

UDC 579

DOI: 10.24412/2072-8816-2022-16-1-111-118

## TYPE SPECIMENS IN THE HERBARIUM OF UNIVERSITY OF TARTU (TU). 2. MONOCOTYLEDONES

© 2022 S.R. Mayorov<sup>1</sup>, A.V. Shcherbakov<sup>1</sup>, O.S. Grinchenko<sup>2</sup>

<sup>1</sup>*Moscow State University, Dept. of the Higher Plants  
1–12, Leninskie Gory, Moscow, 119234, Russia  
e-mail: saxifraga@mail.ru, shch\_a\_w@mail.ru,*

<sup>2</sup>*Water Problems Institute RAS  
3, Gubkina st., Moscow, 119333, Russia  
e-mail: o.grinchenko2017@yandex.ru*

**Abstract.** This article provides information on the monocotyledons sampling found in the Herbarium of the University of Tartu (TU), 34 of which are types for 31 taxa, 11 are presumably types for 11 taxa, 4 are nomina provisoria for the 4 taxa, and 3 were collected in locus classicus of 3 taxa.

**Key words:** types of plants taxa; Herbarium of the University of Tartu.

**Submitted:** 12.10.2021. **Accepted for publication:** 01.03.2022.

**For citation:** Mayorov S.R., Shcherbakov A.V., Grinchenko O.S. 2022. Type specimens in the Herbarium of the University of Tartu (TU). 2. Monocotyledones. — *Phytodiversity of Eastern Europe*. 16(1): 111–118. DOI: 10.24412/2072-8816-2022-16-1-111-118

### INTRODUCTION

After we began a purposeful search for the type specimens in the collections of the Herbarium of the University of Tartu, we discovered new interesting materials on the monocotyledons flowering plants (Mayorov et al., 2022).

This article is divided into 4 sections as in the previous one (Mayorov et al., 2022). The first section contains taxa with an accurately determined type status of the specimens.

The second one contains taxa, which specimens are considered types, although we could not specify this for sure.

The third section contains information on the specimens that were marked as the type ones for the further description of the new taxa, which had never been completed for some reasons.

And finally, the fourth section contains sampling, carried out in “locus classicus”.

In each section, the taxa are listed alphabetically in the following order: families, genera, species, infraspecific taxa. Each specimen has its individual number. For every Russian label a translation is given with a following note: [In Rus.].

### TYPES

#### Alliaceae

*Allium dolichomischum* Vved. 1971, *Opred. Rast Sred. Azii*, 2: 312.

Isotypus (TU286165): Herbarium flora USSR..., 5437. Uzbekistania, ad declivia abrupta argilloso-arenosa rubra gypsacea prope pag. Sina in promontoriis montium Tschulbair, leg. A. Vvedensky, 30.V.1929.

Protologue: the same.

***Allium lutescens*** Vved. 1971, *Opred. Rast Sred. Azii*, 2: 312.

Isotypus (TU286167): Herbarium flora USSR..., 5440. Kaxachstania, Tian-Schan occidentalis, jugum Alatau Talassici, ad declivia versus fl. Maschat prope pag. Antonovka, leg. E. Mokeeva et I. Linczevski. 20.V.1927.

Protologue: the same.

***Allium nevskianum*** Vved. 1971, *Opred. Rast Sred. Azii*, 2: 316, nom. superfl. [valid was described two years earlier as: *A. nevskianum* Vved. ex Wendelbo 1969, *Bot. Not.*, 122(1): 37].

Isotypus (TU286166): Herbarium flora USSR..., 5434. Uzbekistania, ad declivia saxosa montium Tschulbair ad pedes cacuminis Chodsha-barku, ca. 3000 m s.m., leg. A. Vvedensky, 30.VI.1929.

Protologue: the same.

***Allium transvestiens*** Vved. 1971, *Opred. Rast Sred. Azii*, 2: 315.

Isotypus (TU286164): Herbarium flora USSR..., 5433. Turcomania, Kopetdag, in collibus gypsaceis in loco Parchaj, prope urb. Kara-Kala, leg. A. Maly, M. Popov et A. Vvedensky, 21.VI.1931.

Protologue: the same.

