



Šiaulių
akademija
BOTANIKOS SODAS

INDEX SEMINUM 2024 No 24





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 over 1500 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 17 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:

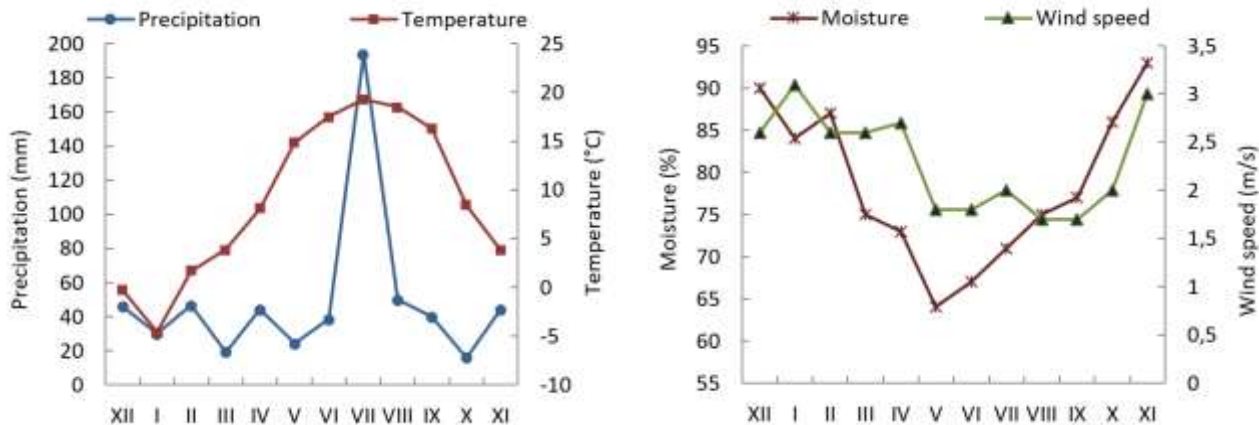


Fig. Distribution of mean month: precipitation and temperature (left), moisture and wind speed (right), from December 2023 till November 2024.

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

* - Seeds collected in 2023

** - Seeds collected in 2022

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 | Acanthus mollis L. var. niger
Botanical Garden, Faculty of Science, Palacky University in Olomouc, CZE | <i>Acanthaceae</i> |
| 2. G | *Sambucus ebulus L.
Vytautas Magnus University Botanical Garden, Kaunas, LTU | <i>Adoxaceae</i> |
| 3. G | **Viburnum opulus L. var. sargentii
N. V. Tsitsin's Botanical Garden of the Russian Academy of Sciences, Moscow, RUS | <i>Adoxaceae</i> |
| 4. G | *Atriplex hortensis L. 'Rubra'
Botanic Garden of the University of Copenhagen, DNK | <i>Amaranthaceae</i> |
| 5. G | *Beta vulgaris L. subsp. maritima
Botanical Garden of Justus-Liebig-University Giessen, DEU | <i>Amaranthaceae</i> |
| 6. G | *Allium carinatum subsp. pulchellum (G.Don) Bonnier & Layens
Kovacs Pal Rock Garden, Dorog, HUN | <i>Amaryllidaceae</i> |
| 7. G | **Allium obliquum L.
Vytautas Magnus University Botanical Garden, LTU | <i>Amaryllidaceae</i> |
| 8. G | Allium pskemense B.Fedtsch.
Botanical Garden Gothenburg, SWE | <i>Amaryllidaceae</i> |
| 9. C | Allium schubertii Zucc. 'Arctic Snow'
The Nursery "Verberghe Flowerbulbs", Hillegom, NLD | <i>Amaryllidaceae</i> |
| 10. C | *Allium schubertii Zucc.
The Commercial Source, LTU | <i>Amaryllidaceae</i> |
| 11. W | **Allium scorodoprasum L.
LTU: Klaipeda County, The local area Priekulė, Klaipėda district | <i>Amaryllidaceae</i> |
| 12. C | *Allium siculum Ucria
The Commercial Source, LTU | <i>Amaryllidaceae</i> |
| 13. G | *Allium sikkimense Baker
Botanical Garden Gothenburg, SWE | <i>Amaryllidaceae</i> |
| 14. C | **Allium sphaerocephalon L.
The Commercial Source, LTU | <i>Amaryllidaceae</i> |

