

**CARDAMINE GEORGIANA (BRASSICACEAE), A NEW
NAME REPLACING *DENTARIA MICROPHYLLA***

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ABSTRACT. *Cardamine georgiana* is proposed to replace the illegitimate name *C. microphylla* (Willd.) O. E. Schulz (1903; *non* Adams 1817). A discussion on the generic limit of *Cardamine* including *Dentaria* is presented.

Key Words: *Cardamine*, *Dentaria*, Georgia

Both *Cardamine* and *Dentaria* were simultaneously published by Linnaeus (1753). When uniting the two genera, Crantz (1769) adopted *Cardamine* for the combined genus and, therefore, this name has priority (Greuter et al. 1994; Article 11.5 ex. 14). Although in most treatments (Akeroyd and Marhold 1993; Al-Shehbaz 1988; Cullen 1965; Rollins 1993; Schulz 1903, 1936) *Dentaria* is reduced to a synonym of *Cardamine*, some North American authors (Detling 1936; Harriman 1965; Turrill et al. 1994) and eastern European authors (Busch 1909, 1939; Czerepanov 1995; Grossheim 1950; Khintibidze 1979) maintain it as a distinct genus.

The alleged morphological differences between *Dentaria* (larger flowers, fleshier and larger rhizomes, often petiolate cotyledons, and stems narrowest at base) and *Cardamine* (usually smaller flowers, often nonfleshy and smaller rhizomes, usually sessile cotyledons, and stems usually broadest at base) clearly do not hold if the two genera are examined on a worldwide basis (Al-Shehbaz 1988). As indicated by Franzke et al. (1998) and Sweeney and Price (pers. comm.), molecular data clearly show that *Dentaria* is polyphyletic and is nested within *Cardamine*.

During the process of compiling a worldwide checklist of chromosome numbers of the Brassicaceae (Cruciferae), it became evident that the transfer by Schulz (1903) of *Dentaria microphylla* Willd. to *Cardamine* created a later homonym of *C. microphylla*

Adams and two other homonyms (see below). Therefore, *C. georgiana* is proposed as a *nom. nov.* to replace the illegitimate name.

Dentaria microphylla which is narrowly endemic to Georgia and adjacent easternmost Turkey, was recognized in *Dentaria* by Busch (1909, 1939), Czerepanov (1995), Grossheim (1950), and Khintibidze (1979) under this correct name. It was treated in *Cardamine* by Cullen (1965), Kolakovsky (1982), and Schulz (1903) under the illegitimate later homonym *C. microphylla* (Willd.) O. E. Schulz. By contrast, the earlier homonym *C. microphylla* Adams is a species distributed in northwestern Alaska, the Russian Far East, and eastern Siberia (Berkutenko 1988; Czerepanov 1995; Khatri 1990; Rollins 1993).

Cardamine georgiana Al-Shehbaz & Warwick, *nom. nov.* Replaced name: *Dentaria microphylla* Willdenow, Sp. Pl. 3: 479. 1800. Syn. *Cardamine microphylla* (Willd.) O. E. Schulz, Bot. Jahrb. Syst. 32: 342. 1903, not *C. microphylla* Adams, Mém. Soc. Imp. Naturalistes Moscou 5: 111. 1817, not *C. microphylla* J. Presl, Delic. Prag. 1: 15, 1822. TYPE: [GEORGIA]. Collector and locality unknown (HOLOTYPE: B not seen).

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