

HYACINTHACEAE

FIVE NEW COMBINATIONS IN ORNITHOGALOIDEAE IN SOUTHERN AFRICA AND A RECOMMENDATION FOR OPTIONAL COMBINATIONS IN THE SUBFAMILY

Ethesia tanquana Mart.-Azorín & M.B.Crespo (Martínez-Azorín & Crespo 2012), *Stellarioides chartacea* Mart.-Azorín *et al.* (Martínez-Azorín *et al.* 2013a) and *Trimelopter craibii* Mart.-Azorín *et al.* (Martínez-Azorín *et al.* 2013b) (Hyacinthaceae: Ornithogaloideae) are recently described novelties from southern Africa. They were named following the generic classification of the subfamily proposed by Martínez-Azorín *et al.* (2011), one of two recent classifications for the subfamily derived from substantively the same molecular phylogeny. The alternative classification adopted by Manning *et al.* (2009) is the preferred option among southern African botanists, where it has been adopted by the major herbaria in the country (e.g. BOL, NBG, PRE). We provide combinations for the three new taxa in this classification to permit their integration into collections and literature.

Ornithogalum recurvum Oberm. (1971) was treated as a synonym of *O. stapffii* Schinz until resurrected by Martínez-Azorín & Crespo (in press). We provide the necessary combination in *Albuca*.

We also provide the new combination *Albuca comosa* (Welw. ex Baker) J.C.Manning & Goldblatt, based on *Urginea comosa* Welw. ex Baker (Baker 1874), as the correct name for the species known until now as either *Ornithogalum pulchrum* Schinz or *Albuca pulchra* (Schinz) J.C.Manning & Goldblatt. The transfer of this

basonym to *Ornithogalum* was precluded by the existence of the earlier *Ornithogalum comosum* L. (1753), but we overlooked its availability in *Albuca* until alerted to this fact by Martínez-Azorín & Crespo (2013).

Finally, we recommend that all future descriptions of species and any new combinations in Ornithogaloideae include an optional combination in the alternative classification (i.e. Manning *et al.* 2009 or Martínez-Azorín *et al.* 2011) to obviate the necessity for separate publication of these combinations, and to facilitate their direct integration into existing collections and databases.

Albuca chartacea (Mart.-Azorín *et al.*) J.C.Manning & Goldblatt, comb. nov. [subg. *Urophyllon* (Salisb.) J.C.Manning & Goldblatt]. *Stellarioides chartacea* Mart.-Azorín *et al.* in Phytotaxa 85: 2 (2013).

Albuca craibii (Mart.-Azorín *et al.*) J.C.Manning & Goldblatt, comb. nov. [subg. *Monarchos* (U.Müll.-Doblies & D.Müll.-Doblies) J.C.Manning & Goldblatt]. *Trimelopter craibii* Mart.-Azorín *et al.* in Phytotaxa 87: 52 (2013).

Albuca comosa (Welw. ex Baker) J.C.Manning & Goldblatt, comb. nov. [subg. *Namibiogalum* (U.Müll.-Doblies & D.Müll.-Doblies) J.C.Manning & Goldblatt]. *Urginea comosa* Welw. ex Baker in Transactions of the Linnean Society London, Botany 1: 247 (1878).

Urginea angolensis Baker: 364 (1874). *Battandiera angolensis* (Baker) Mart.-Azorín & M.B.Crespo: 2 (2013). [Transfer of this, the oldest epithet for the species, to *Albuca* is blocked by the name *A. angolenensis* Welw. (1859)].

Ornithogalum pulchrum Schinz: 221 (1890). *Albuca pulchra* (Schinz) J.C.Manning & Goldblatt in Manning *et al.*: 92 (2009).

Albuca recurva (Oberm.) J.C.Manning & Goldblatt, comb. nov. [subg. *Namibiogalum* (U.Müll.-Doblies & D.Müll.-Doblies) J.C.Manning & Goldblatt]. *Ornithogalum recurvum* Oberm. in *Bothalia* 10: 357 (1971). *Battandiera recurva* (Oberm.) Mart.-Azorín & M.B.Crespo: 3 (2013).

