

TYPES OF *VERBASCUM* TAXA (SCROPHULARIACEAE) PRESERVED IN THE HUNGARIAN NATURAL HISTORY MUSEUM

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Abstract: Types of 31 taxa of the genus *Verbascum* are reported in the collection of the Hungarian Natural History Museum. Five holotypes, one isotype, 15 lectotypes, four isolectotypes and eight syntypes.

Key words: Bulgaria, Croatia, Greece, Hungary, Macedonia, nomenclature, Romania, Russian Federation, Spain, Syria, Turkey, *Verbascum*

INTRODUCTION

Searching for J. Freyn's types of plant taxa showed that in the *Verbascum* material of the Hungarian Natural History Museum (BP) there are many nomenclatural types preserved which was hitherto unknown. Of Hungarian botanists, five were particularly interested in this genus: Vince Borbás (found eight types), Lajos Simonkai (four), Sándor Jávorka (two), Ádám Boros (two) and Árpád Degen (two). The names published before Murbeck's monograph (MURBECK 1933) was issued are accompanied with a reference to this source. Where possible also references to the overview of Hungarian species and hybrids (BOROS 1948) are added.

LIST OF PRESERVED TAXA

Verbascum abietinum Borbás in Verh. Bot. Vereins Prov. Brandenburg 17: 60. 1875. (MURBECK 1933: 428).

Type indication: [Romania] "Krakulupuliberg bei Armenisch [Armeniș, German: Armönisch], am Csóka bei Klopotiva, Pleschberge bei Neu-Szádova [Sádova Nouă] (1873)".

Lectotype (designated here): *Armönisch, in lapidosis, et ad rivulos silvarum sub alpe Szarkó*, 5.8.1877 [05.08.1877], leg.: V. Borbás, BP147452; Herbarium Haynaldianum. Murbeck's revision label 1930.

Verbascum agrimonoides Degen et Borbás in Term. Közl. Pótfüzetek 41: 85. 1897.
(= *V. pindicolum* Freyn et Sint. sec. MURBECK 1933: 176).

Type indication: [Greece, Thessaly] "Habitat ad Phlambures [Flampouresi] et Mitrica Thessaliae ubi Prof. Formánek, die 28 Jul. 1896 detexit". The text in FORMÁNEK (1897: 179) is more precise: "Ad st. ott. [statum ottomanicum] Phlambures et m. Mitrica in mm. Ch. [Chassia] die 28. Jul. 1896 a me inventa". The work of Degen and Borbás was probably published earlier (in May) than the use of this name in Formánek's publication (FORMÁNEK 1897). This can be derived from the chapter on new literature in the Oesterreichische Botanische Zeitschrift in the year 1897. The publication is announced in *Természettudományi Közlemények* in July and the publication in *Verhandlungen* a month later, in September.

Holotype: *Phlambures et Mitrica in Thessal.*, 28.7.96 [28.07.1896], leg.: Formánek, BP342399.

Verbascum × *bastardi* var. *racemosum* Borbás in Békésvármegye fl. 80. 1881
(= *V.* × *bastardi* R. Sch. = *V. blattaria* × *densiflorum* sec. MURBECK 1933: 571,
BOROS 1948: 16).

Type indication: [Hungary] "a Gálfizugban V. [Vésztő]".

Holotype?: *In pratis sat frequens ad pagum Vésztő*, Aug. 1877 [08.1877], BP608838.

Notes: The name of the variety is not given on the label, only the hybrid combination *V. blattaria* × *thapsiforme* (*densiflorum*) is mentioned. Existence of another specimen with the name of this variety cannot be excluded.

Verbascum corynephorum Borbás in Deutsche Bot. Monatsschr. 20: 3. 1902.
(= *V. phoeniceum* × ? sec MURBECK 1933: 587).

Type indication: [Macedonia] "Habitat in Macedonia ad Banjo [Banja], leg. Frivaldsky".

Lectotype (designated here, perhaps holotype): *Verbascum rubiginosum* Kit. ad Banjo. Majo. Frivaldsky, BP608829.

Verbascum danubiale Simonk. in Természetrájsi Fü. 2: 36. 1878
(= *V. chaixii* (*orientale*) × *phlomoides*, see MURBECK 1933: 421, BOROS 1948: 14).

