ANNALES HISTORICO-NATURALES MUSEI NATIONALIS HUNGARICI
Volume 90. Budapest, 1998 pp. 115–132.

Plant types of Sándor Jávorka in the Hungarian Natural History Museum in Budapest I.

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KOVÁTS, D. (1998): Plant types of Sándor Jávorka in the Hungarian Natural History Museum in Budapest I. – *Annls hist.-nat. Mus. natn. hung.* **90**: 115–132.

Abstract – 38 types from 24 taxa of Sándor Jávorka, i. e. 17 lectotypes, 14 isolectotypes (syntypes) and 7 neotypes are elaborated, which are deposited in the Herbarium Carpato-Pannonicum and in the Herbarium Generale in the Department of Botany, Hungarian Natural History Museum in Budapest. With 7 figures.

INTRODUCTION

In this paper the author continues to discuss the type specimens (KOVÁTS 1975, 1982, 1984, 1992) which are to be found in the Herbarium Carpato-Pannonicum and in the Herbarium Generale in the Botanical Department of the Hungarian Natural History Museum with the 38 types of SÁNDOR JÁVORKA. He was one of the greatest Hungarian flora researcher. JÁVORKA is not only the author of the first complete Hungarian Flora (Flora Hungarica, 1925) which consists of more than 4242 species from the Carpato-Pannon area, but he is the author of 126 taxa as well. JÁVORKA described 67 taxa from the Carpath-Pannon area. The loci classici of 12 taxa are in Hungary, 51 taxa are in Transylvania and Slovakia and 4 taxa are in Dalmatia (Croatia). He discovered 59 taxa and described 58 from the Balkan Peninsula – 59th taxa described by MARKGRAF-DANNENBERG (1972–73) – 45 from Albania, 10 from Bulgaria and 4 from Greece. Twelve taxa with the authorship of JÁVORKA are mentioned in some items of literature and appear on some herbarial sheets without descriptions; these names are nomina nuda. 122 taxa – together with some nomina nuda – of JÁVORKA were already mentioned by ZÓLYOMI (1962) in the obituary of JÁVORKA.

He worked in the museum for 55 years (1905–60), more than 6 years of that time as director (1919, 1934–40). The herbarium of JÁVORKA – including his original and type specimens – is deposited in the Botanical Department of the Hungarian Natural History Museum, Budapest. It is a great pity that some of his original herbarium material was destroyed during the 2nd World War. Therefore some types of JÁVORKA and some specimens of his original collections cannot be found in our herbaria and in these cases neotypes need to be designated. In most of the cases JÁVORKA did not designate his types,

sometimes he marked some sheets off "nova species", or numbered them "I.II.III.". Consequently his types are syntypes, of which lectotypes, isolectotypes, and when the original materials were destroyed, neotypes could be designated. Eight types of JÁVORKA were already published, 3 types from the Boraginaceae, 5 types from the Gramineae (Poaceae) family (KOVÁTS 1975, 1982, 1984). In this paper 17 lectotypes, 14 isolectotypes (syntypes), 7 neotypes of JÁVORKA are enumerated from the Ranunculaceae, Rosaceae, Leguminosae (Fabaceae, Papilionaceae), Umbelliferae (Apiaceae), Dipsacaceae, Linaceae, Euphorbiaceae Labiatae (Lamiaceae) families. The loci classici of 16 types are in Transylvania, one type is in Slovakia, 15 types are in Albania, 1 type is in Bulgaria and 5 are in Hungary. These types are deposited in the Herbarium Carpato-Pannonicum and in the Herbarium Generale in the Botanical Department of the Hungarian Natural History Museum, Budapest.

RANUNCULACEAE

Ranunculus sardous CRANTZ ssp. (*R.*) *balcanicus* KÜMMERLE et JÁVORKA, 1921

Lectotype – Original description: JÁVORKA (1921: 17–30). On the original label with JÁVORKA's handwriting: "*Ranunculus sardous* Cr. ssp. *R. balcanicus* Kümm. et Jáv.".

Locus – "Montes Albaniae boreali-orientalis inter opp. Prizren et Debra jacentes" with JÁVORKA's handwriting: "in inundatis fluvii Drini barz (Beli Drin) ad stationem militarem Kula Lums; solo calcareo; altit. circa 230 m."

Data with JÁVORKA's *handwriting* – "6. VII. 1918." printed: "leg. Dr. J. B. Kümmerle". Collection – "Iter Albanicum Per Sectionem Botanicam Musei Nationalis Hungarici Susceptum". DALLA TORRE and HARMS' number – 2546, inventory number – 121158, collector's number – 91.

The specimen on the sheet, which was designated as the lectotype, consists of a plant with roots, leaves and inflorescences (flowers and fruits).

First isolectotype – On the label with JÁVORKA's handwriting: "*Ranunculus sardous* Cr. ssp. *balcanicus* Kümm. et Jáv.".

Locus – "Montes Albaniae boreali-orientalis inter opp. Prizren et Debra jacentes:" with JÁVORKA's handwriting – "ad viae margines in valle fluvii Drini barz (Beli Drin) inter stationem militarem Kula Lums et pagum Küküs, solo calcareo; altit. circa 240 m. s. m."

Data with JÁVORKA's *handwriting* – "29. VI. 1918" printed: "leg. Dr. J. B. Kümmerle". Collection – same as lectotype. DALLA TORRE and HARMS' number – 2546, inventory number – 121159, collector's number – 91.

The specimens on the sheet, which was designated as isolectotype, consist of two plants with roots, leaves and inflorescences (flowers and fruits) and three stems with leaves and inflorescences (flowers and fruits).

Second isolectotype – On the label with JÁVORKA's handwriting: "*Ranunculus sardous* Cr. ssp. *R. balcanicus* Kümm. et Jáv."

Locus – "Montes Albaniae boreali-orientalis inter opp. Przren et Debra jacentes:" with JÁVORKA's handwriting – "in inundation rivi Luma ad stationem militarem Kula Lums, solo calcareo; altit. circa 240 m. s. m."

Data with JÁVORKA's *handwriting* – 10. VII. 1918", printed: "leg. Dr. J. B. Kümmerle". Collection – same as lectotype. DALLA TORRE and HARMS' number – 2546, inventory number – 121161, collector's number – 91.

