

LIST OF TAXA DESCRIBED BY ANTAL MARGITTAI AND
LECTOTYPIFICATION OF HIS TAXA DEPOSITED IN THE
HUNGARIAN NATURAL HISTORY MUSEM (BP)

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A complete list of vascular plant taxa, described by Antal Margittai is given here containing 64 varieties, forms, and hybrids, with typification of 9 taxa, whose type specimens are deposited in BP. This material thus includes 8 lectotypes hereby designated, along with 7 isolectotypes and 16 original specimens that are here recorded.

Key words: Eastern Carpathians, *Rosa*, Transcarpathia, Ukraine, vascular plants

INTRODUCTION

Antal Margittai (1880–1938), noted Hungarian botanist and a secondary school teacher, was living in Transcarpathia (Kárpátalja, Zakarpatska Oblast, today in Ukraine). In addition to teaching he was an enthusiastic plant collector who kept regular contact with many other major botanists of his time. Among the contemporary Hungarian botanists, he participated in several joint collecting trips together with Sándor Jávorka (1883–1961) and Ádám Boros (1900–1973) (ANDRIK *et al.* 2010a, 2011) to mention the most important ones.

His botanical interest naturally focused on the Transcarpathian region (MARGITTAI 1911a, 1913a, b, 1915, 1923), as well as on the Felvidék (Horná zem or Horniaky, in current-day Slovakia), especially the historical Turóc County (Turiec, Slovakia) (MARGITTAI 1910, 1911b, 1913b, 1914, 1927).

He has studied several critical genera. The Transcarpathian *Rosa* L. taxa were monographed by him, and some taxa of *Rosa* were described in cooperation with famous rhodologists, such as Heinrich Sabransky (1864–1915) and Samuel Kupcsok (1850–1914). The monograph on the Transcarpathian roses, entitled “Enumeratio Rosarum sponte crescentium Carpatorum septentrionali-orientalium”, although completed, remained in manuscript form, and is deposited in the Hungarian Natural History Museum (PIFKÓ and LÖKÖS 2010). Recently, two

new taxa of *Rosa* were published with the authorship of Margittai by KERÉNYI-NAGY (2012). Margittai's taxonomic studies on the *Elatine* L. species were published in three papers (MARGITTAI 1928, 1930, 1939).

Gyula Gáyer (1883–1932) helped him in the taxonomic studies on *Rubus* L. (GÁYER 1930), and János (Johannes) Wagner (1870–1955) in those of *Centaurea* L. (MARGITTAI 1932).

Margittai's research publications appeared in 35 papers, but a number of his studies are still unpublished manuscripts (ANDRIK *et al.* 2011, PIFKÓ and LÖKÖS 2010).

The herbarium and manuscripts of Antal Margittai were transferred from Munkács (Mukachevo, Ukraine) to the Hungarian Natural History Museum in Budapest after his death in 1939. Thanks to the intensive collecting activity his private collection reached a considerable size of *ca* 41,500 specimens. Throughout his life he also collected many specimens for the well-known series of duplicates "Flora Hungarica exsiccata". Of this material a total of 5,000 duplicates were separated and sent to the herbarium of the Kolozsvár University (CLU) in 1941 (PIFKÓ and LÖKÖS 2010). His exchange connections are marked by many Margittai's specimens that reached a number of herbaria: B, BR, BRA, BRNU, DAO, E, EGR, GZU, IBSC, KRA, KW, LIM, M, MPU, NI, PH, PRG, PR, SIB, SO, UBC, ULM, UU, W, WA, WU (ANDRIK *et al.* 2010a, 2011, PIFKÓ and LÖKÖS 2010).

MATERIAL AND METHODS

The list of taxa described by Antal Margittai was compiled from literature sources (GÁYER 1930, KERÉNYI-NAGY 2012, MARGITTAI 1913b, 1914, 1919, 1923, 1927, 1932, 1935a, b, 1937a, b, 1939). All specimens of the herbarium Carpato-Pannonicum (Department of Botany, Hungarian Natural History Museum, BP) were carefully checked for Margittai's taxa, and all possible types and original specimens were selected. Lectotypification was performed from the appropriate type specimen, if A. Margittai did not assign the holotype in his description. Types for the *Rosa* taxa were omitted here, since a revision of the *Rosa* genus was partly done by KERÉNYI-NAGY (2012), and the continuation of his work is planned. In this article all types and original material found after having checked the herbarium are listed, except for the *Rosa* specimens. Lectotypes were selected only for the validly published taxa. Specimens related to invalidly published taxa were treated as original material without any typification.

