



Šiaulių
akademija
BOTANIKOS SODAS

INDEX SEMINUM 2022 No 22





VILNIUS UNIVERSITY ŠIAULIAI ACADEMY
BOTANICAL GARDEN

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VILNIUS UNIVERSITY ŠIAULIAI ACADEMY BOTANICAL GARDEN

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Cover design Karolis Grušas

Photos are from the archive of Botanical Garden

VILNIAU UNIVERSITY ŠIAULIAI ACADEMY BOTANICAL GARDEN

ŠIAULIAI AREA. Šiauliai is a city of Northern Lithuania. It counts its years from the Battle of Saulė which took place in 1236. Šiauliai is the fourth largest city by its population. Population ca. 101 000.

HISTORY. Šiauliai University Botanical Garden was established in 1997 at the former site of Agrobiological Station of Šiauliai Pedagogical Institute. Since 2021, botanical garden is part of Vilnius University Šiauliai Academy. Total area of the garden is 6.54 ha. Since 2003 botanical garden is a member of Botanic Gardens Conservation International, Planta Europa Network, Association of Botanic Gardens in the Baltic Sea Region, Botanical Gardens of the Baltic Countries, and the Association of Lithuanian University Botanic Gardens (LUBSA). Since 2005 the Botanic Garden is a member of International Network of Phenological Gardens of Europe (IPG). The Garden exchanges seeds with more than 300 botanical gardens of the world. Director: dr. Martynas Kazlauskas.

Fields of research:

- research on plant biodiversity *ex situ* and *in situ*,
- research on introduction and acclimatization of ornamental plants,
- phenological observations,
- research on plant bioactive compounds of pharmaceutical interest.

Other activities:

- *ex situ* conservation,
- educational activities at the botanical garden,
- environmental and cultural events at the botanical garden.

COLLECTIONS OF THE BOTANICAL GARDEN. The garden has specimens of over 4400 species and varieties of plants. The plants are kept in 6 sections.

- **Section of Plant Systematics and Geography.** The purpose of the Division of Plant Systematics and Geography is to gather a rich collection of outdoor plants, including diverse plant families, genera and species from Lithuania and different geographical regions worldwide, where various educational and scientific research activities could take place. The plants are grouped and displayed in accordance with the system of *Magnoliophyta* division by A. L. Takhtajan. Plant families are arranged in alphabetical order. Since 2000 the section has specimens of over 676 plant species from 85 families. The section is supervised by botanical collections senior supervisor Žydrūnė Valainytė.
- **Section of Lithuanian Flora.** Section of Lithuanian Flora was established in 2011. The section includes herbaceous plants from different ecosystems: swamps, wet and dry meadows, forests ca 200 species. Priorities: rare and protected species of plants, beneficial (medicinal and ethnobotanical) plants. The section covers 48 species of plants included in the Red Book of Lithuania. The section is supervised by the botanical collections' supervisor Virginija Aleknienė.
- **Section of Floriculture.** The purpose of the division is to gather ornamental herbaceous outdoor plants, broaden and exhibit their collection. The section was opened in 2004. It currently has over 1400 species and varieties of annual and perennial ornamental plants which fall under 58 families. Most flower breeds were brought from Estonia, Latvia, Poland as well as Lithuanian florists and botanical gardens. Some plants were grown from seeds, received from various botanical gardens worldwide via the seed exchange programme. The largest collections are those of *Lilium*, *Hemerocallis* and *Iris*. The section is supervised by senior supervisor of botanical collections Rita Šulskienė.
- **Section of Mountain Plants.** The purpose of the division is to gather a collection of mountain flora, suitable for cognitive and educational purposes, carrying out plant evaluation and scientific

research. Since 2000 this section has specimens of mountain flora from Europe, Asia, and North America. There are 1669 species and varieties of plants which fall under 70 families. The main priorities for choosing the species are: ornamental features, natural resources of the species, beneficial features of the plant. The alpine plants of the division are grown in a rock-garden and hotbeds. The rock-garden is built on an artificial hill and covers 7.5 ares. Herbaceous mountain flora is influenced by changing climate conditions of vertical zonality as well as harsh growing conditions and, therefore, contains a large morphological variety with numerous tufted, evergreen, dwarf, rosette, thick-leaved, fluffy and leathery-leaved plants. The section is supervised by researcher dr. Rimanta Vainorienė.

- **Section of Dendrology.** Dendrological collection has been maintained since 1999. The division includes 300 coniferous and 680 leafy trees and shrubs. The area of the garden is not large, therefore, it mainly focuses on groundling plants. One of the largest collections is that of *Ericaceae* family, covering over 300 species and varieties from *Rhododendron*, *Calluna*, *Kalmia*, *Gaultheria*, *Erica* and *Vaccinium* genera. The section is supervised by landscape architect Karolis Grušas.
- **Phenological Garden.** Since 2005 our Botanical Garden is a member of Phenological Observations Network in Europe. Phenological garden is intended for observation of phenological phases of 18 plants genetically identical woody plants. Supervisor: researcher dr. Rimanta Vainorienė.

GEOGRAPHICAL SITUATION:

Latitude N 55° 55' 57.7"

Longitude E 23° 16' 57.0"

Zone 5 (Baltic region plant hardiness map)

CLIMATIC CONDITIONS:

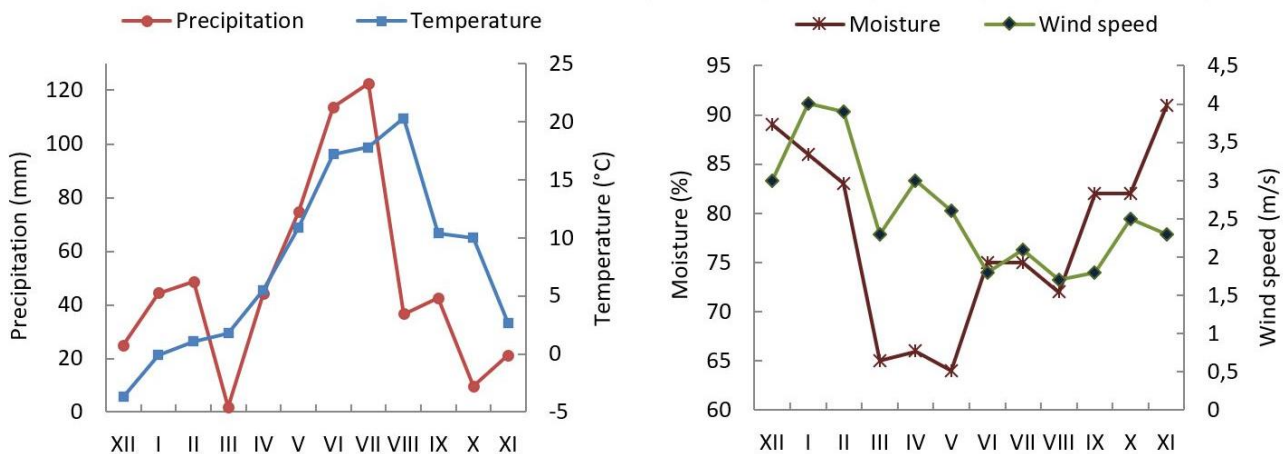


Fig. Distribution of mean month: precipitation and temperature (left), moisture and wind speed (right), from December 2021 till November 2022.

Collectors: V. Aleknienė, B. Balašaitienė, K. Grušas, R. Šulskienė, R. Vainorienė, Ž. Valainytė.

* - Seeds collected in 2021

** - Seeds collected in 2020

Plants that have ripened seeds obtained from: C – commercial sources; G – botanical gardens or similar institutions; P – private collectors; U – unrecorded; W – wild.

**SEEDS FROM PLANTS
CULTIVATED IN THE GARDEN**

- | | | |
|--------------|---|-----------------------|
| 1. G | Viburnum opulus L. var. sargentii
N. V. Tsitsin's Botanical Garden of the Russian Academy of Sciences, Moscow, RUS | <i>Adoxaceae</i> |
| 2. G | Atriplex hortensis L. 'Rubra'
Botanic Garden of the University of Copenhagen, DNK | <i>Amaranthaceae</i> |
| 3. U | *Allium caeruleum Pall.
The Commercial Source, LTU | <i>Amaryllidaceae</i> |
| 4. G | *Allium cyathophorum Bureau & Franch.
University of Bristol Botanic Garden, GBR | <i>Amaryllidaceae</i> |
| 5. G | **Allium moly L.
Botanical Garden of Šiauliai University, LTU | <i>Amaryllidaceae</i> |
| 6. G | Allium obliquum L.
Vytautas Magnus University Botanical Garden, LTU | <i>Amaryllidaceae</i> |
| 7. G | **Allium pskemense B.Fedtsch.
Botanical Garden Gothenburg, SWE | <i>Amaryllidaceae</i> |
| 8. U | *Allium schubertii Zucc.
The Commercial Source, LTU | <i>Amaryllidaceae</i> |
| 9. W | Allium scorodoprasum L.
LTU: Klaipėda County, The local area Priekulė, Klaipėda district | <i>Amaryllidaceae</i> |
| 10. C | Allium sphaerocephalon L.
The Commercial Source, LTU | <i>Amaryllidaceae</i> |
| 11. G | *Amaryllis belladonna L.
Tallinn Botanic Garden, EST | <i>Amaryllidaceae</i> |
| 12. W | *Angelica archangelica L.
LTU: The local area Joniškis district | <i>Apiaceae</i> |
| 13. W | Astrantia major L.
LTU: The local area Žagarė, Joniškis district | <i>Apiaceae</i> |
| 14. G | **Athamanta turbith Brot. subsp. haynaldii (Borbás & Uechtr.) Tutin
Botanical Garden Rennsteiggarten Oberhof, DEU | <i>Apiaceae</i> |

15. G	Bupleurum griffithii 'Dekor' Ural State University Botanical Garden, Ekaterinburg, RUS	<i>Apiaceae</i>
16. G	*Bupleurum rigidum L. The Botanical Garden of Nice, FRA	<i>Apiaceae</i>
17. G	*Carum carvi L. Vytautas Magnus University Botanical Garden, LTU	<i>Apiaceae</i>
18. G	Chaerophyllum aromaticum L. Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DEU	<i>Apiaceae</i>
19. G	*Chaerophyllum aureum L. Botanical Garden University of Hamburg, DEU	<i>Apiaceae</i>
20. C	*Coriandrum sativum L. The Commercial Source, LTU	<i>Apiaceae</i>
21. G	*Cryptotaenia canadensis (L.) DC. Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DEU	<i>Apiaceae</i>
22. G	Cryptotaenia japonica Hassk. 'Atropurpurea' Botanical Garden of the University of Tartu, EST	<i>Apiaceae</i>
23. G	*Cuminum cyminum L. The Botanical Garden of Naples, ITA	<i>Apiaceae</i>
24. W	*Daucus carota L. LTU: Šiauliai County, The local area Vinkšnėnai, Šiauliai district	<i>Apiaceae</i>
25. G	*Eryngium bourgatii Gouan University of Oxford Botanic Garden and Harcourt Arboretum, GBR	<i>Apiaceae</i>
26. G	Eryngium bromeliifolium F.Delaroche Botanical Garden Teplice, CZE	<i>Apiaceae</i>
27. G	Ferula assa-foetida L. Botanic Garden Meise, BEL	<i>Apiaceae</i>
28. G	Foeniculum capillaceum Gilib. Botanic Garden of the Jagiellonian University, Kraków, POL	<i>Apiaceae</i>
29. G	Laser trilobum (L.) Borkh. Botanic Garden of the Philipp University of Marburg, DEU	<i>Apiaceae</i>

