



Original Scientific Report

## Validation and typification of *Verbascum* hybrids (Scrophulariaceae) published by Svante Murbeck and deposited at the Belgrade University Herbarium (BEOU)

Karel SUTORÝ

Moravian Museum, Hviezdoslavova 29a, 629 00 Brno, Czech Republic  
Correspondence: [ksutory@mzm.cz](mailto:ksutory@mzm.cz)

### ABSTRACT:

New nothospecific names were created for six *Verbascum* hybrids which were previously described by Murbeck without binomials: *Verbascum*  $\times$  *ipeccensis* (*V. baldaccii*  $\times$  *V. phlomoides*), *Verbascum*  $\times$  *krusevacense* (*V. abietinum*  $\times$  *V. phlomoides*), *Verbascum*  $\times$  *lundense* (*V. herzogii*  $\times$  *V. leucophyllum*), *Verbascum*  $\times$  *petrovicii* (*V. heuffelii*  $\times$  *V. speciosum*), *Verbascum*  $\times$  *soskae* (*V. baldaccii*  $\times$  *V. pulverulentum*), *Verbascum*  $\times$  *soskicii* (*V. longifolium* var. *pannosum*  $\times$  *V. nicolai*).

### Keywords:

BEOU, Murbeck, nothospecies novae, *Verbascum*

UDC: 582.916.21:575.222.7:727:58:069.029

Received: 06 August 2021

Revision accepted: 01 March 2022

## INTRODUCTION

In his study of the material deposited in the herbarium of Belgrade University (BEOU) (MURBECK 1930), Svante Murbeck (1859–1946), monographer of the genus *Verbascum*, in addition to one new species (*V. macedonicum* Košanin & Murb.), also described six new hybrids with hybrid formulas. He did not use hybrid binomials in his monography either (MURBECK 1933), describing the new hybrids only by a combination of parental names and the designation “*nova hybr.*”. Since all of the diagnosis in MURBECK (1930) are given in Latin, citation of this effective publication is sufficient to provide the mentioned hybrids with binomials (TURLAND *et al.* 2018, Art. 38.1, Art. 39.2) and to select the types deposited in the BEOU. Hybridization is common in this genus and Murbeck described more than 90 new hybrids in this way in his monography (MURBECK 1933).

## MATERIAL AND METHODS

The work is based on an examination of the specimens preserved at the herbarium of the Institute of Botany and the Botanical Garden of the University of Belgrade, BEOU (acronym follows THIERS 2021).

## RESULTS AND DISCUSSION

*Verbascum*  $\times$  *ipeccensis* Murb. ex Sutorý, nothosp. nov. (*Verbascum baldaccii* Degen  $\times$  *V. phlomoides* L.)

**Description:** provided by MURBECK (1930: 219).

**Type indication:** [SW. Serbia, Metohija] “In declivibus Rugovska klisura prope opp. Peć, leg. Soška Jun. 1923”.

**Holotype:** “Rugovska klisura, Leg. [T.] Soška VI. [19]23, [det.] Sv. Murbeck 1930”, BEOU 80202! (Fig. 1)

**Eponymy:** Named after Peć (Turkish: İpek), a town in Metohija, situated near the Rugova Gorge.

MURBECK (1933: 169) writes about this hybrid in his monography: “Ein in Serbien gesammeltes Exemplar[„Rugovska klisura prope opp. Peć [Metohija], leg. Soška 1923“ (Hb. Belgr.)] ist von mir in Bull. Inst. & jard. Bot. de Belgr. [Tom. I: 3, p. 219 (1930)] beschrieben worden. – Zwei damit übereinstimmende Individuen sind im botan. Garten zu Lund aus Samen von *V. baldaccii* entstanden, welche vom botan. Garten in Kopenhagen verteilt waren”.

*Verbascum phlomoides* is a common species in Serbia and the Balkans. The expected distribution of this hybrid is therefore limited by the occurrence of *V. baldaccii* (from Montenegro and Albania to NW Greece (NIKOLIĆ 1974; DIMOPOULOS *et al.* 2013).



Fig. 1. Type specimen of *Verbascum xipepcensis* Murb. ex Sutorý



Fig. 2. Type specimen of *Verbascum xkrusevacense* Murb. ex Sutorý

***Verbascum xkrusevacense*** Murb. ex Sutorý, nothosp. nov. (*Verbascum abietinum* Borbás × *V. phlomoides* L.)

**Description:** provided by MURBECK (1930: 225).

**Type indication:** [C. Serbia] “Ad Župa prope opp. Kruševac, leg. Pančić 1866”.

**Holotype:** “Župa bei Kruševac [1]866”, [leg. J. Pančić], [det.] Sv. Murbeck 1930, BEOU 7440! (Fig. 2). The plant was on one sheet together with another from the parent species *V. phlomoides*.

