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BOTANIKOS SODAS

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BOTANICAL GARDEN OF
ŠIAULIAI UNIVERSITY

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Martynas Kazlauskas.

Cover design **Karolis Grušas**

ŠIAULIAI UNIVERSITY 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: 102 983.

HISTORY. Šiauliai University Botanical Garden was established in 1997 at the former site of Agrobiological Station of Šiauliai University. Total area of the garden is 6.54 ha. Since 2003 Botanical Garden of Šiauliai University 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). There is a Club of Botanic Garden Friends at the Botanical Garden. The Garden exchanges seeds with more than 250 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

Other activities

- *ex situ* conservation
- educational activities at the Botanical Garden
- organization of events at the Botanical Garden

COLLECTIONS OF THE BOTANICAL GARDEN. The garden has specimens of over 4000 species and varieties of plants. The plants are kept in 6 sections.

- **Section of Plant Systematics and Geography.** The plants are explored 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 900 plant species from 92 families. The section is supervised by botanical collections 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. Priorities: rare and protected species of plants, beneficial (medicinal and ethnobotanical) plants. The section covers 70 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 section was opened in 2004. It currently has over 1200 different species and varieties of annual and perennial ornamental plants which fall under 58 families. The largest collections are those of *Lilium*, *Hemerocallis* and *Iris*. The section is supervised by senior supervisor of botanical collections Daiva Ūsienė.
- **Section of Mountain Plants.** Since 2000 this section has specimens of mountain flora from Europe, Asia, and North America. There are over 1000 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 section is supervised by junior research associate dr. Rimanta Vainorienė.
- **Section of Dendrology.** Dendrological collection has been maintained since 1999. Currently it has over 900 taxons of woody plants. 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 genus. The section is supervised by senior supervisor of botanical collections Vaidas Juknevičius.

- **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 plants and research on genetically identical woody plants. Supervisor: junior research associate dr. Rimanta Vainorienė.

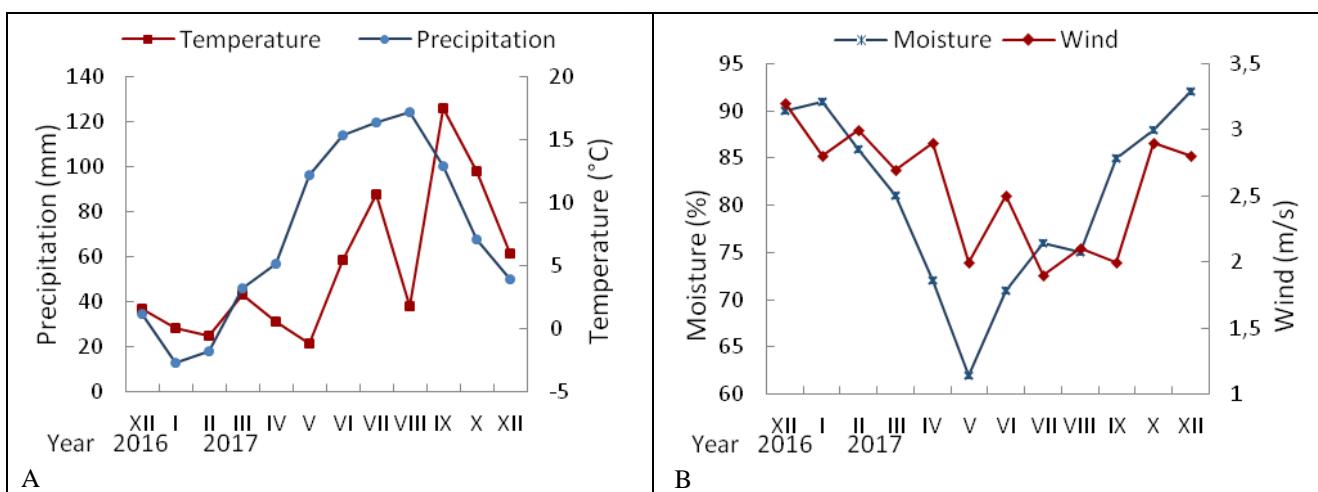
GEOGRAPHICAL SITUATION:

Latitude N 55° 55' 57.7"

Longitude E 23° 16' 57.0"

Zone 5 (Baltic region plant hardiness map)

CLIMATIC CONDITIONS:



Distribution of mean month: precipitation and temperature (A), moisture and wind speed (B) from December 2016 till November 2017.