Type indication: [Romania] “Orsovánál [Orșova] az Allion-hegy tövénél”

Lectotype (designated here, perhaps holotype): *Hungariae: sub monte Allion ad opp. Orsova*, 1874 jul. 27 [27.07.1874], leg.: Simkovics, BP146579.

Verbascum decalvans Borbás in Természetrzaji Füz. 9: 278. 1885.

(= *V. nigrum* × *glabratum*, see MURBECK 1933: 449, BOROS 1948: 18).

Type indication: [Romania] “in alveo Taja, Barth Fl. Transsilv. Exsicc. No 17”.

Lectotype (designated here, perhaps holotype): *In subalpinis: Taja Schlucht bei Petrika* [Petroșani?], 7.8.1883. [07.08.1883], leg.: J. Barth, BP146796 [without the exsiccate number].

Verbascum freynianum Borbás in Oesterr. Bot. Z. 26: 88. 1876

(= *V. chaixii* × *thapsus*)

Type indication: [Croatia] “Inveni inter parentes in pascuis montanis inter pagos Veprinac et Vela-Utzka Istriae prope montem Monte Maggiore (31. Juli 1875. Oesterr. bot. Zeitschr. 1875, p. 304) et ad vias publicas inter pagos Brussani et Ostaria in monte Velebit (23. August) Croatiae, et dedicavi scrutatori florae istri-cae, hungaricae et transsilvaniae strenuo ac felicissimo, J. Freyn mihi amicissimo”.

Lectotype: Typified by SUTORÝ (2012: 31), BP636589.

Verbascum geminatum Freyn in Oesterr. Bot. Z. 26: 370. 1876

(= *V. blattaria* × *sinuatum* sec MURBECK 1933: 571).

Type indication: [Croatia] “... ad tuguria militaria sub castro Fort Max dicto non procul ab oppido Pola Istriae australis”.

Isolectotype: *Istrien: Sterile Orte um die Milltärbarcken unter Ft. Max*, 20.8.1876 [20.08.1876], BP636613.

Lectotype: BRNM19951/36. SUTORÝ (2012: 32) listed erroneously as holotype.

Verbascum glabratum Friv. in Flora 19(2): 440. 1836.

(MURBECK 1933: 442).

Type indication: [Bulgaria] “Hab. in Rumelia”.

Lectotype (designated here, perhaps holotype): *Bey Calophr* [Calophier = Kalofer], Julio [1835], leg.: Frivaldsky, BP341587.

Notes: The type bears a note by L. Haynald reading “Exemplar typicum quod clarissimus Frivaldsky herbario meo intulit”.

Verbascum grandicalyx Simonk. in Oesterr. Bot. Z. 39: 138. 1889.

(= *V. austriacum* × *blattaria* sec MURBECK 1933: 569)

Type indication: [Romania] “Im vorigen Jahre [1888] habe ich aber auch ein anderes *Verbascum* bei Temesest [Temesd, Temeşesti] im Comitate Arad gesammelt...”

Holotype: *Hungariae cottus Arad. In glareosis rivuli ad Temesest*, 1888 Aug. 10 [10.08.1888], BP146691.

Verbascum guicciardii Heldr. ex Boiss. in Diagn. Pl. Or. ser. 2, 6: 127. 1859.

(MURBECK 1933: 75).

Type indication: [Greece] “Hab. In dumosis ad radices Parnassi loco Pagera dicto alt. 2000 cl[arissimus] Guicciardi. Heldr. Herb. Norm. No 696”.

Syntype: De Heldreich Herbarium Graecum normale. N. 696. *In locis dumosis nec non in arvis ad radices monti Parnassi, l.c. Pagera, alt. 2000'*. D. 23 Jun. 1857 [23.06.1857], leg. et det.: J. Guicciardi, BP341912 (ex. herb. Haynald), BP498008.

Notes: There are three specimens in Genève (G00025478, G25479, G254780) marked as “type”. Lectotype was not yet properly designated.

Verbascum haynaldianum Borbás in Oesterr. Bot. Z. 25: 213. 1875

(= *V. glabratum* × *phoeniceum* sec MURBECK 1933: 449).

