

Pavol Jozef Šafárik University in Košice

Botanical Garden



Index Seminum 2022

Lenka Mártonfiová (ed.)

Košice 2022

Index Seminarum 2022

Botanical Garden of Pavol Jozef Šafárik University, Košice, Slovakia

Editor: RNDr. Lenka Mártonfiiová, PhD.
Botanical Garden of Pavol Jozef Šafárik University, Košice, Slovakia

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Seeds collected from wild plants in natural localities in Slovakia

	Taxon name	Locality	Collection date
1.	<i>Abutilon theophrasti</i> Medik.	East Slovakia, town of Košice, building disposal site near the gravel pit in Krásna, N 48°40'01.14", E 21°18'21.79"	15 th October 2021
2.	<i>Agrimonia eupatoria</i> L.	East Slovakia, town of Košice, Popradská Str., close to the leisure centre Domino, lawn below the slope, N 48°42'18.98", E 21°13'48.75"	13 th August 2021
3.	<i>Amaranthus retroflexus</i> L.	East Slovakia, town of Košice, Tvrdošínska Str., heap of soil in the building site, N 48°42'14.56", E 21°13'25.73"	19 th August 2021
4.	<i>Ambrosia artemisiifolia</i> L.	East Slovakia, town of Košice, building disposal site near the gravel pit in Krásna, N 48°40'01.14", E 21°18'21.79"	15 th October 2021
5.	<i>Amorpha fruticosa</i> L.	East Slovakia, town of Košice, building disposal site near the gravel pit in Krásna, N 48°40'01.14", E 21°18'21.79"	15 th October 2021
6.	<i>Anagallis arvensis</i> L.	East Slovakia, town of Košice, path from Horný Bankov to KVP housing estate, meadow N 48°43'58.30", E 21°12'50.31"	26 th August 2021
7.	<i>Anthericum ramosum</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'11.26" E 20°50'24.96"	7 th September 2021
8.	<i>Arrhenatherum elatius</i> (L.) P. Beauv ex J. Presl et C. Presl	East Slovakia, town of Košice, Popradská Str., close to the crossroads with Žilinská Str., lawn adjacent to the pavement, N 48°42'26.06", E 21°13'45.69"	2 nd July 2021
9.	<i>Atriplex sagittata</i> Borkh.	East Slovakia, town of Košice, building disposal site near the gravel pit in Krásna, N 48°40'01.14", E 21°18'21.29"	15 th October 2021
10.	<i>Ballota nigra</i> L.	East Slovakia, town of Košice, Breznianska Str., uncultivated area close to a new-built house, N 48°42'14.73", E 21°13'30.04"	25 th August 2021
11.	<i>Barbarea vulgaris</i> W. T. Aiton.	East Slovakia, town of Košice, behind Optima shopping centre, ruderalized meadow, N 48°41'48.71", E 21°14'19.99"	19 th August 2021
12.	<i>Briza media</i> L.	East Slovakia, town of Košice, path from Horný Bankov to KVP housing estate, meadow, N 48°44'24.43", E 21°12'31.78"	5 th July 2021
13.	<i>Campanula moravica</i> (Spitzn.) Kovanda	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'13.31", E 20°50'27.91"	7 th September 2021
14.	<i>Campanula moravica</i> (Spitzn.) Kovanda	East Slovakia, Stredné Pohornádie, estates of the village of Obišovce, Pažiť meadow, N 48°51'24.05", E 21°14'15.21"	10 th September 2021
15.	<i>Campanula rapunculoides</i> L.	East Slovakia, town of Košice, Slovenského Str., slit along a wall, N 48°44'10.60", E 21°14'34.66"	13 th August 2021
16.	<i>Capsella bursa-pastoris</i> (L.) Medik.	East Slovakia, town of Košice, the park Anička, lawn between the pavement leading from the University of Veterinary Medicine and Pharmacy and the brook, N 48°44'34.22", E 21°15'00.08"	2 nd June 2021

