



Šiaulių
akademija

INDEX SEMINUM 2023 No 23





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

VILNIUS 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. 104 300.

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.

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 684 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 46 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 1750 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*, *Echinacea*, *Astilbe*, *Chrysanthemum* 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 1527 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:

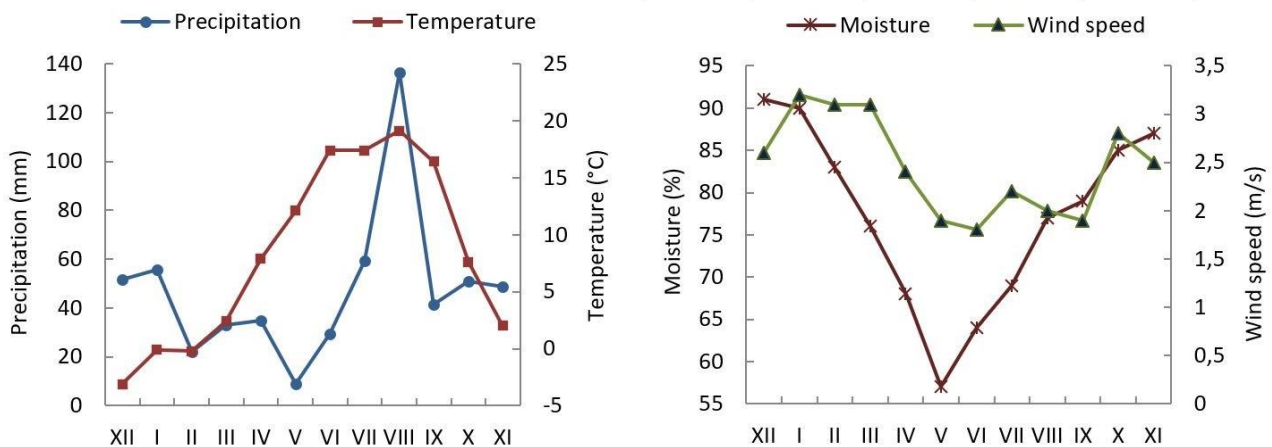


Fig. Distribution of mean month: precipitation and temperature (left), moisture and wind speed (right), from December 2022 till November 2023.

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

* - Seeds collected in 2022

** - Seeds collected in 2021

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

**SEEDS FROM PLANTS
CULTIVATED IN THE GARDEN**

1. G	<p>*Viburnum opulus L. var. sargentii N. V. Tsitsin's Botanical Garden of the Russian Academy of Sciences, Moscow, RUS</p>	<i>Adoxaceae</i>
2. G	<p>Sambucus ebulus L. Vytautas Magnus University Botanical Garden, Kaunas, LTU</p>	<i>Adoxaceae</i>
3. G	<p>Atriplex hortensis L. 'Rubra' Botanic Garden of the University of Copenhagen, DNK</p>	<i>Amaranthaceae</i>
4. G	<p>Beta vulgaris L. subsp. maritima Botanical Garden of Justus-Liebig-University Giessen, DEU</p>	<i>Amaranthaceae</i>
5. C	<p>**Allium caeruleum Pall. The Commercial Source, LTU</p>	<i>Amaryllidaceae</i>
6. G	<p>Allium carinatum subsp. pulchellum (G.Don) Bonnier & Layens Kovacs Pal Rock Garden, Dorog, HUN</p>	<i>Amaryllidaceae</i>
7. G	<p>**Allium cyathophorum Bureau & Franch. University of Bristol Botanic Garden, GBR</p>	<i>Amaryllidaceae</i>
8. G	<p>*Allium obliquum L. Vytautas Magnus University Botanical Garden, LTU</p>	<i>Amaryllidaceae</i>
9. C	<p>Allium schubertii Zucc. The Commercial Source, LTU</p>	<i>Amaryllidaceae</i>
10. W	<p>*Allium scorodoprasum L. LTU: Klaipėda County, The local area Priekulė, Klaipėda district</p>	<i>Amaryllidaceae</i>
11. C	<p>Allium siculum Ucria The Commercial Source, LTU</p>	<i>Amaryllidaceae</i>
12. G	<p>Allium sikkimense Baker Botanical Garden Gothenburg, SWE</p>	<i>Amaryllidaceae</i>
13. C	<p>*Allium sphaerocephalon L. The Commercial Source, LTU</p>	<i>Amaryllidaceae</i>

