982). Several other synonyms are provided by Eckel (2009). Additional discussion and keys to the species in the New World are given by Cano and Jiménez (2013).

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