

ORTHOGRAPHY OF SOME EPITHETS HONORING BERTERO IN THE VASCULAR FLORA OF THE JUAN FERNANDEZ ISLANDS AND CONTINENTAL CHILE

ORTOGRAFIA DE ALGUNOS EPITETOS EN HONOR A BERTERO EN LA FLORA VASCULAR DE LAS ISLAS DE JUAN FERNANDEZ Y CHILE CONTINENTAL

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ABSTRACT

The orthography of specific epithets commemorating Carlo Giuseppe Bertero in the vascular flora of Chile is discussed, and a list is provided of accepted names.

RESUMEN

Se discute la ortografía de epítetos específicos creados en conmemoración a Carlo Giuseppe Bertero en la flora vascular de Chile, y se presenta una lista de nombres aceptados.

Because Carlo Giuseppe Bertero collected one of the earliest series of plants from the Juan Fernández Islands (Skottsberg, 1922), and another important collection from Central Chile, his name is commemorated by several epithets of plants in these floras. Commemorating a collector would seem to be a routine nomenclatural exercise, except that in this case six different epithets have been used in the Chilean flora: *berteri*, *berterianus*, *berterii*,

berteroanus, *berteroi*, and *berteronianus*. These different usages have caused confusion. This paper attempts to reduce the confusion by (1) discussing the various latinizations that have been used to commemorate Bertero (2), recommending which forms are in best accord with the International Code of Botanical Nomenclature (ICBN; Greuter et al., 1988), and (3) providing a list of accepted names for the vascular plants of the Chilean flora.

The name, Bertero, can be latinized in four different ways: Bertero (without change from the original), Berterius (noble form), Berterus (plebian form), and Berterous (a non-Roman "latinization"). The ICBN allows specific epithets commemorating people to be either substantives in the genitive case or adjectival forms which yields eight total possible epithet forms (Table 1).

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TABLE 1. Latinization of the name "Bertero" in the formation of epithets, showing accepted forms (boldface).

Ways of Latinization of Original Name	Forms of Epithets	
	Substantive, Genitive Case	Adjective
<i>Bertero</i>	<i>berteronis</i>	<i>berteronianus</i>
<i>Berterius</i>	<i>berterii</i>	<i>berterianus</i>
<i>Berterous</i>	<i>berteroī</i>	<i>berteroanus</i>
<i>Berterus</i>	<i>berteri</i>	<i>berteranus</i>

The genitive of *Bertero* is *berteronis*, and as an adjective *berteronianus*. These formations treat *Bertero* as a Third Declension noun, which is recommended against by the ICBN (Rec. 73C.2). *Berterius* becomes *berterii* in the genitive and *berterianus* as an adjective, both of which are not supported by the ICBN (Rec. 73C.3) because they change the stem vowel element and original spelling of the personal name from "o" to "i". *Berterus* becomes *berteri* in the genitive and *berteranus* as an adjective, both of which are also recommended against by the ICBN for the same reasons. The only acceptable epithets derive from *Berterous*, and these become *berteroī* in the genitive and *berteroanus* as an adjective. These are specifically listed as acceptable forms by the ICBN [Rec. 73C.1(c)]. Therefore, we view all the epithets *berteri*, *berterii*, *berteronis*, *berteranus*, *berterianus* and *berteronianus* as unacceptable forms to be corrected to *berteroī* or *berteroanus*, —a, —um without change of authorship.

Following is a list with comments of the specific names of vascular plants commemorating *Bertero* currently accepted in the flora of the Juan Fernández Islands and continental Chile (from Marticorena & Quezada, 1985) showing the cases in which the epithets are herein corrected:

***Aphanes berteroana* Rothm.**

Aphanes berteroana Rothm., Bull. Misc. Inform. 1938: 269. 1938.

***Argythamnia berteroana* (Schldl.) Muell. Arg.**

Chiropetalum berterianum Schldl., Linnaea 26: 637. 1855. *Argythamnia berteroana* (Schldl.) Muell. Arg., Linnaea 34: 151. 1865.

***Astragalus berteroī* Colla ex Savi**

Astragalus berterii Colla ex Savi, Nuovo Gior. Lett., Sci. 24: 147. 1832.