Type indication: [Romania] “Detexi plantam inter parentes sub montis Allion radicibus infra Orsova Banatus d. 30. Maji 1874”.

Lectotype (designated here, perhaps holotype): *Infra montem Allion, Orsovae*, 29.5.1874 [29.05.1874], BP545392.

Notes: Data in protologue and on the herbarium label are not identical. One of them must be mistaken. According to BORBÁS' (1875) statement he published this name already one month earlier in “Mittheilungen des Thier- und Pflanzenacclimatisationsvereins zu Budapest 15.6.1875”. I have not managed to find this source.

Verbascum hervieri Degen in Magy. Bot. Lapok 5: 5. 1906. [Herviéři]

(MURBECK 1933: 521).

Type indication: [Spain] “Habitat in Hispaniae meridionalis provincia Jaën. In pinetis vallis Barrancon de Valentina alt. 1700 m s. m. mense Julio 1904 detexit cel. Elisaeus Reverchon (sed tantum 7 specimina invenit), dein m. Junio 1905 in aridis supra vicum Le Pozo alt. 1500 m s.m. interum legit (Exsicc. 1905 No. 1375)”.

Lectotype (designated here): Elisée Reverchon – *Plantes de Espagne – 1905. Le Pozo, lieux incultés, sur le calcair 1500 m, Rare. Julliet*, BP341291.

Notes: The lectotype was not yet selected (see BENEDÍ 2009: 68) and it is likely that the material in BP was seen by Degen. The species was distributed by E. Reverchon twice, not only in the year of collection (1905) but also in the year 1907 (BP514152). We cannot exclude that it was collected only once, in the first year. The collector is known to have manipulated with his collections, therefore some labels may not be quite correct in some cases (BURNAT 1883).

Verbascum hinkei Friv. in Flora 19(2): 440. 1836

(= *V. lanatum* subsp. *hinkei* (Friv.) Murb. in MURBECK 1933: 440).

Type indication: [Bulgaria] “Hab. in Rumelia”.

Lectotype (designated here, perhaps holotype): *Rumel.*, 1835, BP341948.

Notes: The type bears a note by Haynald reading “Exemplar typicum quod clarissimus Frivaldsky herbario meo intulit”.

Verbascum ikaricum Murb. in Lunds Univ. Arsskrift, n. f. 29. No. 2

(Monogr. *Verbascum*): 232. 1933.

Type indication: [Greece] “Ikaria. In monte Atheras, in schistosis apricis regionis med. & super., leg. Forsyth Major 24.7. 1887, n. 740 & 741 [Hb. Reut.-Barb. (indet.)]. In decliv. lapidos. ad pagum Hag. Kyrikos, leg. Rechinger fil. 24.–25. 1932, n. 2202 [Hb. Rech.]. Samos: in decliv. siccis ad pag. Hag. Konstantios, leg. Rechinger fil. 16.–23.6. 1932, n. 2022 [Hb. Rech.].

Lectotype designated by HUBER-MORATH (1978: 576): in W. In lapidos. inter Karlovassi et Maratokampos, leg. Rechinger fil. 16–23.6.1932, n. 2044 [Hb. Rech.].

Isolectotype: K. H. Rechinger fil.: Iter Graecum II. 1932. *Insula Samos: in declivibus siccis ad pagum Hag. Konstantios*, 16–23.IV.1932 [16–23.04.1932], BP341925.

Verbascum javorkae Soó in Bot. Közlem. 32: 230. 1935, nomen for the hybrid combination *V. abietinum* × *lychnitis* (BOROS 1948: 21).

Type indication: [Romania] “Kazánszoros [Porțile de Fier], leg. Jávorka”.

Holotype: Comit. Krassó-Szörény: *in dumetis fissura Kazánszoros Danubii ad pag. Dunatölgyes*, VI. 1912 [06.1912], BP147474.

Verbascum juranyii Borbás in Term. Közl. 8: 36. 1876

(= *V. chaixii* × *phlomoides* in BOROS 1948:17).

Type indication: [Croatia] “Vratnik hegyen Zengg [Senj]”.