The specimens on the sheet, which was designated as isolectotype, consist of a plant with roots, leaves and inflorescences (flowers and fruits) and two stems with leaves and inflorescences (flowers and fruits)

ROSACEAE

Sorbus borbásii JÁVORKA, 1915

Lectotype – Original description: JÁVORKA (1915: 99). On the label: "*Sorbus semipinnata* Borb. (Syn: *S. dacica* Borb.) = *S. aucuparia* x Mougeotii)".

Locus – "In monte Suskuluj, ad Thermas Herculis Com. Krassó Szörény"

Data – "14. Juni. 1901". Leg. et det. "L. de Thaisz assistens".

On JÁVORKA's *label with his handwriting* – "*Sorbus Borbásii* Jáv." and printed: "revid. S. Jávorka", on the sheet above the label, with JÁVORKA's handwriting with pencil: "f. Borbásii Jáv." Collection – "Flora Hungarica L. de Thaisz assistens." DALLA TORRE and HARMS' number – 3338, inventory number – 209070.

The specimens on the sheet, which was designated as the lectotype, consist of five leafy stems, four of them with flowers.

First isolectotype – On the label: "*Sorbus dacica* Borb. (*S. austriaca x aucuparia*)"

Locus and data – same as lectotype. On the sheet above the label with JÁVORKA' s handwriting with pencil – "Borbásii Jáv." Collection – same as lectotype. DALLA TORRE and HARMS' number – 3338, inventory number – 209063, collector's number – 32.

The specimens on the sheet, which was designated as isolectotype, consist of four leafy stems with flowers.

Second isolectotype – On the label: "*Sorbus dacica* Borb. (*S. meridionalis?* x *aucuparia*)"

Locus and data – same as lectotype. On the sheet above the label with JÁVORKA's handwriting with pencil – "Borbásii Jáv." Collection – same as lectotype. DALLA TORRE and HARMS' number – 3338, inventory number – 209072, collector's number – 41.

The specimens on the sheet, which was designated as isolectotype, consist of three leafy stems two of them with flowers.

Sorbus cretica (LINDLEY) FRITSCH f. *banatica* JÁVORKA, 1915

Lectotype – Original description: JÁVORKA (1915: 104). On the original label with JÁVORKA's handwriting – "Sorbus cretica (Ldl.) Fritsch f. banatica Jáv."

Locus – "c. Hunyad in rup. calc. montis "Piatra Macestelor ad pagum Paros – Pestere sub. alp. Retyezát".

Data with JÁVORKA's *handwriting* – "1910 VIII. 3. l: Jávorka". Collection – "Herb. Mus. Nat. Hungar. Budapest – Duplicata." and "Herbarium Reg. Scient. Univ. Hung. Budapest." DALLA TORRE and HARMS' number – 3338, inventory number – 592460.

The specimen on the sheet, which was designated as the lectotype, consists of a leafy stem.

Sorbus cretica (LINDLEY) FRITSCH f. *danubialis* JÁVORKA, 1915

Neotypus – Original description: JÁVORKA (1915: 104). On the original label with JÁVORKA's handwriting – "*Sorbus cretica* (Ldl.) Fritsch" with pencil – "*f. danubialis* Jáv."

Locus with JÁVORKA's *handwriting* – "Budapest: in monte Sashegy".

Data with JÁVORKA's *handwriting* – " V/5 911" (05.05.1911) printed: "l. Dr. Jávorka". Collection – "Herbar. Musei Nat. Hungar. Budapest. Flora Hungarica". DALLA TORRE and HARMS' number – 3338, inventory number – 562679, collector's number – 151.

The specimens on the sheet, which was designated as the neotype, consist of three leafy stems with flowers.

Sorbus degenii JÁVORKA, 1926
(Figs 1–2, 5)

Lectotype – Original description: JÁVORKA (1926 : 85). On the original label "*Sorbus latifolia* Lam. (*S. Aria* x *intermedia* Reineck. – *S. subaria* x *torminalis* Fritsch ap. Kerner fl. exs. Aust. m. 2450)" (Fig. 1).

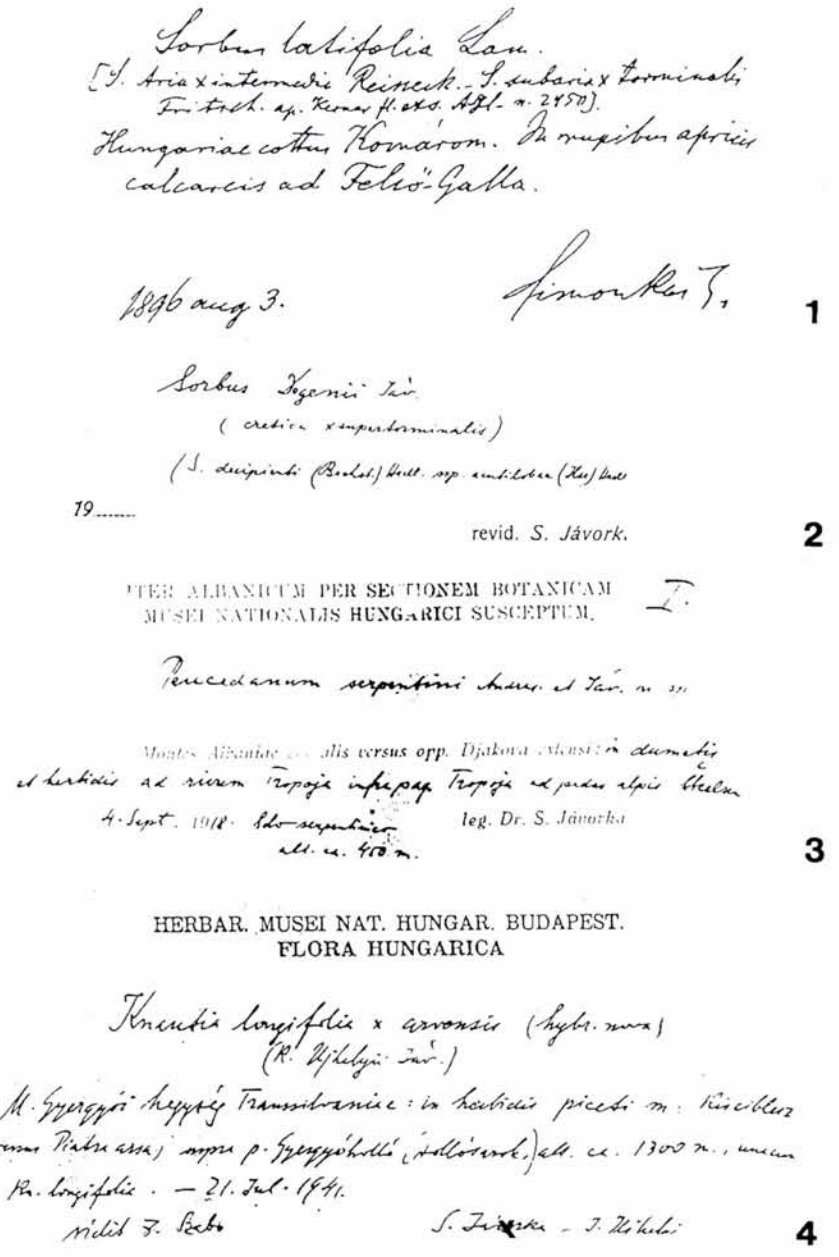
Locus – "Hungariae cottus Komárom. In rupibus apricis calcareis ad Felső-Galla. (Fig. 1)

