Miscellaneous validations in Cruciferae and Crassulaceae

Authors: Marhold, Karol, Perný, Marián, and Kolník, Martin

Source: Willdenowia, 33(1) : 69-70

Published By: Botanic Garden and Botanical Museum Berlin (BGBM)

URL: https://doi.org/10.3372/wi.33.33106

Notulae ad floram euro-mediterraneam pertinentes No. 5

KAROL MARHOLD, MARIÁN PERNÝ & MARTIN KOLNÍK

Miscellaneous validations in *Cruciferae* and *Crassulaceae*

Abstract

Marhold, K., Perný, M. & Kolník, M.: Miscellaneous validations in *Cruciferae* and *Crassulaceae.* – Willdenowia 33: 69-70. 2003. – ISSN 0511-9618; © 2003 BGBM Berlin-Dahlem.

Three new combinations and one nomen novum, required as a consequence of shifts in generic circumscription or reassessment of rank, are validated in the genera *Cardamine, Arabidopsis* and *Sedum.*

Introduction

A concise characterisation of the Euro+Med PlantBase Project, its main purposes and planned "products", and of the rationale and prospects of the present Notulae series, can be found in the first instalment of the Notulae, elsewhere in this issue (Willdenowia 33: 37. 2003). Further information on the setup and structures of Euro+Med is displayed on the Internet (http://www.euromed.org.uk).

Cardamine (by K. Marhold & M. Perný)

Cardamine silana Marhold & Perný, **nom. nov.** ≡ *Cardamine latifolia* var. *calabrica* DC., Syst. Nat. 2: 262. 1821. – Holotype: "Des ruiss[e]aux de la Sila. M[isit] *Thomas* 1818" [handwriting of A.-P. de Candolle] (G-DC).

Cardamine populations from Calabria previously either treated as *C. raphanifolia* proles *calabrica* (DC.) O. E. Schulz (in Bot. Jahrb. Syst. 33: 513. 1903) or mentioned without a formal name under *C. raphanifolia* Pourr. (Jones & Akeroyd in Tutin & al., Fl. Eur., ed. 2, 1: 349. 1993; Jalas & Suominen, Atl. Fl. Eur. 10: 156. 1994) are hexaploid like some *C. raphanifolia* populations of the Pyrenees but with respect to morphological and molecular (AFLP) features are closer to diploid Balkan *C. acris* Griseb. (Perný & al., in prep.). They are best considered as a separate species.

The epithet *calabrica* is unavailable in *Cardamine,* at the species rank, because of *C. calabrica* Arcang. (Enum. Sem. Hort. Bot. Reg. Mus. Florent. [unpaged] 1877; repr. in Nuovo

Giorn. Bot. Ital. 10: 163. 1878), a likely synonym of *C. flexuosa* With. We therefore propose a substitute name, *C. silana,* for Candolle's variety. The epithet *silana* reflects the fact that the species is endemic to the Sila Grande Mts.

Arabidopsis (by K. Marhold & M. Kolník)

Arabidopsis petraea (L.) Kolník & Marhold, **comb. nova** ≡ *Cardamine petraea* L., Sp. Pl.: 654. 1753.

Arabidopsis petrogena (A. Kern.) Kolník & Marhold, **comb. nova** ≡ *Arabis petrogena* A. Kern. in Österr. Bot. Z. 13: 141. 1863.

O'Kane & Al-Shehbaz (in Novon 7: 323-327. 1997), based on rDNA sequence data (O'Kane & al. in Syst. Bot. 21: 559-566. 1997) as well as morphological evidence, merged *Cardaminopsis* (C. A. Mey.) Hayek with *Arabidopsis* (DC.) Heynh. They made most of the necessary transfers, but two taxa remain that were formerly treated within *Cardaminopsis* (as *C. petraea* (L.) Hiitonen and *C. petrogena* (A. Kern.) Mìsíèek) and according to available evidence deserve the rank of species, for which names in *Arabidopsis* were still lacking.

Sedum (by K. Marhold)

Sedum mucizonia subsp. ***abylaeum*** (Font Quer & Maire) Marhold, **comb. nova** ≡ *Cotyledon mucizonia* subsp. *abylaea* Font Quer & Maire in Bull. Soc. Hist. Nat. Afrique N. 22: 293. 1931.

All taxa formerly treated in the genus *Mucizonia* should be transferred to *Sedum* (see Eggli & al. in Hart & Eggli, Evol. Syst. Crassulaceae: 173-192. 1995; Castroviejo & Velayos in Castroviejo & al., Fl. Iber. 5: 134-135. 1997). However, *Mucizonia hispida* subsp. *abylaea* (Font Quer & Maire) Greuter had not so far been transferred.

Address of the authors:
Dr Karol Marhold, Marián Perný & Martin Kolník, Institute of Botany, Slovak Academy of Sciences, Dúbravská cesta 14, SK-845 23 Bratislava, Slovak Republic; e-mail: karol.marhold@savba.sk, botukmar@savba.sk