***Astragalus berteroanus* (Moris) Reiche**

Phaca berteriana Moris, Mem. Reale Accad. Sci. Torino 37: 105. 1834.

Astragalus berterianus (Moris) Reiche, Anales Univ. Chile 97: 555. 1897.

***Beilschmiedia berteroana* (Gay) Kosterm.**

Cryptocarya [as "Cryptocaria"] *berteroana* Gay, Fl. Chil. 5: 301. 1851.

Beilschmiedia berteroana (Gay) Kosterm., Recueil Trav. Bot. Neerl. 35: 858. 1938.

***Bromus berteroanus* Colla**

Bromus berterianus Colla, Mem. Reale Accad. Sci. Torino 39: 25. 1837.

***Calandrinia berteroana* Philippi**

Calandrinia berteroana Philippi, Linnaea 28: 643. 1857.

***Carex berteroana* Steudel**

Carex berteroniana Steudel, Flora 25(2): 604. 1842.

***Dendroseris berteroana* (Decne.) Hook. & Arn.**

Rea berteriana Decne., Arch. Bot (Paris) 1: 513. 1833. *Dendroseris berteriana* (Decne.) Hook & Arn., Companion Bot. Mag. 1: 32. 1835.

***Deschampsia berteroana* (Kunth) Trin.**

Trisetum berteroanum Kunth, Rev. Gramin. 457. 1831. *Deschampsia berteroana* (Kunth) Trin., Bull. Sci. Acad. Imp. Saint-Pétersbourg 1: 66. 1836.

Dicksonia berteroana (Colla) Hook.

Davallia berteriana Colla, Mem. Reale Accad. Sci. Torino 39: 37. 1837 [Jan-Apr 1837, preprint; Stafleu and Cowan, 1976]. *Dicksonia berteroana* (Colla) Hook., Sp. Fil. 1: 67. 1844. Hooker (1844) incorrectly based his combination [*Dicksonia berteroana* (Kunze) Hook.] upon *Ballantium berteroanum* Kunze published 27 Aug-2 Sep 1837 (Stafleu and Cowan, 1979) rather than *Davallia berteriana* Colla published earlier in 1837. Both names apparently were based upon the same specimen of Bertero. The correct author of the basionym of the combination, Colla, is herein reinstated.

Gamochaeta berteroana (DC.) Cabrera

Gnaphalium berterianum DC., Prodr. 6: 233. 1837. *Gamochaeta berteriana* (DC.) Cabrera, Bol. Soc. Argent. Bot 9: 367. 1961.

Geranium berteroanum Colla ex Savi

Geranium berteroanum Colla ex Savi, Nuovo Giorn. Lett., Sci. 24: 143. 1832.

Greigia berteroii Skottsb

Greigia berteroii Skottsb., Nat. Hist. Juan Fernández & Easter Is. 2: 109. 1921.

Hippeastrum berteroanum (Philippi) Baker

Habranthus berteroanus Philippi, Linnaea 29: 66. 1858. *Hippeastrum berteroanum* (Philippi) Baker, J. Bot. 16: 83. 1878.

Lathyrus berteroanus Colla ex Savi

Lathyrus berterianus Colla ex Savi, Nuovo Giorn. Lett., Sci. 24: 147. 1832.

Megalachne berteroana Steudel

Megalache berteroniana Steudel, Syn. Pl. Glumac. 1: 237. 1854.

Oxalis berteroana Barnéoud in Gay

Oxalis berteroana Barnéoud in Gay, Fl. Chil. 1: 437. 1846.

Peperomia berteroana Miq.

Peperomia berteroana Miq., Syst. Piperac. 114. 1843.

Pilosyles berteroii Guill.

Pilosyles berteroii Guill., Ann. Sci. Nat. Bot., Sér. 2, 2: 21. 1834.

Polygonum berteroii Philippi

Polygonum berteroii Philippi, Linnaea 29: 38. 1858.

Potamogeton berteroanus Philippi

Potamogeton berteroanus Philippi, Linnaea 30: 200. 1859.