Data – "1896 aug. 3." Leg. et det. "Simonkai L." (Fig. 1).

On JÁVORKA's *label with his handwriting* – "*Sorbus Degenii* Jáv. (*cretica* x *supertorminalis*) (*S. decipiente* Bechst.) Hedl. ssp. *acutilobae* (Ilse) *Hedl. affinis*)" printed – "19.. revid. S. Jávorka." (Figs 2, 5).

On the sheet, under JÁVORKA's revision label, with JÁVORKA's handwriting with pencil – "est S. Degenii Jáv. vel ssp. acutiloba (Ilse) Held. decipiente (Bechst.) Held. f. nova". DALLA TORRE and HARMS' number – 3338, inventory number – 81203, collector's number – 41.

The specimens on the sheet, which was designated as the lectotype, consist of two leafy stems (Fig. 5).



Sorbus latifolia Lam.
[S. aria × intermedia Reinecke. – S. subaria × torminalis Fritsch. ap. Kerner fl. exs. Austro-Hung. n. 2450].
Hungariae comitatu Komárom. In rupibus apricis calcareis ad Felső-Galla.

1896 aug. 3. Simonkai L. **1**

Sorbus Degenii Jáv.
(cretica × umbellata-torminalis)
(S. decipiens (Bechst.) Hedl. sp. umbellata (Ku) Hedl.

19.....

revid. S. Jávork. **2**

ITER ALBANICUM PER SECTIONEM BOTANICAM
MUSEI NATIONALIS HUNGARICI SUSCEPTUM.

Peucedanum serpentini Andras. et Jáv. n. ...

Montes Albaniae ... alis versus opp. Djakova ... dumetis et herbidis ad rivum Trepoja inter pag. Trepoja et pagum Lipa Gjelaj
4. Sept. 1918. Ad serpentem ... leg. Dr. S. Jávorka
alt. c. 400 m. **3**

HERBAR. MUSEI NAT. HUNGAR. BUDAPEST.
FLORA HUNGARICA

Knautia longifolia × arvensis (hybr. nova)
(K. Ujhelyii Jáv.)
M. Gyergyói-hegység Transsilvaniae: in declivibus piceti m. Kisoblúcz (versus Piatra arsa) supra p. Gyergyóholló (Gyilkos-tó) alt. c. 1300 m., unicum
Kn. longifolia. – 21. Jul. 1941.
vidit J. Szabó S. Jávorka – J. Ujhelyi **4**

Figs 1–4. 1 = the original label of *Sorbus degenii* JÁVORKA from SIMONKAI: "*Sorbus latifolia* Lam.", 2 = the revision label of JÁVORKA: "*Sorbus Degenii* Jáv.", 3 = the original label of *Peucedanum serpentini* ANDRASOVSZKY et JÁVORKA from JÁVORKA. 4 = the original label of *Knautia ujhelyii* JÁVORKA from JÁVORKA