15. G	*Allium victorialis L. Botanic Garden and Botanical Museum Berlin-Dahlem, DEU	<i>Amaryllidaceae</i>
16. C	Anethum graveolens L. 'Mammoth' The Commercial Source, LTU	<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. G	Astrantia major L. 'Helen' Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Apiaceae</i>
20. C	*Astrantia major L. 'Pink Pride' Farm "Bērziņi", LVA	<i>Apiaceae</i>
21. G	*Astrantia major L. 'Sunningdale Variegated' Botanical Garden of Šiauliai University, LTU	<i>Apiaceae</i>
22. C	*Astrantia major L. 'Superstar' The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Apiaceae</i>
23. G	Bupleurum ranunculoides L. Botanical Garden of the University of Zurich, CHE	<i>Apiaceae</i>
24. G	**Bupleurum griffithii 'Dekor' Ural State University Botanical Garden, Ekaterinburg, RUS	<i>Apiaceae</i>
25. G	*Carum carvi L. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Apiaceae</i>
26. G	**Chaerophyllum aromaticum L. Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DEU	<i>Apiaceae</i>
27. C	*Coriandrum sativum L. Commercial Source, LTU	<i>Apiaceae</i>
28. G	**Cryptotaenia japonica Hassk. 'Atropurpurea' Botanical Garden of the University of Tartu, EST	<i>Apiaceae</i>
29. G	*Cuminum cyminum L. The Botanical Garden of Naples, ITA	<i>Apiaceae</i>

30. W	Daucus carota L. LTU: Šiauliai County, The local area Vinkšnėnai, Šiauliai district	<i>Apiaceae</i>
31. G	**Eryngium bromeliifolium F.Delaroche Botanical Garden Teplice, CZE	<i>Apiaceae</i>
32. G	**Ferula assa-foetida L. Botanic Garden Meise, BEL	<i>Apiaceae</i>
33. G	**Foeniculum capillaceum Gilib. Botanic Garden of the Jagiellonian University, Kraków, POL	<i>Apiaceae</i>
34. G	**Laser trilobum (L.) Borkh. Botanic Garden of the Philipp University of Marburg, DEU	<i>Apiaceae</i>
35. W	**Laserpitium latifolium L. LTU: The local area Mažeikiai district	<i>Apiaceae</i>
36. G	**Levisticum officinale W.D.J.Koch Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Apiaceae</i>
37. G	*Ligusticum lucidum Mill. Alpine Garden Mt. Patscherkofel University Innsbruck, AUT	<i>Apiaceae</i>
38. P	**Meum athamanticum Jacq. Private collection of I. Burneckienė, Šiauliai, LTU	<i>Apiaceae</i>
39. G	*Myrrhis odorata (L.) Scop. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Apiaceae</i>
40. G	*Orlaya grandiflora (L.) Hoffm. Botanical Garden of the Carinthian Botanic Center, Klagenfurt, AUT	<i>Apiaceae</i>
41. C	Petroselinum crispum (Mill.) Fuss 'Festival 68' The Commercial Source, LTU	<i>Apiaceae</i>
42. G	**Peucedanum cervaria (L.) Lapeyr. Botanical Garden of the University Vienna, AUT	<i>Apiaceae</i>
43. G	*Prangos trifida (Mill.) Herrnst. & Heyn Botanical Garden of the University of Tartu, EST	<i>Apiaceae</i>
44. G	**Sanicula marilandica L. The Botanical Garden of Bonn University, DEU	<i>Apiaceae</i>

45. G	**Seseli osseum Crantz Institute of Ecology and Botany Hungarian Academy of Sciences Botanical Garden, Vacratot, HUN	<i>Apiaceae</i>
46. G	Amsonia elliptica (Thunb.) Roem. & Schult. Alexandru Borza Cluj-Napoca University Botanic Garden, ROU	<i>Apocynaceae</i>
47. P	Asclepias incarnata L. 'Cindarella' Private collection of G. Pociūlienė, Pakalniškiai, Radviliškis district, LTU	<i>Apocynaceae</i>
48. W	Anthericum ramosum L. LTU: The local area Kurtuvėnai, Šiauliai district	<i>Asparagaceae</i>
49. G	**Asparagus officinalis L. Botanical Garden of Šiauliai University, LTU	<i>Asparagaceae</i>
50. G	*Muscari azureum Fenzl Reykjavik Botanical Garden, ISL	<i>Asparagaceae</i>
51. G	*Asphodeline taurica (Pall.) Endl. Akureyri Botanical Garden, ISL	<i>Asphodelaceae</i>
52. G	Gasteria cheilophylla Baker Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DEU	<i>Asphodelaceae</i>
53. W	Achillea chrysocoma Friv. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Asteraceae</i>
54. W	Achillea millefolium L. LTU: Šiauliai County, The local area Vainagiai, Šiauliai district	<i>Asteraceae</i>
55. G	*Arctium tomentosum Mill. Botanical Garden of Šiauliai University, LTU	<i>Asteraceae</i>
56. G	Arnica montana Hook. Giardino botanico di Oropa, ITA	<i>Asteraceae</i>
57. G	Arnica sachalinensis A.Gray Salaspils National Botanical Garden, LVA	<i>Asteraceae</i>
58. W	Artemisia absinthium L. LTU: Alytus County, The local area Varėna district	<i>Asteraceae</i>

