

**Lectotypification of infraspecific taxa in
Cortusa matthioli (Primulaceae)
described by Josef Podpěra**

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SUTORÝ K. 2010: Lectotypification of infraspecific taxa in *Cortusa matthioli* (Primulaceae) described by Josef Podpěra. *Acta Musei Moraviae, Scientiae biologicae* (Brno) 95(2): 71–75. – Eight infraspecific taxa (forma or subforma) of *Cortusa matthioli* described by Josef Podpěra are lectotypified. A new combination for *Primula brotheri* is proposed.

Key words. Josef Podpěra, *Primula brotheri*, *Primula matthioli*, new combination, BRNM, PR, WU

Introduction

In 1920 Josef Podpěra received specimens of *Cortusa matthioli* collected on 29 June 1919 by Josef Veselý in Macocha Chasm in the Moravian Karst (Moravia, Czech Republic). This was a new site, and further the only one of its kind known in Moravia and Bohemia, considered an important phytogeographical stepping stone between the calcareous mountains of the Austrian Alps and the Slovak Carpathians. Podpěra was aware of the importance of this surprising find and described it in a short article published in both the Moravian daily newspaper *Lidové noviny* on 20 October 1920 (PODPĚRA 1920a) and in a journal of natural history (PODPĚRA 1920b). A further short remark followed two years later (PODPĚRA 1922a). After some time, it became evident that *C. matthioli* had actually been first found in Moravia by Vilém Filkuka about one year previously (PODPĚRA 1922a, c, WILDT 1923). According the study by HENDRYCH (2003), the population in Macocha Chasm represents a remnant of a more continuous distribution assumed to exist about 8000 years ago.

Podpěra's interest in this species resulted in two studies. In the first of them (PODPĚRA 1921), he recognised nine infraspecific taxa at the rank of forma. Together with the forma "*normalis*" he described six new formae, published one new combination, *C. m. f. sibirica* (Andrz.) Podp., and accepted one already-known combination, *C. m. f. pubens* (Schott et al.) Kunth. In the second study (PODPĚRA 1922b), he added a further two forms, *C. m. f. pekinensis* Richter and *C. m. f. broteri* (Pax ex Lipski) Podp., and described five new subformae. In his third contribution on this topic, a nomenclatural note (PODPĚRA 1922c), he synonymised some of his names with those previously published by GANDOGER (1880). These synonyms are given below in the list.

Material

Podpěra based his studies on *Cortusa* specimens held in three major herbaria, BRNM, PR, and WU. He added identification labels to the specimens studied, sometimes with further notes, written in blue or violet ink. However, he failed to indicate type specimens. An inspection of specimens at WU has shown that Podpěra also used other names that remained unpublished. These are: *Cortusa matthioli* f. *sibirica* subf. *subglabrescens*, f. *sibirica* subf. *glabrata*, f. *sibirica* subf. *villosa*, f. *normalis* (*matthioli*) subf. *villosa*, f. *normalis* (*matthioli*) subf. *subglabra*, f. *cenisia glabrata*, f. *engadinensis* subf. *glabrata*, and f. *pekinensis* subf. *villosa*.

The abbreviations “v.h.” or “m.v.h.”, often used on his labels, are short for “*villosa hirsutis*” or “*molliter villosa hirsutis*”.

Results

The taxonomic status of the forms given below is uncertain. No study has been dedicated to this species to date. Based on recent studies, the genus *Cortusa* is included in the genus *Primula*. (MAST *et al.* 2001, KOVTONYUK & GONCHAROV 2009, YAN *et al.* 2010, etc.). *C. matthioli* f. *brotheri* is more often addressed at species level as *C. brotheri* Pax ex Lipsky (CHOWDHERY & WADHWA 1984, CZEREPANOV 1995, FEDOROV 1952, NASIR *et al.* 1984, SHULKINA 2004, SINGH & KACHROO 1976, WENDELBO 1965, etc.). Because its inclusion in the genus *Primula* has not yet been suggested, I do so on this occasion.

Primula brotheri (Pax ex Lipsky) Sutorý comb.nov. hoc loco

Basionym: *Cortusa brotheri* Pax ex Lipsky Acta Hort. Petrop. 18: 87. 1900 [*sic recte*] (not as commonly given) 18: 37, 1901, the date of issue of this part is given on the last page of the volume. See also Losinskaja A. S. in Acta Inst. Bot. Acad. Sc. URSS Ser. 1., 3, 236, 1937, descr. emend.

List of taxa described

[Synonyms are given after PODPĚRA (1922c).]

Cortusa matthioli f. *engadinensis* Podp. Sborn. Klubu Přírod. Brno 3 (1920): 67, 1921.

= *C. glabrescens* Gand. Bot. Centralbl. Beil. 1: 12, 1880 (cf. PODPĚRA 1922c: 64).

= *C. robusta* Gand. Bot. Centralbl. Beil. 1: 13, 1880 (cf. PODPĚRA 1922c: 64).

Type indication. Helvetia, Engadin: Bachufer in den Wäldern um die Hochwiesen Plan d’Ors am Piz Mondin ober Martinsbrack zahlreich. 28. 7. 1886, Kalkschiefer, 1600 [m] (Freyn), BRNM 11630/37, **lectotypus** hoc loco designatus. – Italia borealis: Cogne, 7. 80 (F. O. Wolf), PR without number, with Podpěra’s label “f. *helvetica* Podp.”

C. matthioli f. *alpina* Podp. Sborn. Klubu Přírod. Brno 3 (1920): 67, 1921.

Type indication. Austria inferior: am Obersberge in der Schwarzau in [sic!] Gebirge, Juni 1872 (E. Brandmayer) BRNM 11626/37, **holotypus**.