Collectors: V. Aleknienė, D. Ūsienė, B. Balašaitienė, R. Vainorienė, Ž. Valainytė.

* - Seeds collected in 2016

**SEEDS FROM PLANTS
CULTIVATED IN THE GARDEN
EXCEPT REPRESENTATIVES OF LITHUANIAN FLORA**

MAGNOLIOPHYTA Cronquist, Takht. et W. Zimm. ex Reveal.

MAGNOLIOPSIDA Brongn.

APIACEAE Lindl.

1. *Aegopodium podagraria* L. f. *variegata** [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2000].
2. *Astrantia carniolica* Wulfen 'Rubra'* [Botanical Garden of Lodz, PL, 2003].
3. *Astrantia maxima* Pall.* [Botanical Garden of Lodz, PL, 2003].
4. *Astrantia trifida* Hoffm.* [The Botanical Garden of Lyon, FR, 2004].
5. *Athamanta turbith* (L.) Brot. subsp. *haynaldii* (Borbás et Uechtr.) Tutin [Botanical Garden Rennsteiggarten Oberhof, DE, 2010].
6. *Chaerophyllum hirsutum* L. [The Botanical Garden of the University of Tübingen, DE, 2002].
7. *Chaerophyllum hirsutum* L. subsp. *villarsii* (W. D. J. Koch) Arcang.* [The Botanical Garden of the University of Tübingen, DE, 2012].
8. *Cuminum cyminum* L.* [The Botanical Garden of Besançon, FR, 2011].
9. *Dorema ammoniacum* D. Don* [The Munich Botanical Garden, Nymphenburg, DE, 2007].
10. *Endressia pyrenaica* (Gay ex DC.) Gay [The Alpine Botanical Garden "Rezia", Bormio, IT, 2008].
11. *Eryngium spinalba* Vill. [Botanic Garden and Arboretum Mendel University of Agriculture and Forestry Brno, CZ, 2008].
12. *Ferula assa-foetida* L.* [Botanical Garden of the Carinthian Botanic Center, Klagenfurt, AT, 2012].
13. *Laser trilobum* (L.) Borkh.* [Botanic Garden of the Philipp University of Marburg, DE, (Deu Hessen 5517 Anhoehe Oberkleen), 2002].
14. *Ligusticum lucidum* Mill. (<http://www.ipni.org/index.html>), [(*Ligusticum lucidum* Ait), Royal Botanic Garden, Juan Carlos I, Madrid, ES, 2004].

ASTERACEAE Dumort.

15. *Antennaria alpina* (L.) Gaertn [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2008].
16. *Antennaria carpatica* (Wahlenb.) Bluff et Fingerh.* [The Botanical Garden of the University of Tübingen, DE, 2002].
17. *Antennaria microphylla* Rydberg [Salaspils National Botanical Garden, LV, 2002].
18. *Arnica alpina* (L.) Olin [The Botanical Garden of the University of Regensburg, DE, 2002].
19. *Aster alpinus* L. [Institute of Ecology and Botany Hungarian Academy of Sciences Botanic Garden, HU, 2002].
20. *Aster alpinus* L. var. *dolomiticus* Beck. [The Alpine Botanical Garden "Paradisia", IT, 2009].
21. *Aster caucasicus* Willd.* [University of Alberta Devonian Botanic Garden, CA, 2004].
22. *Buphtalmum salicifolium* L. [Experimental Station of Field Floriculture, LT, 2004].
23. *Centaurea apolepa* Moretti subsp. *carueliana* (Micheletti) Dostál* [The Botanical Garden of Bonn University, DE, 2012].
24. *Centaurea pulchra* DC.* [The Alpine Botanical Garden "Viotte", Trento, IT, 2011].
25. *Chrysanthemum macrophyllum* Waldst et Kit.* [Botanic Garden of Nantes, FR, 2005].
26. *Echinops niveus* Wall.* [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2000].
27. *Echinospartum horridum* (Vahl) Rothm* [Botanical Garden of the University Vienna, AT, 2002].
28. *Erigeron compositus* Pursh* [G. Pociūlienė. Private collection, Pakalniškiai, Radviliškis district, LT, 2010].
29. *Eriophyllum lanatum* (Pursh) J. Forbes [Botanical Garden of the Christian Albrechts University of Kiel, DE, 2002].
30. *Helichrysum compactum* Boiss.* [Botanical Garden University Innsbruck, AT, 2004].
31. *Helichrysum montanum* DC. [Botanic Garden and Arboretum Mendel University of Agriculture and Forestry Brno, CZ, 2010].
32. *Hieracium villosum* Jacq.* [Botanic Garden of Nantes, FR, 2005].
33. *Hymenoxys hoopesii* (A. Gray) Bierner [Botanical Garden of the University of Tartu, EE, 2011].
34. *Inula hirta* L. [Arboretum and Institute of Physiography in Bolestraszyce, PL, 2005].
35. *Inula magnifica* Lipsky* [Botanic Garden of Petrozavodsk State University, RU, 2004].
36. *Inula royleana* DC.* [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2000].
37. *Jurinea mollis* Rchb.* [The Munich Botanical Garden, Nymphenburg, DE, 2013].
38. *Leibnitzia anandria* (L.) Nakai* [Botanical Garden-Institute Vladivostok, RU, 2010].
39. *Leontopodium alpinum* Colm. ex Cass.* [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2000].