14. G	Allium victorialis L. Botanic Garden and Botanical Museum Berlin-Dahlem, DEU	<i>Amaryllidaceae</i>
15. G	**Amaryllis belladonna L. Tallinn Botanic Garden, EST	<i>Amaryllidaceae</i>
16. W	**Angelica archangelica L. LTU: The local area Joniškis district	<i>Apiaceae</i>
17. W	*Astrantia major L. LTU: The local area Žagarė, Joniškis district	<i>Apiaceae</i>
18. C	Astrantia major L. 'Claret' Farm "Bērziņi", LVA	<i>Apiaceae</i>
19. C	Astrantia major L. 'Pink Pride' Farm "Bērziņi", LVA	<i>Apiaceae</i>
20. G	Astrantia major L. 'Sunningdale Variegated' Botanical Garden of Šiauliai University, LTU	<i>Apiaceae</i>
21. C	Astrantia major L. 'Superstar' The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Apiaceae</i>
22. G	*Bupleurum griffithii 'Dekor' Ural State University Botanical Garden, Ekaterinburg, RUS	<i>Apiaceae</i>
23. G	**Bupleurum rigidum L. The Botanical Garden of Nice, FRA	<i>Apiaceae</i>
24. G	Carum carvi L. Vytautas Magnus University Botanical Garden, LTU	<i>Apiaceae</i>
25. G	*Chaerophyllum aromaticum L. Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DEU	<i>Apiaceae</i>
26. G	**Chaerophyllum aureum L. Botanical Garden University of Hamburg, DEU	<i>Apiaceae</i>
27. C	Coriandrum sativum L. The Commercial Source, LTU	<i>Apiaceae</i>
28. G	**Cryptotaenia canadensis (L.) DC. Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DEU	<i>Apiaceae</i>

29. G	*Cryptotaenia japonica Hassk. 'Atropurpurea' Botanical Garden of the University of Tartu, EST	<i>Apiaceae</i>
30. G	Cuminum cyminum L. The Botanical Garden of Naples, ITA	<i>Apiaceae</i>
31. W	**Daucus carota L. LTU: Šiauliai County, The local area Vinkšnėnai, Šiauliai district	<i>Apiaceae</i>
32. G	**Eryngium bourgatii Gouan University of Oxford Botanic Garden and Harcourt Arboretum, GBR	<i>Apiaceae</i>
33. G	*Eryngium bromeliifolium F.Delaroche Botanical Garden Teplice, CZE	<i>Apiaceae</i>
34. G	*Ferula assa-foetida L. Botanic Garden Meise, BEL	<i>Apiaceae</i>
35. G	*Foeniculum capillaceum Gilib. Botanic Garden of the Jagiellonian University, Kraków, POL	<i>Apiaceae</i>
36. G	*Laser trilobum (L.) Borkh. Botanic Garden of the Philipp University of Marburg, DEU	<i>Apiaceae</i>
37. P	**Laserpitium latifolium L. LTU: Telšiai County, Private collection of J. Balvočiūtė, Gyvoliai, Mažeikiai district, LT	<i>Apiaceae</i>
38. W	*Laserpitium latifolium L. LTU: The local area Mažeikiai district	<i>Apiaceae</i>
39. G	*Levisticum officinale W.D.J.Koch Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Apiaceae</i>
40. G	Ligusticum lucidum Mill. Alpine Garden Mt. Patscherkofel University Innsbruck, AUT	<i>Apiaceae</i>
41. P	*Meum athamanticum Jacq. Private collection of I. Burneckienė, Šiauliai, LTU	<i>Apiaceae</i>
42. G	Myrrhis odorata (L.) Scop. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Apiaceae</i>
43. G	*Orlaya grandiflora (L.) Hoffm. Botanical Garden of the Carinthian Botanic Center, Klagenfurt, AUT	<i>Apiaceae</i>

44. G	Orlaya grandiflora (L.) Hoffm. Alpine Garden Mt. Patscherkofel University Innsbruck, AUT	<i>Apiaceae</i>
45. G	*Peucedanum cervaria (L.) Lapeyr. Botanical Garden of the University Vienna, AUT	<i>Apiaceae</i>
46. G	**Peucedanum rablense W.D.J.Koch Botanical Garden of the Carinthian Botanic Center, Klagenfurt, AUT	<i>Apiaceae</i>
47. G	*Sanicula marilandica L. The Botanical Garden of Bonn University, DEU	<i>Apiaceae</i>
48. G	**Seseli elatum L. subsp. osseum (Crantz) P.W.Ball The Botanical Garden of the University of Tübingen, DEU	<i>Apiaceae</i>
49. G	*Seseli osseum Crantz Institute of Ecology and Botany Hungarian Academy of Sciences Botanical Garden, Vacratot, HUN	<i>Apiaceae</i>
50. W	**Anthericum ramosum L. LTU: The local area Kurtuvėnai, Šiauliai district	<i>Asparagaceae</i>
51. G	*Asparagus officinalis L. Botanical Garden of Šiauliai University, LTU	<i>Asparagaceae</i>
52. G	Muscari azureum Fenzl Reykjavik Botanical Garden, ISL	<i>Asparagaceae</i>
53. G	**Asphodeline brevicaulis J.Gay ex Baker Botanical Garden of Leipzig University, DEU	<i>Asphodelaceae</i>
54. W	Achillea millefolium L. LTU: Šiauliai County, The local area Vainagiai, Šiauliai district	<i>Asteraceae</i>
55. G	**Alfredia cernua (L.) Cass. Central Botanical Garden of National Academia Science of Belarus, Minsk, BLR	<i>Asteraceae</i>
56. G	Arctium tomentosum Mill. Botanical Garden of Šiauliai University, LTU	<i>Asteraceae</i>
57. G	Arnica sachalinensis A.Gray Salapils National Botanical Garden, LVA	<i>Asteraceae</i>