59. P	Aster 'Golden Sunshine' Private collection of G. Pociūlienė, Pakalniškiai, Radviliškis district, LTU	<i>Asteraceae</i>
60. C	**Aster ptarmicoides (Nees) Torr. & A.Gray The Commercial Source, LVA	<i>Asteraceae</i>
61. G	*Carthamus tinctorius L. Medicinal Herbs Centre Faculty of Medicine Masaryk University, CZE	<i>Asteraceae</i>
62. G	*Cichorium intybus L. "Anastasié Fătu" 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	Eupatorium L. 'Baby Joe' The nursery "Naudingis augalai", Lapės, Kaunas district, LT, LTU	<i>Asteraceae</i>
66. G	*Eupatorium cannabinum L. Botanical Garden of Šiauliai University, LTU	<i>Asteraceae</i>
67. C	Eupatorium maculatum L. 'Riesenschirm' The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Asteraceae</i>
68. G	Eupatorium maculatum L. 'Purple Bush' Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Asteraceae</i>
69. Z	Eupatorium maculatum L. 'Red Dwarf' Vytautas Magnus University Botanical Garden, Kaunas, 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 'Lorraine Sunshine' Experimental Station of Field Floriculture, LTU	<i>Asteraceae</i>

74. G	Heliopsis scabra Dunal Botanical Garden of Šiauliai University, LTU	<i>Asteraceae</i>
75. G	Heterotheca villosa (Push) Shinnery Botanical Garden Prague, CZE	<i>Asteraceae</i>
76. G	*Leibnitzia anandria (L.) Turcz. Nancy Botanical Garden, FRA	<i>Asteraceae</i>
77. G	Leibnitzia anandria (L.) Turcz. Botanical Garden-Institute Vladivostok, RUS	<i>Asteraceae</i>
78. G	Leontopodium coreanum Nakai Botanischer Garten & Naturkundliche Station der Stadt Linz, AUT	<i>Asteraceae</i>
79. G	*Leontopodium nivale (Ten.) A.Huet ex Hand.-Mazz. Botanischer Garten der Albert-Ludwigs-Universität Freiburg, DEU	<i>Asteraceae</i>
80. G	Madia sativa Molina Botanical Garden, Faculty of Science, Masaryk University, Brno, CZE	<i>Asteraceae</i>
81. G	Rhaponticum cynaroides Less. Botanical Garden, Faculty of Science, Masaryk University, Brno, CZE	<i>Asteraceae</i>
82. G	*Rudbeckia hirta L. 'Cherokee Sunset' Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Asteraceae</i>
83. P	*Scorzonera hispanica L. Private collection of R. Vainorienė, Šiauliai, LTU	<i>Asteraceae</i>
84. G	**Solidago rigida L. Salaspils National Botanical Garden, LVA	<i>Asteraceae</i>
85. G	**Sonchus palustris L. Botanical Garden of Justus-Liebig-University Giessen, Giessen, DEU	<i>Asteraceae</i>
86. C	**Stokesia laevis (Hill) Greene The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Asteraceae</i>
87. G	Tanacetum parthenium Sch.Bip. The Botanical Garden "Vasile Fati" Jibou, ROU	<i>Asteraceae</i>
88. G	Tanacetum vulgare L. Botanical Garden of Šiauliai University, LTU	<i>Asteraceae</i>