40. *Leontopodium ochroleucum* Beauverd [Reykjavik Botanical Garden, IS, (Tajikistan: Pamir Mts., Murgab, 3400 m), 2011].
41. *Leontopodium wilsonii* Beauverd* [The Botanical Garden of the University of Regensburg, DE, 2004].
42. *Leuzea rhamnoides* (L.) J. Holub [The Alpine Botanical Garden “Rezia”, Bormio, IT, 2010].
43. *Ligularia alatipes* Hand.-Mazz. [Reykjavik Botanical Garden, IS, (China: Yunnan, Lijiang, Yulon Shan, Xie Ren Ji valley, above Mu Zhou Go (CLD 1189), 3300 m), 2011].
44. *Ligularia narynensis* (C. Winkl.) O. Fedtsch. et B. Fedtsch. [Reykjavik Botanical Garden, IS, (Kyrgyzstan: Tien-Shan mountains, Terskey Ala-Too range, Ala-Archa valley, 2400-2800 m), 2010].
45. *Rhaponticum carthamoides* (Willd.) Iljin.* [Botanical Garden of Klaipėda University, LT, 2003].
46. *Rhaponticum scariosum* Lam. subsp. *bickelli* (Gugler) Pign. [The Alpine Botanical Garden “Viotte”, Trento, IT, 2011].
47. *Rudbeckia flava* Greene* [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2000].
48. *Senecio abrotanifolius* L.* [University of Salzburg Departement of Organismic Biology Study Group Botanical Garden, AT, 2010].
49. *Solidago virgaurea* L.* [The Botanic Garden of the University of Oulu, FI, (Norway, Trs, Storfjord, Moalkejavri (69° 05'N, 20°42'E, 550 m), 10.9.03BG), 2004].
50. *Tanacetum corymbosum* (L.) Sch.Bip.* [Botanic Garden of Petrozavodsk State University, RU, 2004].

BIGNONIACEAE Juss.

51. *Incarvillea zhongdianensis* Grey-Wilson [Reykjavik Botanical Garden, IS, 2013].

BORAGINACEAE Juss.

52. *Arnebia pulchra* (Willd. ex Roem. et Schult.) Edm. [Reykjavik Botanical Garden, IS, 2006].
53. *Mertensia echiooides* Benth. ex C.B.Clarke [Institute of Ecology and Botany Hungarian Academy of Sciences Botanical Garden, Vácrátót, HU, 2012].
54. *Onosma taurica* Wild.* [Botanic Garden of the Philipp University of Marburg, DE, 2011].
55. *Solenanthus apenninus* (L.) Fischer et Meyer [The Munich Botanical Garden, Nymphenburg, DE, 2005].

BRASSICACEAE Burnett.