C. matthioli f. *cenisia* Podp. Sborn. Klubu Přírod. Brno 3 (1920): 67, 1921.

= *C. brevistyla* Gand. in Bot. Centralbl. Beil. 1: 12, 1880 (cf. PODPĚRA 1922c: 64).

Type indication. Tirolia: an feuchten Stellen des hohen Schiefergebirges bei Kitzbühl (Spitzel), PR without number. – Gallia: Mont Cenis à Savalain, alt. 2000 m, Août, 1886 (Arvet-Touvet), BRNM 11628/37, **lectotypus** hoc loco designatus. – Mont Cenis, Juillet, 1871 (Dr. Meribaude misit Lamotte ex herb. G. Rouy), BRNM 11629/37.

C. matthioli f. *tatrensis* Podp. Sborn. Klubu Přírod. Brno 3 (1920): 67, 1921.

Type indication. Tatra: am Fusse des Baraneč, 7. [18]94, 1600 m (J. Ullepitsch, in Baenitz, Herbarium europaeum. Pro *Cortusa sibirica* Andrz.), BRNM 11636/37. – Liptau-Sohler Alpen: Sümpfe am Kozí vrch, Kalk, 1100 m, 29.5.1870, J. Freyn, BRNM 11637/37, **lectotypus** hoc loco designatus.

C. matthioli f. *moravica* Podp. Sborn. Klubu Přírod. Brno 3 (1920): 68, 1921.

= *Cortusa matthioli* subsp. *moravica* (Podpěra) Soják in Čas. Nár. Muz., ser. natur., 148: 77, 1980. (The combination was accompanied by no taxonomic comment to support subspecific rank, and such a high rank is not generally accepted.)

Type indication. Moravia: Blansko prope Brunnam, in voragine Macocha ad rupes calcareas praeruptas, 29. 6. 1919 (Fr. Veselý), BRNM 17202/26, **holotypus**.

C. matthioli f. *freyonii* Podp. Sborn. Klubu Přírod. Brno 3 (1920): 68, 1921.

Type indication. Romania: Schattige Bachufer beim Kloster Skit la Jalomnitza auf der Südseite der Alpe Bucsécs. Kalkkonglomerat, 1500 m, 3. 8. 1873 (J. Freyn s.n. *C. pubens* Sch. N. et Ky cum nota: Originalstandort), BRNM 11644/37, **holotypus**.

C. matthioli (f. *matthioli*) subf. *longecalycina* Podp. Beih. Bot. Centralbl., sect. 2, 39: 283, 1923.

= *C. welwitschiana* Gand. Botan. Centralbl. Beil. 1: 12, 1880. (cf. PODPĚRA 1922c: 64).

Type indication. Austria superior ad confines Styriae superioris: in einem Wäldchen am „todten Hengsten“ zwischen Unterlauhsa und Windischgarsten, 5. 1882, (Hans Steininger), WU, **lectotypus** hoc loco designatus. Accompanied by a short description on the label, which is missing for other specimens mentioned in the protologue. – Styria superior: Aufstieg von Johnsbach zur Hesshütte, Kalk, 1500–1650 m, 3. 7. 1904 Handel-Mazzetti. There are two specimens in WU, both identified by Podpěra as “*longecalycina* subf. *glabra*”. One of the labels bears further details on locality: „um die Stadalm und Hesshütte“. – Bei Admont im Gesauss (?). (WU-Kerner). Specimen from the Botanischer Tauschverein in Vienna; only the initials of the collector given.

C. matthioli (f. *matthioli*) subf. *latidens* Podp. Beih. Bot. Centralbl., sect. 2, 39: 283, 1923.

Type indication. In alpinis Transsilvaniae: statio ad legendum difficilis (Michal), WU-Kerner. – Transsylvanische Alpen: Königstein, Crepatura bei Zernest, Kalk, 25. 7. 1909 (Vierhapper), WU, **lectotypus** hoc loco designatus. Planta dextra.

C. matthioli (f. *brotheri*) subf. *glabrescens* Podp. Beih. Bot. Centralbl., sect. 2, 39: 287, 1923.

Type indication. India septentrionalis occidentalis, Lahal: apud rivulos umbrosos in septentrionali montis declivitate Kardang, Tugjiling (Jaeschke) WU. There are three plants on the sheet; Podpěra's indication is "planta dextra" (**lectotypus** hoc loco designatus). "Planta sinistra" corresponds to his subf. *subcanescens* (see below). – Aberrat.: *calycibus parvulis, 3 mm longis (corollis autem magnis). Flora of NW India: Kumam No 5761a, 7.1886 (J.F. Duthie WU). – Aberrat.: ** glaberrima. Kaschmir, Gilgit, Nitar Valley, 10–11 000', 4.8.1892, (J.F. Duthie WU).

C. matthioli (f. *brotheri*) subf. *subcanescens* Podp. Beih. Bot. Centralbl., sect. 2, 39: 287, 1923.

Type indication. Lahal: apud rivulos umbrosos in septentrionali montis declivitate Kardany, Tugjiling (Jaeschke), WU. On the sheet together with subf. *glabrescens*, with Podpěra's indication "planta sinistra". – Lowári Pass, 21. 6. 1895, Harris 16353, WU, **lectotypus** hoc loco designatus, planta dextra.

C. matthioli (f. *brotheri*) subf. *villosula* Podp. Beih. Bot. Centralbl., sect. 2, 39: 287, 1923.

Type indication. Kashmir: Near Gulmarg, 9–10 000', 3. 6. 1892, No 11366 (J. F. Duthie) WU, **lectotypus** hoc loco designatus. – Apharwat (Gulmarg), 17 500' [recte 12 500' according to the scheda], 19. 7. 1891, (G. A. Gammie) WU.

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