***Allium tuvinicum*** (Friesen) Friesen 1987, *Flora Sibiriae (Araceae – Orchidaceae)*: 75.

Isotypus (TU286168): Herbarium flora USSR..., 6637. Tuva, distr. Mongut-Taiga, prope pag. Kyzyl-Chai, ad prolongamentum montis Eren-Karacz, in steppa agropyrosa, leg. N. Friesen, 3.VIII.1982.

Protologue: the same.

#### **Amaryllidaceae**

***Ungernia victoris*** Vved. ex Artjush. 1970, *Amaryllis (Amaryllidaceae) Jaume St.-Hilaire* USSR: 31.

Isotypus (TU286180): Herbarium flora USSR..., 6252. *Ungernia victoris* Vved. Uzbekistania, ad declivia argillosa montium Tschulbair supra pag. Sina, 6.VIII.1930, leg. V. Botschantzev et A. Vvedensky.

Protologue: the same.

#### **Asphodelaceae**

***Eremurus iae*** Vved. 1941, *Fl. Uzbekist.*, 1: 541.

Isotypus (TU286169): Herbarium flora USSR..., 5450. Uzbekistania, ad declivia argilloso-saxosa septentrionalia in montibus Tschulbair supra pag. Sina, leg. A. Vvedensky, 3.VI.1929.

Protologue: the same.

#### **Colchicaceae**

***Colchicum varians*** Freyn et Bornm. 1897, *Bull. Herb. Boissier*, 5(10): 801.

Isotypi (TU286160, TU286161): J. Bornmüller: *Iter Persico-Turcicum*, 1892–93, No 4729. *Colchicum varians* Freyn et Bornm. sp. n. Persia, inter Kom and Sultanabad in montibus ad pagum Raguird, 1600 m s.m., 6/7.III.1892, leg. et determ. J. Bornmüller.

Protologue: Persia occid. in montibus prope pagum Ragnird inter Kom et Sultanabad 1600–1800 m. supra mare die 6 et 7 martio 1892, leg. Bornmüller! (exsic. ex itinere Pers.-Turcico, No 4729).

***Merendera kurdica*** Bornm. 1899, Bull. Herb. Boissier, 7: 79.

Isotypus (TU286157): J. Bornmüller: Iter Persico-Turcicum, 1892–93, No 1840. *Merendera kurdica* Bornm. sp. n. Kurdistania Assyriaca: in montis Helgurd (ad fines Pers.) regione alpine, 3000 m s.m., 26.VI.1893, leg. et determ. J. Bornmüller.

Protologue: Assyria orientalis (Kurdistania): Riwandous, in alpe Helgurd, prope nives deliquescentes, alt. 3100 m s.m., 26.VI.1893 legi (Bornm., iter Persico-Turcicum, 1892–93, exs. No. 1840).

### Hyacinthaceae

***Ornithogalum tempkyanum*** Fr. et Sint. 1896, Bull. Herb. Boissier, 4(3): 188.

Isotypi (TU286149, TU286150): P. Sintensis: Iter orientale, 1894. No. 6262. *Ornithogalum tempkyanum*. Armenia turcica, Sznschak Gümüşkhale, Stadodopi, in pratis uliginosus, 10.VII.94, determ. J. Freyn.

Protologue: Armenia turcica, Gümüşkhane: in pratis humidis subalpinis ad Stadodopi die 10 julio 1894, florentem, leg. Sintensis (exs. 6262).

### Iridaceae

***Juno parvula*** Vved. 1963, Fl. Tadzhiisk. SSR, 2: 425.

Isotypus (TU286179): Herbarium flora USSR..., 5447. Uzbekistania, ad declivia argilloso-saxosa montium Tschulbair supra pag Sina, ca. 2600 m s.m., 23.V.1929, leg A. Vvedensky.

Protologue: E montibus Czulbair prope pagum Sina descripta est.

***Juno subdecolorata*** (Vved.) Vved. 1941, Fl. Uzbekist., ed. Schreder i.: 516.

Isotypus (TU286178): Herbarium flora USSR..., 5448. Uzbekistania, in collibus argillosis prope urb. Taschkent, leg A. Vvedensky, 1928.III.25.

Protologue: Tashkent Obl. [In Rus.].

***Juno vicaria*** Vved. 1963, Fl. Tadjikist., 2: 425.

Isotypus (TU286177): Herbarium flora USSR..., 5449. Uzbekistania, inter lapides ad declivia saxosa in montibus Hissaricus supra pag. Schargun, ca. 1250 m s.m., leg A. Vvedensky, 4.IV.1928.

