

SHORT COMMUNICATION

Reinstatement and lectotypification of the name *Cissus muelleri* Planch.
(Vitaceae)

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Key Words: Vitaceae; *Cissus cardiophylla*; *Cissus muelleri*; flora of Australia; flora of Queensland; taxonomy; lectotype

The specific epithet ‘*cardiophylla*’ has been applied to two different species of *Cissus* L. (IPNI 2023). Standley (1929) described *C. biformifolia* Standl., from Panama, and *C. cardiophylla* Standl. from Costa Rica. In the *Flora of Costa Rica*, Standley (1937) considered these two species to be synonymous and placed *C. cardiophylla* Standl. into synonymy under *C. biformifolia* Standl. Jackes (1988) transferred the Australian species *Vitis cardiophylla* F.Muell. to *Cissus* as *C. cardiophylla* (F.Muell.) Jackes, but this name is an illegitimate later homonym of *C. cardiophylla* Standl. According to the ICN rules (Turland *et al.* 2018), another name is required for the Australian species. Originally the intention was to rename the species with a new epithet. However, the name *Cissus muelleri* Planch. is available for this species, having been previously included in the synonymy of *C. cardiophylla* (F.Muell.) Jackes (Jackes 1988).

Taxonomy

Cissus muelleri Planch., *Monogr. Phan. [A.DC. & C.DC.]* 5(2): 516 (1887). **Type citation:** “Australie tropicale: Queensland, district de Kennedy (Mueller, herb. Melb. sous le nom de *Vitis cordata*). Hodgkinson river (Gulliv., n 204, in herb. Melb.). Rockingham bay (Dallachy in herb. Melbourne).” **Type:** Queensland. NORTH KENNEDY DISTRICT: Basalt Wall Fletchers C[ree]k, *s.dat.*, *R. Daintree s.n.* (lecto [here designated]: MEL 565994).

Vitis cardiophylla F.Muell., *Fragm.* 2: 73 (1861); *Cissus cardiophylla* (F.Muell.) Jackes, *Austrobaileya* 2: 491 (1988), *nom. illeg. non C. cardiophylla* Standl., **syn. nov.** **Type:** *In nemoribus ad oppidum*, Rockhampton, *s.dat.*, Thozet [94] (holo: MEL 540180), labelled as *Vitis cordata*.

Vitis cordata Benth., *Fl. Austral.* 1: 447 (1863), *pro parte* taxonomic synonym.

Cissus repens auct., *non* Lam., *Domin, Biblioth. Bot.* 22(89): 921 (1927).

Typification: Of the three original syntypes for *Cissus muelleri*, only the collection by R. Daintree has been located. This collection was referred to by Planchon as “Mueller, herb. Melb.”, but was actually collected by R. Daintree as indicated by the label “Vitis, Kennedy District, R. Daintree” on MEL 565994. There is an additional blue label attached to the specimen which indicates it was collected on the “Basalt Wall, Fletcher’s Creek, North Kennedy”. A second sheet (MEL 565993) of what is apparently the same collection has had some of this information added with later labels. Although I have not seen a specimen labelled as *Gulliver 204* from the Hodgkinson River, *Gulliver 804* from the Hodgkinson (Hodgkinson) River (MEL 565093) is *C. muelleri*; it is possible that the hand-written number was incorrectly transcribed by Planchon. The third syntype (a collection by Dallachy) has not been located to date.

Acknowledgments

My sincere thanks to Alison Vaughan (MEL) and Frank Zich (CNS) for assistance in locating some of the *Cissus muelleri* collections, and Paul Forster (BRI) for nomenclatural advice.

References

- IPNI (2023). *International Plant Names Index*. The Royal Botanic Gardens, Kew, Harvard University Herbaria & Libraries and Australian National Herbarium. <http://www.ipni.org>, accessed 6 January 2023.
- JACKES, B.R. (1988). Revision of the Australian Vitaceae, 3. *Cissus*. L. *Austrobaileya* 2: 481–505.
- STANDLEY, P.C. (1929). Studies of American Plants I. *Field Museum of Natural History, Botanical Series* 4(8): 225–226.
- (1937). Flora of Costa Rica. *Field Museum of Natural History, Botanical Series* 18(2): 653.
- TURLAND, N.J., WIERSEMA, J.H., BARRIE, F.R., GREUTER, W., HAWKSWORTH, D.L., HERENDEEM, P.S., KNAPP, S., KUSBER, W.-H., LI, D.-Z., MARHOLD, K., MAY, T.W., MCNEILL, J., MONRO, A.M., PRADO, J., PRICE, M.J. & SMITH, G.F. (eds). (2018). *International Code of Nomenclature for algae, fungi and plants (Shenzhen Code) adopted by the Nineteenth International Botanical Congress Shenzhen, China, July 2017*. Regnum Vegetabile 159, Glashütten: Koeltz Botanical Books.