17.	<i>Capsella bursa-pastoris</i> (L.) Medik.	East Slovakia, town of Košice, Kostolianska Str., close to the fence of University of Veterinary Medicine and Pharmacy, lawn, N 48°44'23.60" E 21°14'47.52"	2 nd June 2021
18.	<i>Capsella bursa-pastoris</i> (L.) Medik.	East Slovakia, town of Košice, Breznianska Str., uncultivated area close to the street, N 48°42'16.25", E 21°13'27.29"	11 th June 2021
19.	<i>Cichorium intybus</i> L.	East Slovakia, town of Košice, Levočská Str., slit along the road, N 48°42'09.70" E 21°13'24.96"	13 th August 2021
20.	<i>Cirsium vulgare</i> (Savi) Ten.	East Slovakia, town of Košice, crossroads of the streets Topoľčianska and Breznianska, road margin, N 48°42'14.91", E 21°13'29.73"	13 th August 2021
21.	<i>Clinopodium vulgare</i> L.	East Slovakia, Stredné Pohornádie, estates of the village of Obišovce, Pažiť meadow, N 48°51'23.88", E 21°14'15.34"	10 th September 2021
22.	<i>Datura stramonium</i> L.	East Slovakia, town of Košice, building disposal site near the gravel pit in Krásna, N 48°40'01.14", E 21°18'21.79"	15 th October 2021
23.	<i>Daucus carota</i> L.	East Slovakia, town of Košice, ruderalized grassy area behind Optima Shopping Centre, N 48°41'47.69", E 21°14'20.84"	19 th August 2021
24.	<i>Descurainia sophia</i> (L.) Webb ex Prantl	East Slovakia, town of Košice, Breznianska Str., uncultivated area close to the street, N 48°42'16.12", E 21°13'27.53"	11 th June 2021
25.	<i>Dipsacus fullonum</i> L.	East Slovakia, town of Košice, behind Obi shopping centre, uncultivated area, N 48°41'53.39", E 21°14'24.05"	29 th September 2021
26.	<i>Echium vulgare</i> L.	East Slovakia, town of Košice, behind Obi shopping centre, pavement margin, N 48°41'52.21", E 21°14'21.50"	19 th August 2021
27.	<i>Elymus repens</i> (L.) Gould	East Slovakia, town of Košice, pathway between the leisure Centre Domino and Topoľčianska Str., ruderalized area, N 48°42'19.57", E 21°13'39.21"	2 nd July 2021
28.	<i>Erigeron canadensis</i> L.	East Slovakia, Stredné Pohornádie, estates of the village of Obišovce, Pažiť meadow, N 48°51'23.88", E 21°14'15.34"	10 th September 2021
29.	<i>Erigeron canadensis</i> L.	East Slovakia, town of Košice, Alejová Str., ruderal vegetation near the pavement, N 48°42'06.54", E 21°14'56.80"	27 th September 2021
30.	<i>Eryngium campestre</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'11.26", E 20°50'24.96"	7 th September 2021
31.	<i>Geranium pratense</i> L.	East Slovakia, Stredné Pohornádie, the village of Obišovce, pathway to Pažiť meadow, ruderalized meadow, N 48°51'38.46", E 21°14'22.00"	10 th September 2021
32.	<i>Gnaphalium sylvaticum</i> L.	East Slovakia, Stredné Pohornádie, estates of the village of Obišovce, Pažiť meadow, N 48°51'24.67", E 21°14'13.56"	10 th September 2021
33.	<i>Helianthemum nummularium</i> subsp. <i>grandiflorum</i> (Scop.) Schinz et Thell.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'12.19", E 20°50'23.91"	7 th September 2021
34.	<i>Heracleum sphondylium</i> L.	East Slovakia, Stredné Pohornádie, the village of Obišovce, uncultivated area next to the road from the sawmill, N 48°51'33.25", E 21°14'16.37"	10 th September 2021