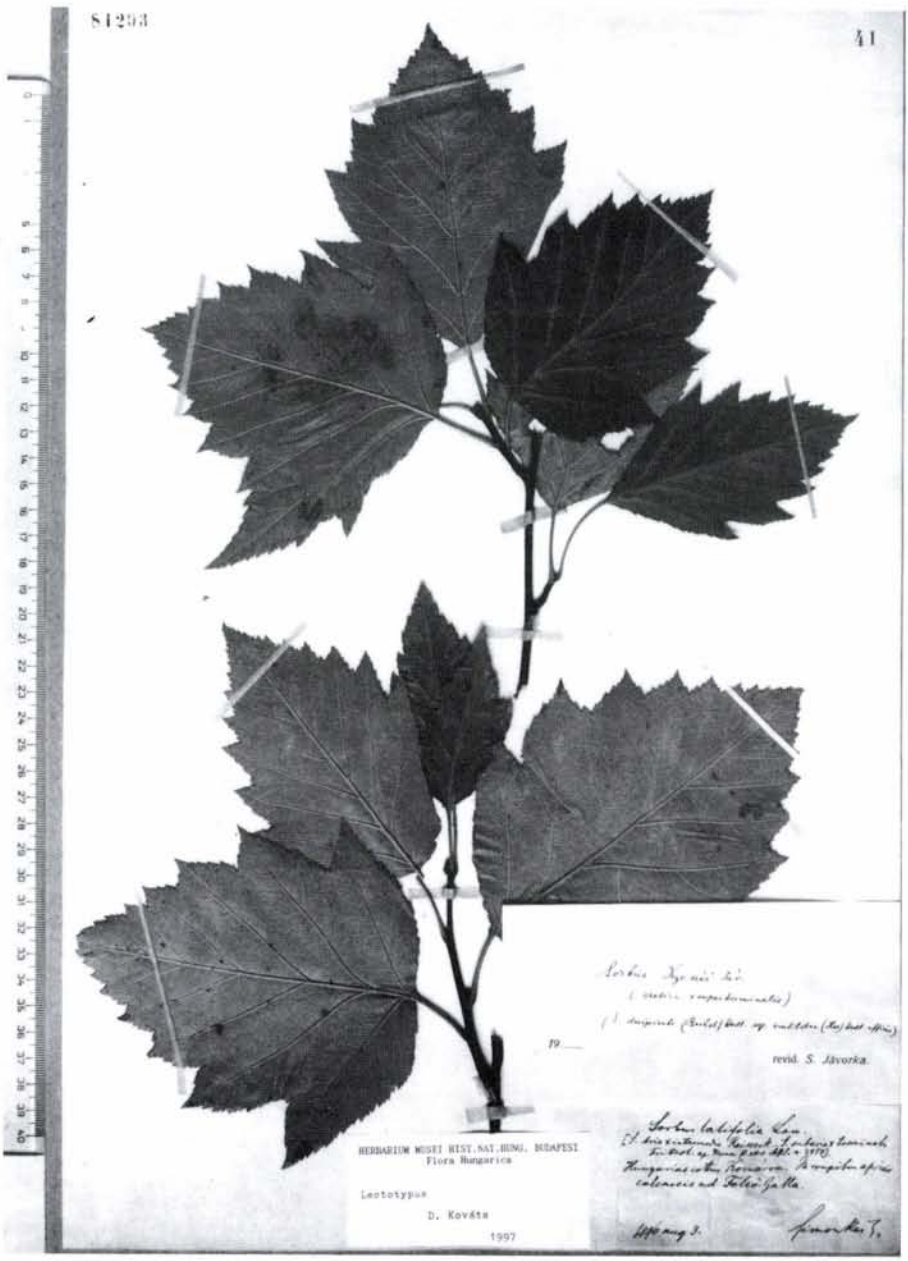


Fig. 5. *Sorbus degenii* JÁVORKA, lectotype

Sorbus franconica BORNMÜLLER f. *bakonyensis* JÁVORKA, 1926

Lectotype – Original description: JÁVORKA (1926: 87–88). On the original label – "*Sorbus latifolia* Lam. *S. semiincisa* Borb. Balaton fl. 1900.p.208. non versus Borb. Term. tud. Közl. 1879.p.54."

Locus – "Comit. Veszprém. In dumetosis montis Kápolnadomb prope pagum Márkó. Alt.s.m.met.ca:350."

Data – "8. oct. 1920."

On JÁVORKA*'s label with his handwriting*: "*S. bakonyensis* Jáv. (*cretica* x *torminalis*)" printed: "revid. S. Jávorka." Collection – "A. Boros: Plantae Hungariae Exsiccatae." DALLA TORRE and HARMS' number – 3338, inventory number – 299993.

The specimen on the sheet, which was designated as the lectotype, consists of a stem with ten leaves.

Sorbus hostii (JACQUIN fil.) K. KOCH ssp. (*S.*) *margittaiana* JÁVORKA, 1927

Lectotype – Original description: Schedae ad Floram Hungaricam Exsiccatam (1927: 27–28). On the original label with JÁVORKA's handwriting: "*Sorbus austriaca* x *chamaemespilus* = Hostii Cr. ssp. Margittaiana Jáv."

Locus with JÁVORKA*'s handwriting* – "Comit Túróc: in monte Suchy vrch montium Kriván Fátra alt. ca. 1450 m."

Data with JÁVORKA*'s handwriting* – "21–23. VI. 1915. leg. A. Margittai." Collection – "Herbar Musei Nat. Hungar. Budapest Flora Hungarica" DALLA TORRE and HARMS' number – 3338, inventory number – 81345, collector's number – 269.

The specimen on the sheet, which was designated as the lectotype, consists of a stem with leaves and flowers.

Sorbus paxiana JÁVORKA, 1926

Neotype – Original description: JÁVORKA (1926: 89–99). On the original label: "*Crataegus nigra* W. et K."

Locus – "Baie Herculane p. Domogled".

Data – "20.VIII.957" Leg. I. D. Tatazanu".

On JÁVORKA's *first label with his handwriting* – "*Sorbus paxiana* Jáv. (= *borbásii* x *torminalis*) f. v. status nova? sec. Z. Kárpáti f. S. torminalis ex "Herbarul institutului de Cercetari Silvice Baie Herculane pr. Domogled – 20. VIII. 1957" legit Ing. Dumitrin – Tatazanu, Bucuresti."

On JÁVORKA's *second label with his handwriting* – "x *Sorbus paxiana* Jáv. (= *borbásii* x *torminalis*) f. nova? sec. Z. Kárpáti est f. S. torminalis in Magyar Bot. Lapok 1926. p. 89. 1958 nov. revid. S. Jávorka." – and some illegible morphological remarks by JÁVORKA with pencil. Collection – "Herbarul Institutului de Cercetari Silvice." and on

JÁVORKA's first label – "Herbarium Musei Hist. Nat. Hung. Budapest." DALLA TORRE and HARMS' number – 3338, inventory number – 238160.

The specimens on the sheet, which was designated as the neotype, consist of two leafy stems.

Sorbus torminalis (LINNÉ) CRANTZ ssp. *kissii* JÁVORKA, 1939

Lectotype – Original description: JÁVORKA (1939: 220). On the label with typewriter: "*Sorbus torminalis* (L.) Cr. " after JÁVORKA's handwriting with pencil: "ssp. Kissii Jáv. n. ssp." and be continued with typewriter: " a *S. latifolia* és *S. decipiens* felé közeledő új alak." [a new form which takes after *S. latifolia* and *S. decipiens*].

Locus – "Sárospatak, Sinka, hegyoldalon." [ad Sárospatak in declivibus montis Sinka]. Collection – "Herbar. Musei Nat. Hungar. Budapest. Flora Hungarica." DALLA TORRE and HARMS' number – 3338, inventory number – 595344, collector's number – 387.

The specimen on the sheet, which was designated as the lectotype, consists of a leafy stem with a fruit.

Potentilla thuringiaca BERNHARDI f. *hunyadensis* JÁVORKA, 1925

Lectotype – Original description: JÁVORKA (1925: 528). On the original label with JÁVORKA's handwriting – "*Potentilla thuringiaca* Bernh. f. *hunyadensis* Jáv. (=Nestleriana Schinz et Keller p.p.?)".