30. P	*Laserpitium latifolium L. LTU: Telšiai County, Private collection of J. Balvočiūtė, Gyvoliai, Mažeikiai district, LT	<i>Apiaceae</i>
31. W	Laserpitium latifolium L. LTU: The local area Mažeikiai district	<i>Apiaceae</i>
32. G	Levisticum officinale W.D.J.Koch Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Apiaceae</i>
33. G	Ligusticum lucidum Mill. Alpine Garden Mt. Patscherkofel University Innsbruck, AUT	<i>Apiaceae</i>
34. P	Meum athamanticum Jacq. Private collection of I. Burneckienė, Šiauliai, LTU	<i>Apiaceae</i>
35. G	**Myrrhis odorata (L.) Scop. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Apiaceae</i>
36. G	Orlaya grandiflora (L.) Hoffm. Alpine Garden Mt. Patscherkofel University Innsbruck, AUT	<i>Apiaceae</i>
37. G	Peucedanum cervaria (L.) Lapeyr. Botanical Garden of the University Vienna, AUT	<i>Apiaceae</i>
38. G	*Peucedanum rablense W.D.J.Koch Botanical Garden of the Carinthian Botanic Center, Klagenfurt, AUT	<i>Apiaceae</i>
39. G	Sanicula marilandica L. The Botanical Garden of Bonn University, DEU	<i>Apiaceae</i>
40. G	*Seseli elatum L. subsp. osseum (Crantz) P.W.Ball The Botanical Garden of the University of Tübingen, DEU	<i>Apiaceae</i>
41. G	Seseli osseum Crantz Institute of Ecology and Botany Hungarian Academy of Sciences Botanical Garden, Vacratot, HUN	<i>Apiaceae</i>
42. G	**Aristolochia clematitis L. Botanical Garden of Klaipėda University, LTU	<i>Aristolochiaceae</i>
43. W	*Anthericum ramosum L. LTU: The local area Kurtuvėnai, Šiauliai district	<i>Asparagaceae</i>

44. G	Asparagus officinalis L. Botanical Garden of Šiauliai University, LTU	<i>Asparagaceae</i>
45. G	*Asphodeline brevicaulis J.Gay ex Baker Botanical Garden of Leipzig University, DEU	<i>Asphodelaceae</i>
46. G	*Alfredia cernua (L.) Cass. Central Botanical Garden of National Academia Science of Belarus, Minsk, BLR	<i>Asteraceae</i>
47. G	Arnica sachalinensis A.Gray Salaspils National Botanical Garden, LVA	<i>Asteraceae</i>
48. C	Aster ptarmicoides (Nees) Torr. & A.Gray The Commercial Source, LVA	<i>Asteraceae</i>
49. G	*Centaurea ruthenica Lam. Botanical Garden of the Ukrainian Academy of Science, Kiev, UKR	<i>Asteraceae</i>
50. G	*Chondrilla juncea L. The Botanical Garden of Bonn University, DEU	<i>Asteraceae</i>
51. G	Cirsium heterophyllum (L.) Hill Botanical Garden University Innsbruck, AUT	<i>Asteraceae</i>
52. G	Coreopsis grandiflora Hogg ex Sweet The Botanic Garden of the University of Pisa, ITA	<i>Asteraceae</i>
53. C	*Cosmos Cav. 'Antiquity' The Commercial Source, LTU	<i>Asteraceae</i>
54. U	*Cosmos sulphureus Cav. 'Cosmic Yellow' The Commercial Source, LTU	<i>Asteraceae</i>
55. G	**Emilia coccinea G.Don Prague Botanical Garden, CZE	<i>Asteraceae</i>
56. G	*Erigeron atticus Vill. The Botanical Garden of the University of Regensburg, DEU	<i>Asteraceae</i>
57. G	*Erigeron speciosus DC. Botanic Garden Meise, BEL	<i>Asteraceae</i>
58. G	**Galatella punctata Nees Salaspils National Botanical Garden, LVA	<i>Asteraceae</i>

59. G	Gerbera nivea C.B.Clarke Vera Csapody Hardy Plant Society of Hungary, Budapest, HUN	<i>Asteraceae</i>
60. W	Gnaphalium luteoalbum L. LTU: Alytus County, The local area Merkinė, Varėna district	<i>Asteraceae</i>
61. G	** Leontopodium ochroleucum Beauverd Reykjavik Botanical Garden, ISL	<i>Asteraceae</i>
62. G	** Leontopodium wilsonii Beauverd The Botanical Garden of the University of Regensburg, DEU	<i>Asteraceae</i>
63. G	** Ligularia alatipes Hand.-Mazz. Reykjavik Botanical Garden, ISL	<i>Asteraceae</i>
64. G	** Ptilostemon afer (Jacq.) Greuter The Alpine Garden, south of the Upper Belvedere, AUT	<i>Asteraceae</i>
65. G	** Rhaponticum scariosum Lam. subsp. rhaponticum (L.) Greuter Botanical Garden University of Oslo, NOR	<i>Asteraceae</i>
66. G	** Rudbeckia flava Greene Vytautas Magnus University Botanical Garden, LTU	<i>Asteraceae</i>
67. G	Rudbeckia hirta L. 'Cherokee Sunset' Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Asteraceae</i>
68. P	Scorzonera hispanica L. Private collection of R. Vainorienė, Šiauliai, LTU	<i>Asteraceae</i>
69. G	** Serratula tinctoria L. subsp. tinctoria The Botanical Garden at the Sorgenti del Cavuto, Anversa degli Abruzzi, ITA	<i>Asteraceae</i>
70. G	Solidago rigida L. Salaspils National Botanical Garden, LVA	<i>Asteraceae</i>
71. G	* Solidago uliginosa Nutt. Salaspils National Botanical Garden, LVA	<i>Asteraceae</i>
72. G	Sonchus palustris L. Botanical Garden of Justus-Liebig-University Giessen, DEU	<i>Asteraceae</i>
73. C	Stokesia laevis (Hill) Greene The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Asteraceae</i>