35.	<i>Hordeum murinum</i> L.	East Slovakia, town of Košice, B. Němcovej Str., near the crossroads with Watsonova Str., lawn close to the pavement, N 48°44'03.84", E 21°14'25.17"	2 nd July 2021
36.	<i>Hordeum murinum</i> L.	East Slovakia, town of Košice, Breznianska Str., uncultivated area close to the street, N 48°42'14.70", E 21°13'29.95"	13 th August 2021
37.	<i>Hyoscyamus niger</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'12.94", E 20°50'23.81"	7 th September 2021
38.	<i>Hypericum perforatum</i> L.	East Slovakia, town of Košice, Alejová Str., ruderal vegetation near the pavement, N 48°42'05.67, E 21°14'58.91"	27 th September 2021
39.	<i>Hypericum perforatum</i> L.	East Slovakia, town of Košice, close to the road between Möbelix and OBI shopping centres, uncultivated area, N 48°41'52.79", E 21°14'36.08"	29 th September 2021
40.	<i>Chenopodium album</i> L.	East Slovakia, town of Košice, Tvrdošínska Str., building site, N 48°42'14.40", E 21°13'19.86"	27 th September 2021
41.	<i>Jacobaea vulgaris</i> Gaertn.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'11.26", E 20°50'24.96	7 th September 2021
42.	<i>Jacobaea vulgaris</i> Gaertn.	East Slovakia, Stredné Pohornádie, estates of the village of Obišovce, Pažiť meadow, N 48°51'24.17", E 21°14'16.04"	10 th September 2021
43.	<i>Jacobaea vulgaris</i> Gaertn.	East Slovakia, town of Košice, close to the road between Möbelix and OBI shopping centres, uncultivated area, N 48°41'52.67", E 21°14'28.69"	29 th September 2021
44.	<i>Juncus inflexus</i> L.	East Slovakia, Stredné Pohornádie, the village of Obišovce, pathway to Pažiť meadow, ruderalized meadow, N 48°51'38.46", E 21°14'22.22"	10 th September 2021
45.	<i>Knautia arvensis</i> (L.) Coult.	East Slovakia, town of Košice, Popradská Str., close to the crossroads with Žilinská Str., slope above the street, N 48°42'25.74", E 21°13'46.29"	2 nd July 2021
46.	<i>Lactuca saligna</i> L.	East Slovakia, town of Košice, behind Optima shopping centre, ruderalized meadow, N 48°41'47.38", E 21°14'20.45"	19 th August 2021
47.	<i>Lactuca saligna</i> L.	East Slovakia, town of Košice, behind Decathlon shop, lawn, N 48°41'53.06", E 21°15'07.65"	27 th September 2021
48.	<i>Lactuca serriola</i> L.	East Slovakia, town of Košice, Breznianska Str., uncultivated area close to a new-built house, N 48°42'17.70", E 21°13'29.95"	13 th August 2021
49.	<i>Lactuca serriola</i> L.	East Slovakia, town of Košice, Alejová Str., uncultivated area adjacent to the pavement, N 48°42'05.67", E 21°14'58.91"	27 th September 2021
50.	<i>Lactuca viminea</i> (L.) J.Presl et C. Presl	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'11.26", E 20°50'24.96	7 th September 2021
51.	<i>Leontodon hispidus</i> L.	East Slovakia, town of Košice, Popradská Str., close to the bus stop Žilinská, lawn, N 48°42'30.07", E 21°13'43.56"	2 nd July 2021
52.	<i>Lotus corniculatus</i> L.	East Slovakia, town of Košice, Popradská Str., between the bus stops CVČ Domino and Trebišovská, lawn, N 48°42'13.12", E 21°13'50.96"	13 th August 2021