58. C	*Aster ptarmicoides (Nees) Torr. & A.Gray The Commercial Source, LVA	<i>Asteraceae</i>
59. G	Carthamus tinctorius L. Medicinal Herbs Centre Faculty of Medicine Masaryk University, CZE	<i>Asteraceae</i>
60. G	**Centaurea ruthenica Lam. Botanical Garden of the Ukrainian Academy of Science, Kiev, UKR	<i>Asteraceae</i>
61. G	**Chondrilla juncea L. The Botanical Garden of Bonn University, DEU	<i>Asteraceae</i>
62. G	Cichorium intybus L. "Anastasié Fátu" Botanic Garden, "Alexandru Ioan Cuza" University of Iasi, ROU	<i>Asteraceae</i>
63. G	*Cirsium heterophyllum (L.) Hill Botanical Garden University Innsbruck, AUT	<i>Asteraceae</i>
64. G	*Coreopsis grandiflora Hogg ex Sweet The Botanic Garden of the University of Pisa, ITA	<i>Asteraceae</i>
65. C	**Cosmos Cav. 'Antiquity' The Commercial Source, LTU	<i>Asteraceae</i>
66. C	**Cosmos sulphureus Cav. 'Cosmic Yellow' The Commercial Source, LTU	<i>Asteraceae</i>
67. G	**Erigeron atticus Vill. The Botanical Garden of the University of Regensburg, DEU	<i>Asteraceae</i>
68. G	**Erigeron speciosus DC. Botanic Garden Meise, BEL	<i>Asteraceae</i>
69. G	Eupatorium cannabinum L. Botanical Garden of Šiauliai University, LTU	<i>Asteraceae</i>
70. G	*Gerbera nivea C.B.Clarke Vera Csapody Hardy Plant Society of Hungary, Budapest, HUN	<i>Asteraceae</i>
71. W	*Gnaphalium luteoalbum L. LTU: Alytus County, The local area Merkinė, Varėna district	<i>Asteraceae</i>
72. G	Helichrysum thianschanicum Regel Botanical Garden Gothenburg, SWE	<i>Asteraceae</i>

73. U	Heliopsis helianthoides Sweet 'Loraine Sunshine' Experimental Station of Field Floriculture, LTU	<i>Asteraceae</i>
74. G	Leibnitzia anandria (L.) Turcz. Nancy Botanical Garden, FRA	<i>Asteraceae</i>
75. G	Leontopodium nivale (Ten.) A.Huet ex Hand.-Mazz. Botanischer Garten der Albert-Ludwigs-Universität Freiburg, DEU	<i>Asteraceae</i>
76. G	Rudbeckia hirta L. 'Cherokee Sunset' Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Asteraceae</i>
77. P	Scorzonera hispanica L. Private collection of R. Vainorienė, Šiauliai, LTU	<i>Asteraceae</i>
78. G	*Solidago rigida L. Salaspils National Botanical Garden, LVA	<i>Asteraceae</i>
79. G	**Solidago uliginosa Nutt. Salaspils National Botanical Garden, LVA	<i>Asteraceae</i>
80. G	*Sonchus palustris L. Botanical Garden of Justus-Liebig-University Giessen, DEU	<i>Asteraceae</i>
81. C	*Stokesia laevis (Hill) Greene The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Asteraceae</i>
82. G	**Tanacetum corymbosum L.Sch.Bip. Botanic Garden of Petrozavodsk State University, RUS	<i>Asteraceae</i>
83. G	Tanacetum vulgare L. Botanical Garden of Šiauliai University, LTU	<i>Asteraceae</i>
84. G	*Tripolium pannonicum (Jacq.) Dobrocz. subsp. tripolium (L.) Greuter Alexandru Borza Cluj-Napoca University Botanic Garden, ROU	<i>Asteraceae</i>
85. C	Impatiens balsamina L. The Commercial Source, LTU	<i>Balsaminaceae</i>
86. G	Incarvillea delavayi Bureau & Franch. 'Snowtop' The Botanical Garden Bielefeld, DEU	<i>Bignoniaceae</i>
87. G	**Incarvillea olgae Regel Vytautas Magnus University Botanical Garden, LTU	<i>Bignoniaceae</i>