Pteris berteroana Agardh

Pteris berteroana Agardh, Recens. Spec. Pter. 66. 1839.

Puya berteroana Mez

Puya berteroniana Mez, Monogr. Phan. 9: 477. 1896.

Robinsonia berteroii (DC.) Sanders, Stuessy & Marticorena, nov. comb.

Balbisia berterii DC., Arch. Bot. 2: 333. 1833. *Vendredia berterii* (DC.) Baillon, Hist. Pl. 8: 264. 1882. *Rhetinodendron berteroii* (DC.) Hemsl., Rep. Challenger, Bot. 1(3): 39. 1884. *Robinsonia berteroii* (DC.) [as "(Hemsl.)"] Sanders, Stuessy & Marticorena in Pacheco et al., Amer. J. Bot. 72: 989. 1985. During studies on the evolution of flavonoids in *Robinsonia* DC. (Compositae) of the Juan Fernández Islands, Chile (Pacheco et al., 1985), a new combination was made to accomodate the transfer of the monotypic *Rhetinodendron* Meisner into *Robinsonia*. The full rationale for this transfer was given in Sanders et al. (1987), but it was based on similarity of flavonoid and morphological data. The basionym author for the new combination, however, was cited incorrectly. The nomenclatural history of *Robinsonia berteroii* begins with de Candolle (1833) describing a new genus, *Balbisia*, of the Compositae from the Juan Fernández Islands with a single species, *B. berterii*, commemorating its collector Bertero. This generic name, however, was a later homonym (*non* Willdenow, 1803, another genus of Compositae, *nec* Cavanilles, 1804, a genus of Ledocarpaceae) and hence illegitimate. *Balbisia* Cav. has

now been conserved against the earliest *Balbisia* Willd. (ICBN, Greuter et al., 1988). De Candolle's protologue (1833) did not provide a specific description but did indicate the specific name *B. berterii* (p. 333); "En donnant à cet arbuste le nom de *Balbisia Berterii* j'unis deux souvenirs chers à la science et à mon cœur". Because the genus was circumscribed by de Candolle as monotypic at that time, the generic description can be taken as a combined *descriptio generico-specifica* (ICBN Article 42.1). The names *Balbisia* and *B. berterii*, therefore, were validly published in 1833 by de Candolle. Decaisne (1834), de Candolle (1838) and Delessert (1840) all used these same generic and specific names. Baillon (1882) transferred *B. berterii* into *Vendredia* as *V. berterii* (DC.) Baillon, and Hemsley (1884), recognizing the problem of homonymy, moved the species into the monotypic genus *Rhetinodendron* Meisner (1839), a legitimate renaming of the later homonym *Balbisia* DC. A transfer of this species into *Robinsonia*, therefore, might retain the de Candolle epithet, *berterii*, but as argued above, *berteroii* is the better choice.

Rumohra berteroana (Colla) R. Rodríguez
Aspidium berterianum Colla, Mem. Reale Accad. Sci. Torino 39: 42. 1837.
Rumohra berteriana (Colla) R. Rodríguez, Bol. Soc. Biol. Concepción 45: 150. 1972.

Selkirkia berteroii (Colla) Hemsley
Cynoglossum berteri Colla, Mem. Reale Accad. Sci. Torino 38: 132. 1835.
Selkirkia berteroii (Colla) Hemsley, Rep. Challenger, Bot. 1(3): 48. 1884.

Triptilion berteroii Philippi
Triptilion [as "Triptilium"] *berteroii* Philippi, Anales Univ. Chile 87: 91. 1894.

Urtica berteroana Philippi
Urtica berteroana Philippi, Linnaea 33: 235. 1864.

Verbena berteroii (Meisner) Schauer
Shuttleworthia berterii Meisner (nomen), Pl. Vasc. Gen. 2: 198. 1840.

Verbena berteroii (Meisner) Schauer in DC., Prodr. 11: 551. 1847.

Vicia berteroana Philippi
Vicia berteroana Philippi, Linnaea 28: 622. 1857.

Wahlenbergia berteroii Hook. & Arn.
Wahlenbergia berteroii Hook. & Arn., J. Bot. (Hooker) 1: 279. 1834.

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