53.	<i>Malva thuringiaca</i> (L.) Vis.	East Slovakia, town of Košice, Bardejovská Str., near Billa shop, uncultivated lawn close to the parking lot, N 48°42'22.35", E 21°14'20.35"	3 rd September 2021
54.	<i>Malva thuringiaca</i> (L.) Vis.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, close to the road from the cemetery to the road E 571, uncultivated area, N 48°36'21.02", E 20°50'20.36"	7 th September 2021
55.	<i>Microrrhinum minus</i> (L.) Fourn.	East Slovakia, town of Košice, building disposal site near the gravel pit in Krásna, N 48°40'01.14", E 21°18'21.79"	15 th October 2021
56.	<i>Odontites luteus</i> (L.) Clairv.	East Slovakia, Stredné Pohornádie, village of Kavečany, Zoo Košice, meadow close to ibex enclosure in its lower part next to the brook, N 48°47'13.12", E 21°11'44.28"	10 th August 2021
57.	<i>Origanum vulgare</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, close to the road from the cemetery to the road E 571, uncultivated area, N 48°36'21.14", E 20°50'20.15"	7 th September 2021
58.	<i>Papaver rhoeas</i> L.	East Slovakia, town of Košice, crossroads of the streets Topoľčianska and Breznianska, close to a house wall, N 48°42'14.62", E 21°13'29.91"	13 th August 2021
59.	<i>Pastinaca sativa</i> L.	East Slovakia, town of Košice, Breznianska Str., uncultivated area close to a new-built house, N 48°42'14.79", E 21°13'29.93"	19 th August 2021
60.	<i>Pastinaca sativa</i> L.	East Slovakia, town of Košice, behind Optima shopping centre, uncultivated area next to parking lot, N 48°14'47.00", E 21°14'20.22"	19 th August 2021
61.	<i>Phleum pratense</i> L.	East Slovakia, town of Košice, path from Horný Bankov to KVP housing estate, meadow, N 48°44'07.52", E 21°12'43.22"	26 th August 2021
62.	<i>Plantago major</i> L.	East Slovakia, town of Košice, Humenská Str., park, N 48°42'30.98", E 21°14'06.61"	3 rd September 2021
63.	<i>Poa pratensis</i> L.	East Slovakia, town of Košice, pathway between the leisure Centre Domino and Topoľčianska Str., uncultivated area, N 48°42'19.57", E 21°13'19.57"	2 nd July 2021
64.	<i>Reseda lutea</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'12.86", E 20°50'24.15"	7 th September 2021
65.	<i>Robinia pseudoacacia</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'12.43", E 20°50'25.10"	7 th September 2021
66.	<i>Salix pentandra</i> L.	Northern Slovakia, pod Suchým Hrádkom, wet area between forest and meadow, N 49°07'09.4", E 19°50'32.7"	21 st November 2021
67.	<i>Salvia pratensis</i> L.	East Slovakia, Stredné Pohornádie, village of Kavečany, Zoo Košice, meadow adjacent to the road passing the enclosure for lynx, N 48°47'15.86", E 21°11'56.36"	10 th August 2021
68.	<i>Salvia verticillata</i> L.	East Slovakia, Stredné Pohornádie, village of Kavečany, Zoo Košice, meadow close to ibex enclosure in its lower part next to the brook, N 48°47'13.12", E 21°11'14.28"	10 th August 2021
69.	<i>Scabiosa ochroleuca</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'12.54", E 20°50'20.92"	7 th September 2021
70.	<i>Scorzoneroides autumnalis</i> (L.) Moench	East Slovakia, town of Košice, close to the bus stop Stodolova, lawn, N 48°42'03.45", E 21°14'03.05"	13 th August 2021