89. G	Tripolium pannonicum (Jacq.) Dobrocz. subsp. tripolium (L.) Greuter Alexandru Borza Cluj-Napoca University Botanic Garden, ROU	<i>Asteraceae</i>
90. C	*Impatiens balsamina L. The Commercial Source, LTU	<i>Balsaminaceae</i>
91. G	*Incarvillea delavayi Bureau & Franch. 'Snowtop' The Botanical Garden Bielefeld, DEU	<i>Bignoniaceae</i>
92. G	Borago officinalis L. Botanical Garden of Šiauliai University, LTU	<i>Boraginaceae</i>
93. G	*Lithospermum officinale L. Botanical Garden of Traupis, LTU	<i>Boraginaceae</i>
94. G	*Moltkia ×intermedia (Froebel) J.W.Ingram The Alpine Garden, south of the Upper Belvedere, AUT	<i>Boraginaceae</i>
95. G	*Moltkia suffruticosa (L.) Brand The Botanical Garden of Bonn University, DEU	<i>Boraginaceae</i>
96. G	Solenanthus apenninus Hohen. The Munich Botanical Garden, Nymphenburg, DEU	<i>Boraginaceae</i>
97. G	*Alyssoides utriculata (L.) Medik. The Botanical Garden of Bonn University, DEU	<i>Brassicaceae</i>
98. P	*Brassica napus L. subsp. napus 'Fenja' Private collection of M. Noraitis, Daugėlaičiai, Radviliškis district, LTU	<i>Brassicaceae</i>
99. G	*Camelina sativa Boiss. Botanical Garden of the University of Tartu, EST	<i>Brassicaceae</i>
100. G	Fibigia clypeata (L.) Medik. Amis Bourguignons des Jardins du Monde (ABJ'M), FRA	<i>Brassicaceae</i>
101. G	Lepidium latifolium L. Humboldt University of Berlin, Institute of Biology, Arboretum, DEU	<i>Brassicaceae</i>
102. G	**Lesquerella alpina (Nutt.) S.Watson The Botanical Garden of the University of Regensburg, DEU	<i>Brassicaceae</i>
103. W	Lunaria rediviva L. LTU: Alytus County, The local area Merkinė, Varėna district	<i>Brassicaceae</i>

104. G	**Sinapis alba L. Jardins de Salagon, FRA	<i>Brassicaceae</i>
105. G	Sinapis arvensis L. Botanical Garden of Šiauliai University, LTU	<i>Brassicaceae</i>
106. G	*Vella spinosa Boiss. Botanical Garden University Innsbruck, AUT	<i>Brassicaceae</i>
107. W	**Campanula bononiensis L. LTU: The local area Kėdainiai district	<i>Campanulaceae</i>
108. W	**Campanula cervicaria L. LTU: Panevėžys County, The local area Paryžė, Kupiškis district	<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	**Canna indica L. Leuven Botanic Garden, BEL	<i>Cannaceae</i>
113. G	*Cephalaria gigantea (Ledeb.) Bobrov Botanical Garden of the Urals Branch of Russian Academy of Sciences, RUS	<i>Caprifoliaceae</i>
114. G	Morina longifolia Wall. ex DC. Botanical Garden of the Christian Albrechts University of Kiel, DEU	<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 himalayanum Wall. Botanical Garden of the University of Tartu, EST	<i>Caprifoliaceae</i>

119. G	*Agrostemma githago L. Botanischer Garten Chemnitz, Chemnitz, DEU	<i>Caryophyllaceae</i>
120. G	*Arenaria kingii (S.Watson) M.E.Jones Botanical Garden University of Oslo, NOR	<i>Caryophyllaceae</i>
121. W	Dianthus arenarius L. LTU: The local area Marcinkonys, Varėna district	<i>Caryophyllaceae</i>
122. G	**Dianthus carthusianorum L. Botanischer Garten Chemnitz, DEU	<i>Caryophyllaceae</i>
123. P	Lychnis chalconica L. 'Carnea' Private collection of V. Gasiūnaitė, Panevėžys district, LT, LTU	<i>Caryophyllaceae</i>
124. G	*Petrorhagia saxifraga Link Botanic Garden Meise, BEL	<i>Caryophyllaceae</i>
125. W	Saponaria officinalis L. LTU: Panevėžys County, The local area Pasvalys district	<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, Kiel, DEU	<i>Caryophyllaceae</i>
128. G	**Silene suecica (Lodd.) Greuter & Burdet The Alpine Botanical Garden "Paradisica", ITA	<i>Caryophyllaceae</i>
129. W	Silene tatarica Pers. LTU: The local area Liškiava, Varėna district	<i>Caryophyllaceae</i>
130. W	Carex buxbaumii Wahlenb. LTU: The local area Kėdainiai district	<i>Cyperaceae</i>
131. G	Carex distans L. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Cyperaceae</i>
132. G	*Carex pulicaris L. The Botanical Garden of Bonn University, DEU	<i>Cyperaceae</i>
133. G	**Cyperus esculentus L. Botanic Garden of Rostock University, Rostock, DEU	<i>Cyperaceae</i>

