



New synonyms and combinations in Eurasian Brassicaceae (Cruciferae)

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Abstract

Taxonomy of miscellaneous taxa of Eurasian Brassicaceae is updated. Eight names at the species rank are reduced for the first time to synonymy of what follows them in parentheses: *Cardamine szeewaldiana* (*C. macrophylla*), *Hesperis hyrcanica* (*Clastopus vestitus*), *Arabis oxyota* (*Crucihimalaya bursifolia*), *Hesperis speciosa* and *Parrya integerrima* (*Dendroarabis fruticulosa*), *Cheiranthus taraxacifolius* (*Erysimum cuspidatum*), *Draba ishkomania* (*Scapiarabis saxicola*), *Velarum tzvelevii* (*Sisymbrium officinale*). Three new combinations (*Hormathophylla kuepferiana*, *Isatis odontogera*, and *Parrya khorasanica*) are proposed, first of them as a replacing name for a later homonym in the genus *Hormathophylla*. Three names (*Arabis oxyota*, *Clastopus vestitus*, and *Crucihimalaya bursifolia*) are lectotypified (for *C. vestitus*, a previous choice is narrowed) and a neotype is designated for *Isatis odontogera*. Nomenclatural comments are provided where needed.

Introduction

The work on taxonomy and nomenclature of different groups of predominantly North Eurasian Brassicaceae (Cruciferae) regularly reveals various nomenclatural items requiring clarification. Among the most common problems are the old and sometimes newly appearing species names with uncertain taxonomical identity (“unresolved”). Identification and proper taxonomic attribution of such names is necessary in order to clarify the taxonomy of relevant groups. The present communication deals with eight such names in the Brassicaceae which are recognized as new synonyms of the seven species from different genera of Eurasian mustards. Apart, three species nomenclature of which needs to be updated, are also included.

Materials and methods

The collections of Brassicaceae deposited at the herbaria B, BP, GOET, HAL, LE, MW, P, and W were examined. Materials of G, K, and partly P available online (CGH 2014, The Herbarium Catalogue 2006, Muséum national...) were also consulted along with the digital photos obtained from BUCA and ERE. Relevant literature including all sources containing protologues was studied and used for making taxonomic interpretations. Floras and some global databases (The Plant List 2013, Tropicos.org) were also consulted. References to the International Code of Nomenclature for algae, fungi and plants are provided where needed according to its Melbourne edition (McNeill et al. 2012).

Results

The following eight new synonymy were established and three new combinations were proposed.

Parrya khorasanica (Rech.f. & Aellen) D.A. German & Al-Shehbaz, *comb. nov.* \equiv *Hesperis khorasanica* Rech.f. & Aellen in Rechinger (1951: 65). Holotype:—IRAN. Prov. Khorasan: [in declivibus saxosis] Montes Hazar Masdjid. 2000–2500 m. 8–9. VI. 1948. *K.H. Rechinger 5062, [E. Esfandiari] & P. Aellen* (W!); isotype in IRAN (IRAN No. 5093) (Termeh, 1996).

While transferring all species of *Pseudoclausia* Popov (1955: 18) to the expanded *Parrya* (Al-Shehbaz & German 2013), *Pseudoclausia turkestanica* (Lipsky 1904: 41) Vassiljeva (1961: 244) was given a name *Parrya lipskyi* D.A. German & Al-Shehbaz in Al-Shehbaz & German (2013: 463) to avoid creation of a later homonym of *Parrya turkestanica* (Korshinsky 1898: 407) Busch (1939: 644). Unfortunately, a taxonomic synonym *Hesperis khorasanica* was overlooked which has priority in *Parrya* over *Parrya lipskyi*.

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