Ornithogalum tanquanum (Mart.-Azorín & M.B.Crespo) J.C.Manning & Goldblatt, comb. nov. [sect. *Xanthochlora* (U.Müll.-Doblies & D.Müll.-Doblies) J.C.Manning & Goldblatt]. *Ethesia tanquana* Mart.-Azorín & M.B.Crespo in *Anales del Jardín Botánico de Madrid* 69: 203 (2012).

REFERENCES

- BAKER, J.G. 1874. Descriptions of new species of Scilleae and other Liliaceae. *Journal of Botany* 12: 363–368.
- BAKER, J.G. 1878. XVII. Report on the Liliaceae, Iridaceae, Hypoxidaceae and Haemodoraceae of Welwitsch's Angolan herbarium. *Transactions of the Linnean Society of London. Botany. London* 1,5: 245–273.
- LINNAEUS, C. 1753. *Species Plantarum*. Salvius, Stockholm.
- MANNING, J.C., FORREST, F., DEVEY, D.S., FAY, M.F. & GOLDBLATT, P. 2009. A molecular phylogeny and a revised classification of Ornithogaloideae (Hyacinthaceae) based on an analysis of four plastid DNA regions. *Taxon* 58: 77–107.
- MARTÍNEZ-AZORÍN, M. & CRESPO, M.B. 2012. *Ethesia tanquana* (Ornithogaloideae, Hyacinthaceae), a new species from the Tanqua Karoo (South Africa), with notes on *E. haalenbergensis*. *Annales del Jardín Botánico de Madrid* 69: 201–208.
- MARTÍNEZ-AZORÍN, M. & CRESPO, M.B. 2013. Nomenclatural novelties and taxonomic notes in *Battandiera* Maire (Ornithogaloideae, Hyacinthaceae). *Plant Biosystems* DOI: 10.1080/11263504.2012.761291.
- MARTÍNEZ-AZORÍN, M., CRESPO, M.B. & DOLD, A.P. 2013a. *Stellarioides chartacea* (Hyacinthaceae, Ornithogaloideae), a new species from the Eastern Cape Province of South Africa. *Phytotaxa* 85: 1–8.
- MARTÍNEZ-AZORÍN, M., CRESPO, M.B. & DOLD, A.P. 2013b. *Trimelopter craibii* (Hyacinthaceae, Ornithogaloideae), a new species from the North West Province of South Africa. *Phytotaxa* 87: 50–60.
- MARTÍNEZ-AZORÍN, M., CRESPO, M.B., JUAN, A. & FAY, M.F. 2011. Molecular phylogenetics of subfamily Ornithogaloideae (Hyacinthaceae) based on nuclear and plastid DNA regions, including a new taxonomic arrangement. *Annals of Botany* 107: 1–37.
- OBERMEYER, A.A. 1971. Two new *Ornithogalum* species from South West Africa. *Bothalia* 10: 355–358.
- SCHINZ, H. 1890. Beiträge zur Kenntnis der Flora von Deutsch-Südwest Afrika IV. Verhandlungen des Botanischen Vereins für die Provinz Brandenburg 31: 179–229.

J.C. MANNING^{1,2} and P. GOLDBLATT^{2,3}

¹ Compton Herbarium, South African National Biodiversity Institute, Private Bag X7, 7735 Claremont, Cape Town. E-mail: J.Manning@sanbi.org.za.

² Research Centre for Plant Growth and Development, School of Life Sciences, University of KwaZulu-Natal, Pietermaritzburg, Private Bag X01, 3209 Scottsville, South Africa.

³ B.A. Krukoff Curator of African Botany, Missouri Botanical Garden, P.O. Box 299, St. Louis, Missouri 63166, USA. MS. received: 2013-06-14