**Eponymy:** Named after Kruševac, a town in central Serbia, situated near the type locality.

Nowadays some authors (FERGUSON 1972; MARHOLD 2011) have recognized *V. abietinum* on the subspecific level as *V. nigrum* subsp. *abietinum* (Borbás) I.K. Ferguson. This species is distributed in mountainous regions from Ukraine to the Peloponnese. The other parent species *V. phlomoides* is widely distributed throughout Europe with the exception of the north (FERGUSON 1972). Despite the large overlapping distribution area of the two parent species, the hybrid will not be very common due to its different ecological demands.

***Verbascum xlundense*** Murb. ex Sutorý, nothosp. nov. (*Verbascum herzogii* Bornm. × *V. leucophyllum* Griseb.)

**Description:** provided by MURBECK (1930: 222).

**Type indication:** [Sweden, Lund, Botanical Garden] “E seminibus speciminis *Verbasci herzogii* a Vandas a. 1923 ad Drenovo, Maced. jugoslav., lecti unacum individuis numerosis speciei maternae individuum unicum hybridum in Horto bot. Lund. ortum”.

**Holotype:** “E seminibus *Verbasci herzogii* a Vandas a. 1923 ad Drenovo, Maced. jugoslav., lecti hoc individuum hybridum unacum individuis numerosis speciei materna in Horto botan. Lund. ortum., Germinatum 3/8 1928, Messum 30/6 1930, [leg.] Sv. Murbeck”, BEOU 80203! (Fig. 3). The type material is composed of four specimens designated a, b, c and d, which are deposited in one shared folder. Although the isotypes in the LD differ in the “messum” part where different data are presented, it is nevertheless clear that all the material was used for the description (Arne Thell, *pers. comm.*).

**Eponymy:** Named after the place of its origin.

Both parental species occur in “Macedonia Jugoslavica”, present-day North Macedonia. The distribution of the second parental species, *V. leucophyllum*, also extends to Greece (DIMOPOULOS *et al.* 2013). This in culture originated hybrid can also be expected on the territory of North Macedonia.





Fig. 3. Type specimen of *Verbascum xlundense* Murb. ex Sutorý

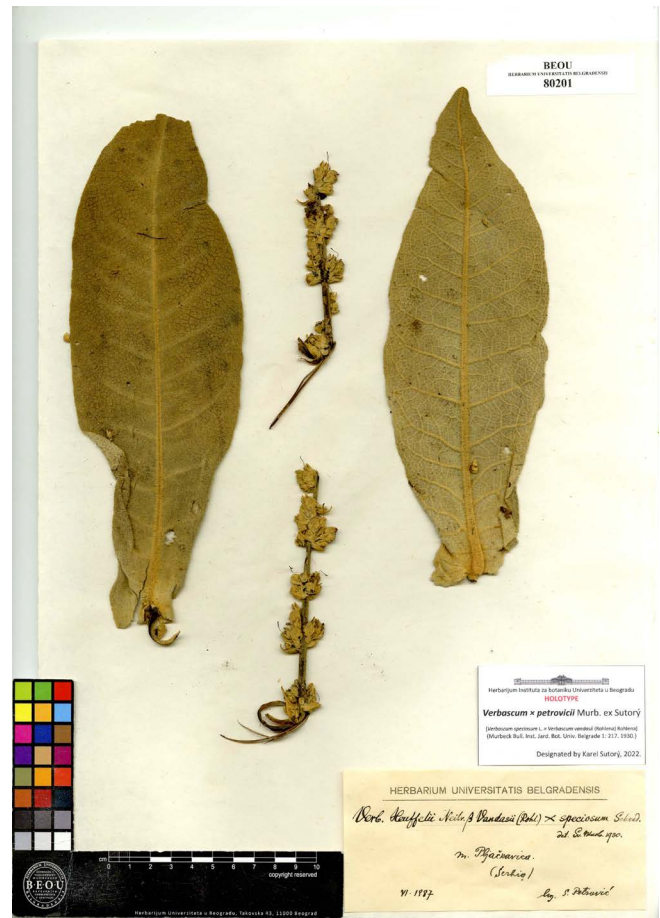


Fig. 4. Type specimen of *Verbascum xpetrovicii* Murb. ex Sutorý

*Verbascum xpetrovicii* Murb. ex Sutorý, nothosp. nov. (*Verbascum speciosum* L.  $\times$  *V. vandasii* (Rohlena) Rohlena)

**Description:** provided by MURBECK (1930: 217).

**Type indication:** [S. Serbia] “In monte Pljačkovica. leg. Petrović, Jun. 1887”.

**Holotype:** “m. Pljačkovica (Serbia). Leg. S. Petrović, VI. 1887, det. S. Murb.[eck] 1930”, BEOU 80201! (Fig. 4)

MURBECK (1933: 95) does not mention the original publication issued three years previously, only his “nova hybr.” is added. This confusion leads to incorrect citations (e.g. NIKOLIĆ 1974: 112 states erroneously “Murb. 1933”). The first parental species *V. speciosum* has a larger distribution area in south-eastern and central Europe (FERGUSON 1972). The second parental species *V. vandasii* was originally mentioned as “*V. heuffelii*  $\beta$  *vandasii* (Rohl.) Murb.” (MURBECK 1930). However, the first valid usage of *V. heuffelii* was in 1933 (MURBECK 1933), making it synonymous with *V. vandasii* (ROHLENA 1924; FERGUSON 1972; MARHOLD 2011). The distribution of this species limits the occurrence of the hybrid [Albania, Central and South Serbia and South West Romania (NIKOLIĆ 1974)].