Locus – "Új-Gredistye völgye Szászváros alatt, Hunyad m., út mentén a Greble felett." [The valley of Új-Gredistye under Szászváros, the county of Hunyad, on the road side over the Greble].

Data: "22. V. 1905. gy. Jávorka S." (leg. S. JÁVORKA). Collection – "Herbar. Musei Nat. Hungar. Budapest. Flora Hungarica" DALLA TORRE and HARMS number – 3356, inventory number – 88019, collector's number -151.

The specimen on the sheet, which was designated as the lectotype, consists of a plant with roots, leaves and flowers.

LEGUMINOSAE (Fabaceae, Papilionaceae)

Colutea arborescens LINNÉ f. *monophylla* JÁVORKA, 1922

Neotype – Original description: JÁVORKA (1922: 150). On the original label with JÁVORKA's handwriting – "*Colutea arborescens* L. f. nova monophylla Jáv.".

Locus with JÁVORKA's *handwriting* – "in dumetis ultra m. Tamásheg.y" with pencil: "in colle Sándorhegy", "ad balneus Balatonfüred"

Data with JÁVORKA's handwriting: "9. VII. 1923." Leg. et det. "S. Jávorka". Someone – probably JÁVORKA – wrote "II." into the label. Collection – "Herbar. Musei Nat. Hungar. Budapest. Flora Hungarica" DALLA TORRE and HARMS' number – 3759, inventory number – 100628, collector's numbere – 151.

The specimens on the sheet, which was designated as the neotype, consist of four leafy stems with buds.

Astragalus australis (LINNÉ) LAMARCK ssp. *bucsecsi* JÁVORKA 1925

Lectotype – according to D. PODLECH 1996 – Original description: JÁVORKA (1925: 635). On the original label: "*Phaca australis* L. No: 834 Fuss flor. No. 963 Schur enum.".

Locus – "Bucsecs, La Omu nevü legmagasabb tetőtől Oláhországhoz benyúló hegynek sziklás, kavicsos gerinczén, Flora Transsilvanica" [On the rocky, gravelly ridge of mountain, which extends over to "Oláh country" from the highest peak named La Omu of Bucsecs, Flora Transsilvanica].

Data – "2. Aug. 1886". Leg. et det. "Csató".

On JÁVORKA's *label with his handwriting* – "*Astragalus australis* B. Bucsecsi Jáv. XII. 1915." revid. "Jávorka". Collection – "Flora Transsilvanica. Herbar. Musei Nat. Hungar. Budapest". DALLA TORRE and HARMS' number – 3766, inventory number - 100771, collector's number -55.

The specimens on the sheet, which was designated as the lectotype, consist of two leafy plants with roots and flowers and one stem with fruits and one separated leaf.

Isolectotype – On the original label: "*Astragalus australis* (L.) Lam. f. Gerardi Rony in Rony et Foucaud fl. franc. V. (1900) 168. – Phaca Gerardi Vihars. hist. pl. dauph.I. (1786) 302.- *Ph. glabra* Charion."

Locus – "in saxosis calc. alpin Bucsecs, ibidem in summo cacumine et tergero: Bucsecsfej."

Data – "Leg. 1883 aug.2, 31. Dr. Simonkai Lajos."

On JÁVORKA's *label with his handwriting* – "*A. australis* (L.) Lam. B. Bucsecsi Jáv. (non est Phaca Gerardi, quae dentes calycis breves habet.) 1915. XII. revid. Jávorka". Collection – "Flora regni hungarici ex herbario L. Simonkai" and on JÁVORKA's label – "Herbar. Musei Nat. Hungar. Budapest." DALLA TORRE and HARMS' number – 3766, inventory number – 100770, collector's number – 41.

The specimens on the sheet, which was designated as isolectotype, consist of three leafy plants with fruits and separated stems with leaves, flowers and fruits.

Astragalus peterfii JÁVORKA, 1916

Lectotype – according to D. PODLECH 1996 – Original description: Schedae ad Floram Hungaricam Exsiccatam (1916: 38–40). On the original label with JÁVORKA's handwriting: "*Astragalus Péterfii* Jáv. spec. nova."

Locus – "Comit. Kolozs Hung. orientalis: in declivibus graminosis supra pag. Magyarszovát, alt. ca. 350–400 m."

Data – "15. V. et 1. VI. 1916. Leg. M. Péterfi comm. S. Jávorka". Collection – "Herbarium Dr. Árpád de Degen, Herbar. Musei Nat. Hungar. Budapest. Flora Hungarica Duplicata." DALLA TORRE and HARMS' number – 3766, inventory number – 217936.

The specimens on the sheet, which was designated as the lectotype, consist of three leafy stems with flowers and one stem with fruits.

First isolectotype – On the label probably with PÉTERFI's handwriting: "*Astragalus Péterfii* Jáv." with JÁVORKA's handwriting: "spec. nova det. S. Jávorka"

Locus probably with PÉTERFI's *handwriting* – "*Hungaria orientalis.* Comit. Kolozs: In declivibus graminosis supra pag. Magyar-Szovát; altid. ca 350–400 m."

Data – "15. V. et 1. VI. 1916" leg.: "Péterfi Márt." [MÁRTON PÉTERFI] DALLA TORRE and HARMS' number – 3766, inventory number – 101441, collector's number – 132.

The specimens on the sheet, which was designated as isolectotype, consist of five leafy stems with flowers and fruits.

Second isolectotype – On the label with JÁVORKA's handwriting: *Astragalus Péterfii* Jáv. spec. nova".

Locus with JÁVORKA's *handwriting*: "In declivibus ad pag. Magyarszovát, comit. Kolozs."

Data with JÁVORKA's *handwriting*: "30. Jul. 1916. leg. M. Péterfi" Collection: "Herbar. Musei Nat. Hungar. Budapest. Flora Hungarica" DALLA TORRE and HARM's number – 3766, inventory number – 101437, collector's number – 132.

The specimens on the sheet which was designated as isolectotype, consist of six leafy stems with fruits.

Oxytropis urumovii JÁVORKA, 1920

Neotype – Original description: URUMOV (1920: 34). On the label: "*Oxytropis Urumovii* Jáv."