71.	<i>Scrophularia nodosa</i> L.	East Slovakia, Stredné Pohornádie, estates of the village of Obišovce, Pažiť meadow, N 48°51'24.27", E 21°14'11.83"	10 th September 2021
72.	<i>Senecio vulgaris</i> L.	East Slovakia, town of Košice, Levická Str, uncultivated area close to the pavement N 48°42'17.77" E 21°13'16.77"	1 st June 2021
73.	<i>Seseli annuum</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'12.54", E 20°50'20.92"	7 th September 2021
74.	<i>Setaria pumila</i> (Poir.) Roem. et Schult.	East Slovakia, town of Košice, park in front of the Post office no. 11, N 48°42'24.84", E 21°14'11.26"	3 rd September 2021
75.	<i>Setaria pumila</i> (Poir.) Roem. et Schult.	East Slovakia, town of Košice, Alejová Str., ruderal vegetation near the pavement, N 48°42'06.54", E 21°14'56.80"	27 th September 2021
76.	<i>Silene latifolia</i> Poir.	East Slovakia, town of Košice, Alejová Str., ruderal vegetation near the pavement, N 48°42'06.54", E 21°14'56.80"	27 th September 2021
77.	<i>Silene otites</i> (L.) Wibel	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'12.48", E 20°50'23.99"	7 th September 2021
78.	<i>Silene vulgaris</i> (Moench) Garcke	East Slovakia, Stredné Pohornádie, village of Kavečany, Zoo Košice, meadow adjacent to the road passing the enclosure for lynx, N 48°47'15.86", E 21°11'56.36"	10 th August 2021
79.	<i>Silene vulgaris</i> (Moench) Garcke	East Slovakia, town of Košice, Pri Prachárni Str., lawn, N 48°41'56.33" E 21°14'52.64"	29 th September 2021
80.	<i>Sonchus oleraceus</i> L.	East Slovakia, town of Košice, Watsonova ul. pri optike, praskliny medzi chodníkom a múrom, N 48°44'04.36", E 21°14'22.54"	2 nd July 2021
81.	<i>Sonchus oleraceus</i> L.	East Slovakia, town of Košice, close to the bus stop Stodolova, ruderal area close to pole of street lighting, N 48°42'02.90", E 21°14'02.84"	13 th August 2021
82.	<i>Stellaria media</i> (L.) Vill.	East Slovakia, town of Košice, Trieda KVP Str., lawn close to the bus stop Starozagorská, N 48°43'14.04", E 21°12'56.93"	4 th May 2021
83.	<i>Stellaria media</i> (L.) Vill.	East Slovakia, town of Košice, road leading from the bus stop Pri Hati along the river Hornád, ruderal area, N 48°44'44.73", E 21°15'24.94"	2 nd June 2021
84.	<i>Taraxacum officinale</i> L.	East Slovakia, town of Košice, Kostolianska cesta Str, near the pavement along the area of the University of Veterinary Medicine and Pharmacy, lawn, N 48°44'22.54", E 21°14'46.89"	2 nd June 2021
85.	<i>Taraxacum officinale</i> L.	East Slovakia, town of Košice, Trieda KVP str., lawn in front of the Slovnaft petrol station, N 48°43'14.87", E 21°12'57.43"	4 th May 2021
86.	<i>Teucrium chamaedrys</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'11.26", E 20°50'24.96	7 th September 2021
87.	<i>Teucrium montanum</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'11.26", E 20°50'24.96	7 th September 2021
88.	<i>Thlaspi arvense</i> L.	East Slovakia, town of Košice, Tvrdošínska Str., building site, N 48°42'14.47", E 21°13'22.29"	30 th June 2021

89.	<i>Thlaspi arvense</i> L.	East Slovakia, town of Košice, Čičky – majer area, in the direction of Horný Bankov, close to a side road, N 48°43'30.13", E 21°13'12.53"	5 th July 2021
90.	<i>Thlaspi arvense</i> L.	East Slovakia, town of Košice, crossroads of the streets Topoľčianska and Breznianska, uncultivated area close to a house, N 48°42'14.63", E 21°13'29.88"	13 th August 2021
91.	<i>Torilis japonica</i> (Houtt.) DC.	East Slovakia, Stredné Pohornádie, estates of the village of Obišovce, Pažiť meadow, forest pathway under the meadow, N 48°51'25.65", E 21°14'08.55"	10 th September 2021
92.	<i>Tragopogon orientalis</i> L.	East Slovakia, town of Košice, Popradská Str., close to the bus stop Žilinská, lawn, N 48°42'31.90", E 21°13'42.23"	2 nd July 2021
93.	<i>Tragopogon orientalis</i> L.	East Slovakia, town of Košice, Popradská Str., between the bus stops CVČ Domino and Trebišovská, lawn, N 48°42'14.28", E 21°13'50.49"	13 th August 2021
94.	<i>Tragopogon orientalis</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'12.45", E 20°50'23.73"	7 th September 2021
95.	<i>Trifolium pratense</i> L.	East Slovakia, town of Košice, Popradská Str., close to the crossroads with Žilinská Str., lawn close to the pavement, N 48°42'25.54", E 21°13'46.27"	2 nd July 2021
96.	<i>Trifolium repens</i> L.	East Slovakia, town of Košice, Popradská Str., close to the bus stop Žilinská, lawn, N 48°42'31.46", E 21°13'42.57"	2 nd July 2021
97.	<i>Verbascum chaixii</i> subsp. <i>austriacum</i> (Schott ex Roem. et Schult.) Hayek	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, close to the road from the cemetery to the road E 571, uncultivated area, N 48°36'21.14", E 20°50'20.19"	7 th September 2021
98.	<i>Verbascum lychnitis</i> L.	East Slovakia, Slovak Karst, village of Dvorníky – Včeláre, xerothermous limestone hill in the village, N 48°36'12.48", E 20°50'23.99"	7 th September 2021
99.	<i>Xanthium albinum</i> (Widder) Scholz et Sukopp	East Slovakia, town of Košice, building disposal site near the gravel pit in Krásna, N 48°40'01.14", E 21°18'21.79"	15 th October 2021

