



## New combinations in African *Cucurbitaceae*

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### Key words

Africa  
*Bryonia*  
*Cucurbitaceae*  
*Melothria*  
*Neoachmandra*  
*Pilogyne*  
*Zehneria*

**Abstract** Eight new combinations are made for African *Cucurbitaceae*, two in the genus *Neoachmandra*, six in *Pilogyne*.

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With the breaking up of *Zehneria* Endl., De Wilde & Duyfjes (2006) recognized the new genus *Neoachmandra* W.J.de Wilde & Duyfjes, besides *Zehneria*. Subsequent molecular analysis (Schaefer et al. 2009, Cross et al. in prep.) indicates that both genera should be united again. However, on morphological grounds, De Wilde & Duyfjes (2009a, b) chose to keep the genera apart, at the same time restricting *Zehneria* to its type-species *Z. baueriana* Endl. as sole species, and re-instating *Pilogyne* Schrad. Both *Neoachmandra* and *Pilogyne* are widespread in the Old World, whereas *Zehneria* is restricted to Norfolk Island (type) and New Caledonia. For naming DNA-samples to be used in ongoing molecular research (Cross et al. in prep.) a few species need names either in *Neoachmandra* or in *Pilogyne*:

***Neoachmandra gillettii* (De Wild.) W.J.de Wilde & Duyfjes, comb. nov.**

*Melothria gillettii* De Wild., Ann. Mus. Congo Belge, Bot. 5, 3 (1909) 140, pl. 13. — Type: *Gillet* 3179 (holo BR), Republic Congo.

***Neoachmandra hallii* (C.Jeffrey) W.J.de Wilde & Duyfjes, comb. nov.**

*Zehneria hallii* C.Jeffrey, J. W. African Sci. Assoc. 9 (1965) 83. — Type: *Thonning s.n.* (holo C), Ghana.

Synonym: *Neoachmandra deltoidea* (Schumach.) W.J.de Wilde & Duyfjes (2009b), nom. illeg. (not *Neoachmandra deltoidea* (Arn.) W.J.de Wilde & Duyfjes 2006: 18).

***Pilogyne emirnensis* (Baker) W.J.de Wilde & Duyfjes, comb. nov.**

*Melothria emirnensis* Baker, J. Linn. Soc., Bot. 21 (1884) 346. — Type: *Baron* 2812 (lecto K, designated by Jeffrey 1967: 124), Madagascar.

***Pilogyne keayana* (R.Fern. & A.Fern.) W.J.de Wilde & Duyfjes, comb. nov.**

*Zehneria keayana* R.Fern. & A.Fern., Bol. Soc. Brot., sér. 2, 36 (1962) 144. — Type: *Keay FHI* 37145 (holo K), Nigeria.

***Pilogyne marlothii* (Cogn.) W.J.de Wilde & Duyfjes, comb. nov.**

*Melothria marlothii* Cogn., Verh. Bot. Vereins Prov. Brandenburg 30 (1888) 152. — Type: *Schinz* 320 (lecto Z, designated by Meeuse 1962: 15), South Africa, Cape Province.

***Pilogyne minutiflora* (Cogn.) W.J.de Wilde & Duyfjes, comb. nov.**

*Melothria minutiflora* Cogn., in A.DC. & C.DC., Monogr. Phan. 3 (1881) 611. — Type: *Mann* 2010 (holo K), Cameroon.

***Pilogyne parvifolia* (Cogn.) W.J.de Wilde & Duyfjes, comb. nov.**

*Melothria parvifolia* Cogn., Bull. Herb. Boissier 3 (1895) 420. — Syntypes: *Rehmann* 8839, 8842 (Z), Natal, Durban.

***Pilogyne scabra* (L.f.) W.J.de Wilde & Duyfjes, comb. nov.**

*Bryonia scabra* L.f., Suppl. Pl. (1781) 423. — Type: *Thunberg s.n.* (holo UPS), South Africa, Cape Province.

### REFERENCES

- Cross HB, De Wilde WJJO, Duyfjes BEE, De Knijff P, Gravendeel B. In prep. Molecular phylogeny of *Zehneria* Endl. (Cucurbitaceae) and close relatives.
- De Wilde WJJO, Duyfjes BEE. 2006. Redefinition of *Zehneria* and four new related genera (Cucurbitaceae), with an enumeration of the Australasian and Pacific species. *Blumea* 51: 1–88.
- De Wilde WJJO, Duyfjes BEE. 2009a. Miscellaneous South East Asian cucurbit news II. *Reinwardtia* 12: 405–414.
- De Wilde WJJO, Duyfjes BEE. 2009b. Miscellaneous cucurbit news III. *Gardens' Bulletin Singapore* 61: 205–216.
- Jeffrey C. 1967. Flora of Tropical East Africa. Cucurbitaceae.
- Meeuse ADJ. 1962. The Cucurbitaceae of southern Africa. *Bothalia* 8, 1: 1–111.
- Schaefer H, Heibl C, Renner SS. 2009. Gourds afloat: a dated phylogeny reveals an Asian origin of the gourd family (Cucurbitaceae) and numerous oversea dispersal events. *Proceedings of the Royal Society B* 276: 843–851.

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