Lectotype (designated here): *Vratnik Croatiae*, 4.8.1875 [04.08.1875], leg.: Borbás, BP146722.

Verbascum kanitzianum Simonk. et Walz in Magy. Növ. Lap. 2: 148, 149. 1878 (= *V. lychnitis* var. *kanitzianum* (Simk. et Walz) Murb. in MURBECK 1933: 345).

Type indication: [Romania] “Walz K. a Gorbó patak völgyében a Sz. János kúttal szemben, füves helyeken csepleszek, hol jul. 13 szedtem. Ugyanezen Verbascumot gyűjté Walz L. barátom Oláh Toplica [Toplița] mellett a f. év jul. 12. S számomra szíves volt belőle egy példányt átengedni”.

Lectotype (designated here): *Transsilvania. Oláh-Toplicza*, 12.7.1878 [12.07.1878], BP146933.

Syntype: *Kolozsvárott [Cluj-Napoca] a Gorbo patak menten a Szt. János kút-tal szemben*, 1878 jul 13 [13.07.1878], BP146952.

Verbascum karpatii Boros in Bot. Közlem. 35: 317. 1938
(= *V. banaticum* × *lychnitis* BOROS 1948: 15).

Type indication: [Romania] “In valle rivi Cserna prope Herculesfürdő [Băile Herculane], leg. dr. Z. Kárpáti(1937)”.

Lectotype (designated here): *Comit. Krassó Szörény. In valle fluminis Cserna prope pag. Herculesfürdő; in silvaticis*, alt. ca 170 m, 31.5.1937 [31.05.1937], Herbarium Z. Kárpáti, BP455846.

Isolectotype: BP455847.

Verbascum kotschii Boiss. et Hohen. in Diagn. Pl. Or. ser. 1, 4: 56. 1844. see MURBECK 1933: 224.

Type indication: [Syria] “Hab. In Syrià prope Aleppum Kotschy N. 171”.

Syntype: *In agris collinis prope Aleppum rarius*, D. 29. Apr. 1841 [29.04.1841], leg.: Th. Kotschy. Pl. Allep. Kurd. Moss. 171. Ed. Hohenacker. 1843.

Notes: BP341936 (Ex herb. Heufel and Haynald. Two specimens in Genève (G0008988, G0008989) are designated as “type”. HUBER-MORATH 1978: 571 gives them as “holotype”. Proper lectotypification was not yet done.

Verbascum laxum Fil. et Jáv. in Déchy Kaukasus: Reisen und Forschungen im kaukasischen Hochgebirge 3: 99. 1907 (= *V. chaixii* var. *polyphyllum*? sec MURBECK 1933: 419).

Type indication: [Russian Federation, Dagestan] “Specimen unicum ... Detexit Hollós ad Esen-am 5. Aug. 1898. (Tab. xx)”.

Holotype: *Flora Caucasica. Ex itinere M. Déchy. Leg Dr. L. Hollós. Esen-Am 1898 Aug. 5* [05.08.1898], BP341957.

Verbascum leiocarpum Murb. in Lunds Univ. Arsskrift, n. f. 29. No. 2
(Monogr. Verbascum): 451. 1933.

Type indication: [Turkey] “Sint. It. or. 1890, n 2339 (sub nom. “*V. micranthum* Hskn. N. sp.”)”

Lectotype (here designated): LD1214250.

Isotype: P. Sintenis: Iter orientale 1890 No. 2339. *Verbascum micranthum* Hskn. N. sp. Egin: in declivibus ad Euphratem. 13.5., 19.6. [13.05.1890 and 19.06.1890], det.: Prof. C. Haussknecht”, BP342075.

Notes: HUBER-MORATH (1978: 532) designated the type to be preserved in LD. There are three specimens, Nos. LD1214070, LD1214190 and LD1214250. All are designated as “type material”. I select here the most complete specimen as lectotype, provided with Murbeck’s notes. The two remaining ones are isotypes.

Verbascum liburnicum Borbás in Term. Közl. 8: 134. 1876, nomen novum illeg.

Notes: This name should replace the name of *Verbascum juranyii* (= *V. chaixii* × *phlomoides*) because Jurányi disagrees with this denomination. This fact has no influence on the nomenclature of this taxon.