**Eponymy:** The collector Sava Petrović (1839–1889) was a botanist and doctor of medicine. He was the author of the “Flora of the Neighbourhood of Niš” (1882).

*Verbascum xsoskae* Murb. ex Sutorý, nothosp. nov. (*Verbascum baldaccii* Degen  $\times$  *V. pulverulentum* Vill.)

**Description:** provided by MURBECK (1930: 219).

**Type indication:** [SW. Serbia, Metohija] „in declivibus Rugovska Klisura prope opp. Peć, leg. Soška Jun. 1923”.

**Holotype:** “In declivibus Rugovska klisura prope opp. Peć, leg. Soška VI. 1923”, det. S. Murbeck, BEOU 80200! (Fig. 5)

**Eponymy:** Theodor Soška (1876–1948), a gardener at the Belgrade Botanical Garden and a floristic expert, collected rich plant material.

*Verbascum pulverulentum* is widely distributed throughout southern Europe, from Portugal to Bulgaria. The expected distribution of this hybrid is limited by the occurrence of *V. baldaccii* [from Montenegro and Albania to NW Greece (NIKOLIĆ 1974; DIMOPOULOS *et al.* 2013)].

*Verbascum xsoskicii* Murb. ex Sutorý, nothosp. nov. (*Verbascum longifolium* var. *pannosum* (Vis. & Pančić) Murb.  $\times$  *V. nicolai* Rohlena)

**Description:** provided by MURBECK (1930: 218).

**Type indication:** [E. Montenegro, Mt Zeletin] “M. Prokletie, in valle Lim ad pag. Ulotine [Ulotina], 1400 m, leg. Šoškić, 14/7.1924”.



Fig. 5. Type specimen of *Verbascum x soskiae* Murb. ex Sutorý



Fig. 6. Type specimen of *Verbascum x saskicij* Murb. ex Sutorý

**Holotype:** “In monte Prokletije, in valle Lim ad pag. Ulotine, 1400 m solo calc.[areo], 14.VII.[19]24, Leg. M. Šoškić”, det. Sv. Murbeck, BEOU 80199! (Fig. 6)

**Eponymy:** Named after the collector M. Šoškić.

*Verbascum longifolium* var. *pannosum* is also often treated as a synonym of *V. longifolium* Ten. (FERGUSON 1972) or on the form level (NIKOLIĆ 1974: 117). Both parental taxa *V. longifolium* var. *pannosum* and *V. nicolai* are mountainous and share numerous their distribution areas in common (Albania, Serbia and North Macedonia). *Verbascum longifolium* var. *pannosum* also occurs in Bosnia.

**Acknowledgements** – My thanks are due to the kind curators of the BEOU herbarium for the opportunity to study the material at their institution and for the scans of the discussed specimens. I would also like to extend my gratitude to Arne Thell for his information about the isotypes deposited in the LD and to two reviewers, who substantially improved the final text. The article was supported by the long-term conceptual development of research institutions provided by the Czech Ministry of Culture (ref. MK000094862).

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**REZIME**


Botanica  
SERBICA

## Validacija i tipifikacija *Verbascum* hibrida (Scrophulariaceae) publikovanih od strane Svante Murbecka i deponovanih u Herbarijumu Univerziteta u Beogradu

Karel SUTORÝ

Nova notospecijska imena su kreirana za šest *Verbascum* hibrida, predhodno publikovanih od strane Murbeck-a, ali ne u binarnoj formi: *Verbascum*  $\times$  *ipeccensis* (*V. baldaccii*  $\times$  *V. phlomoides*), *Verbascum*  $\times$  *krusevacense* (*V. abietinum*  $\times$  *V. phlomoides*), *Verbascum*  $\times$  *lundense* (*V. herzogii*  $\times$  *V. leucophyllum*), *Verbascum*  $\times$  *petrovicii* (*V. heuffelii*  $\times$  *V. speciosum*), *Verbascum*  $\times$  *soskae* (*V. baldaccii*  $\times$  *V. pulverulentum*), *Verbascum*  $\times$  *soskicii* (*V. longifolium* var. *pannosum*  $\times$  *V. nicolai*).

**Ključne reči:** BEOU, Murbeck, nove notovrste, *Verbascum*