74. G	*Tanacetum corymbosum L.Sch.Bip. Botanic Garden of Petrozavodsk State University, RUS	<i>Asteraceae</i>
75. G	*Tanacetum vulgare L. Botanical Garden of Šiauliai University, LTU	<i>Asteraceae</i>
76. G	Tripolium pannonicum (Jacq.) Dobrocz. subsp. tripolium (L.) Greuter Alexandru Borza Cluj-Napoca University Botanic Garden, ROU	<i>Asteraceae</i>
77. G	**Podophyllum hexandrum Royle Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Berberidaceae</i>
78. G	**Podophyllum peltatum L. The Alpine Garden, south of the Upper Belvedere, AUT	<i>Berberidaceae</i>
79. G	**Carpinus betulus L. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Betulaceae</i>
80. G	*Incarvillea delavayi Bureau & Franch. 'Snowtop' The Botanical Garden Bielefeld, DEU	<i>Bignoniaceae</i>
81. G	*Incarvillea olgae Regel Vytautas Magnus University Botanical Garden, LTU	<i>Bignoniaceae</i>
82. G	*Incarvillea zhongdianensis Grey-Wilson The Botanical Garden Bielefeld, DEU	<i>Bignoniaceae</i>
83. G	**Echium russicum Roem. & Schult. The Alpine Botanical Garden "Paradisica", ITA	<i>Boraginaceae</i>
84. G	**Lindelofia macrostyla (Bunge) Popov Botanical Garden of the Urals Branch of Russian Academy of Sciences, RUS	<i>Boraginaceae</i>
85. G	Lithospermum officinale L. Botanical Garden of Traupis, LTU	<i>Boraginaceae</i>
86. G	**Lithospermum purpureocaeruleum L. Botanical Garden, Faculty of Science, Masaryk University, Brno, CZE	<i>Boraginaceae</i>
87. G	**Omphalodes linifolia Moench Botanical Garden of the Technical University Braunschweig, Braunschweig, DEU	<i>Boraginaceae</i>
88. G	Solenanthus apenninus Hohen. The Munich Botanical Garden, Nymphenburg, DEU	<i>Boraginaceae</i>

89. G	*Bunias orientalis L. The Botanical Garden of the University of Latvia, Riga, LVA	<i>Brassicaceae</i>
90. G	**Camelina sativa Boiss. Botanical Garden of the University of Tartu, EST	<i>Brassicaceae</i>
91. G	*Crambe abyssinica Hochst. ex R.E.Fr. Botanical Garden, Faculty of Science, Palacky University in Olomouc, CZE	<i>Brassicaceae</i>
92. G	*Crambe maritima L. Vytautas Magnus University Botanical Garden, LTU	<i>Brassicaceae</i>
93. U	*Hesperis matronalis L. Arboretum and Institute of Physiography in Bolestraszyce, POL	<i>Brassicaceae</i>
94. G	*Isatis tinctoria L. Botanic Garden Meise, BEL	<i>Brassicaceae</i>
95. G	Lesquerella alpina (Nutt.) S.Watson The Botanical Garden of the University of Regensburg, DEU	<i>Brassicaceae</i>
96. W	Lunaria rediviva L. LTU: Alytus County, The local area Merkinė, Varėna district	<i>Brassicaceae</i>
97. G	Sinapis alba L. Jardins de Salagon, FRA	<i>Brassicaceae</i>
98. G	**Asyneuma canescens Griseb. & Schenk Botanic Garden of Rennes, FRA	<i>Campanulaceae</i>
99. G	**Campanula alliariifolia Willd. Prague Botanical Garden, CZE	<i>Campanulaceae</i>
100. W	Campanula bononiensis L. LTU: The local area Kėdainiai district	<i>Campanulaceae</i>
101. W	Campanula cervicaria L. LTU: Panevėžys County, The local area Paryžė, Kupiškis district	<i>Campanulaceae</i>
102. P	Campanula glomerata L. 'Caroline' Vytautas Magnus University Botanical Garden, LTU	<i>Campanulaceae</i>
103. U	**Campanula glomerata L. 'Alba' Experimental Station of Field Floriculture, Vilnius, LTU	<i>Campanulaceae</i>

104. C	*Campanula latifolia L. The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Campanulaceae</i>
105. G	**Campanula persicifolia L. Institute of Ecology and Botany Hungarian Academy of Sciences Botanical Garden, Vacratot, HUN	<i>Campanulaceae</i>
106. U	Campanula punctata Lam. Experimental Station of Field Floriculture, Vilnius, LTU	<i>Campanulaceae</i>
107. G	Campanula sarmatica Ker Gawl. The Botanical Garden of the University of Tübingen, DEU	<i>Campanulaceae</i>
108. U	Campanula takesimana Nakai Experimental Station of Field Floriculture, Vilnius, LTU	<i>Campanulaceae</i>
109. G	*Edraianthus graminifolius A.DC. Botanical Garden of the University of Potsdam, DEU	<i>Campanulaceae</i>
110. G	Canna indica L. Leuven Botanic Garden, BEL	<i>Cannaceae</i>
111. G	*Canna iridiflora Ruiz & Pav. The Botanical Garden "Vasile Fati" Jibou, ROU	<i>Cannaceae</i>
112. G	Cephalaria gigantea (Ledeb.) Bobrov Botanical Garden of the Urals Branch of Russian Academy of Sciences, RUS	<i>Caprifoliaceae</i>
113. G	*Cephalaria litvinovii Bobrov. Tallinn Botanic Garden, EST	<i>Caprifoliaceae</i>
114. G	*Dipsacus laciniatus L. Botanic Garden of Rennes, FRA	<i>Caprifoliaceae</i>
115. W	Scabiosa columbaria L. LTU: The local area Vilnius district	<i>Caprifoliaceae</i>
116. G	**Scabiosa graminifolia L. The Alpine Botanical Garden "Viotte", Trento, ITA	<i>Caprifoliaceae</i>
117. W	Succisella inflexa (Kluk) Beck LTU: The local area Kupiškis district	<i>Caprifoliaceae</i>