The protologue, the text of the label (t.s.) and the current names of settlements are also given for the designated type specimens.

RESULTS

Altogether 64 plant taxa were described by A. Margittai, 60 of which were validly published and 4 remained *nomina nuda*. Two of the 40 Margittai's *Rosa* taxa were published after his death (KERÉNYI-NAGY 2012); the descriptions of both taxa are given together with the designation of their holotype specimen.

Lectotypes of 10 taxa of *Rosa* (*R. canina* L. var. *albida* Margittai, *R. canina* var. *inaequalifolia* Margittai, *R. canina* var. *katarinae* Margittai, *R. canina* var. *lanceolata* Margittai, *R. canina* var. *longifolia* Margittai, *R. canina* var. *macrostylis* Borbás f. *glabrescens* Margittai, *R. canina* var. *mankovicsiana* Margittai, *R. canina* var. *multiflora* Margittai, *R. canina* var. *villosistyla* Margittai, *Rosa caryophyllacea* Besser var. *parvyana* Margittai et Kupcsok) were designated by KERÉNYI-NAGY (2012).

List of taxa described by Antal Margittai

- Carduus* × *fatrae* Margittai, Magyar Bot. Lapok 13: 79 (1914)
Carduus lobulatus Borbás f. *glaberrima* Margittai, Magyar Bot. Lapok 25: 225 (1927)
Carduus lobulatus Borbás f. *setifrons* Margittai, Magyar Bot. Lapok 25: 225 (1927)
Carduus turocensis Margittai, Magyar Bot. Lapok 13: 79 (1914)
Carduus turocensis Margittai var. *pseudocrispus* Margittai, Magyar Bot. Lapok 13: 79 (1914)
Carduus turocensis Margittai var. *superglaucus* Margittai, Magyar Bot. Lapok 13: 79 (1914)
Carex gracilis Curtis var. *basigyna* Margittai, Magyar Bot. Lapok 25: 221 (1927), nomen nudum
Carex gracilis Curtis var. *melanocarpia* Margittai, Magyar Bot. Lapok 25: 221 (1927)
Carex gracilis Curtis var. *polygama* Margittai, Magyar Bot. Lapok 25: 225 (1927), nomen nudum
Centaurea axillaris Willd. f. *rubriflora* Margittai, Magyar Bot. Lapok 25: 225 (1927), nomen nudum
Centaurea × *beregiensis* J. Wagner et Margittai, Bot. Közlem. 29: 138 (1932)
Centaurea × *beskidiana* J. Wagner et Margittai, Bot. Közlem. 29: 137 (1932)
Centaurea × *munkacsensis* J. Wagner et Margittai, Bot. Közlem. 29: 138 (1932)
Elatine triandra Schkuhr f. *pedicellata* Margittai, Bot. Közlem. 36: 305 (1939)
Elatine triandra Schkuhr f. *typica* Margittai, Bot. Közlem. 36: 305 (1939)
Gagea minima (L.) Ker Gawl. f. *bulbifera* Margittai, Bot. Közlem. 34: 51 (1937), nomen inval.
Hieracium baubini Schult. f. *compositum* Margittai, Sborn. Prír. Klubu Košice 3: 109 (1937)
Hieracium baubini Schult. f. *sarmentiflorum* Margittai, Sborn. Prír. Klubu Košice 3: 109 (1937)
Hypochoeris maculata L. f. *ramosa* Margittai, Sborn. Prír. Klubu Košice 3: 109 (1937)
Kochia laniflora Borbás f. *villosissima* Margittai, Sborn. Prír. Klubu Košice 2: 86 (1935), nomen nudum
Leontodon autumnalis L. f. *pygmeus* Margittai, Sborn. Prír. Klubu Košice 2: 87 (1935)
Leontodon vagneri Margittai, Bot. Közlem. 32: 88 (1935)
Monotropa multiflora Fritsch f. *pauciflora* Margittai, Magyar Bot. Lapok 12: 244 (1913)
Rosa agrestis Savi var. *katarinae* Margittai, Sborn. Prír. Klubu Košice 3: 104 (1937)
Rosa bohémica Heinr. Braun var. *anae* Margittai ex Ker.-Nagy, A Történelmi Magyarország területén élő...: 324. (2012)
Rosa canina L. var. *albida* Margittai, Sborn. Prír. Klubu Košice 3: 102 (1937)
Rosa canina L. var. *biserrata* Mérat f. *villosistyla* Margittai, Sborn. Prír. Klubu Košice 3: 101 (1937)
Rosa canina L. var. *calycifrons* Margittai, Sborn. Prirod. Klubu Košice 3: 106 (1937)

