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Typification of two names belonging to the Cistaceae family: Fumana arabica and Helianthemum oelandicum subsp. italicum

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Abstract

The typification of two Linnaean names: Cistus arabicus (\equiv Fumana arabica) and C. italicus (\equiv Helianthemum oelandicum subsp. italicum) is discussed. The designation of the nomenclatural types is based on an assessment of Linnaeus's original material. The name C. arabicus is lectotypified using a specimen from Hasselquist's material at LINN, and C. italicus using Linnaeus's single original specimen preserved in the same herbarium.

Keywords: Cistus arabicus, Cistus italicus, lectotype, Linnaeus, nomenclature

Introduction

The family Cistaceae comprises 8 genera: Cistus Linnaeus (1753: 523), Crocanthemum Spach (1836: 370), Fumana Spach (1836: 359), Halimium (Dunal 1824: 267) Spach (1836: 365), Helianthemum Miller (1754: without page), Hudsonia Linnaeus (1767a: 323, 327; 1767b: 11, 74), Lechea Linnaeus (1753: 90), Tuberaria (Dunal 1824: 270) Spach (1836: 364), and about 180 species distributed in the temperate and subtropical regions of the northern hemisphere. The genus Fumana is one of the most diverse and least studied genera of the Cistaceae family with 21 recognized species with high morphological diversity (Arrington & Kubitzki 2003). Linnaeus described the species Cistus arabicus Linnaeus (1755: 14) currently ascribed to the genus Fumana; F. arabica (L.) Spach (1836: 359). This species is a herbaceous perennial plant, with prostrate or ascending stems which grow to 30 cm high, leaves are alternate, oblongelliptic to oblong-lanceolate, hairless or glandular pubescent, with the stipules short, inflorescence lax, 2–6 flowered, with yellow petals, and the capsule 8–12-seeded.

The genus Helianthemum constitutes a well-supported monophyletic group (Guzmán & Vargas 2009), that includes about 110 taxa of small herbs or subshrubs (at species and subspecies level) distributed in Macaronesia, N Africa, Europe, W and C Asia, with the higher diversity concentrated in the western Mediterranean (Greuter et al. 1984; López González 1993; Arrington & Kubitzki 2003; Parejo-Farnés et al. 2013). The genus Helianthemum is taxonomically very complex, and some names have already been typified in many cases (López González 1992). Some taxa were first described by Linnaeus in Cistus but currently included in Helianthemum (see Burtt & Lewis 1949; Jafri 1977; López González 1992). One of this species is Cistus italicus Linnaeus (1759: 1078) [≡ Helianthum oelandicum subsp. italicum (L.) Ces. in Cattaneo (1844: 288)].

Helianthum oelandicum comprises a variety of morphs that show complex variation in both indumentums and flowering phenology (Widén 1980, 1986). Proctor & Heywood (1968) divides the species into five subspecies. The subspecies *italicum* is restricted to lowland and mountain habitats in southern Europe (Italy, Spain and France).

Continuing our nomenclatural study of Linnaeus's names in Cistus (Ferrer-Gallego & Laguna 2012; Ferrer-Gallego et al. 2013a, b), this paper proposes the designation of lectotypes for the names Cistus arabicus (= Fumana arabica) and Cistus italicus (≡ Helianthum oelandicum subsp. italicum). The designation of the lectotypes is based on the protologues and consultation of Linnaeus's original material preserved at LINN (Herbarium of the Linnaen Society of London).