88. G	**Incarvillea zhongdianensis Grey-Wilson The Botanical Garden Bielefeld, DEU	<i>Bignoniaceae</i>
89. G	Lithospermum officinale L. Botanical Garden of Traupis, LTU	<i>Boraginaceae</i>
90. G	Moltkia xintermedia (Froebel) J.W.Ingram The Alpine Garden, south of the Upper Belvedere, AUT	<i>Boraginaceae</i>
91. G	Moltkia suffruticosa (L.) Brand The Botanical Garden of Bonn University, DEU	<i>Boraginaceae</i>
92. G	Solenanthus apenninus Hohen. The Munich Botanical Garden, Nymphenburg, DEU	<i>Boraginaceae</i>
93. G	Alyssoides utriculata (L.) Medik. The Botanical Garden of Bonn University, DEU	<i>Brassicaceae</i>
94. P	Brassica napus L. subsp. napus 'Fenja' Private collection of M. Noraitis, Daugėlaičiai, Radviliškis district, LTU	<i>Brassicaceae</i>
95. G	**Bunias orientalis L. The Botanical Garden of the University of Latvia, Riga, LVA	<i>Brassicaceae</i>
96. G	Camelina sativa Boiss. Botanical Garden of the University of Tartu, EST	<i>Brassicaceae</i>
97. G	**Crambe abyssinica Hochst. ex R.E.Fr. Botanical Garden, Faculty of Science, Palacky University in Olomouc, CZE	<i>Brassicaceae</i>
98. G	**Crambe maritima L. Vytautas Magnus University Botanical Garden, LTU	<i>Brassicaceae</i>
99. U	**Hesperis matronalis L. Arboretum and Institute of Physiography in Bolestraszyce, POL	<i>Brassicaceae</i>
100. G	**Isatis tinctoria L. Botanic Garden Meise, BEL	<i>Brassicaceae</i>
101. G	*Lesquerella alpina (Nutt.) S.Watson The Botanical Garden of the University of Regensburg, DEU	<i>Brassicaceae</i>
102. W	*Lunaria rediviva L. LTU: Alytus County, The local area Merkinė, Varėna district	<i>Brassicaceae</i>

103. G	*Sinapis alba L. Jardins de Salagon, FRA	<i>Brassicaceae</i>
104. G	Vella spinosa Boiss. Botanical Garden University Innsbruck, AUT	<i>Brassicaceae</i>
105. W	*Campanula bononiensis L. LTU: The local area Kėdainiai district	<i>Campanulaceae</i>
106. W	*Campanula cervicaria L. LTU: Panevėžys County, The local area Paryžė, Kupiškis district	<i>Campanulaceae</i>
107. P	*Campanula glomerata L. 'Caroline' Vytautas Magnus University Botanical Garden, LTU	<i>Campanulaceae</i>
108. C	**Campanula latifolia L. The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Campanulaceae</i>
109. U	*Campanula punctata Lam. Experimental Station of Field Floriculture, Vilnius, LTU	<i>Campanulaceae</i>
110. G	Campanula sarmatica Ker Gawl. The Botanical Garden of the University of Tübingen, DEU	<i>Campanulaceae</i>
111. U	Campanula takesimana Nakai Experimental Station of Field Floriculture, Vilnius, LTU	<i>Campanulaceae</i>
112. G	**Edraianthus graminifolius A.DC. Botanical Garden of the University of Potsdam, DEU	<i>Campanulaceae</i>
113. G	*Canna indica L. Leuven Botanic Garden, BEL	<i>Cannaceae</i>
114. G	**Canna iridiflora Ruiz & Pav. The Botanical Garden "Vasile Fati" Jibou, ROU	<i>Cannaceae</i>
115. G	Cephalaria gigantea (Ledeb.) Bobrov Botanical Garden of the Urals Branch of Russian Academy of Sciences, RUS	<i>Caprifoliaceae</i>
116. G	**Cephalaria litvinovii Bobrov. Tallinn Botanic Garden, EST	<i>Caprifoliaceae</i>