134. G	**Cleome dodecandra L. The Bergius Botanic Garden Stockholm University, SWE	<i>Cleomaceae</i>
135. G	**Cleome violacea L. Botanic Garden of Johannes Gutenberg University Mainz, DEU	<i>Cleomaceae</i>
136. C	Cucurbita maxima Lam. 'Crown Prince F1' The Commercial Source, LTU	<i>Cucurbitaceae</i>
137. C	Cucurbita maxima Lam. 'Pink Jumbo Banana' The Commercial Source, LTU	<i>Cucurbitaceae</i>
138. P	Lagenaria siceraria (Molina) Standl. 'Birdhouse' Private collection of V. Kazlauskienė, Vinkšnėnai, Šiauliai district, LTU	<i>Cucurbitaceae</i>
139. G	**Thuja occidentalis L. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Cupressaceae</i>
140. G	*Rhododendron brachycarpum subsp. fauriei (Franch.) D.F.Chamb. Salaspils National Botanical Garden, LVA	<i>Ericaceae</i>
141. P	*Rhododendron catawbiense Michx. Private collection of A. Žakevičius, Šiauliai, LTU	<i>Ericaceae</i>
142. C	*Rhododendron luteum Sweet Rhododendron Nursery Babite University of Latvia, LVA	<i>Ericaceae</i>
143. C	*Rhododendron minus Michx. var. album Rhododendron Nursery Babite University of Latvia, LVA	<i>Ericaceae</i>
144. C	*Rhododendron schlippenbachii Maxim. Rhododendron Nursery Babite University of Latvia, LVA	<i>Ericaceae</i>
145. G	**Astragalus cicer L. Botanic Garden of the Jagiellonian University, Kraków, POL	<i>Fabaceae</i>
146. G	*Baptisia australis (L.) R.Br. Traupio Botanical Garden, LTU	<i>Fabaceae</i>
147. G	Genista sagittalis L. Salaspils National Botanical Garden, LVA	<i>Fabaceae</i>
148. C	Lathyrus odoratus L. The Commercial Source, LTU	<i>Fabaceae</i>

149. G	Lathyrus pisiformis L. Botanical Garden of Vilnius University, LTU	<i>Fabaceae</i>
150. C	Lupinus polyphyllus Lindl. 'Red Flame' Commercial Source, LTU	<i>Fabaceae</i>
151. W	**Ornithopus perpusillus L. LTU: The local area Pociūnai, Prienai district	<i>Fabaceae</i>
152. C	Phaseolus vulgaris L. 'Purple Teepee' The Commercial Source, LTU	<i>Fabaceae</i>
153. P	Phaseolus vulgaris L. 'Ūdenskritums' Private collection of P. Valainis, Suviekas, Zarasai district, LTU	<i>Fabaceae</i>
154. C	Phaseolus vulgaris L. var. nanus 'Jin Jang' The Commercial Source, LTU	<i>Fabaceae</i>
155. G	Phaseolus vulgaris L. var. vulgaris 'Blauhilde' Botanical Garden Macea of the University Vest "Vasile Goldis" Arad, Comuna Macea, ROU	<i>Fabaceae</i>
156. C	Pisum sativum L. 'Ezetha's Krombek Blauwschok' Commercial Source, LTU	<i>Fabaceae</i>
157. G	Thermopsis villosa (Walter) Fernald & B.G.Schub. Botanical Garden of the University of Zurich, CHE	<i>Fabaceae</i>
158. G	Trifolium fragiferum L. Jardin Botanique Bordeaux, FRA	<i>Fabaceae</i>
159. P	Vicia faba L. 'Boxer' Private collection of M. Noraitis, Daugėlaičiai, Radviliškis district, LTU	<i>Fabaceae</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. W	*Hypericum hirsutum L. LTU: The local area Satkūnai, Joniškis district	<i>Hypericaceae</i>

163. G	Hypericum perforatum L. Botanical Garden of Šiauliai University, LTU	<i>Hypericaceae</i>
164. W	*Gladiolus imbricatus L. LTU: Vilnius County, The local area Širvintos district	<i>Iridaceae</i>
165. G	*Iris graminea L. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Iridaceae</i>
166. W	**Iris sibirica L. LTU: Kaunas County, The local area Truskava, Kėdainiai district	<i>Iridaceae</i>
167. G	*Olsynium douglasii (A.Dietr.) E.P.Bicknell Botanical Garden University of Oslo, NOR	<i>Iridaceae</i>
168. G	*Sisyrinchium albidum Raf. Vera Csapody Hardy Plant Society of Hungary, Budapest, HUN	<i>Iridaceae</i>
169. G	*Sisyrinchium angustifolium Mill. Volgograd Regional Botanical Garden, RUS	<i>Iridaceae</i>
170. G	**Sisyrinchium bellum S.Watson Tallinn Botanic Garden, EST	<i>Iridaceae</i>
171. G	*Sisyrinchium bermudiana L. The Botanic Garden of the Georg-August-University, Goettingen, Goettingen, DEU	<i>Iridaceae</i>
172. G	*Sisyrinchium montanum Greene Volgograd Regional Botanical Garden, RUS	<i>Iridaceae</i>
173. G	*Sisyrinchium patagonicum Phil. ex Baker The Botanical Garden "Vasile Fati" Jibou, ROU	<i>Iridaceae</i>
174. P	Dracocephalum moldavica L. Private collection of V. Gasiūnaitė, Panevėžys district, LTU	<i>Lamiaceae</i>
175. W	Dracocephalum ruyschiana L. LTU: The local area Anykščiai district	<i>Lamiaceae</i>
176. G	Hyssopus officinalis L. Botanical Garden of Šiauliai University, LTU	<i>Lamiaceae</i>
177. G	Horminum pyrenaicum L. Salaspils National Botanical Garden, LVA	<i>Lamiaceae</i>