The seeds were collected and determined by Lenka Mártonfiová, Pavol Mártonfi, Matej Dudáš and Monika Lachmannová.





**Seeds collected from plants cultivated in the Botanical Garden of Pavol Jozef Šafárik
University, Košice in 2020 - 2021**

Taxon name

- 100. *Annona mucosa* Jacq.
- 101. *Annona* sp.
- 102. *Artocarpus heterophyllus* Lam.
- 103. *Canna indica* L.
- 104. *Canna indica* 'Wild'
- 105. *Carica papaya* L.
- 106. *Eriobotrya japonica* (Thunb.) Lindl.
- 107. *Pavonia hastata* Spreng.
- 108. *Pavonia missionum* Ekman
- 109. *Sansevieria hyacinthoides* (L.) Druce
- 110. *Tulbaghia violacea* Harv.
- 111. *Zephyranthes robusta* (Herb.) Baker

Seeds collected from Exposition of Tatra Mountain Nature

State Forests of Tatra National Park, Tatranská Lomnica, Slovakia, 850 m a. s. l.

Taxon name	Collection date
112. <i>Aconitum variegatum</i> L.	18 th September 2021
113. <i>Allium schoenoprasum</i> subsp. <i>alpinum</i> (DC.) Čelak.	21 st July 2021
114. <i>Anemonastrum narcissiflorum</i> (L.) Holub	20 th July 2021
115. <i>Anthyllis vulneraria</i> subsp. <i>alpestris</i> (Kit. ex Schult.) Asch. et Graebn.	12 th August 2021
116. <i>Aquilegia vulgaris</i> L.	23 rd July 2021
117. <i>Arabis alpina</i> L.	28 th June 2021
118. <i>Arabis soyeri</i> Reut.	8 th July 2021
119. <i>Angelica archangelica</i> L.	16 th July 2021
120. <i>Armeria alpina</i> Willd.	10 th July 2021
121. <i>Aruncus dioicus</i> (Walter) Fernald	3 rd October 2021
122. <i>Aster alpinus</i> L.	16 th July 2021
123. <i>Astragalus norvegicus</i> Weber	30 th June 2021
124. <i>Biscutella laevigata</i> L.	12 th July 2021
125. <i>Bistorta vivipara</i> (L.) Delarbre	7 th July 2021
126. <i>Callianthemum coriandrifolium</i> Rchb.	30 th June 2021
127. <i>Campanula carpatica</i> Jacq.	25 th August 2021
128. <i>Campanula glomerata</i> L.	10 th August 2021
129. <i>Campanula persicifolia</i> L.	10 th August 2021
130. <i>Clinopodium alpinum</i> (L.) Kuntze	6 th July 2021
131. <i>Cortusa matthioli</i> L.	28 th July 2021
132. <i>Delphinium elatum</i> L.	28 th July 2021
133. <i>Delphinium oxysepallum</i> Borbás et Pax	14 th July 2021
134. <i>Dianthus praecox</i> Willd. ex Spreng.	27 th July 2021
135. <i>Doronicum austriacum</i> Jacq.	20 th July 2021
136. <i>Dryas octopetala</i> L.	28 th June 2021
137. <i>Erigeron hungaricus</i> (Vierh.) Pawł.	23 rd June 2021
138. <i>Erysimum hungaricum</i> Zapal.	27 th July 2021

