



Lectotypification of some names in the *Jovibarba heuffelii* group (Crassulaceae)

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Abstract

A taxonomic revision of the highly variable *Jovibarba heuffelii* group needs a proper typification of the names of the taxa described. The following names are lectotypified and shortly discussed: *Diopogon stramineus*, *Sempervivum ciliatum*, *S. heuffelii*, *S. heuffelii* var. *glabrum*, *S. kopaonikense*, *S. patens* and *S. velenovskyi*. Pictures of the type specimens are also provided. Other names recorded in the synonymy of *J. heuffelii* [*Sempervivum brassaii* Schur (1866: 229), *S. heuffelii* var. *albanicum* Kitanov (1948: 200), *S. heuffelii* var. *bulgaricum* Cheshmedjiev (1969: 474), *S. heuffelii* var. *vestitum* Domin (1933: 17), *S. reginae-amaliae* Heldreich & Sarnthein ex Baker (1877: 230), *S. transylvanicum* Baker (1874: 104)] are also commented.

Key words: *Diopogon*, nomenclature, *Sempervivum*, taxonomy

Introduction

Recent authors follow a broad species concept of the genus *Jovibarba* Opiz (1852: 54) with just two species: *Jovibarba heuffelii* (Schott 1852: 18) Á. Löve & D. Löve (1961: 39) and *J. globifera* (Linnaeus 1753: 464) J. Parnell (1990: 219) (Parnell & Farvager 1993, Lippert 1995, J alas *et al.* 1999, Hart *et al.* 2003, Marhold 2011). While the *J. globifera* group has been the subject of numerous studies (Parnell 1988, Letz & Marhold 1996, Letz 1997, 1998, Gallo 2008), there are very few on the *J. heuffelii* group, dealing only with its distribution and variability (Bârca & Niculae 2005, Dimitrijević *et al.* 2011).

Parnell & Farvager (1993), J alas *et al.* (1999), and Hart *et al.* (2003) did not recognize any infraspecific variability within the *Jovibarba heuffelii* group, however Berger (1930) raised *Sempervivum heuffelii* var. *glabrum* Beck & Szyszylowicz (1888: 85) to the rank of species and in a more recent check list (Marhold 2011), these two taxa are distinguished at subspecific rank: *J. heuffelii* subsp. *heuffelii* and *J. heuffelii* subsp. *glabra* (Beck & Szyszyl.) Holub (in Holub & Pouzar 1967: 422). Moreover, Válev (1970: 643) recognizes two varieties: *J. heuffelii* var. *heuffelii* and *J. heuffelii* var. *patens* (Grisebach & Schenk 1852: 315) Válev. The main character used to distinguish subsp. *heuffelii* and subsp. *glabra* has been the absence or presence of hairs on the adaxial and abaxial sides of the rosette leaves (cf. Gajić 1972). Today, other taxa described within the *J. heuffelii* group are not accepted because they are not clearly circumscribed (cf. Parnell & Farvager 1993, J alas *et al.* 1999, Hart *et al.* 2003, Marhold 2011). Within the ongoing taxonomic revision of the *Jovibarba heuffelii* group, the typification of the published names is the first fundamental step.

Materials and methods

We searched for original material related to the names of the *Jovibarba heuffelii* group: *Diopogon stramineus* Jordan & Fourreau, *Sempervivum brassaii* Schur, *S. ciliatum* Schur, *S. heuffelii* Schott, *S. heuffelii* var. *albanicum* Kitanov, *S. heuffelii* var. *bulgaricum* Cheshmedjiev, *S. heuffelii* var. *glabrum* Beck & Szyszylowicz, *S. heuffelii* var. *vestitum*

to him this species is “*by the side of S. heuffelii*” and “*a native of the mountains of Greece*”. The author abbreviation “Sart.” given by Baker is sometime incorrectly interpreted as Sarnthein (e.g., Praeger 1932). Wale (1940) pointed out that Sartori had collaborated with Heldreich. Baker’s herbarium is deposited in K and WELT (Stafleu & Cowan 1976). We were not able to locate any material which could serve as nomenclatural type in these herbaria.

Sempervivum transylvanicum Baker (1874: 104), *nom. nud.*

S. transylvanicum is sometimes also cited in the synonymy of *J. heuffelii* (e.g., Jalas *et al.* 1999). It appeared in the classified list of the species of the genus *Sempervivum* (Baker 1874), but without a description. An affiliation of *S. transylvanicum* to the *J. heuffelii* group is indicated by Baker (1874: 104), quoting the name *S. ciliatum* Schur as its synonym. The name with the same epithet in varietal rank – *S. hirtum* var. *transsylvanicum* Andrae (1853: 472) refers to a taxon from the *J. globifera* group.

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