178. G	Lavandula angustifolia Bubani 'Alba' Botanical Garden, Faculty of Science, Masaryk University, Brno, CZE	<i>Lamiaceae</i>
179. G	Leonurus cardiaca L. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Lamiaceae</i>
180. G	*Leonurus quinquelobatus Gilib. The Botanical Garden of Udmurt State University, RUS	<i>Lamiaceae</i>
181. W	Mentha longifolia (L.) Huds. LTU: Panevėžys County, The local area Pupiniai, Kupiškis district	<i>Lamiaceae</i>
182. G	Monarda L. 'Violet Queen' Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Lamiaceae</i>
183. P	Perilla frutescens (L.) Britton Private collection of R. Šulskienė, Šiauliai, LTU	<i>Lamiaceae</i>
184. C	*Phlomis tuberosa L. 'Bronze Flamingo' The nursery "Naudingi augalai", Lapės, Kaunas district, LT, LTU	<i>Lamiaceae</i>
185. W	Prunella grandiflora (L.) Turra LTU: Alytus County, The local area Merkinė, Varėna district	<i>Lamiaceae</i>
186. U	*Prunella grandiflora (L.) Turra 'Altenberg Rosa' Experimental Station of Field Floriculture, Vilnius, LTU	<i>Lamiaceae</i>
187. C	*Salvia nemorosa L. 'Salute Deep Blue Imp.' The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Lamiaceae</i>
188. W	**Salvia pratensis L. LTU: Taurage County, The local area Smalininkai, Jurbarkas district	<i>Lamiaceae</i>
189. W	**Salvia pratensis L. f. rubicunda LTU: Kaunas County, The local area Kaunas district	<i>Lamiaceae</i>
190. C	*Salvia sylvestris L. 'Blaukoning' Arboretum "Kokaudzētava Baltezers", LVA	<i>Lamiaceae</i>
191. C	*Salvia viridis L. The Commercial Source, LTU	<i>Lamiaceae</i>
192. W	**Scutellaria hastifolia L. LTU: Klaipėda County, The local area Galzdonai, Šilutės district	<i>Lamiaceae</i>

193. G	Sideritis hirsuta Sieber ex Benth. Geneva City Conservatory and Botanical Garden, CHE	<i>Lamiaceae</i>
194. W	**Stachys recta L. LTU: Kaunas County, The local area Kaišiadorys district	<i>Lamiaceae</i>
195. G	Teucrium montanum L. Botanical Garden of the University of Tartu, EST	<i>Lamiaceae</i>
196. G	*Teucrium hircanicum L. The Botanical Garden of Bonn University, DEU	<i>Lamiaceae</i>
197. G	Teucrium orientale L. Samenverzeichnis des Schau- und Sichtungsgartens Hermannshof / Weinheim, DEU	<i>Lamiaceae</i>
198. G	*Fritillaria involucrata All. Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Liliaceae</i>
199. G	*Tulipa bifloriformis Vved. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Liliaceae</i>
200. G	Tulipa clusiana DC. 'Tinka' Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Liliaceae</i>
201. G	Tulipa tarda Stapf Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Liliaceae</i>
202. G	Linum flavum L. Botanical Garden of Šiauliai University, LTU	<i>Linaceae</i>
203. C	Alcea rosea L. 'Nigra' The Commercial Source, LTU	<i>Malvaceae</i>
204. G	Lavatera trimestris L. 'Parade' Alexandru Borza Cluj-Napoca University Botanic Garden, ROU	<i>Malvaceae</i>
205. G	Malva sylvestris L. Botanical Garden Of Medicinal Plants Department Of Biology And Pharmaceutical Botany Wroclaw University Of Medicine, POL	<i>Malvaceae</i>
206. G	*Sida hermaphrodita (L.) Rusby Botanic Garden of Warsaw University, POL	<i>Malvaceae</i>
207. G	Chamerion angustifolium (L.) Holub Botanical Garden of Šiauliai University, LTU	<i>Onagraceae</i>