Locus – "Mont. Pirin, Okaden – Vrh. (Bulgaria) Alt.: 2600–2690 m."

Data – "Legit: 1938. VII. 19. Determ: 1947 Dr. Pénzes ; L. Dr. Ujhelyi J." Collection – "Herbarium Reg. Scient. Univ. Hung. Budapest" DALLA TORRE and HARMS' number – 3767, inventory number: 197046, collector's number: 648.

The specimens on the sheet, which was designated as the neotype, consist of ten leafy plants, seven of them with roots, six of them with flowers and five of them with fruits.

UMBELLIFERAE (Apiaceae)

Carum rupestre BOISSIER et HELDREICH
var. *albanicum* KÜMMERLE et JÁVORKA, 1926

Lectotype – Original description: CSIKI *et al.* (1926: 276). On the original label with KÜMMERLE's handwriting: "Carum" with JÁVORKA's handwriting: "rupestre Boiss. et Heldr. var albanicum Kümm. et Jáv. elatum foliolis etiam foliorum inferiorum longioribus, angustioribus, filiformibus."

Locus – "Montes Albaniae boreali-orientalis inter opp. Prizren et Debra jacentes" with KÜMMERLE's handwriting: "in rupestribus in declivibus meridionalibus montium nivalium Koritnik supra rivum Ljuma ad pagum Podbsegya prope stationem militarem Kula Ljuma, sol. calc. circa 1200 m.s.m. sol. calc." – cited in the original description.

Data – "VII. 1. 1918. Leg. Dr. J.B. Kümmerle". Collection – "Iter Albanicum Per Sectionem Botanicam Musei Nationalis Hungarici Susceptum". DALLA TORRE and HARMS' number – 6020, inventory number – 276468, collector's number – 91.

The specimens on the sheet, which was designated as the lectotype, consist of two leafy plants with flowers and young fruits.

First isolectotype – On the label with JÁVORKA's handwriting: "*Carum rupestre* Boiss. et Heldr. var *albanicum* Kümm. et Jáv."

Locus – "Montes Albaniae borealis versus opp. Djakova extensi:" with Jávorka's handwriting: "Montes Hekurave. In saxis calc. ad "Fume Hekurave" versus cacumen Stüla Gris supra pag. Bunjaj et Kolgecaj – alt. ca. 1400–1800 m." – cited in the original description.

Data with JÁVORKA's *handwriting* – "24. Aug. 1918.", printed:" Leg. Dr. S. Jávorka". Collection – same as the lectotype DALLA TORRE and HARMS' number – 6020, inventory number – 276466, collector's number – 151.

The specimens o the sheet, which was designated as isolectotype, consist of six leafy pants with fruits.

Second isolectotype – On the label with JÁVORKA's handwriting – "*Carum rupestre* Boiss. et Heldr. var. *albanicum* Kümm. et Jáv."

Locus – "Montes Albaniae borealis ad occidentem opp. Djakova extensi:" with JÁVORKA's handwriting: "in saxosis calc. montis Skelsen supra pag. Tropoja – alt. ca. 2000 m." – cited in the original description.

Data – "7. Sept. 1918. Leg. Dr. S. Jávorka". Collection – same as the lectotype DALLA TORRE and HARMS' number – 6020, inventory number – 276467, collector's number – 151.

The specimen on the sheet, which was designated as isolectotype, consists of a leafy plant with fruits.

Third isolectotype – On the label: "*Carum rupestre* Boiss. et Heldr." with JÁVORKA's handwriting:" var. *albanicum* Kümm. et Jáv."

Locus – "Albania: Ipek (Plavi szurdok)." In the original description: "In angustiis versus opp. Plav ad opp. Ipek."

Data – "13. VI. 1917. Csiki Ernő." [leg. ERNŐ CSIKI.] Collection – "Herbar. Musei Nat. Hungar. Budapest." DALLA TORRE and HARMS' number – 6020, inventory number – 276469, collector's number – 86.

The specimen on the sheet, which was designated as isolectotype, consists of a leafy plant with flowers and fruits without roots.

Peucedanum serpentini ANDRASOVSZKY et JÁVORKA, 1921
(Figs 3, 6)

Lectotype – Original description: JÁVORKA (1921: 25). On the original label with JÁVORKA's handwriting: "*Peucedanum serpentini* Andras. et Jáv. n. sp.I." (Fig. 3)

Locus – "Montes Albaniae borealis versus opp. Djakova extensi:" with JÁVORKA's handwriting: "in dumetis et herbidis ad rivum Tropoja infra pag. Tropoja ad pedes alpis Skelsen. Solo serpentinico, alt. ca. 450 m." (Fig. 3).

Data – "4.Sept. 1918. leg. Dr. S. Jávorka" (Fig. 3). Collection – "Iter Albanicum Per Sectionem Botanicam Musei Nationalis Hungarici Susceptum." DALLA TORRE and HARMS' number – 6116, inventory number – 281766, collector's number – 151.

The specimen on the sheet, which was designated as the lectotype, consists of a leafy stem with flowers and young fruits (Fig. 6).

Isolectotype – On the label with JÁVORKA's handwriting: "*Peucedanum serpentini* Andras. et Jáv. n. sp.II."

Locus – "Montes Albaniae borealis versus opp. Djakova extensi: "with JÁVORKA's handwriting: "in dumetis et herbidis collium serpentinicorum ad rivam Tropoja infra pag. Tropoja – alt. ca. 450 m."

Data – "4. Sept. 1918. leg. Dr. S. Jávorka." Collection – same as the lectotype DALLA TORRE and HARMS' number – 6116, inventory number – 281765, collector's number – 151.

The specimens on the sheet, which was designated as the isolectotype, consist of two leafy plants with flowers and young fruits.

Heracleum carpaticum PORCIUS f. *palmatifidum* JÁVORKA, 1910

Lectotype – Original description: JÁVORKA (1910: 162). On the original label with JÁVORKA's handwriting: "*Heracleum carpaticum* Porc. f. *palmatifidum* Jáv."

Locus, with JÁVORKA's *handwriting* – "Besztercze-Naszód m.: Ünőkő, a Valea Putredu-ból a Cisia-ra vezető gerincen, 1600 m.m." [The county of Beszterce-Naszód: Ünőkő, on the ridge which leads from Valea Putredu towards Cisia, on 1600 m above sea level.]