- Rosa canina* L. var. *globularis* (Franch.) Dumort. subvar. *perfrondosa* Margittai et Sabr., Magyar Bot. Lapok 17: 88 (1919)
- Rosa canina* L. var. *inaequalifolia* Margittai, Sborn. Prír. Klubu Košice 3: 101 (1937)
- Rosa canina* L. var. *katarinae* Margittai, Sborn. Prír. Klubu Košice 3: 104 (1937)
- Rosa canina* L. var. *lanceolata* Margittai, Sborn. Prír. Klubu Košice 3: 104 (1937)
- Rosa canina* L. var. *longifolia* Margittai, Sborn. Prír. Klubu Košice 3: 105 (1937)
- Rosa canina* L. var. *macrostylis* Borbás f. *glabrescens* Margittai, Sborn. Prír. Klubu Košice 3: 103 (1937)
- Rosa canina* L. var. *mankovicsiana* Margittai, Sborn. Prír. Klubu Košice 3: 102 (1937)
- Rosa canina* L. var. *multiflora* Margittai, Sborn. Prír. Klubu Košice 3: 102 (1937)
- Rosa canina* L. var. *polyflora* Margittai, Sborn. Prír. Klubu Košice 3: 101 (1937)
- Rosa canina* L. var. *subobtusifrons* Margittai et Kupcsok, Magyar Bot. Lapok 17: 87 (1919)
- Rosa canina* L. var. *villosistyla* Margittai, Sborn. Prír. Klubu Košice 3: 101 (1937)
- Rosa caryophyllacea* Besser var. *parvyana* Margittai et Kupcsok, Magyar Bot. Lapok 17: 85 (1919)
- Rosa coriifolia* Fr. var. *barsensis* Margittai et Sabr., Magyar Bot. Lapok 17: 92 (1919)
- Rosa coriifolia* Fr. var. *slovenica* Margittai, Sborn. Prír. Klubu Košice 3: 105 (1937)
- Rosa dumetorum* Thuill. var. *beskidiana* Margittai, Supplements to the flora of Podkarpatska Rus 1923: 76 (1923)
- Rosa dumetorum* Thuill. var. *corymbosa* Margittai, Supplements to the flora of Podkarpatska Rus 1923: 77 (1923)
- Rosa dumetorum* Thuill. var. *grandifrons* Margittai, Sborn. Prír. Klubu Košice 3: 104 (1937)
- Rosa dumetorum* Thuill. var. *piligera* Margittai, Supplements to the flora of Podkarpatska Rus 1923: 78 (1923)
- Rosa dumetorum* Thuill. var. *sarisensis* Margittai, Sborn. Prír. Klubu Košice 3: 103 (1937)
- Rosa dumetorum* Thuill. var. *solstitialis* Besser f. *leiostyla* Margittai, Sborn. Prír. Klubu Košice 3: 103 (1937)
- Rosa dumetorum* Thuill. var. *sorosensis* Margittai, Supplements to the flora of Podkarpatska Rus 1923: 79 (1923)
- Rosa dumetorum* Thuill. var. *transiens* Margittai, Sborn. Prír. Klubu Košice 3: 103 (1937)
- Rosa glauca* Vill. var. *bresevicensis* Margittai, Sborn. Prír. Klubu Košice 3: 103 (1937)
- Rosa glauca* Vill. var. *pilosula* Crist. f. *brevipedunculata* Margittai, Sborn. Prír. Klubu Košice 3: 104 (1937)
- Rosa glauca* Vill. var. *trichostyla* Margittai, Sborn. Prír. Klubu Košice 3: 106 (1937)
- Rosa micrantha* Borrer var. *perparva* Borbás f. *suprahirta* Margittai et Sabr., Magyar Bot. Lapok 17: 85 (1919)
- Rosa nitidula* Besser var. *barsensis* Margittai et Sabr., Magyar Bot. Lapok 17: 89 (1919)
- Rosa nitidula* Besser var. *rotundifolia* Margittai, Magyar Bot. Lapok 17: 89 (1919)
- Rosa pendulina* L. var. *setosa* (Ser.) R. Keller f. *decalvata* Margittai, Sborn. Prír. Klubu Košice 3: 104 (1937)
- Rosa pimpinellifolia* L. × *R. pendulina* L. var. *margarethae* Margittai, Magyar Bot. Lapok 17: 94 (1919)
- Rosa pimpinellifolia* L. × *R. pendulina* L. var. *margarethae* Margittai f. *glabra* Margittai, Magyar Bot. Lapok 17: 94 (1919)
- Rosa pimpinellifolia* L. × *R. pendulina* L. var. *margarethae* Margittai f. *seticarpa* Margittai, Magyar Bot. Lapok 17: 94 (1919)
- Rosa tomentosa* Sm. var. *beregiensis* Margittai, Supplements to the flora of Podkarpatska Rus 1923: 74 (1923)
- Rosa tomentosa* Sm. var. *micans* Déségl. f. *submicans* Margittai et Sabr., Magyar Bot. Lapok 17: 84 (1919)