118. G	**Triosteum pinnatifidum Maxim. University of Turku Botanic Garden, FIN	<i>Caprifoliaceae</i>
119. G	Agrostemma githago L. Botanischer Garten Chemnitz, Chemnitz, DEU	<i>Caryophyllaceae</i>
120. W	*Dianthus arenarius L. LTU: The local area Marcinkonys, Varėna district	<i>Caryophyllaceae</i>
121. W	*Dianthus arenarius L. subsp. arenarius LTU: The local area Perloja, Varėna district	<i>Caryophyllaceae</i>
122. G	Dianthus carthusianorum L. Botanischer Garten Chemnitz, DEU	<i>Caryophyllaceae</i>
123. G	**Dianthus superbus L. Botanischer Garten Chemnitz, DEU	<i>Caryophyllaceae</i>
124. G	**Lychnis coronaria (L.) Desr. 'Alba' Cruickshank Botanic Gardens University of Aberdeen, GBR	<i>Caryophyllaceae</i>
125. G	*Saponaria officinalis L. "Anastasié Fătu" Botanic Garden, "Alexandru Ioan Cuza" University of Iasi, ROU	<i>Caryophyllaceae</i>
126. W	Silene lituanica Zapal. LTU: The local area Marcinkonys, Varėna district	<i>Caryophyllaceae</i>
127. G	*Silene pusilla Waldst. & Kit. Botanical Garden of the Christian Albrechts University of Kiel, DEU	<i>Caryophyllaceae</i>
128. G	*Silene sendtneri Boiss. Alpine Garden Mt. Patscherkofel University Innsbruck, AUT	<i>Caryophyllaceae</i>
129. G	Silene suecica (Lodd.) Greuter & Burdet The Alpine Botanical Garden "Paradisio", ITA	<i>Caryophyllaceae</i>
130. W	*Silene tatarica Pers. LTU: The local area Liškiava, Varėna district	<i>Caryophyllaceae</i>
131. G	*Helianthemum nummularium Grosser subsp. glabrum (Koch) Wilczek. The Botanical Garden of the University of Regensburg, DEU	<i>Cistaceae</i>
132. W	Carex buxbaumii Wahlenb. LTU: The local area Kėdainiai district	<i>Cyperaceae</i>

133. G	Carex distans L. Vytautas Magnus University Botanical Garden, LTU	<i>Cyperaceae</i>
134. G	Cyperus esculentus L. Botanic Garden of Rostock University, Rostock, DEU	<i>Cyperaceae</i>
135. G	Cleome dodecandra L. The Bergius Botanic Garden Stockholm University, SWE	<i>Cleomaceae</i>
136. C	* Cleome spinosa Sw. The Commercial Source, LTU	<i>Cleomaceae</i>
137. C	* Cleome spinosa Sw. 'White Queen' The Commercial Source, LTU	<i>Cleomaceae</i>
138. G	Cleome violacea L. Botanic Garden of Johannes Gutenberg University Mainz, DEU	<i>Cleomaceae</i>
139. G	* Bryonia cretica L. Botanic Garden of Johannes Gutenberg University Mainz, DEU	<i>Cucurbitaceae</i>
140. P	** Juniperus rigida Wall. ex Endl. Private collection of S. Gliaudys, Kurtuvėnai, Šiauliai district, LTU	<i>Cupressaceae</i>
141. G	Thuja occidentalis L. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Cupressaceae</i>
142. G	* Astragalus adsurgens Pall. The Greifswald Botanic Garden and Arboretum, DEU	<i>Fabaceae</i>
143. G	Astragalus cicer L. Botanic Garden of the Jagiellonian University, Kraków, POL	<i>Fabaceae</i>
144. W	** Baptisia australis (L.) R.Br. LTU: The local area Obelaičiai, Alytus district	<i>Fabaceae</i>
145. G	** Colutea arborescens L. Botanic Garden of the Jagiellonian University, Kraków, POL	<i>Fabaceae</i>
146. G	** Genista sagittalis L. Salaspils National Botanical Garden, LVA	<i>Fabaceae</i>
147. G	Lathyrus pisiformis L. Botanical Garden of Vilnius University, LTU	<i>Fabaceae</i>

148. W	*Lathyrus sylvestris L. LTU: The local area Radviliškis district	<i>Fabaceae</i>
149. C	Lupinus polyphyllus Lindl. 'Red Flame' The Commercial Source, LTU	<i>Fabaceae</i>
150. W	Ornithopus perpusillus L. LTU: The local area Pociūnai, Prienai district	<i>Fabaceae</i>
151. G	*Ornithopus perpusillus L. Botanic Garden of University of Konstanz, Konstanz, DEU	<i>Fabaceae</i>
152. G	Oxytropis halleri Bunge Alpine Garden Mt. Patscherkofel University Innsbruck, AUT	<i>Fabaceae</i>
153. G	*Phaseolus vulgaris L. var. nanus 'Purple Queen' The Botanical Garden of Bonn University, Bonn, DEU	<i>Fabaceae</i>
154. G	*Phaseolus vulgaris L. var. vulgaris 'Blauhilde' Botanical Garden Macea of the University Vest "Vasile Goldis" Arad, Comuna Macea, ROU	<i>Fabaceae</i>
155. C	Pisum sativum L. 'Ezetha's Krombek Blauwschok' The Commercial Source, LTU	<i>Fabaceae</i>
156. G	**Trifolium fragiferum L. Jardin Botanique Bordeaux, FRA	<i>Fabaceae</i>
157. G	*Trifolium ochroleucum Huds. The Botanical Garden of the Heinrich-Heine University, Dusseldorf, DEU	<i>Fabaceae</i>
158. P	Vicia faba L. 'Boxer' Private collection of M. Noraitis, Daugėlaičiai, Radviliškis district, LTU	<i>Fabaceae</i>
159. G	**Gentiana asclepiadea L. 'Alba' Botanical Garden Rennsteiggarten Oberhof, DEU	<i>Gentianaceae</i>
160. W	*Gentiana cruciata L. LTU: The local area Lazdijai district	<i>Gentianaceae</i>
161. G	Gentiana lutea Ruiz & Pav. ex G.Don The Botanical Garden of the University of Regensburg, DEU	<i>Gentianaceae</i>
162. G	**Geranium thunbergii Siebold ex Lindl. & Paxton RHS Garden Wisley, UK, GBR	<i>Geraniaceae</i>