139. <i>Gentiana asclepiadea</i> L.	20 th September 2021
140. <i>Geum montanum</i> L.	24 th June 2021
141. <i>Gypsophila repens</i> L.	29 th July 2021
142. <i>Helianthemum nummularium</i> subsp. <i>grandiflorum</i> (Scop.) Schinz et Thell.	13 th July 2021
143. <i>Hieracium alpinum</i> L.	30 th June 2021
144. <i>Hornungia alpina</i> (L.) O. Appel	30 th June 2021
145. <i>Hypochaeris uniflora</i> Vill.	16 th July 2021
146. <i>Cherleria langii</i> (G. Reuss) A. J. Moore et Dillenb.	20 th August 2021
147. <i>Iris sibirica</i> L.	17 th September 2021
148. <i>Leontodon hispidus</i> L.	28 th July 2021
149. <i>Leontopodium alpinum</i> Cass.	30 th July 2021
150. <i>Leucanthemopsis alpina</i> subsp. <i>tatrae</i> (Vierh.) Holub	13 th July 2021
151. <i>Leucanthemum vulgare</i> subsp. <i>alpicola</i> (Gremli) Á. Löve et D. Löve	13 th July 2021
152. <i>Lilium martagon</i> L.	3 rd September 2021
153. <i>Lunaria rediviva</i> L.	20 th August 2021
154. <i>Onobrychis montana</i> DC.	23 rd July 2021
155. <i>Papaver tatricum</i> (A. Nyár.) Ehrend.	23 rd June 2021
156. <i>Phyteuma orbiculare</i> L.	10 th July 2021
157. <i>Potentilla crantzii</i> (Crantz) Beck ex Fritsch	28 th June 2021
158. <i>Ranunculus plataniifolius</i> L.	30 th July 2021
159. <i>Sabulina verna</i> subsp. <i>gerardii</i> (Will.) Dillenb.	28 th June 2021
160. <i>Saxifraga aizoides</i> L.	21 st July 2021
161. <i>Saxifraga paniculata</i> Mill.	13 th July 2021
162. <i>Scabiosa lucida</i> Vill.	16 th July 2021
163. <i>Solidago virgaurea</i> subsp. <i>minuta</i> (L.) Arcang.	14 th July 2021
164. <i>Tanacetum clusii</i> (Fisch. ex Rchb.) Soják	4 th August 2021
165. <i>Tephrosieris capitata</i> (Wahlenb.) Griseb. et Schenk	28 th June 2021
166. <i>Tofieldia calyculata</i> (L.) Wahlenb.	19 th August 2021
167. <i>Trollius altissimus</i> Crantz	30 th June 2021
168. <i>Veratrum album</i> subsp. <i>lobelianum</i> (Bernh.) Arcang.	18 th August 2021
169. <i>Veronica fruticans</i> Jacq.	20 th August 2021

The seeds were collected by Jana Černická

Seeds collected from

Hrádocké Arboretum

Secondary Forestry School of J. D. Matejovie
in Liptovský Hrádok, Hradná Str. 534, Liptovský Hrádok, Slovakia

Taxon name

170. *Abies homolepis* Siebold et Zucc.
171. *Abies koreana* E. H. Wilson
172. *Abies nordmanniana* (Steven) Spach
173. *Acer miyabei* Maxim.
174. *Acer monspessulanum* L.
175. *Acer negundo* L.
176. *Acer schirasawanum* Koidz.
177. *Acer stachyophyllum* Hiern
178. *Acer tataricum* subsp. *ginnala* (Maxim.) Wesm.
179. *Acer tegmentosum* Maxim.
180. *Acer ukurunduense* Trautv. et C.A. Mey.
181. *Aesculus parviflora* Walt.
182. *Aesculus x carnea* Hayne
183. *Alnus alnobetula* subsp. *crispa* (Aiton) Raus
184. *Alnus hirsuta* (Spach) Turcz. ex Rupr.
185. *Alnus incana* subsp. *rugosa* (Du Roi) R. T. Clausen
186. *Aralia elata* var. *mandshurica* (Rupr. et Maxim.) J. Wen
187. *Berberis amurensis* Rupr.
188. *Berberis koreana* Palib.
189. *Berberis verna* C. K. Schneid.
190. *Betula alleghaniensis* Britton
191. *Caragana arborescens* Lam.
192. *Carpinus japonica* Blume
193. *Carya ovata* (Mill.) K. Koch
194. *Clematis alpina* (L.) Mill.
195. *Colutea arborescens* L.