56. *Aethionema edentulum* N. Busch* [Tbilisi Botanical Garden of Georgian Academy of Sciences, GE, 2005].
57. *Alyssoides utriculata* (L.) Medik. [The Botanical Garden of Bonn University, DE, 2003].
58. *Alyssum altaicum* C. A. Mey.* [Botanical Garden of Maria Curie-Skłodowska University, Lublin, PL, 2004].
59. *Arabis purpurea* Sm.* [Kovacs Pal Rock Garden, Dorog, Hu, 2009].
60. *Draba aspera* Bertoloni [Botanical Garden of the University of Tartu, EE, 2004].
61. *Draba oligosperma* Hook. [The Munich Botanical Garden, Nymphenburg, DE, 2010].
62. *Draba parnassica* Boiss. [Botanical Garden of the Ruhr University Bochum, DE, 2004].
63. *Iberis sempervirens* L.* [The Botanical Garden of the University of Latvia, Riga, LV, 2000].
64. *Isatis tinctoria* L. [National Botanic Garden of Belgium, Meise, BE, 2003].
65. *Lesquerella alpina* (Nutt.) S. Watson [The Botanical Garden of the University of Regensburg, DE, 2010].
66. *Lesquerella arctica* (Wormsk. ex Hornem.) S. Watson* [Kovacs Pal Rock Garden, Dorog, HU, 2011].
67. *Physaria eburniflora* Rollins [Botanical Garden University Innsbruck, AT, 2010].

CAMPANULACEAE Juss.

68. *Adenophora liliifolia* (L.) A. DC.* [Prague Botanical Garden, CZ, 2011].
69. *Adenophora pereskifolia* (Roemer et Schultz) G. Don* [The Greifswald Botanic Garden and Arboretum, DE, 2009].
70. *Campanula collina* Sims* [Reykjavik Botanical Garden, IS, (HB Nancy FRA, 1989), 2009].
71. *Campanula persicifolia* L. [Institute of Ecology and Botany Hungarian Academy of Sciences Botanical Garden, Vácrátót, HU, 2004].
72. *Campanula sarmatica* Ker Gawl. [The Botanical Garden of the University of Tübingen, DE, 2003].
73. *Campanula sibirica* L.* [Arboretum and Institute of Physiography in Bolestraszyce, PL, 2004].
74. *Codonopsis ovata* Benth.* [Botanical Garden of the Voroneszh State University B. M. Kozlo-Poljanskii, RU, 2006].
75. *Codonopsis tangshen* Oliv.* [Botanical Garden of the University of Potsdam, DE, 2006].
76. *Edraianthus dalmaticus* (A. DC.) A. DC.* [Botanical Garden of the Carinthian Botanic Center, Klagenfurt, AT, 2009].
77. *Jasione pyrenaica* Sennen [The Botanical Garden of Graz, Institute for Plant Science, Karl-Franzens-University Graz, AT, 2005].
78. *Phyteuma charmelii* Vill.* [Botanical Garden of the University of Potsdam, DE, 2006].

CAPRIFOLIACEAE Juss.

79. *Triosteum himalayanum* Wall. [University of Salzburg Department of Organismic Biology Study Group Botanical Garden, AT, 2009].

CARYOPHYLLACEAE Juss.

80. *Arenaria gypsophiloides* L. var. *glabra* Fenzl [Botanic Garden of the Philipp University of Marburg, DE, 2003].
81. *Arenaria kingii* Jones [Botanical Garden University of Oslo, NO, 2004].
82. *Arenaria polaris* Schischk.* [The Botanical Garden Bielefeld, DE, 2010].
83. *Arenaria procera* Spreng. subsp. *glabra* (F. N. Williams) Holub [The Botanical Garden of the University of Latvia, Riga, LV, 2003].
84. *Dianthus nitidus* Waldst. et Kit. [Botanical Garden of Maria Curie-Skłodowska University, Lublin, PL, 2003].
85. *Dianthus pyrenaicus* Bernh. [Institute of Ecology and Botany Hungarian Academy of Sciences Botanical Garden, Vácratot, HU, 2002].
86. *Dianthus praecox* Willd. ex Spreng. [Botanical Garden of P. J. Šafárik University, Košice, SK, 2010].
87. *Dianthus ruprechtii* Schischk.* [Botanical Garden of Pyatigorsk State Pharmaceutical Academy, RU, 2004].
88. *Dianthus sternbergii* Sieber [Austrian Horticultural Society, National Group Styria, Graz, AT, 2004].
89. *Dianthus tymphresteus* Heldr. et Sartori* [Botanical Garden Teplice, CZ, 2012].
90. *Drypis spinosa* L. [Utrecht University Botanic Garden, AN, (Slovenia, Trnovski Gozd (Ternovaner Wald), Adovscina, Aufstieg von der Zavetisce Bavcerja Zum M. Gora., 1000-1200 m), 2008].
91. *Lychnis yunnanensis* Baker f.* [Nancy Botanical Garden, FR, 2011].
92. *Saponaria lutea* L.* [The Munich Botanical Garden, Nymphenburg, DE, (Italy, Vallone urtier, Alpe Manda, 2400 m), 2004].
93. *Silene quadridentata* (L.) Pers. [The Botanic Garden of the University of Padua, IT, (Monte Faverghera, Belluno (BL), 1500 m), 2004].
94. *Viscaria vulgaris* Bernh.* [Botanical Garden of the Medical University of Gdańsk, PL, 2009].