117. G	**Dipsacus laciniatus L. Botanic Garden of Rennes, FRA	<i>Caprifoliaceae</i>
118. G	Morina longifolia Wall. ex DC. Botanical Garden of the Christian Albrechts University of Kiel, DEU	<i>Caprifoliaceae</i>
119. W	*Scabiosa columbaria L. LTU: The local area Vilnius district	<i>Caprifoliaceae</i>
120. W	*Succisella inflexa (Kluk) Beck LTU: The local area Kupiškis district	<i>Caprifoliaceae</i>
121. G	Agrostemma githago L. Botanischer Garten Chemnitz, Chemnitz, DEU	<i>Caryophyllaceae</i>
122. G	Arenaria kingii (S.Watson) M.E.Jones Botanical Garden University of Oslo, NOR	<i>Caryophyllaceae</i>
123. W	**Dianthus arenarius L. LTU: The local area Marcinkonys, Varėna district	<i>Caryophyllaceae</i>
124. W	**Dianthus arenarius L. subsp. arenarius LTU: The local area Perloja, Varėna district	<i>Caryophyllaceae</i>
125. G	*Dianthus carthusianorum L. Botanischer Garten Chemnitz, DEU	<i>Caryophyllaceae</i>
126. G	Petrorhagia saxifraga Link Botanic Garden Meise, BEL	<i>Caryophyllaceae</i>
127. G	**Saponaria officinalis L. "Anastasiu Fătu" Botanic Garden, "Alexandru Ioan Cuza" University of Iasi, ROU	<i>Caryophyllaceae</i>
128. W	Silene lituanica Zapal. LTU: The local area Marcinkonys, Varėna district	<i>Caryophyllaceae</i>
129. G	Silene pusilla Waldst. & Kit. Botanical Garden of the Christian Albrechts University of Kiel, DEU	<i>Caryophyllaceae</i>
130. G	**Silene sendtneri Boiss. Alpine Garden Mt. Patscherkofel University Innsbruck, AUT	<i>Caryophyllaceae</i>
131. G	*Silene suecica (Lodd.) Greuter & Burdet The Alpine Botanical Garden "Paradisina", ITA	<i>Caryophyllaceae</i>

132. W	**Silene tatarica Pers. LTU: The local area Liškiava, Varėna district	<i>Caryophyllaceae</i>
133. G	**Helianthemum nummularium Grosser subsp. glabrum (Koch) Wilczek. The Botanical Garden of the University of Regensburg, DEU	<i>Cistaceae</i>
134. W	*Carex buxbaumii Wahlenb. LTU: The local area Kėdainiai district	<i>Cyperaceae</i>
135. G	*Carex distans L. Vytautas Magnus University Botanical Garden, LTU	<i>Cyperaceae</i>
136. G	Carex pulicaris L. The Botanical Garden of Bonn University, DEU	<i>Cyperaceae</i>
137. G	*Cyperus esculentus L. Botanic Garden of Rostock University, Rostock, DEU	<i>Cyperaceae</i>
138. G	*Cleome dodecandra L. The Bergius Botanic Garden Stockholm University, SWE	<i>Cleomaceae</i>
139. C	*Cleome spinosa Sw. The Commercial Source, LTU	<i>Cleomaceae</i>
140. C	*Cleome spinosa Sw. 'White Queen' The Commercial Source, LTU	<i>Cleomaceae</i>
141. G	*Cleome violacea L. Botanic Garden of Johannes Gutenberg University Mainz, DEU	<i>Cleomaceae</i>
142. G	**Bryonia cretica L. Botanic Garden of Johannes Gutenberg University Mainz, DEU	<i>Cucurbitaceae</i>
143. G	*Thuja occidentalis L. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Cupressaceae</i>
144. G	Rhododendron brachycarpum subsp. fauriei (Franch.) D.F.Chamb. Salaspils National Botanical Garden, LVA	<i>Ericaceae</i>
145. P	Rhododendron catawbiense Michx. Private collection of A. Žakevičius, Šiauliai, LTU	<i>Ericaceae</i>

146. C	Rhododendron luteum Sweet Rhododendron Nursery Babite University of Latvia, LVA	<i>Ericaceae</i>
147. C	Rhododendron minus Michx. var. album Rhododendron Nursery Babite University of Latvia, LVA	<i>Ericaceae</i>
148. C	Rhododendron schlippenbachii Maxim. Rhododendron Nursery Babite University of Latvia, LVA	<i>Ericaceae</i>
149. G	**Astragalus adsurgens Pall. The Greifswald Botanic Garden and Arboretum, DEU	<i>Fabaceae</i>
150. G	*Astragalus cicer L. Botanic Garden of the Jagiellonian University, Kraków, POL	<i>Fabaceae</i>
151. G	Baptisia australis (L.) R.Br. Traupio Botanical Garden, LTU	<i>Fabaceae</i>
152. G	*Lathyrus pisiformis L. Botanical Garden of Vilnius University, LTU	<i>Fabaceae</i>
153. W	**Lathyrus sylvestris L. LTU: The local area Radviliškis district	<i>Fabaceae</i>
154. C	*Lupinus polyphyllus Lindl. 'Red Flame' The Commercial Source, LTU	<i>Fabaceae</i>
155. W	*Ornithopus perpusillus L. LTU: The local area Pociūnai, Prienai district	<i>Fabaceae</i>
156. G	**Ornithopus perpusillus L. Botanic Garden of University of Konstanz, Konstanz, DEU	<i>Fabaceae</i>
157. G	*Oxytropis halleri Bunge Alpine Garden Mt. Patscherkofel University Innsbruck, AUT	<i>Fabaceae</i>
158. C	Phaseolus vulgaris L. var. nanus 'Jin Jang' The Commercial Source, LTU	<i>Fabaceae</i>
159. G	**Phaseolus vulgaris L. var. nanus 'Purple Queen' The Botanical Garden of Bonn University, Bonn, DEU	<i>Fabaceae</i>