Protologue: E jugo Hissarico prope Schargun descripto est.

### Juncaceae

***Luzula altissima*** Turcz. ex Ledeb. 1852, Fl. Ross., 4(12): 217, pro syn.

Lectotypus (TU286130)!: *Luzula altissima* mihi. Near Bukhat bare mountain [in Rus.], Turczaninoff, 1828.

### Liliaceae

***Fritillaria ophioglossifolia*** Fr. et Sint. 1896, Bull. Herb. Boissier 4(3): 183.

Isotypi (TU286154, TU286155): P. Sintensis: Iter orientale, 1894. No. 5535. Fr. a Sint. n. sp. Armenia turcica, Szandschak, Gümüşkhane, Argyridagh, V–VI. 1894 and 15.V.1894, det. J. Freyn.

Protologue: Armenia turcica, Gümüşkhane, in glareosis montis Argyridagh die 15 majo, florentem et junio 1894, fructiferam legit Sintenis (exs. 5535).

***Gagea alexeenkoana*** Misczenko var. *minus* Misczenko 1913, Fl. Caucas. Crit., 2 (4): 173.

Holotypus (TU286122)!: Plantae Caucasicae. *Gagea Alexeenkoana* m. var. *minus* m. Dagestan, Eisen Am, on the slope, [in Rus.], VI.1895, leg. P. Desuolavy, [det.] Mishchenko [in Rus.] (Plantae Caucasicae).

Protologue: A.O. Eisen Am, on the slope, VI.[18]95, Desuolavy. [In Rus.].

***Gagea graminifolia*** Vved. 1932, Fl. of Turkmen., 1(2): 269.

Isotypus (TU286171): Herbarium flora USSR..., 5513. Uzbekistania, in collibus argillosis prope urb. Taschkent, leg. et det. A. Vvedensky, 25.III.1925.

Protologue: Clay deserts and mountain and mountain semi-deserts of the southern part of Central Asia. [In Rus.].

***Gagea praemixta*** Vved. 1977, Spisok Rast. Gerb. Fl. USSR, Bot. Inst. Vsesojuzn. Akad. Nauk, 21: 9.

Isotypus (TU286170): Herbarium flora USSR..., 5516. Uzbekistania, in hortis secus canalem Boz-Su, prope urb. Taschkent, leg. et det. A. Vvedensky, 17.III.1924.

Protologue: the same.

***Gagea soleimani*** Bornm. 1908, Bull. Herb. Boissier, Ser. 2, 8(10): 730.

Isotypus (TU286156): J. Bornmüller: Iter Persico alterum. 1902. No 8299. *Gagea soleimani* Bornm. sp. n. Persia Borealis: m. Elburs, in alpe Tachti-Soleiman, ad nives prope Häartschal, 40–4100 m. s.m., 29.VI.1902, leg. et determ. J. et A. Bornmüller.

Protologue: the same.

***Gagea sulfurea*** Misczenko 1908, Trudy Bot. Sada Imp. Yur'evsk. Univ., 9: 67.

Holotypus (TU286142)!: *Gagea sulfurea* Misczenko m. P. Misczenko. On the slopes of the mountains along the gorge of the Teberdy River near the Klukhor pass of the Kuban region, Batalpashinsky dept., height – 9000 ft., 30.V.1903, (often), leg. A.A. Atamanskikh (№ 152). [In Rus.].

Protologue: V. s. in h. J. [so – Vidi siccum in herbario Jureviensis]. Caucasus, on the slopes of the mountains along the gorge of the Teberdy River near the Klukhor pass, Kuban region, Batalpashinsky dept., often, 30.V.[19]03, 9000', Atamanskikh. [In Rus.].

***Lilium cernuum*** Kom. 1901, Acta Horti Petropolitani, 20: 461.

Isotypus (TU286134): Komarov V. Flora Manshuriae. № 389. *Lilium cernuum* Komarov. Korea septentrionalis, flum. Jalu, VII.1897 (styl. vet.), leg V. Komarov.

Protologue: It grows on grassy mountain slopes along the banks of the upper course of the Yalu River, on clay-stony soil. [In Rus.].

***Lilium pensylvanicum*** Ker.-Gawl. f. *praecox* Vrisch 1970, Spisok Rast. Gerb. Fl. USSR, Bot. Inst. Vsesojuzn. Akad. Nauk, 18: 38.