163. G	Pelargonium quinquelobatum Hochst. ex A.Rich. Bagatelle Park. The Botanical Garden of Paris, FRA	<i>Geraniaceae</i>
164. W	* Hypericum hirsutum L. LTU: The local area Satkūnai, Joniškis district	<i>Hypericaceae</i>
165. G	* Hypericum orientale L. Botanical Garden of Vilnius University, LTU	<i>Hypericaceae</i>
166. W	Gladiolus imbricatus L. LTU: Vilnius County, The local area Širvintos district	<i>Iridaceae</i>
167. G	** Iris laevigata Fisch. The Alpine Botanical Garden "Viotte", Trento, ITA	<i>Iridaceae</i>
168. W	Iris sibirica L. LTU: Kaunas County, The local area Truskava, Kėdainiai district	<i>Iridaceae</i>
169. G	Sisyrinchium angustifolium Mill. Volgograd Regional Botanical Garden, RUS	<i>Iridaceae</i>
170. G	** Sisyrinchium angustifolium Mill. The Botanical Garden of the University of Tübingen, DEU	<i>Iridaceae</i>
171. G	Sisyrinchium bellum S.Watson Tallinn Botanic Garden, EST	<i>Iridaceae</i>
172. G	Sisyrinchium bermudiana L. The Botanic Garden of the Georg-August-University, Goettingen, DEU	<i>Iridaceae</i>
173. G	Sisyrinchium montanum Greene Volgograd Regional Botanical Garden, RUS	<i>Iridaceae</i>
174. G	Sisyrinchium patagonicum Phil. ex Baker The Botanical Garden "Vasile Fati" Jibou, ROU	<i>Iridaceae</i>
175. G	** Juncus effusus L. Botanic Garden and Botanical Museum Berlin-Dahlem, DEU	<i>Juncaceae</i>
176. G	** Luzula alpinopilosa (Chaix) Breistr. The Alpine Botanical Garden "Rezia", Bormio, ITA	<i>Juncaceae</i>
177. G	** Luzula luzuloides (Lam.) Dandy Vytautas Magnus University Botanical Garden, LTU	<i>Juncaceae</i>

178. G	**Calamintha einseleana F.W.Schultz The Botanical Garden of Ljubljana, SVN	<i>Lamiaceae</i>
179. G	**Calamintha nepetoides Jord. The Alpine Garden, south of the Upper Belvedere, AUT	<i>Lamiaceae</i>
180. W	Dracocephalum ruyschiana L. LTU: The local area Anykščiai district	<i>Lamiaceae</i>
181. G	**Dracocephalum tanguticum Maxim. The Alpine Botanical Garden "Rezia", Bormio, ITA	<i>Lamiaceae</i>
182. G	*Horminum pyrenaicum L. Salaspils National Botanical Garden, LVA	<i>Lamiaceae</i>
183. G	**Hyssopus officinalis L. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Lamiaceae</i>
184. G	*Leonurus cardiaca L. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Lamiaceae</i>
185. G	**Leonurus quinquelobatus Gilib. The Botanical Garden of Udmurt State University, RUS	<i>Lamiaceae</i>
186. G	**Micromeria thymifolia (Scop.) Fritsch Botanic Garden Meise, BEL	<i>Lamiaceae</i>
187. G	**Nepeta camphorata Boiss. & Heldr. Botanical Garden of the Vrije Universiteit, Amsterdam, NLD	<i>Lamiaceae</i>
188. G	**Nepeta manchuriensis S.Moore Botanischer Garten Chemnitz, DEU	<i>Lamiaceae</i>
189. G	**Nepeta podostachys Benth. Ural State University Botanical Garden, Ekaterinburg, RUS	<i>Lamiaceae</i>
190. G	**Phlomis samia L. The Botanical Garden of the Heinrich-Heine University, Dusseldorf, DEU	<i>Lamiaceae</i>
191. W	Prunella grandiflora (L.) Turra LTU: Alytus County, The local area Merkinė, Varėna district	<i>Lamiaceae</i>
192. G	**Salvia argentea L. Vytautas Magnus University Botanical Garden, LTU	<i>Lamiaceae</i>

193. G	**Salvia fruticosa K.Schum. Botanical Garden of the University of Zurich, CHE	<i>Lamiaceae</i>
194. W	Salvia pratensis L. f. rubicunda LTU: Kaunas County, The local area Kaunas district	<i>Lamiaceae</i>
195. W	Salvia pratensis L. LTU: Tauragė County, The local area Smalininkai, Jurbarkas district	<i>Lamiaceae</i>
196. W	Scutellaria hastifolia L. LTU: Klaipėda County, The local area Galzdonai, Šilutės district	<i>Lamiaceae</i>
197. G	Sideritis hirsuta Sieber ex Benth. Geneva City Conservatory and Botanical Garden, CHE	<i>Lamiaceae</i>
198. G	**Sideritis hyssopifolia Georgi The Alpine Botanical Garden "Viotte", Trento, ITA	<i>Lamiaceae</i>
199. G	*Stachys pradica (Zanted.) Greuter & Pignatti The Alpine Botanical Garden "Chanousia", ITA	<i>Lamiaceae</i>
200. W	Stachys recta L. LTU: Kaunas County, The local area Kaišiadorys district	<i>Lamiaceae</i>
201. G	*Fritillaria involucrata All. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Liliaceae</i>
202. G	*Linum suffruticosum Ortega ex Planch. subsp. apressum (Caball.) Rivas Mart. Botanical Garden University Innsbruck, AUT	<i>Linaceae</i>
203. G	**Kitaibelia vitifolia Willd. Botanical Garden of Amsterdam University, NLD	<i>Malvaceae</i>
204. G	**Syringa emodi Wall. ex Royle The Amur Branch of Botanical Garden-Institute, Far-East Division, Russian Academy of Sciences, Blagoveschensk, RUS	<i>Oleaceae</i>
205. W	**Dactylorhiza fuchsii (Druce) Soó LTU: The local area Kupiškis district	<i>Orchidaceae</i>
206. G	*Paeonia suffruticosa Andrews Skinderiškis Dendrology Park, Pajieslys, Kėdainiai district, LTU	<i>Paeoniaceae</i>