CISTACEAE Juss.

95. *Helianthemum alpestre* (Jacq.) DC.* [The Botanic Garden of the Georg-August-University, Goettingen, DE, 2005].
96. *Helianthemum lippii* Pers.* [Vilnius University Botanical Garden, LT, 2005].
97. *Helianthemum pilosum* (L.) Pers.* [Kovacs Pal Rock Garden, Dorog, HU, 2008].

CRASSULACEAE DC.

98. *Sedum stenopetalum* Purch.* [The Botanical Garden of the University of Tübingen, DE, 2003].

DIPSACACEAE Juss.

99. *Morina longifolia* Wall.* [Botanical Garden of the Christian Albrechts University of Kiel, DE, 2002].
100. *Scabiosa georgica* Sulak.* [University of Alberta Devonian Botanic Garden, CA, 2012].
101. *Scabiosa 'Nana'* [Arboretum "Dimzas", LV, 2013].

FABACEAE Lindl.

102. *Anthyllis coccinea* (L.) Beck* [Collector V. Motiekaitytė, LT, 2006].
103. *Anthyllis macrocephala* Wend. [Botanic Garden of Ivan Franko National University of Lviv, UA, 2000].
104. *Anthyllis montana* L.* [Pisa Botanic Garden and Museum, IT, 2002].
105. *Baptisia australis* (L.) R. Br. [Traupio Botanical Garden, LT, 2001].
106. *Dorycnium pentaphyllum* Scop. subsp. *pentaphyllum** [Utrecht University Botanic Garden, NL, 2012].
107. *Trifolium trichocephalum* M. Bieb.* [Botanical Garden of the University of Tartu, EE, 2004].

GENTIANACEAE Juss.

108. *Gentiana asclepiadea* L. 'Alba'* [Botanical Garden Rennsteiggarten Oberhof, DE, 2011].
109. *Gentiana asclepiadea* L. 'Rosea'* [Austrian Horticultural Society, National Group Styria, Graz, AT, 2011].
110. *Gentiana lutea* L. [The Botanical Garden of the University of Regensburg, DE, 2004].

GERANIACEAE Juss.

111. *Geranium bohemicum* L. [Botanic Garden of the Philipp University of Marburg, DE, 2011].
112. *Geranium ibericum* Cav.* [The Botanical Garden of the University of Ulm, DE, 2008].
113. *Geranium saxatile* Kar. et Kir.* [The Polar Alpine Botanical Gardens, Kirovsk, RU, 2004].

GLOBULARIACEAE DC.

114. *Globularia cordifolia* L. [Vilnius University Botanical Garden, LT, 2004].

115. *Globularia incanescens* Viv. [The Botanical Garden of the University of Regensburg, DE, (I, Alpi Apuane, Nordwestl. Von Monte Pelato, BG Firenze, 950713), 2009].
 116. *Globularia punctata* Lapeyr. [Salaspils National Botanical Garden, LV, 2003].
 117. *Globularia trichosantha* Fischer et G. A. Mey [Vilnius University Botanical Garden, LT, 2007].

***HYPERICACEAE* Juss.**

118. *Hypericum orientale* L.* [Vilnius University Botanical Garden, LT, 2007].