Isotypus (TU286133): Herbarium flora USSR..., 3104. Prov. Primorje, distr. Anuczinsk, in pratis varieherbosis, leg. D. Vrischz, 12.VI.1967.

Protologue: the same.

***Tulipa androssowii*** Litv. 1908, Sched. Herb. Fl. Ross., 6: 114.

Syntypi (TU286162): Herbarium Florae Rossicae, No. 1895. *Tulipa androssowii* D. Litw. sp. n. Turkestan, disrt. Krassnowodsk, in arenosis pr. st. Perewal, 27.III.1902; ib., pr. st. Aidin (non procul a st. Perewal), 29.IV.1905, leg. N. Androssow.

Protologue: the same.

***Tulipa bifloriformis*** Vved. 1971, Opredelitel Rasteniy Sredney Azii, 2: 320.

Isotypus (TU286172): Herbarium flora USSR..., 5401. Uzbekistania, Tian-Schan occidentalis, in collibus argillosis circa urb. Taschkent, 19.III.1923, leg. M. Popov et A. Vvedensky.

Protologue: the same.

***Tulipa carinata*** Vved. 1971, *Opredelitel Rasteniy Sredney Azii*, 2: 318.

Isotypus (TU286172): *Herbarium flora USSR...*, 5404. Uzbekistania, Pamiro-Alaj, ad declivia argilloso-saxosa humida in montibus Tschulbair supra pag Sina, ca. 2500 m s.m., 23.V.1929, leg A. Vvedensky.

Protologue: the same.

***Tulipa caucasica*** Lipsky 1902, *Sched. Herb. Fl. Ross.*, 4(19): 12–13.

Isotypus (TU286163): *Herbarium Florae Rossicae*, No. 942. *Tulipa caucasica* W. Lipsky sp. n. Caucasus, prov. Kuban, fonts fl. Kuban, Uczkulan, in declivibus montium, 9000'–10000', 24.VI.1900, leg. N. Desoulavy.

Protologue: the same.

***Tulipa mogoltavica*** M. Pop. et Vved. 1971, *Opredelitel Rasteniy Sredney Azii*, 2: 318.

Isotypus (TU286174): *Гербарий флоры СССР...*, 5417. Tadzhikestania, ad declivia saxosa montium Mogol-tau in angustiis fl. Schunluk, 22.IV.1927, leg. I. Granitov, det. A. Vvedensky.

Protologue: Tian-Schan occidentalis. Ad declivia saxosa montium Mogol-tau in angustiis fl. Schunluk, 22.IV.1927, fl. Granitov, 483.

***Tulipa rosea*** Vved. 1971, *Opredelitel Rasteniy Sredney Azii*, 2: 319.

Isotypus (TU286175): *Herbarium flora USSR...*, 5417. Tadzhikestania, in collibus siccissimus gypsaceis prope petroleas “Santo”, 16.VI.1923, leg. M. Popov et A. Vvedensky.

Protologue: the same.

***Tulipa subpraestans*** Vved. 1971, *Opredelitel Rasteniy Sredney Azii*, 2: 318.

Isotypus (TU286176): *Herbarium flora USSR...*, 5420. Planta e bulbis a V. Botschantzev in collibus saxosis prope pag Tut-Kaul ad ripas dextras Vachscha, 1933 lectis in Horto Botanico Universitatis Asiae Mediae enata, leg. Vvedensky, 23.IV.1935.

Protologue: the same.

### Orchidaceae

***Cephalanthera floribunda*** Woronow 1908, *Věstn. Tiflissk. Bot. Sada*, 10: 22.

Isotypus (TU321306): In the oak forest below the vill. of Yeni-Rabat, Batumi reg., Artvin distr., 15.VI.1907, leg. Yu. W.[oronov]. [In Rus.].

Protologue: Habitat in quercetis Artwinensis Transcaucasiae occidentalis: in valle fl. Ardanucz-su infra p. Jeni-Rabat, ubi 17.V.07, flores detecta.

Note: on Voronov's original label is written: «*Cephalanthera floribunda* G. Woron. n. sp.». The name of the geographical point in the protologue and on the label are the same, although they are not written identically. Possibly a typo when publishing the protologue.