Rosa zalana Wiesb. var. *zempleniensis* Margittai ex Ker.-Nagy, A Történelmi Magyarország területén élő...: 343 (2012)

Rubus munkacsensis Gáyer et Margittai in Gáyer, Magyar Bot. Lapok 28: 161 (1930)

Type material of Margittai's taxa

Carduus lobulatus Borbás f. *setifrons* Margittai, 1927, Magyar Bot. Lapok 25: 225.

Protologue: "Hab. in m. Drjenok et in valle Zsarnovica et Raksa".

Lectotype (designated here): Slovakia, Žilinský kraj, Turčianske Teplice (Stubnyafürdő), Drieňok mt., 15.07.1914, A. Margittai, BP 696783. **t.s.:** "Carduus lobatus Borb. f., a levél ereken szőrös [leaves hairy on veins], in m. Drjenok, com. Turócz [Turóc County]". Lectotype designated by D. Pifkó, M. Shevera, O. Optasyuk.

Carduus turocensis Margittai var. *superglaucus* Margittai, 1914, Magyar Bot. Lapok 13: 79 (= *C. crispus* L. × *C. glaucus* Baumg.).

Protologue: "Crescit inter parentes in silvis caeduis in parte superiore vallium Raksa, Nedor et Zsarnovicza".

Lectotype (designated here): Slovakia, Banskobystrický kraj, Žarnovica (Zsarnóca), Zarnovica valley, 15.07.1914, A. Margittai, BP 220704. **t.s.:** "Carduus turocensis Marg. var. superglaucus Marg., In valle Zsarnovica com. Turocz, 900 m". Lectotype designated by D. Pifkó, M. Shevera, O. Optasyuk.

Isolectotypes: BP 178222. Specimen authentic: BP 711204 (a former alternative number BP 495122 was used in the Herbarium Generale).

Carex gracilis Curtis var. *polygama* Margittai, 1927, Magyar Bot. Lapok 25: 225, nomen nudum.

Protologue: "Mocsaras réten, Turóctölgyes mellett" [in wet meadow near Turóctölgyes].

Specimen authenticum: Slovakia, Žilinský kraj, Dubové (Turóctölgyes), c. 500 m, 05.1916, A. Margittai, BP 487040. **t.s.:** "Carex gracilis lusus polygama m., In pallude pr. Turóc Tölgyes, com. Turóc, c. 500 m".

Centaurea × beregiensis J. Wagner et Margittai, 1932, Bot. Közlem. 29: 138 (= *C. indurata* Janka × *C. carniolica* Host).