160. G	**Phaseolus vulgaris L. var. vulgaris 'Blauhilde' Botanical Garden Macea of the University Vest "Vasile Goldis" Arad, Comuna Macea, ROU	<i>Fabaceae</i>
161. C	*Pisum sativum L. 'Ezetha's Krombek Blauwschok' The Commercial Source, LTU	<i>Fabaceae</i>
162. G	**Trifolium ochroleucum Huds. The Botanical Garden of the Heinrich-Heine University, Dusseldorf, DEU	<i>Fabaceae</i>
163. P	Vicia faba L. 'Boxer' Private collection of M. Noraitis, Daugėlaičiai, Radviliškis district, LTU	<i>Fabaceae</i>
164. P	Gentiana asclepiadea L. 'Rosa' Private collection of G. Pociūlienė, Pakalniškiai, Radviliškis district, LTU	<i>Gentianaceae</i>
165. W	Gentiana cruciata L. LTU: The local area Lazdijai district	<i>Gentianaceae</i>
166. G	*Gentiana lutea Ruiz & Pav. ex G.Don The Botanical Garden of the University of Regensburg, DEU	<i>Gentianaceae</i>
167. G	*Pelargonium quinquelobatum Hochst. ex A.Rich. Bagatelle Park. The Botanical Garden of Paris, FRA	<i>Geraniaceae</i>
168. W	Hypericum hirsutum L. LTU: The local area Satkūnai, Joniškis district	<i>Hypericaceae</i>
169. G	**Hypericum orientale L. Botanical Garden of Vilnius University, LTU	<i>Hypericaceae</i>
170. W	Gladiolus imbricatus L. LTU: Vilnius County, The local area Širvintos district	<i>Iridaceae</i>
171. G	Iris graminea L. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Iridaceae</i>
172. W	*Iris sibirica L. LTU: Kaunas County, The local area Truskava, Kėdainiai district	<i>Iridaceae</i>
173. G	Olsynium douglasii (A.Dietr.) E.P.Bicknell Botanical Garden University of Oslo, NOR	<i>Iridaceae</i>
174. G	Sisyrinchium albidum Raf. Vera Csapody Hardy Plant Society of Hungary, Budapest, HUN	<i>Iridaceae</i>

175. G	Sisyrinchium angustifolium Mill. Volgograd Regional Botanical Garden, RUS	<i>Iridaceae</i>
176. G	*Sisyrinchium bellum S.Watson Tallinn Botanic Garden, EST	<i>Iridaceae</i>
177. G	Sisyrinchium bermudiana L. The Botanic Garden of the Georg-August-University, Goettingen, DEU	<i>Iridaceae</i>
178. G	Sisyrinchium montanum Greene Volgograd Regional Botanical Garden, RUS	<i>Iridaceae</i>
179. G	Sisyrinchium patagonicum Phil. ex Baker The Botanical Garden "Vasile Fati" Jibou, ROU	<i>Iridaceae</i>
180. W	*Dracocephalum ruyschiana L. LTU: The local area Anykščiai district	<i>Lamiaceae</i>
181. G	**Horminum pyrenaicum L. Salaspils National Botanical Garden, LVA	<i>Lamiaceae</i>
182. G	Leonurus cardiaca L. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Lamiaceae</i>
183. G	Leonurus quinquelobatus Gilib. The Botanical Garden of Udmurt State University, RUS	<i>Lamiaceae</i>
184. G	Nepeta camphorata Boiss. & Heldr. Botanical Garden of the Vrije Universiteit, Amsterdam, NLD	<i>Lamiaceae</i>
185. C	Phlomis tuberosa L. 'Bronze Flamingo' The nursery "Naudingi augalai", Lapės, Kaunas district, LTU	<i>Lamiaceae</i>
186. U	Prunella grandiflora (L.) Turra 'Altenberg Rosa' Experimental Station of Field Floriculture, Vilnius, LTU	<i>Lamiaceae</i>
187. W	*Prunella grandiflora (L.) Turra LTU: Alytus County, The local area Merkinė, Varėna district	<i>Lamiaceae</i>
188. C	Salvia nemorosa L. 'Salute Deep Blue Imp.' The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Lamiaceae</i>
189. W	*Salvia pratensis L. f. rubicunda LTU: Kaunas County, The local area Kaunas district	<i>Lamiaceae</i>