***Satyrium rupestre*** Schltr. 1897, *Bot. Jahrb. Syst.*, 24(3): 422.

Isotypus (TU321301): *Distrib. ex Herb. Orchid. R. Schlechter*. No 5870. *Satyrium rupestre* Schltr. sp. S. clfr: Silver River (George), 400, Anno 1894 Nov., leg. P. Schlechter.

Protologue: Kapsches Übergangsgebiet: Auf Felsen am Silver River des Districts George, bei 130 m ü M. (R. Schlechter, n. 5870, blumend im November).

### PERHARS, TYPES

#### Alliaceae

***Allium caesium*** Schrenk 1844, *Bull. Cl. Phys.-Math. Acad. Imp. Sci. Saint-Pétersbourg*, 2: 113.

Original matilial (TU286126): Soongaria: ad flum Dshisdy-Kingir. 14.VII.1842, A.V. Schrenk

Protologue: Hab. ad fluvium Karagandy, nec non in collibus Dshisdy-Kingir.

**Allium flavidum** Ledeb. 1830, Fl. Altaic., 2: 7.

Original matilial (TU286124): *Allium flavidum* Ledebour mihi, Fl. Altaica.

Protologue: Hab. in pratis subalpinis ad fl. Belaja Uba.

**Allium hymenorrhizum** Ledeb. 1830, Fl. Altaic., 2: 12.

Original matilial (TU286123): *Allium hymenorrhizum* Ledebour, mihi, Fl. Altaica

Protologue: Hab. in pratis himidis ad fl. Koksun et Uba.

**Allium subtilissimum** Ledeb. 1830, Fl. Altaic., 2: 22.

Original matilial (TU286122): *Allium subtilissimum* Ledebour, mihi, Fl. Altaica

Protologue: Hab. in campestribus trans fl. Irtysch.

**Allium tulipaefolium** Ledeb. 1830, Fl. Altaic., 2: 9.

Original matilial (TU286128): *Allium tulipaefolium* Ledebour, mihi, Fl. Altaica.

Protologue: Hab. in herbidis ad fl. Irtysch frequentissime v. pr. pagum Krasnojark (L.); inter Buchtarminsk et lacum, qui Noor-Saisan vocatur (M.).

**Allium uliginosum** Ledeb. 1829, Icon. Pl., 1: 20, t. 83.

Original material (TU286121): Ledebour, mihi, Fl. Altaica.

Protologue: Hab. in paludosis ad fl. Belaja Uba.

**Allium viridulum** Ledeb. 1832, Icon. Pl., 4: 22, t. 378.

Original material (TU286127): Ledebour, mihi, Fl. Altaica.

Protologue: Hab. in regione orientali deserti soongoro-kirghisici.

### Hyacinthaceae

**Ornithogalum filiforme** Ledeb. 1830, Fl. Altaic., 2: 30.

Original material (TU286143): *Ornithogalum filiforme* Ledebour, mihi, Fl. Altaica.

Protologue: Hab. in umbrosis humidiusculus circa Buchtarminsk et alibi (M.).

### Iridaceae

**Iris bloudowii** Ledeb. 1833, Fl. Altaic., 4: 331.

Original material (TU286136): *Iris bloudowii* Ledebour, mihi, Fl. Altaica.

Protologue: specific locations of this species are not specified.

### Liliaceae

**Lilium cernuum** Kom. 1901, Acta Horti Petropolitani, 20: 461.

Original material (TU286135): Flora Mandshurica. 4.VIII.1897. Flumen Amnok.-Gan. Korea septentrionalis, provincial Pen-nian, leg. V.L. Komarov.

Protologue: it grows on grassy mountain slopes along the banks of the upper course of the Yalu River, on clay-stony soil. [In Rus.].

**Tulipa tricolor** Ledeb. 1830, Icon. Pl., 2: 13, t. 135.

Original material (TU286145): *Tulipa tricolor* Ledebour, mihi, Fl. Altaica.

Protologue: Hab. in rupestribus ad latera collinum, nec non in planitiebus siccus trans fl. Irtysch frequens.

## NOMINA PROVISORIA

### Asparagaceae

*Ruscus aculeatus* f. *macrophyllus* Woronow

TU286140: *Ruscus aculeatus* f. *macrophyllus* mihi. Abchazia, in querceto prope Suchum-Kale, 10–13.III.1904, G. Woronov.

### Asphodelaceae

*Eremurus squamellatus* Zing. mihi

TU286159: Turkestan, Wernoe, 18\*\*, leg. Scalosubow.