196. *Colutea persica* Boiss.
197. *Cornus amomum* Mill.
198. *Cornus officinalis* Siebold et Zucc.
199. *Corylus sieboldiana* var. *mandshurica* (Maxim.) C. K. Schneid.
200. *Crataegus rusanovii* f. *latifolia* Cynovskis
201. *Crataegus sanguinea* Pall.
202. *Crataegus submollis* Sarg.
203. *Crataegus succulenta* Schrad. ex Link
204. *Crataegus* x *kyrtostyla* Fingerh
205. *Elaeagnus umbellata* Thunb.
206. *Eleutherococcus senticosus* (Rupr. et Maxim.) Maxim.
207. *Euonymus alatus* (Thunb.) Siebold
208. *Euonymus latifolius* (L.) Mill.
209. *Euonymus verrucosus* Scop.
210. *Chaenomeles japonica* (Thunb.) Lindl. ex Spach
211. *Juglans ailantifolia* var. *cordiformis* (Makino) Rehder
212. *Juglans mandshurica* Maxim.
213. *Juniperus sabina* L.
214. *Kalopanax septemlobus* (Thunb.) Koidz.
215. *Kolkwitzia amabilis* Graebn.
216. *Laburnum alpinum* (Mill.) Bercht. et J.Presl.
217. *Laburnum anagyroides* Medik.
218. *Ligustrum ibota* Siebold
219. *Lonicera ferdinandii* Franch.
220. *Mespilus germanica* L.
221. *Phellodendron amurense* Rupr.
222. *Picea mariana* (Mill.) Britton et al.
223. *Pinus armandii* Franch.
224. *Pinus rigida* Mill.
225. *Ptelea trifoliata* L.
226. *Pyracantha crenulata* (D. Don) M. Roem.
227. *Rhamnus caroliniana* Walter

228. *Rhamnus citrifolius* (Weston) W. J. Hess & Stearn

229. *Rhamnus davurica* Pallas

230. *Rhamnus globosa* Bunge

231. *Rosa amblyotis* C. A. Mey.

232. *Rosa arvensis* Huds.

233. *Rosa macrophylla* Lindl.

234. *Rosa multiflora* Thunb.

235. *Rosa spinosissima* L.

236. *Sambucus nigra* subsp. *caerulea* (Raf.) Bolli

237. *Sequoiadendron giganteum* (Lindl.) Buchholz

238. *Sorbus cashmiriana* Hedl.

239. *Sorbus scopulina* Greene

240. *Staphylea pinnata* L.

241. *Syringa reticulata* (Blume) H. Hara

242. *Taxus cuspidata* Siebold et Zucc.

243. *Tsuga diversifolia* (Maxim.) Mast.

244. *Viburnum dilatatum* Thunb.

245. *Viburnum schensianum* Maxim.

246. *Viburnum trilobum* Marshall

The seeds were collected from September to December 2021



Desiderata:

Your address:

Editor: Lenka Mártonfiová
lenka.martonfiova@upjs.sk

Desiderata should be sent to our address:

Botanical Garden of Pavol Jozef Šafárik University
Mánesova 23
SK-043 52 Košice
Slovakia
or (preferably) by e-mail: botgard@upjs.sk

Tel. +421 55 2341676
e-mail: botgard@upjs.sk
www.bz.upjs.sk
Director: Pavol Mártonfi
pavol.martonfi@upjs.sk

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