Protologue: "Hab. inter parentes in graminosis montis Nagyhegy, ad Munkács".

Lectotype (designated here): Ukraine, Transcarpathia Reg., Mukacheve (Munkács), gora Velyka (Nagy-hegy), 23.08.1930, A. Margittai, BP 247999. **t.s.:** "Centaurea beregiensis Wagn. et Marg., C. indurata × C. carniolica, Hab. Nagyhegy, Munkács". Lectotype designated by M. Shevera, O. Optasyuk.

Isolectotypes: BP 77129, BP 248000, BP 396796. Specimen authentic: BP 273882.

Centaurea × *beskidiana* J. Wagner et Margittai, 1932, Bot. Közlem. 29: 137
(= *C. melanocalathia* Borbás × *C. indurata* Janka).

Protologue: “Hab. in pratis montanis in alp. Plaj ad Volocz, in alp. Pikuj ad Serbocz, ad Zanykam, Puznyakfalva, Holubina, in valle Zsdimir ad Vocsi com Bereg”.

Lectotype (designated here): Ukraine, Transcarpathia Reg., Vovchyy (Vocsi), Zdimir valley, 400 m, 11.09.1930, A. Margittai, BP 396797. **t.s.:** “*Centaurea beskidiana* Marg. et Wagn. *C. melanocalathia* Borb. – *C. indurata*, in valle Ždimir, Bereg [Bereg county]”. Lectotype designated by M. Shevera, O. Optasyuk.

Isolectotypes: BP 247078, BP 396799. Specimina authentica: BP 487835, BP 273785, BP 0492797, BP 396798, BP 484776, BP 484792, BP 247672.

Centaurea × *munkacsensis* J. Wagner et Margittai, 1932, Bot. Közlem. 29: 138
(= *C. nigrescens* Willd. × *C. carniolica* Host). (Fig. 1).

Protologue: “Hab. inter parentes in graminosis m. Nagyhegy ad Munkács”.

Lectotype (designated here): Ukraine, Transcarpathia Reg., Mukacheve (Munkács), gora Velyka (Nagy-hegy), 23.08.1930, A. Margittai, BP 399310. **t.s.:** “*Centaurea munkacsensis* Marg. et Wagn., *C. nigrescens* × *C. carniolica*, Hab. Nagyhegy, Munkács”. Lectotype designated by M. Shevera, O. Optasyuk.

Isolectotype: BP 246669 (without locality data). Paratype: BP 246632 (date: 02.09.1930). Specimina authentica: BP 484809, BP 484756, BP 484754.

Gagea minima (L.) Ker Gawl. f. *bulbifera* Margittai, 1937, Bot. Közlem. 34: 51,
nomen inval.

Protologue: “1917-ben újból megtaláltam a Városi erdőben Munkács mellett” [I found it again in the Városi-erdő at Munkács in 1917].

Specimen authenticum: Ukraine, Transcarpathia Reg., Mukacheve (Munkács): “Városi erdő”, c. 120 m, 04.1917, A. Margittai, BP 26938. **t.s.:** “*Gagea pusilla* (L.) R. et Sch., a hagyma alján számos hagymácskával [bulbs with several terminal bulbils], in Városi erdő, pr. Munkács, com. Bereg, c. 120 m, 04.1917”.

Note. This name was published by Margittai (1937a) as a synonym of *Gagea spathacea* Salisb.

Hypochoeris maculata L. f. *ramosa* Margittai, 1937, Sborn. Prír. Klubu Košice 3: 109.

Protologue: “Vlastnú čiernu horu úplne vypásajú, tiež aj časť Pavlišovej. Na väčšej časti až ku končiaru sú lúky ... Na takýchto lúkách sbieral som: ...” [Mt čiernu (Fekete-hegy) is grazed all over, just as in the case of Mt Pavlišová. There are meadows almost up to the top ... I collected it in such meadows ...].

Lectotype (designated here): Slovakia, Sabinov District, Brezovica (Berzevice), montis Paulišovo-vrch, 07.07.1933, A. Margittai, BP 484934. **t.s.:** “*Hypochoeris maculata* L. f. *ramosa* Marg., Hab. in pratis subalpinis montis Paulišovo Vrch ad Berzevice, Sáros c. 1000 m”. Lectotype designated by D. Pifkó, M. Shevera, O. Optasyuk.