Note: On the label, in Zinger's handwriting, it says: *Eremurus squamellatus* m. E. Bungei Bak. (Boiss. V. 324) proximus, pedicellis crassioribus et perianthii colore diversus. Perianthii folia pellucida squamellis minutis albis obtecta. V. Zinger.

### Iridaceae

*Crocus alexandri* Petr. sp. n., nom. prov.

TU286151: Dr. C. Baenitz, Herbarium Europaeum, No. Flora Serbica: in filicetis Pteridis aquilinae pr. Vranja, 28.II.[18]94, leg. Adamovič.

Note: There was no valid description, as the homonym was probably published soon after: *C. alexandri* Nacic ex Velen. (1894, Sitzungsber. Königl. Böhm. Ges. Wiss. xxxix: 26).

### Liliaceae

*Gagea litwinowii* Golits. sp. nov.

TU286131: *Gagea litwinowii* sp. n. Galichya Gora Nature Reserve, Vodopyanovsky distr., Voronezh Region, mixed-grass-steppe slope between bushes, 30.IV.[19]39, S. Golitsin. [In Rus.].

Note: The specimen was acquired to the Herbarium of the Voronezh State University on the eve of the Great Patriotic War, taken to Germany and after repatriation (Shcherbakov et al., 2017) sent by mistake to the University of Tartu.

## SPECIMENS COLLECTED IN LOCUS CLASSICUS (TOPOTYPES)

### Hyacinthaceae

*Ornithogalum degenianum* Polgár 1928, Magyar Bot. Lapok, 27: 20.

Topotypus (TU286182): Flora Hungarica exsiccate. Cent. X. Angiospermae, 553. 992. *Ornithogalum degenianum* Polgár Comit. Veszprém, in herbis ad viam prope pag. Papakovaesi, gregarie crescens, dum ibidem non procul itiam *O. umbellatum* L. et *O. boucheanum* (Kth.) Aschers., sporadice provenit, quarum planta nostra proles hybrid esse videtur. 4.V.1930. Locus classicus. leg. S. Polgár et S. Járovka.

### Iridaceae

*Iris lactea* Pall. 1776, Reise Russ. Reich, 3: 713.

Topotypus (TU286184): Herbarium flora USSR..., 6641. Prov. Chita, distr. Borzja, ad ripam lacus Zun-Torei, leg. et det. V. Doronkin, 6.VI.1980.

Protologue: in desertis aridis circa lacum Tarei Dauriae.

### Liliaceae

*Gagea ugamica* Pavl. 1950, Vestnik Akad. Nauk Kazak. SSR, 3(60): 25.

Topotypus (TU286183): Herbarium flora USSR..., 4503. Tian-Schan Occidentalis, jugum Ugamicum, in faucibus fl. Kajnar-Saj, in prato ad nives deliquescentes, 2000 m s.m., leg. V. Pavlov, 21.V.1958.

Protologue: Prov. Austro-Kazachstania, montes Ugamenses, sub maculas nivales ad summos montium, № 248, 20.VI 1949, fl., leg. B. Bykov, in Herb. Acag. Scient. Kazachstanicae, urb. Alma-Ata, conservatur.

#### ACKNOWLEDGEMENTS

This work was carried out within the State Assignment of Lomonosov Moscow State University, project No. 0110-12-2-21, and of Water Problems Institute, project No. FMWZ-2022-0002 “Researching the Geocological Processes in the Hydrological Land Systems, Quality Formation of the Surface and Ground Waters, Problems of Water Resources Management and Water Use under the Climate Change and Anthropogenic Impact”. The authors thanks Ü. Reier, K. Orav (University of Tartu, Estonia) for help in research.

#### REFERENCES

- Mayorov S.R., Shcherbakov A.V., Yurtseva O.V. 2022. Type specimens in the Herbarium of the University of Tartu (TU). 1. Dicotyledones. — *Phytodiversity of Eastern Europe*: 16(1): 99–110. DOI 10.24412/2072-8816-2022-16-1-99-110
- Shcherbakov A.V., Agafonov V.A., Reier Ü, Negrobov V.V., Bedenko A.B. 2017. History of the Herbarium of the Voronezh State University (VOR) in the first half of the XX century. — *Bull. of the Voronezh State Univ., Ser.: Chemistry. Biol. Pharmacy*: 2: 43–47. (In Russ.).