190. W	*Salvia pratensis L. LTU: Tauragė County, The local area Smalininkai, Jurbarkas district	<i>Lamiaceae</i>
191. C	Salvia sylvestris L. 'Blaukoning' Arboretum "Kokaudzētava Baltezers", LVA	<i>Lamiaceae</i>
192. C	Salvia viridis L. The Commercial Source, LTU	<i>Lamiaceae</i>
193. G	Scutellaria baicalensis Georgi Botanic Garden of Warsaw University, POL	<i>Lamiaceae</i>
194. W	*Scutellaria hastifolia L. LTU: Klaipėda County, The local area Galzdonai, Šilutės district	<i>Lamiaceae</i>
195. G	*Sideritis hirsuta Sieber ex Benth. Geneva City Conservatory and Botanical Garden, CHE	<i>Lamiaceae</i>
196. G	**Stachys pradica (Zanted.) Greuter & Pignatti The Alpine Botanical Garden "Chanousia", ITA	<i>Lamiaceae</i>
197. W	*Stachys recta L. LTU: Kaunas County, The local area Kaišiadorys district	<i>Lamiaceae</i>
198. G	Teucrium hircanicum L. The Botanical Garden of Bonn University, DEU	<i>Lamiaceae</i>
199. G	Fritillaria involucrata All. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Liliaceae</i>
200. G	Tulipa bifloriformis Vved. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Liliaceae</i>
201. G	Linum flavum L. Botanical Garden of Šiauliai University, LTU	<i>Linaceae</i>
202. G	**Linum suffruticosum Ortega ex Planch. subsp. apressum (Caball.) Rivas Mart. Botanical Garden University Innsbruck, AUT	<i>Linaceae</i>
203. C	Alcea rosea L. 'Nigra' The Commercial Source, LTU	<i>Malvaceae</i>
204. G	Sida hermaphrodita (L.) Rusby Botanic Garden of Warsaw University, POL	<i>Malvaceae</i>

205. G	Paeonia peregrina (Ames) R.González & Szlach. ex Mytnik University Botanic Garden, Sofia, BGR	<i>Paeoniaceae</i>
206. U	**Paeonia suffruticosa Andrews Skinderiškis Dendrology Park, Pajieslys, Kėdainiai district, LTU	<i>Paeoniaceae</i>
207. P	Argemone platyceras Link & Otto Private collection of V. Gasiūnaitė, Panevėžys district, LTU	<i>Papaveraceae</i>
208. G	Papaver alpinum L. The Alpine Botanical Garden "Viotte", Trento, ITA	<i>Papaveraceae</i>
209. C	**Abies koreana E.H.Wilson The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Pinaceae</i>
210. C	*Pinus L. 'Pygmea' The nursery of Zapyškis "Kika Flora", Kaunas district, LTU	<i>Pinaceae</i>
211. C	*Pinus leucodermis Antoine 'Malinki' The Nursery UAB "Alandus", Lieporiai Šiauliai district, LTU	<i>Pinaceae</i>
212. G	*Pinus strobus Thunb. Botanical Garden of Vilnius University, LTU	<i>Pinaceae</i>
213. P	Tsuga canadensis Carrière Private collection of A. Žakevičius, Šiauliai, LTU	<i>Pinaceae</i>
214. G	Antirrhinum hispanicum Chav. subsp. molissimum (Pau) D.A.Webb. Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DEU	<i>Plantaginaceae</i>
215. G	**Globularia punctata Lapeyr. Salaspils National Botanical Garden, LVA	<i>Plantaginaceae</i>
216. G	*Gratiola officinalis L. Vytautas Magnus University Botanical Garden, LTU	<i>Plantaginaceae</i>
217. P	**Penstemon clutei A.Nelson Private collection of G. Pociūlienė, Pakalniškiai, Radviliškis district, LTU	<i>Plantaginaceae</i>
218. G	**Penstemon cyaneus Pennell The Botanical Garden of Bonn University, DEU	<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	Plantago major L. Botanical Garden of Šiauliai University, LTU	<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. C	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 tzvelevii Prob. Botanical Garden-Institute Vladivostok, RUS	<i>Poaceae</i>
230. G	Echinochloa crus-galli (L.) P.Beauv. Botanical Garden of Šiauliai University, LTU	<i>Poaceae</i>
231. W	*Festuca psammophila Fritsch LTU: Alytus County, The local area Merkinė, Varėna district	<i>Poaceae</i>
232. G	**Hystrix patula Moench The Botanical Garden of the University of Latvia, Riga, LVA	<i>Poaceae</i>
233. U	**Koeleria macrantha (Ledeb.) Schult. Lithuanian Research Centre for Agriculture and Forestry [Institute of Agriculture], LTU	<i>Poaceae</i>