***LAMIACEAE* Lindl.**

119. *Dracocephalum botryoides* Steven* [Botanic Garden and Arboretum Mendel University of Agriculture and Forestry Brno, CZ, 2011].
 120. *Dracocephalum argunense* Fisch. ex Link [Botanical Garden University of Oslo, NO, 2007].
 121. *Dracocephalum renati* Emb. [Botanic Garden and Arboretum Mendel University of Agriculture and Forestry Brno, CZ, 2011].
 122. *Dracocephalum wendelboi* Hedge [Reykjavik Botanical Garden, IS, 2012].
 123. *Phlomis russeliana* (Sims) Benth. [Botanic Garden of Cologne, DE, 2004].
 124. *Phlomis samia* L.* [The Botanical Garden of the Heinrich-Heine University, Dusseldorf, DE, 2004].
 125. *Phlomis tuberosa* L. [The Munich Botanical Garden, Nymphenburg, DE, 2011].
 126. *Salvia argentea* L.* [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2004].
 127. *Salvia verticillata* L.* [The Trieste Municipal Botanic Garden, IT, 2003].
 128. *Scutellaria woronowii* Juz.* [Botanic Garden of Nantes, FR, 2005].
 129. *Sideritis glacialis* Boiss. [The Botanical Garden Aarhus, DK, 2004].
 130. *Teucrium marum* L. [The Botanical Garden E. M. Heckel, Marseille, FR, 2011].

***LINACEAE* DC. ex Gray**

131. *Linum extraaxillare* Kit. [Botanical Garden of P. J. Šafárik University, Košice, SK, 2004].

***MALVACEAE* Juss.**

132. *Alcea ficifolia* L.* [The Alpine Botanic Garden of Pietra Corva, Milan, IT, 2013].

***PAEONIACEAE* F. Rudolphi**

133. *Paeonia mascula* (L.) Mill. subsp. *arietina* Heywood* [Botanical Garden University Innsbruck, AT, (W/TR-NO-1950 m), 2010].
 134. *Paeonia peregrina* Miller [University Botanic Garden, Sofia, BG, 2006].

***PAPAVERACEAE* Juss.**

135. *Meconopsis cambrica* (L.) Vig. [Botanic Garden of Nantes, FR, 2002].
 136. *Papaver bracteatum* Lindl.* [The Botanical Garden of the University of Regensburg, DE, 2004].
 137. *Papaver pilosum* Sm.* [Akureyri Botanical Garden, IS, 2010].
 138. *Papaver rupifragum* Boiss et Reut* [Botanical Garden of the University of Zurich, CH, 2014].

***PLUMBAGINACEAE* Juss.**

139. *Armeria canescens* Boiss. subsp. *nebrodensis* (Guss.) P. Silva* [Institute of Ecology and Botany Hungarian Academy of Sciences Botanical Garden, Vácrátót, HU, 2005].
 140. *Armeria labradorica* Wallr.* [Botanical Garden of the Christian Albrechts University of Kiel, DE, 2003].
 141. *Armeria sibirica* Turcz. ex Boiss.* [Botanical Garden of the Christian Albrechts University of Kiel, DE, 2003].
 142. *Armeria splendens* (Lagasca et Rodr.) Webb. [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2008].

***POLYGONACEAE* Juss.**

143. *Fagopyrum esculentum* Moench 'Vokiai' [Vilnius University Botanical Garden, LT, 2006].
 144. *Eriogonum umbellatum* Torr. var. *stellatum* (Benth.) M. E. Jones [Botanic Garden of the Philipp University of Marburg, DE, (CA, Columbia, Jones Corbin, 4940 N 114 49 W 488 m, BG Vancouver (MR, 2005)), 2011].
 145. *Rumex conglomeratus* Murray* [The Botanical Garden of the University of Münster, DE, 2003].
 146. *Rumex tianschanicus* Losinsk.* [The Botanical Garden of Bonn University, DE, 2004].

***PRIMULACEAE* Vent.**

147. *Primula edelbergii* Schwarz* [Botanical Garden of Clermont-Ferrand, FR, 2009].
 148. *Primula elatior* Hill* [Botanical Gardens of Clermont-Ferrand, FR, 2009].
 149. *Primula pallasii* Lehm.* [Botanic Garden of Petrozavodsk State University, RU, 2004].

RANUNCULACEAE Juss.

