



Nomenclatural notes on *Goepertia* (Marantaceae)

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A recent molecular based phylogeny (Borchsenius *et al.* 2012) redefined the genus *Goepertia* Nees (1831: 337) to include all the subgenera of *Calathea* Meyer (1818: 6) proposed by Schumann (1902) with the exception of *C.* subgenus *Calathea* Körnicke (1862: 112). As a result, several species of *Calathea* recently described were transferred to *Goepertia* (Braga 2014). Similarly, a taxonomic revision of the Brazilian species, currently carried out by the first author, led to the conclusion that *Calathea polytricha* Baker (1894: 497) should be combined in *Goepertia*. This species features the synapomorphies of *Goepertia*, such as simple inflorescences and corolla lobes straight to spreading, and belongs to Schumann's subgenus *Pseudophrynium* Körnicke (1862: 113). During the taxonomic revision, other names have been considered synonyms and are typified here.

Goepertia bella (W.Bull) Borchsenius & Suárez (2012: 629)

Basionym:—*Maranta bella* Bull (1875a: 7) ≡ *Calathea bella* (W.Bull) Regel (1879: 297) ≡ *Phyllodes bella* (W.Bull) Kuntze (1891: 696). Type (neotype, designated here):—BRAZIL. ES, Marilândia, Liberdade, propr.: Deoclécio Lorencini, Alt.: 150–350m/s.m., 37°21'7"S, 58°30'51"W, 28 September 2006, *L.F.S. Magnano et al. 1468* (MBML 32733!).

= *Calathea cardiophylla* Schumann (1902: 108). Type (lectotype, designated here):—BRAZIL. Environs of Rio [de] Janeiro, 1882, *A.F.M. Glaziou 14326* (K barcode K000586826! [digital image], isotype F-F0BN009813! [digital image]; image of the lectotype is available at <http://www.kew.org/herbcatimg/248852.jpg>).

Additional specimen examined:—BRAZIL. Rio (de Janeiro), *A.F.M. Glaziou 17815* (syntype K! [digital image]).

= *Calathea musaica* W.Bull *ex* Bailey (1914: 624). Type (neotype, designated here):—BRAZIL. ES, Santa Teresa, Vale do Canaã, 8 November 1985, *W.A. Hoffmann 289* (MBML 4064!, isoneotypes ESA 62630!, RB 602863).

Notes:—*Maranta bella* was described by William Bull in his Plant Catalogue (1875a: 7). However, neither he, nor Regel (1879: 297), Kuntze (1891: 696) or Borchsenius & Suárez (2012: 629), in their following combinations, have appointed any type material to this species. Thus, *Goepertia bella* is here neotypified (Art. 9.7 of ICN, McNeill *et al.* 2012) with a collection from Brazil (as stated in William Bull's original description) which presents the same features he highlighted in the *diagnosis*, such as leaves “obliquely ovate, acute, narrowing considerably towards the point, cordate at the base, and so unequal-sided that one side is nearly twice the breadth of the other”.

The synonyms *Calathea cardiophylla* and *Calathea musaica* were also lectotypified and neotypified, respectively.

Goepertia concinna (W.Bull) Borchsenius & Suárez (2012: 630)

Basionym:—*Maranta concinna* Bull (1874: 78) ≡ *Calathea concinna* (W.Bull) Schumann (1902: 119). Type (neotype, designated here):—Regel (1877: t. 893).

= *Maranta leopardina* Bull (1875b: 523) ≡ *Calathea leopardina* (W.Bull) Regel (1877: 35) ≡ *Phyllodes leopardina* (W.Bull) Kuntze (1891: 696). Type (lectotype, designated here):—Bull (1876: 46).

Notes:—Given that there is no type specimen or illustration associated with Bull's description of *Maranta concinna* (1874: 78), the illustration of Regel's publication of *Calathea leopardina* (1877: t.893) is here designated a neotype (Art. 9.7 of ICN, McNeill *et al.* 2012). This choice was based on the fact that in this publication, Regel considered