Verbascum lydium var. *heterandrum* Murb. in Lunds Univ. Arsskrift, n. f. 29. 2
(Monogr. Verbascum): 378. 1933.

Type indication: [Turkey] “Lydien. Smyrna, collines au fond de la baie, leg. Boissier Mai 1842 [Hb. Boiss.]. Ins. Samos: in monte Ambelos, in d, ca 350 dumetis umbrosis ad pagum Arwanites ca 500 m, leg. Rechinger fil. Jun. 1932, n. 2090 [Hb. Rech.]. In fauce quadam umbrosa ad pagum Wurliotis, leg. Rechinger fil. Jun 1932, n. 2157 [Hb. Rech.]”

Lectotype: designated by HUBER-MORATH (1978: 540).

Syntypes: K.H. Rechinger iter graecum II 1932. 2090. *Insula Samos: in monte Ambelos, in dumetis umbrosis ad pagum Arwanites ca 500 m*, 16–23.6. [16–23.06.1932], BP42049, BP342050, BP342051.

Verbascum lyratifolium Koechel ap. Benth in DC. Prodr. 10: 242. 1846.
(MURBECK 1933: 577).

Type indication: [Turkey] “In monte Tauro (Kotschy! n. 385), Phrygia (Aucher n. 846 specim. mancum)”

Syntype: *In monte Tauro. Aestate*, 1836, BP342052.

Notes: Holotype in G-DC according to HUBER-MORATH (1978: 494) but there are two specimens (G0009260, G0009261) both designated as “Type”. The proper lectotypification was not yet done.

Verbascum mallophorum Boiss. et Heldr. in Boiss. Diagn. Pl. Or. Nov. 7: 39. 1846.
(MURBECK 1933: 405).

Type indication: [Greece] “Hab. In monte Taygeto de Heldreich aest. 1844”.

Syntype: *In regione media Taygeti*, Jul. 1844 [07.1844], leg.: de Heldreich, BP497837.

Verbascum mykales Bornm. in Mitth. Thüring. Bot. Vereins n.s., 22: 49. 1907.
(MURBECK 1933: 231).

Type indication: [Turkey] “Cariae in declivitatibus infimis montis Mykale (Samsun-dagh) supra ruinas urbis Priene, 3. VI. 1903, legit. Bornm. exsicc. 9826”.

Syntype: J. Bornmüller: *Lydiae et Cariae Pl. Exsicc. No, 9826. Caria: in declivitatibus meridionalibus montis Mykale (Samsun-dagh) supra Priene. 1–200 m.s.m.* 1906 2–3. IV [02–03.04.1906]. BP342084.

Notes: Typus in B (B100184603 and B100184604, according to HUBER-MORATH 1978: 576. The proper lectotypification was not yet done).

Verbascum orsovaense Boros in Bot. Közlem. 44: 19. 1948.

Nomen novum for the name *V. degenianum* Soó in Bot. Közlem. 32: 230. 1935, name for the combination *V. phlomoides* × *heuffelii* (= *V. pannosum* Vis. et Pančić). Boros considered this name as homonymous with *V. degenii* Hal. Verh. K. K. Zool.-Bot. Ges. Wien 48: 140. 1898.

Type indication: [Romania] “Ógradina [Ogradena], leg. Degen”.

Lectotype (designated here): *Flora exs. Austro-Hungarica 2931* (issued as *V. pannosum* Vis.) *Hungaria meridionali-orientalis. Comitatus Krassó-Szörény. In declivibus lapidosis sterilissimis ad pagum Ogradina; solo calcareo; 100 mt s. m., s.d., leg.: Degen, BP147197.* Notes: Murbeck’s revision label (1930) noted as hybrid without binome, see also MURBECK 1933: 94.

Verbascum phoeniceum var. *vellerigerum* Borbás in Természetrájszi Fü. 16: 51, 1893, nomen novum for *V. phoeniceum* var. *villosum* Borbás Verh. Bot. Vereins Prov. Brandenburg 147: 58, 1875, nom. illeg. (non Bernh.).

Type indication: [Romania] “Bei Orsova unter dem Allionberg”.