Data with JÁVORKA's *handwriting* – "907.VII.13. Leg. Jávorka S." Collection – "Herbar. Musei Nat. Hungar. Budapest. Flora Hungarica" DALLA TORRE and HARMS' number – 6122, inventory number – 126731, collector's number – 151.

Fig. 6. *Peucedanum serpentini* ANDRASOVSZKY et JÁVORKA, lectotype

The specimen on the sheet, which was designated as the lectotype, consists of an upper part of a stem with three leaves and fruits.

DIPSACACEAE

Knautia ujhelyii JÁVORKA, 1943
(Figs 4, 7)

Lectotype – Original description: UJHELYI (1943: 52). On the original label with JÁVORKA's handwriting: "*Knautia longifolia* x *arvensis* (hybr. nova) (*K. Ujhelyii* Jáv.)" (Fig. 4).

Locus, with JÁVORKA's *handwriting* – "M. Gyergyói hegység Transsilvaniae: in herbidis piceti m. Kiscibles (versus Piatra assa) supra p. Gyergyóholló (Hollósarok) alt.ca. 1300 m. unicum(?) *Kn. longifolia*". (Fig. 4)

Data, with JÁVORKA's *handwriting* – "21.Jul.1941." leg: "S. Jávorka – J. Ujhelyi", on the sheet with SZABÓ's handwriting with pencil: "vidit Z. Szabó" (Fig. 4). Collection – "Herbar. Musei Nat. Hungar. Budapest. Flora Hungarica" DALLA TORRE and HARMS' mbernu – 8543, inventory number – 161355, collector's number – 151.

The specimen on the sheet, which was designated as the lectotype, consists of a leafy plant with fruits (Fig. 7).

Scabiosa portae KERNER f. *albanica* JÁVORKA, 1926

Lectotype – Original description: CSIKI *et al.* (1926: 308). On the original label, with JÁVORKA's handwriting: "*Scabiosa Portae* Kern.var.albanica Jáv. I."

Locus – "Montes Albaniae borealis ad occidentem opp. Djakova extensi:" with JÁVORKA's handwriting: "in rupibus calc. montis Skelsen supra pag. Tropoja, alt. ca. 1500–2100 m."

Data, with JÁVORKA's *handwriting* – "7. Sept. 1918.", printed: "leg. Dr. S. Jávorka" Collection – "Iter Albanicum Per Sectionem Botanicam Musei Nationalis Hungarici Susceptum." DALLA TORRE and HARMS' number – 8545, inventory number – 376775, collector's number – 151.

The specimens on the sheet, which was designated as the lectotype, consist of five leafy plants with flowers and fruits.

First isolectotype – The original label with JÁVORKA's handwriting is the same as the lectotype, signed II. Inventory number – 376774, collector's number – 151.

The specimens on the sheet, which was designated as isolectotype, consist of five leafy plants with flowers and fruits.

Second isolectotype – The original label with JÁVORKA's handwriting is the same as the lectotype, signed III. Inventory number – 376773, collector's number – 151.

The specimens on the sheet, which was designated as isolectotype, consist of two leafy plants with flowers and fruits.