208. G	*Paeonia peregrina (Ames) R.González & Szlach. ex Mytnik University Botanic Garden, Sofia, BGR	<i>Paeoniaceae</i>
209. P	*Argemone platyceras Link & Otto Private collection of V. Gasiūnaitė, Panevėžys district, LTU	<i>Papaveraceae</i>
210. G	*Papaver alpinum L. The Alpine Botanical Garden "Viotte", Trento, ITA	<i>Papaveraceae</i>
211. C	**Pinus leucodermis Antoine 'Malinki' The nursery "Lieporių medelynas" (Alandus UAB), Šiauliai, LTU	<i>Pinaceae</i>
212. C	**Pinus 'Pygmea' The nursery of Zpyškis "Kika Flora", Kaunas district, LTU	<i>Pinaceae</i>
213. G	**Pinus strobus Thunb. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Pinaceae</i>
214. P	*Tsuga canadensis Carrière Private collection of A. Žakevičius, Šiauliai, LTU	<i>Pinaceae</i>
215. G	Antirrhinum hispanicum Chav. subsp. molissimum (Pau) D.A.Webb. Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DEU	<i>Plantaginaceae</i>
216. G	**Gratiola officinalis L. Botanical Garden Vytautas Magnus University, Kaunas, LTU	<i>Plantaginaceae</i>
217. G	**Penstemon nanus D.D.Keck Botanical Garden of the University of Tartu, EST	<i>Plantaginaceae</i>
218. G	Penstemon kunthii G.Don Botanic Garden and Arboretum Mendel University of Agriculture and Forestry Brno, CZE	<i>Plantaginaceae</i>
219. G	Plantago major L. Botanical Garden of Šiauliai University, LTU	<i>Plantaginaceae</i>
220. U	Veronica spicata L. 'Nana' Experimental Station of Field Floriculture, Vilnius, LTU	<i>Plantaginaceae</i>
221. C	**Chasmanthium latifolium (Michx.) H.O.Yates The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>

222. C	*Coix lacryma-jobi L. The Commercial Source, LTU	<i>Poaceae</i>
223. G	*Echinochloa crus-galli (L.) P.Beauv. Botanical Garden of Šiauliai University, LTU	<i>Poaceae</i>
224. W	Festuca psammophila Fritsch LTU: Alytus County, The local area Merkinė, Varėna district	<i>Poaceae</i>
225. W	*Melica ciliata L. LTU: The local area Anykščiai district	<i>Poaceae</i>
226. C	Pennisetum alupecuroides 'Hameln' The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>
227. U	Secale cereale L. Žaliūkiai Village Miller's Farmstead-Museum, LTU	<i>Poaceae</i>
228. W	Sesleria caerulea (L.) Ard. LTU: Šiauliai County, The local area Gudmoniškė, Kelmė district	<i>Poaceae</i>
229. G	Setaria italica (L.) P.Beauv. The Botanical Garden of Krefeld, DEU	<i>Poaceae</i>
230. G	Sorghum bicolor (L.) Moench Botanic Garden of Rennes, FRA	<i>Poaceae</i>
231. C	*Stipa calamagrostis Wahlenb. The nursery "Virblės medelynas", Butkai, Klaipėda district, LTU	<i>Poaceae</i>
232. P	*Themeda triandra Forssk. Private collection of E. Misiukevičius, Kaunas, LTU	<i>Poaceae</i>
233. G	**Polemonium caeruleum L. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Polemoniaceae</i>
234. G	*Eriogonum compositum Douglas ex Benth. Österreichische Gartenbau-Gesellschaft Landesgruppe Steiermark, AUT	<i>Polygonaceae</i>
235. W	Fagopyrum tataricum (L.) Gaertn. LTU: Vilnius County, The local area Šalčininkai district	<i>Polygonaceae</i>
236. G	*Dodecatheon jeffreyi Van Houtte Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Primulaceae</i>