Lectotype (designated here, perhaps holotype): *Flora Banatica. In apricis sub montio Allion infra oppid Vetus Orsova ad Danubium inferiorem*, 29.5.1874 [29.05.1874], BP545757.

Verbascum samaritani Heldr. in Diagn. Pl. Or. ser. 2, 6: 127. 1856
(MURBECK 1933: 147).

Type indication: [Greece] “Hab. In pascuis montis Veluchi (Tymhresti) [Tymfristos]) Eurytaniae alt. 5000', loco Saitani dicto cl. Samaritani et Guicciardi Gerb. Norm. Graec. No 745”.

Syntype: De Heldreich Herbarium Graecum normale. N. 745. *In Eurytaniae m. Veluchi Tymphresto veter. in pascuis oropedii Saitani, in consoertio Urticae dioicae, alt. 5000' d*, 29 Jul. 1857 [29.07.1859], leg. et det.: Samaritani & J. Guiciardi, BP498010.

Verbascum × *stojanovii* Jáv. in Bot. Közlem. 34: 119. 1937
(= *V. hinkei* × *longifolium*).

Type indication: [Bulgaria] “Detexi in consocio parentium in montibus Kaloferski Balkan, infra cataractas rivi Bela reka (Ak-dere) Bulgariae, sub monte Jumrukčal, in altit. cca. 1600 m., ad limites fageti, loco classico Verbasci lanati var. Hinkei (Friv.) Murb.”.

Lectotype (designated here; the specimen already marked by D. Kovács in 1999, but never published): *Bulgaria: in herbidis ad limites silvae superior sub cataractis rivi (olim Ak-dere dicti) in latere merid. M. Iumrukcal (Ferdinandovo) alpium central Balkan supra pag. Kalofer*, 13.6.1929 [13.06.1929], alt ca 1600–1700 m, BP341349.

Isolectotype: BP341350 (marked by D. Kovács 1999).

Verbascum vidavense Simonk. in Természetrázi Fü. 5: 49. 1881
(= *V. austriacum* var. *austriacum* × *blattaria*, MURBECK 1933: 569, BOROS 1948: 13).

Type indication: [Romania] “Nagyvárád [Oradea] és Belényes [Beiuş] Kapocány [Copăceni]”.

Lectotype (designated here, perhaps holotype) (one specimen on two sheets): *Ad Kapocány, com Bihor. Hungariae*, 1879 jul 15 [15.07.1879], BP146678; *In margine viarum ad pagum Kapocány. Com. Bihor Hungariae*, 1879 jul 15 [15.07.1879], BP146679.

Notes: The type is mounted on two sheets, with different numbers and slightly different label texts. It is however evident that both sheets were prepared from the same plant. (see also *V. grandicalyx* Simk.).

SUMMARY

Types of 31 taxa of the genus *Verbascum* are reported in the collection of the Hungarian Natural History Museum in Budapest: four holotypes, one isotype, 15 lectotypes, four isolectotypes and eight syntypes. The lectotypes are in eight cases

designated with the remark “perhaps holotype” because of the uncertain existence of further type material. Six lectotypes are designated here as new. The provenance of this material is in ten European and Asian countries. Most specimens originate from Romania (11). Other countries – Greece (5), Turkey (4), Bulgaria (3), Croatia (3), Hungary (1), Macedonia (1), Russian Federation (1), Spain (1), and Syria (1) are less represented. Fourteen names were created for hybrids.

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Összefoglaló: Jelen közleményben a *Verbascum* (ökörfarkkóró) nemzetség 31 fajának a Magyar Természettudományi Múzeum Növénytárában (BP) őrzött típuspéldányait ismertetjük. Tizenöt taxon lektotípusának kijelölését adjuk, emellett öt izotípust, öt holotípust és nyolc syntípust listázunk. A kijelölt lektotípusok közül nyolcnak egyelőre nem ismert további originális anyaga. A típuspéldányok közül 11 Románia, 5 Görögország, 4 Törökország, 3-3 Bulgária és Horvátország, 1-1 pedig Magyarország, Macedónia, Oroszország, Spanyolország és Szíria területéről származik.

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