207. G	Papaver alpinum L. The Alpine Botanical Garden "Viotte", Trento, ITA	<i>Papaveraceae</i>
208. C	* Abies koreana E.H.Wilson The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Pinaceae</i>
209. C	Pinus L. 'Pygmea' The nursery of Zapyškis "Kika Flora", Kaunas district, LTU	<i>Pinaceae</i>
210. C	Pinus leucodermis Antoine 'Malinki' The Nursery UAB "Alandus", Lieporiai Šiauliai district, LTU	<i>Pinaceae</i>
211. G	Pinus strobus Thunb. Botanical Garden of Vilnius University, LTU	<i>Pinaceae</i>
212. C	** Pseudotsuga menziesii (Mirb.) Franco Radviliškis forest enterprice, Radviliškis, LTU	<i>Pinaceae</i>
213. P	Tsuga canadensis Carrière Private collection of A. Žakevičius, Šiauliai, LTU	<i>Pinaceae</i>
214. G	* Globularia punctata Lapeyr. Salaspils National Botanical Garden, LVA	<i>Plantaginaceae</i>
215. G	Gratiola officinalis L. Vytautas Magnus University Botanical Garden, LTU	<i>Plantaginaceae</i>
216. P	* Penstemon clutei A.Nelson Private collection of G. Pociūlienė, Pakalniškiai, Radviliškis district, LTU	<i>Plantaginaceae</i>
217. G	* Penstemon cyaneus Pennell The Botanical Garden of Bonn University, DEU	<i>Plantaginaceae</i>
218. G	** Penstemon eatonii A.Gray RHS Garden Wisley, UKR	<i>Plantaginaceae</i>
219. G	Penstemon nanus D.D.Keck Botanical Garden of the University of Tartu, EST	<i>Plantaginaceae</i>
220. G	* Penstemon procerus Douglas ex Graham Botanic Garden of Warsaw University, POL	<i>Plantaginaceae</i>
221. G	** Psyllium afrum Mirb. Botanical Garden of the Christian Albrechts University of Kiel, DEU	<i>Plantaginaceae</i>

222. U	**Veronica spicata L. 'Nana' Experimental Station of Field Floriculture, Vilnius, LTU	<i>Plantaginaceae</i>
223. G	*Anthoxanthum odoratum L. Vytautas Magnus University Botanical Garden, LTU	<i>Poaceae</i>
224. G	*Briza media L. Leuven Botanic Garden, BEL	<i>Poaceae</i>
225. W	*Bromopsis erecta (Huds.) Fourr. LTU: The local area Marijampolė district	<i>Poaceae</i>
226. U	Chasmanthium latifolium (Michx.) H.O.Yates The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>
227. U	*Coix lacryma-jobi L. The Commercial Source, LTU	<i>Poaceae</i>
228. G	*Corynephorus canescens P.Beauv. Vytautas Magnus University Botanical Garden, LTU	<i>Poaceae</i>
229. G	*Deschampsia tzelevii Prob. Botanical Garden-Institute Vladivostok, RUS	<i>Poaceae</i>
230. W	Festuca psammophila Fritsch LTU: Alytus County, The local area Merkinė, Varėna district	<i>Poaceae</i>
231. G	*Hystrix patula Moench The Botanical Garden of the University of Latvia, Riga, LVA	<i>Poaceae</i>
232. U	*Koeleria macrantha (Ledeb.) Schult. Lithuanian Research Centre for Agriculture and Forestry [Institute of Agriculture], LTU	<i>Poaceae</i>
233. W	*Melica ciliata L. LTU: The local area Anykščiai district	<i>Poaceae</i>
234. C	*Miscanthus sacchariflorus (Maxim.) Benth. & Hook.f. ex Franch. The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>
235. G	*Pennisetum alopecuroides (L.) Spreng. Botanic Garden of University of Konstanz, DEU	<i>Poaceae</i>

236. C	**Pennisetum villosum Hort. ex E.Vilm. The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>
237. W	**Poa remota Forselles LTU: The local area Anykščiai district	<i>Poaceae</i>
238. W	Sesleria caerulea (L.) Ard. LTU: Šiauliai County, The local area Gudmoniškė, Kelmė district	<i>Poaceae</i>
239. C	**Sporobolus heterolepis (A.Gray) A.Gray The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>
240. C	**Stipa calamagrostis Wahlenb. The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>
241. G	*Triticum spelta L. The Botanical Garden of Krefeld, DEU	<i>Poaceae</i>
242. G	*Triticum turgidum L. The Botanical Garden of Udmurt State University, RUS	<i>Poaceae</i>
243. G	*Zea mays L. 'Strawberri Corn' Botanical Garden of the University of Siena, ITA	<i>Poaceae</i>
244. G	Polemonium caeruleum L. Vytautas Magnus University Botanical Garden, LTU	<i>Polemoniaceae</i>
245. W	Fagopyrum tataricum (L.) Gaertn. LTU: Vilnius County, The local area Šalčininkai district	<i>Polygonaceae</i>
246. G	*Rumex conglomeratus Murray The Botanical Garden of the University of Münster, DEU	<i>Polygonaceae</i>
247. W	*Androsace septentrionalis L. LTU: Šiauliai County, The local area Šiauliai district	<i>Primulaceae</i>
248. G	Aconitum decipiens Vorosch. & Anfalov The Botanical Garden of the University of Regensburg, DEU	<i>Ranunculaceae</i>
249. G	**Aconitum lycoctonum L. University of Oxford Botanic Garden and Harcourt Arboretum, GBR	<i>Ranunculaceae</i>
250. G	*Aconitum volubile Muhl. Botanical Garden of the University of Tartu, EST	<i>Ranunculaceae</i>