237. G	Primula veris L. Botanical Garden of Šiauliai University, LTU	<i>Primulaceae</i>
238. G	Lysimachia ephemereum L. Botanischer Garten St. Gallen, CHE	<i>Primulaceae</i>
239. G	Aconitum decipiens Vorosch. & Anfalov The Botanical Garden of the University of Regensburg, DEU	<i>Ranunculaceae</i>
240. G	*Actaea rubra (Aiton) Willd. Salaspils National Botanical Garden, LVA	<i>Ranunculaceae</i>
241. G	*Anemone ×lesseri Wehrh. Botanischer Garten St. Gallen, CHE	<i>Ranunculaceae</i>
242. G	*Aquilegia chrysantha A.Gray var. chaplinei Reykjavik Botanical Garden, ISL	<i>Ranunculaceae</i>
243. G	**Aquilegia vulgaris Thunb. 'Winky Double Red White' Ogród Botaniczny Zarząd Zieleni Miejskiej, POL	<i>Ranunculaceae</i>
244. U	*Clematis coactilis (Fernald) Keener Austrian Horticultural Society, Graz, AUT	<i>Ranunculaceae</i>
245. G	**Clematis hexapetala L.f. Ural State University Botanical Garden, Ekaterinburg, RUS	<i>Ranunculaceae</i>
246. G	*Clematis hirsutissima Pursh Botanical Garden University Innsbruck, AUT	<i>Ranunculaceae</i>
247. G	**Clematis ianthina Koehne University of Alberta Devonian Botanic Garden, CAN	<i>Ranunculaceae</i>
248. G	*Clematis integrifolia L. Botanical Garden of the Voroneszh State University B. M. Kozo-Poljanskii, RUS	<i>Ranunculaceae</i>
249. U	*Clematis viticella L. Skinderiškis Dendrology Park, Pajieslys, Kėdainiai district, LTU	<i>Ranunculaceae</i>
250. G	Eranthis hyemalis (L.) Salisb. Botanical Garden of Clermont-Ferrand, FRA	<i>Ranunculaceae</i>
251. G	Nigella damascena L. Botanical Garden of Šiauliai University, LTU	<i>Ranunculaceae</i>

252. G	**Pulsatilla albana Bercht. & J.Presl Botanical Garden of Pyatigorsk State Pharmaceutical Academy, RUS	<i>Ranunculaceae</i>
253. G	Thalictrum rochebrunianum Franch. & Sav. The Botanical Garden of the University of Regensburg, DEU	<i>Ranunculaceae</i>
254. W	Agrimonia eupatoria L. LTU: The local area Joniškis district	<i>Rosaceae</i>
255. G	*Agrimonia procera Wallr. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Rosaceae</i>
256. G	**Dryas drummondii Richardson ex Hook. The Botanical Garden of the University of Regensburg, DEU	<i>Rosaceae</i>
257. G	Filipendula ulmaria (L.) Maxim. Botanical Garden of Šiauliai University, LTU	<i>Rosaceae</i>
258. U	**Pyracantha coccinea M.Roem. Skinderiškis Dendrology Park, Pajieslys, Kėdainiai district, LTU	<i>Rosaceae</i>
259. W	Potentilla argentea L. LTU: Šiauliai County, The local area Žagarė, Joniškis district	<i>Rosaceae</i>
260. G	*Potentilla argyrophylla Wall. 'Zolotisto-Oranzhevaya' Botanic Garden of Petrozavodsk State University, RUS	<i>Rosaceae</i>
261. G	*Potentilla megalantha Takeda Botanical Garden of Šiauliai University, Šiauliai, LTU	<i>Rosaceae</i>
262. G	**Sanguisorba armena Boiss. Samenverzeichnis des Schau- und Sichtungsgartens Hermannshof / Weinheim, Weinheim, DEU	<i>Rosaceae</i>
263. G	Sanguisorba hakusanensis Makino The Botanical Garden of the University of Regensburg, DEU	<i>Rosaceae</i>
264. W	Sanguisorba officinalis L. LTU: Šiauliai County, The local area Mikaičiai, Šiauliai district	<i>Rosaceae</i>
265. G	Sibbaldia procumbens L. Kovacs Pal Rock Garden, Dorog, HUN	<i>Rosaceae</i>
266. P	**Saxifraga *apiculata Engl. 'Alba' Private collection of G. Pociūlienė, Pakalniškiai, Radviliškis district, LTU	<i>Saxifragaceae</i>

267. C	Buddleja L. 'Hot Raspberry' The Commercial Source, LTU	<i>Scrophulariaceae</i>
268. G	Datura stramonium L. Botanical Garden of Šiauliai University, LTU	<i>Solanaceae</i>
269. G	Hyoscyamus niger L. Botanical Garden of Šiauliai University, LTU	<i>Solanaceae</i>
270. G	**Physalis ixocarpa Brot. ex Hornem. Botanical Garden of Traupis, LTU	<i>Solanaceae</i>
271. G	*Daphne alpina L. The Botanical Garden of Graz, Institute for Plant science, Karl-Franzens-University Graz, AUT	<i>Thymelaeaceae</i>
272. W	*Tofieldia calyculata Wahlenb. LTU: The local area Lazdijai district	<i>Tofieldiaceae</i>
273. W	Viola elatior Fr. LTU: The local area Vilnius district	<i>Violaceae</i>
274. G	Viola stagnina Kit. ex Schult. Vytautas Magnus University Botanical Garden, Kaunas, LTU	<i>Violaceae</i>

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