234. W	Melica ciliata L. LTU: The local area Anykščiai district	<i>Poaceae</i>
235. C	**Miscanthus sacchariflorus (Maxim.) Benth. & Hook.f. ex Franch. The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>
236. G	**Pennisetum alopecuroides (L.) Spreng. Botanic Garden of University of Konstanz, DEU	<i>Poaceae</i>
237. W	*Sesleria caerulea (L.) Ard. LTU: Šiauliai County, The local area Gudmoniškė, Kelmė district	<i>Poaceae</i>
238. C	Stipa calamagrostis Wahlenb. The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>
239. P	Themeda triandra Forssk. Private collection of E. Misiukevičius, Kaunas, LTU	<i>Poaceae</i>
240. G	**Triticum spelta L. The Botanical Garden of Krefeld, DEU	<i>Poaceae</i>
241. G	**Triticum turgidum L. The Botanical Garden of Udmurt State University, RUS	<i>Poaceae</i>
242. G	**Zea mays L. 'Strawberri Corn' Botanical Garden of the University of Siena, ITA	<i>Poaceae</i>
243. G	*Polemonium caeruleum L. Vytautas Magnus University Botanical Garden, LTU	<i>Polemoniaceae</i>
244. G	Eriogonum compositum Douglas ex Benth. Österreichische Gartenbau-Gesellschaft Landesgruppe Steiermark, AUT	<i>Polygonaceae</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	Dodecatheon jeffreyi Van Houtte Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Primulaceae</i>
249. G	*Aconitum decipiens Vorosch. & Anfalov The Botanical Garden of the University of Regensburg, DEU	<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	Anemone xlesseri Wehrh. Botanischer Garten St. Gallen, CHE	<i>Ranunculaceae</i>
256. G	Aquilegia chrysantha A.Gray var. chaplinei Reykjavik Botanical Garden, ISL	<i>Ranunculaceae</i>
257. G	*Aquilegia vulgaris Thunb. 'Winky Double Red White' Ogród Botaniczny Zarząd Zieleni Miejskiej, POL	<i>Ranunculaceae</i>
258. U	Clematis coactilis (Fernald) Keener Austrian Horticultural Society, Graz, AUT	<i>Ranunculaceae</i>
259. G	*Clematis hexapetala L.f. Ural State University Botanical Garden, Ekaterinburg, RUS	<i>Ranunculaceae</i>
260. G	Clematis hirsutissima Pursh Botanical Garden University Innsbruck, AUT	<i>Ranunculaceae</i>
261. G	*Clematis ianthina Koehne University of Alberta Devonian Botanic Garden, CAN	<i>Ranunculaceae</i>
262. G	Clematis integrifolia L. Botanical Garden of the Voroneszh State University B. M. Kozo-Poljanskii, RUS	<i>Ranunculaceae</i>

263. U	Clematis viticella L. Skinderiškis Dendrology Park, Pajieslys, Kėdainiai district, LTU	<i>Ranunculaceae</i>
264. G	** Nigella damascena L. Medicinal Herbs Centre Faculty of Medicine Masaryk University, CZE	<i>Ranunculaceae</i>
265. G	* Pulsatilla albana Bercht. & J.Presl Botanical Garden of Pyatigorsk State Pharmaceutical Academy, RUS	<i>Ranunculaceae</i>
266. W	** Pulsatilla pratensis (L.) Mill. LTU: Alytus County, The local area Prienai district, LT	<i>Ranunculaceae</i>
267. G	** Thalictrum foetidum L. Institute of Ecology and Botany Hungarian Academy of Sciences Botanic Garden, HUN	<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. G	* Dryas drummondii Richardson ex Hook. The Botanical Garden of the University of Regensburg, DEU	<i>Rosaceae</i>
272. G	** Dryas octopetala L. var. vestita Beck Botanical Garden Rennsteiggarten Oberhof, DEU	<i>Rosaceae</i>
273. G	** Filipendula palmata (Pall.) Maxim. Vytautas Magnus University Botanical Garden, LTU	<i>Rosaceae</i>
274. G	Filipendula ulmaria (L.) Maxim. Botanical Garden of Šiauliai University, 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	Potentilla argrophylla Wall. 'Zolotisto-Oranzhevaya' Botanic Garden of Petrozavodsk State University, RUS	<i>Rosaceae</i>

277. W	Potentilla argentea L. LTU: Šiauliai County, The local area Žagarė, Joniškis district	<i>Rosaceae</i>
278. G	Potentilla megalantha Takeda Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Rosaceae</i>
279. U	**Pyracantha coccinea M.Roem. Skinderiškis Dendrology Park, Pajieslys, Kėdainiai district, LTU	<i>Rosaceae</i>
280. G	*Sanguisorba armena Boiss. Samenverzeichnis des Schau- und Sichtungsgartens Hermannshof / Weinheim, Weinheim, DEU	<i>Rosaceae</i>
281. G	**Sanguisorba dodecandra Moretti Tallinn Botanic Garden, EST	<i>Rosaceae</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. G	Daphne alpina L. The Botanical Garden of Graz, Institute for Plant science, Karl-Franzens-University Graz, AUT	<i>Thymelaeaceae</i>
288. W	Tofieldia calyculata Wahlenb. LTU: The local area Lazdijai district	<i>Tofieldiaceae</i>
289. W	*Viola elatior Fr. LTU: The local area Vilnius district	<i>Violaceae</i>
290. G	Viola stagnina Kit. ex Schult. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Violaceae</i>

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