251. G	**Actaea rubra (Aiton) Willd. Salaspils National Botanical Garden, LVA	<i>Ranunculaceae</i>
252. G	*Anemone altaica Fisch.ex.C.A.Mey. Botanic Garden of the Comenius University, Bratislava, SVK	<i>Ranunculaceae</i>
253. G	*Anemone demissa Hook.f. & Thomson The Botanical Garden of Bonn University, DEU	<i>Ranunculaceae</i>
254. G	*Anemone leveillei Ulbr. Vytautas Magnus University Botanical Garden, LTU	<i>Ranunculaceae</i>
255. G	**Aquilegia buergeriana Siebold & Zucc. 'Calimero' Memorial University of Newfoundland Botanical Garden, CAN	<i>Ranunculaceae</i>
256. G	**Aquilegia canadensis L. Botanic Garden of the Jagiellonian University, Kraków, POL	<i>Ranunculaceae</i>
257. G	Aquilegia vulgaris Thunb. 'Winky Double Red White' Ogród Botaniczny Zarząd Zieleni Miejskiej, POL	<i>Ranunculaceae</i>
258. G	Clematis hexapetala L.f. Ural State University Botanical Garden, Ekaterinburg, RUS	<i>Ranunculaceae</i>
259. G	*Clematis hirsutissima Pursh Botanical Garden University Innsbruck, AUT	<i>Ranunculaceae</i>
260. G	Clematis ianthina Koehne University of Alberta Devonian Botanic Garden, CAN	<i>Ranunculaceae</i>
261. G	Clematis integrifolia L. Botanical Garden of the Voroneszh State University B. M. Kozo-Poljanskii, RUS	<i>Ranunculaceae</i>
262. U	*Clematis viticella L. Skinderiškis Dendrology Park, Pajieslys, Kėdainiai district, LTU	<i>Ranunculaceae</i>
263. G	*Nigella damascena L. Medicinal Herbs Centre Faculty of Medicine Masaryk University, CZE	<i>Ranunculaceae</i>
264. G	Pulsatilla albana Bercht. & J.Presl Botanical Garden of Pyatigorsk State Pharmaceutical Academy, RUS	<i>Ranunculaceae</i>
265. W	*Pulsatilla pratensis (L.) Mill. LTU: Alytus County, The local area Prienai district, LT	<i>Ranunculaceae</i>

266. G	* Thalictrum foetidum L. Institute of Ecology and Botany Hungarian Academy of Sciences Botanic Garden, HUN	<i>Ranunculaceae</i>
267. G	** Thalictrum rochebrunianum Franch. & Sav. The Botanical Garden of the University of Regensburg, DEU	<i>Ranunculaceae</i>
268. G	* Trollius ranunculinus (Sm.) Stearn Mountain Botanical Garden of the Dagestan Scientific Centre, RUS	<i>Ranunculaceae</i>
269. W	* Agrimonia eupatoria L. LTU: The local area Joniškis district	<i>Rosaceae</i>
270. G	* Agrimonia procera Wallr. Vytautas Magnus University Botanical Garden, LTU	<i>Rosaceae</i>
271. U	** Alchemilla mollis (Buser) Rothm. Experimental Station of Field Floriculture, Vilnius, LTU	<i>Rosaceae</i>
272. G	Dryas drummondii Richardson ex Hook. The Botanical Garden of the University of Regensburg, DEU	<i>Rosaceae</i>
273. G	* Dryas octopetala L. var. vestita Beck Botanical Garden Rennsteiggarten Oberhof, DEU	<i>Rosaceae</i>
274. G	* Filipendula palmata (Pall.) Maxim. Vytautas Magnus University Botanical Garden, LTU	<i>Rosaceae</i>
275. G	* Geum urbanum L. Department of Botany and Soroksar Botanic Garden University of Horticulture, HUN • • •	<i>Rosaceae</i>
276. G	* Pyracantha coccinea M.Roem. Skinderiškis Dendrology Park, Pajieslys, Kėdainiai district, LTU	<i>Rosaceae</i>
277. G	Sanguisorba armena Boiss. Samenverzeichnis des Schau- und Sichtungsgartens Hermannshof / Weinheim, Weinheim, DEU	<i>Rosaceae</i>
278. G	* Sanguisorba dodecandra Moretti Tallinn Botanic Garden, EST	<i>Rosaceae</i>
279. G	** Sorbus koehneana C.K.Schneid. Botanical Garden of the University of Tartu, EST	<i>Rosaceae</i>
280. G	** Asperula aristata L. subsp. scabra Nyman Institute of Ecology and Botany Hungarian Academy of Sciences Botanic Garden, HUN	<i>Rubiaceae</i>

281. G	**Acer ginnala Maxim. Arboretum Novy Dvur, Opava, CZE	<i>Sapindaceae</i>
282. P	Saxifraga xapiculata Engl. 'Alba' Private collection of G. Pociūlienė, Pakalniškiai, Radviliškis district, LTU	<i>Saxifragaceae</i>
283. G	*Datura stramonium L. Botanical Garden of the Carinthian Botanic Center, Klagenfurt, AUT	<i>Solanaceae</i>
284. G	*Nicotiana langsdorffii Weinm. Botanical Garden, Faculty of Science, Masaryk University, Brno, CZE	<i>Solanaceae</i>
285. G	Physalis ixocarpa Brot. ex Hornem. Botanical Garden of Traupis, LTU	<i>Solanaceae</i>
286. G	*Solanum uporo Dunal Botanical Garden University Innsbruck, AUT	<i>Solanaceae</i>
287. W	Tofieldia calyculata Wahlenb. LTU: The local area Lazdijai district	<i>Tofieldiaceae</i>
288. W	Viola elatior Fr. LTU: The local area Vilnius district	<i>Violaceae</i>

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