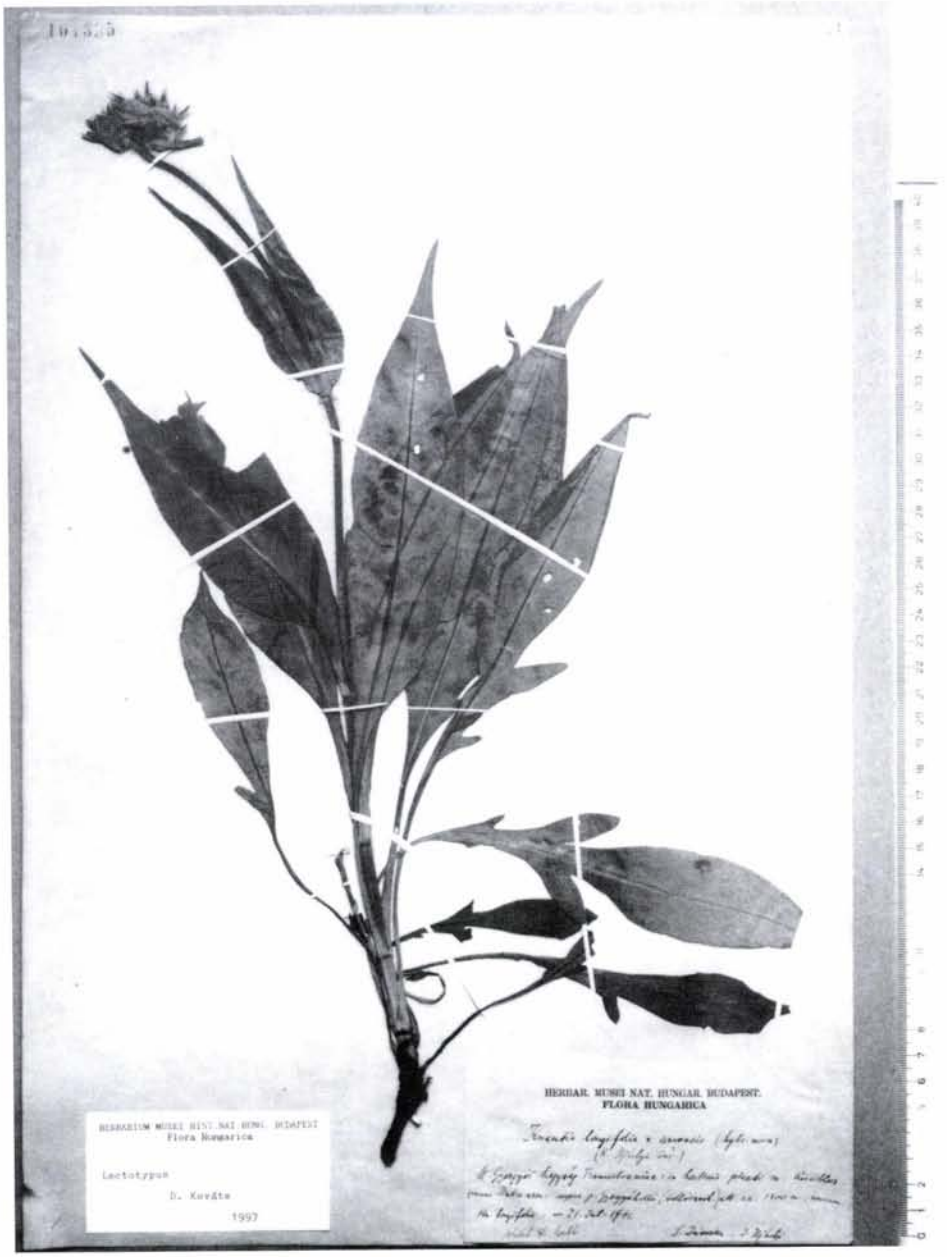


Fig. 7. *Knautia ujhelyii* JÁVORKA, lectotype

LINACEAE

Linum flavum LINNÉ f. *angustifolium* JÁVORKA, 1910

Neotype – Original description: JÁVORKA (1910: 153–154). On the original label with JÁVORKA's handwriting: "*Linum flavum* L. " on the sheet with JÁVORKA's handwriting with pencil: "*f. oec. angustifolia*".

Locus, with JÁVORKA's *handwriting* – "Szászváros, Hunyad m. Romosz felé út mentén" [Szászváros, county of Hunyad along the road towards Romosz.]

Data, with JÁVORKA's *handwriting* – "906. VI. 18. gy. Jávorka S." [18.06.1906. leg. S. JÁVORKA] Collection – "Herbar. Musei Nat. Hungar. Budapest. Flora Hungarica" "Magyar Nemzeti Muzeum Növénytani Osztálya Budapest" DALLA TORRE and HARMS' number – 3945, inventory number – 107384, collector's number – 151.

The specimens on the sheet, which was designated as the neotype, consist of two plants with roots, leaves, flowers and fruits.

Linum tauricum WILLDENOW ssp. *croceum* JÁVORKA, 1910

Neotype – Original description: JÁVORKA (1910: 147–148, 157). Syn.: *Linum uninerve* (ROCHEL) JÁVORKA f. *croceum* JÁVORKA, according to JÁVORKA (1925: 667) On the label: "*Linum uninerve* (Roch.) Ják. var. *croceum*".

Locus – "Transsilvania: Retyezát Dreksan – Kommando".

Data – "1910", leg. et det.: "Jávorka Sándor". Collection – "Flora Hungarica", printed: "Herbarium Musei Nat. Hung. Budapest". DALLA TORRE and HARMS' *number* – 3945, inventory number – 596336.

The specimens on the sheet, which was designated as the neotype, consist of four plants with roots, leaves and flowers.

Linum uninerve (ROCHEL) JÁVORKA, 1925

Neotype – Original description: JÁVORKA (1925: 667). Syn.: *Linum tauricum* BORBÁS, according to JÁVORKA (1925, p. 667) On the original label: "*Linum flavum* L. var. *tauricum* Borb."

Locus – "In silvis ad Domogled, prope Herkulesf." [Herkulesfürdő.]

Data – "24.VI.1905. leg. Prof. Mágócsy-Dietz S. et G. Lengyel".

On JÁVORKA's label with his handwriting – "*L. uninerve* (Roch.) (= *tauricum* Borb. non Willd.) 1911. IV. 15." printed: "revid. S. Jávorka." Collection – "Hrb. Hort. Botan. Reg. Sc. Univers. Hung." DALLA TORRE and HARMS' number – 3945, inventory number – 577686.

The specimens on the sheet, which was designated as the neotype, consist of two plants with roots, leaves and flowers.

EUPHORBIACEAE

Euphorbia amygdaloides LINNÉ f. *glaberrima* KÜMMERLE et JÁVORKA, 1926

Lectotype – Original description: CSIKI *et al.* (1926: 226). On the original label, with KÜMMERLE's handwriting: "*Euphorbia amygdaloides* L. f. *glaberrima* Kümm. et Jáv."

Locus, printed – "Montes Albaniae boreali-orientalis inter opp. Prizren et Debra jacentes:" with KÜMMERLE's handwriting: "montes nivales Djalica Ljums, in silvis convallis " Skala Bicaj" dict. supra pagum Bicaj, altit. circa 1500 m.s.m., solo calc."

Data, with KÜMMERLE's *handwriting* – "VIII. 13. 1919", printed "leg. Dr. J. B. Kümmerle". Collection – "Iter Albanicum Per Sectionem Botanicam Musei Nationalis Hungarici Susceptum." DALLA TORRE and HARMS' number – 4498, inventory number – 235055, collector's number – 91.

The specimens on the sheet, which was designated as the lectotype, consist of two leafy plants with capsules one of them with roots.

LABIATAE (Lamiaceae)

Betonica officinalis LINNÉ ssp. *skipetarum* JÁVORKA, 1921

Lectotype – Original description: JÁVORKA (1921: 27). On the original label, with JÁVORKA's handwriting: "*Betonica officinalis* L. = *Stachys officinalis* Trevis. ssp. *B. skipetarum* Jáv. I."

Locus – "Montes Albaniae borealis ad occidentem opp. Djakova extensi:" with JÁVORKA's handwriting: "in herbidis et dumetis in jugo "Cafa Morins" versus pag. Tropoja. Alt. ca. 600 m. Solo serpentinico."

Data – "Aug.-Sept. 1918. leg. Dr. S. Jávorka". Collection – "Iter Albanicum Per Sectionem Botanicam Musei Nationalis Hungarici Susceptum." DALLA TORRE and HARMS' number – 7281, inventory number – 331010, collector's number – 151.

The specimens on the sheet, which was designated as the lectotype, consist of three leafy plants with inflorescence, one of them is broken, the inflorescence is separated. On the sheet is a small paper-bag with fruits.

Isolectotype – On the original label with JÁVORKA's handwriting: "*Betonica (Stachys) officinalis* L. ssp. *B. skipetarum* Jáv. II."

Locus, data and collection same as lectotype. Inventory number – 331009, collector's number – 151.

The specimens on the sheet, which was designated as the isolectotype, consist of a leafy plant with inflorescence, two leafy scocks one of them broken with inflorescence and separated root leaves.

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