Fig. 1. Lectotype of *Centaurea x munkacsensis* J. Wagner et Margittai, BP 399310 (photo by Balázs Pintér).

Kochia laniflora (S. G. Gmel.) Borbás f. *villosissima* Margittai, 1935, Sborn. Prír. Klubu Košice 2: 86., nomen nudum.

Protologue: “...Takýto piesok sa začína pri strážnici medzi stanicou v Somotori a Stredou n. B. a zasahuje bezmála do polovice Tarbucky” [the sandy area begins at the watchman’s house between railway stations Somotor and Streda nad Bodrogom and extends almost as far as to middle of Tarbucka].

Specimina authentica: Slovakia, Košický kraj, Somotor (Szomotor), 25.07.1931, A. Margittai, BP 47117, BP 476278. **t.s.:** “*Kochia laniflora* (Gmel.) Borb. f. *villosissima* Marg., Hab. in arenosis apud Szomotor, Zemplén, a typo differt caulibus et foliis praecipue ad plautas iuniores valde villosis”, **rev.:** P. Eliáš (2012) as *Bassia laniflora* (S. G. Gmel.) A. J. Scott.

Leontodon autumnalis L. f. *pygmeus* Margittai, 1935, Sborn. Prír. Klubu Košice 2: 87.

Protologue: “Vrchol Tarbucky ponad ... na pastviskách ...” [top of Tarbucka ...on pastures...].

Lectotype (designated here): Slovakia, Košický kraj, Somotor (Szomotor), 19.08.1933, A. Margittai, BP 484998. **t.s.:** “*Leontodon autumnalis* L. f. *pygmeus* Marg., Hab. in arenosis montis Tarbucka Szomotor, Zemplén“. Lectotype designated by D. Pifkó, M. Shevera.

Note. A Latin diagnosis is given on the label of the specimen.

Rubus munkacsensis Gáyer et Margittai, 1930, Magyar Bot. Lapok 28: 161.

Protologue: “in m. Csernek ad Munkács”.

Lectotype (designated here): Ukraine, Transcarpathia Reg., Mukacheve (Munkács), mount Csernek, 01.07.1927, A. Margittai, BP 85041. **t.s.:** “*Rubus munkacsensis* Gáy. et Marg., in m. Csernek ad Munkács”, **rev.:** B. Trávníček (2013) as *Rubus* ser. *Radula*. Lectotype designated by D. Pifkó, M. Shevera, O. Optasyuk.

Note. A short Latin diagnosis written by Gy. Gáyer is given on the label of the specimen.

DISCUSSION

Antal Margittai is one of the historically most important Transcarpathian botanists. His herbarium is still a very important source of the flora of Transcarpathia and Ukraine (ANDRIK *et al.* 2010b). His botanical achievements are highly respected in his mother country – Hungary – even today (ANDRIK *et al.* 2010a, 2011). His contribution to floristics, and his taxonomic studies on critical taxa and hybrids make his work very valuable. Several interesting forms and hybrids were described by him from Transcarpathia, as well as from within the recent borders of Slovakia. His monographic treatment of the Transcarpathian *Rosa* taxa is a very useful source for rhodologists even today (cf. KERÉNYI-NAGY 2012). However, Margittai’s taxa were omitted from the recently published flora works, like the Slovak Flora (BERTOVÁ 1992, GOLIAŠOVÁ and ŠÍPOŠOVÁ 2008) or the Checklist of Ukraine (MOSYAKIN and FEDORONCHUK 1999), which is due to that Margittai’s

publications received less attention up to recent years, or because Margittai's described forms, varieties and hybrids were considered primarily of local interest. In light of the aspects of biodiversity, this attitude should be revised.

Type specimens of 8 taxa out of the 21 validly published taxa by Margittai (excluding those of *Rosa*) were located in the herbarium of the Hungarian Natural History Museum (BP). Type specimens of the remaining 12 Margittai's taxa could not be localised here, and we conclude that those might be found among Margittai's other collections dispersed in various (foreign) herbaria.

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