150. *Aconitum compactum* Rchb. [The Ecological-Botanical Garden of the University of Bayreuth, DE, 2009].
151. *Aconitum decipiens* Vorosch. et Anfalov* [The Botanical Garden of the University of Regensburg, DE, 2011].
152. *Aconitum fischeri* Reichenb* [The Botanical Garden of the University of Regensburg, DE, 2001].
153. *Aconitum moldavicum* Hacq.* [The Botanical Garden of University of Debrecen, HU, 2005].
154. *Aconitum napellus* L. 'Kleiner Ritter'* [The Ecological-Botanical Garden of the University of Bayreuth, DE, 2011].
155. *Aconitum vulparia* Rchb.* [Botanic Garden and Arboretum Mendel University of Agriculture and Forestry Brno, CZ, 2006].
156. *Anemone altaica* Fisch. ex C. A. Mey.* [Botanic Garden of the Comenius University, Bratislava, SK, 2004].
157. *Anemone demissa* Hook. f. et Thomson [The Botanical Garden of Bonn University, DE, 2010].
158. *Anemone leveillei* Ulbr.* [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2000].
159. *Anemone nemorosa* L.* [Experimental Station of Field Floriculture, LT, 2003].
160. *Anemone rupicola* Cambess. ex Jacquem.* [Collector A. Grišaitė, (The Botanical Garden of Schellerhau, DE), 2011].
161. *Aquilegia canadensis* L. [Botanical Garden of Leipzig University, DE, 2012].
162. *Aquilegia chrysantha* A. Gray var. *chaplinei* (Standl. ex Payson) Lott [Reykjavik Botanical Garden, IS 2009].
163. *Aquilegia flabellata* Sieb. et Zucc. var. *pumila* (Huth) Kudo [Reykjavik Botanical Garden, IS, 2006].
164. *Aquilegia olympica* Boiss.* [Botanical Garden of the Carinthian Botanic Center, Klagenfurt, AT, 2010].
165. *Aquilegia saximontana* Rydb. [Reykjavik Botanical Garden, IS, 2014].
166. *Aquilegia sibirica* Lam. [The South-Siberian Botanical Garden, Barnaul, RU, 2011].
167. *Clematis hirsutissima* Pursh [Botanical Garden University Innsbruck, AT, (W/U.S.A., Utah, Mt. Pleasant), 2007].
168. *Consolida ajacis* (L.) Schur* [University of Ferrara Botanic Garden, IT, 2004].
169. *Delphinium pictum* Willd subsp. *pictum** [The Sóller Botanic Garden, ES, 2004].
170. *Dodecatheon pulchellum* (Raf.) Merr.* [Botanical Garden of the University of Tartu, EE, 2005].
171. *Pulsatilla armena* Rupr.* [The Alpine Botanical Garden "Paradisia", IT, 2005].
172. *Pulsatilla gayeri* Simonk. [Institute of Ecology and Botany Hungarian Academy of Sciences Botanical Garden, Vacratot, HU, 2005].
173. *Pulsatilla rubra* (Lam) Delarbre [Botanical Garden University of Oslo, NO, 2005].
174. *Pulsatilla styriaca* (Pritzel) Simk. [The Botanical Garden of Graz, Institute for Plant Science, Karl-Franzens-University Graz, AT, 2006].
175. *Pulsatilla vulgaris* Mill. 'Rote Glocke' [Arboretum "Kokaudzētava Baltezers", LV, 2004].
176. *Pulsatilla zimmermannii* Soo* [Botanical Garden of the University of Potsdam, DE, 2006].
177. *Semiaquilegia ecalcarata* (Maxim.) Sprang. et Hut.* [The Botanical Garden of the University of Tübingen, DE, 2010].
178. *Thalictrum chelidonii* DC.* [The Botanical Garden of the University of Regensburg, DE, (Alpine Garden Club of Britich Colombia), 2011].
179. *Thalictrum rochebrunnianum* Franch. et Sav.* [The Botanical Garden of the University of Regensburg, DE, 2011].
180. *Trollius altaicus* C. A. Mey.* [The Botanical Garden of the University of Regensburg, DE, 2009].
181. *Trollius chinensis* Bunge* [Botanic Garden of the Philipp University of Marburg, DE, 2009].
182. *Trollius macropetalus* F. Schmidt* [Botanical Garden-Institute Vladivostok, RU, 2010].

ROSACEAE Juss.

183. *Dryas hookeriana* Jusepc. [The Alpine Botanical Garden "Rezia", Bormio, IT, 2008].
184. *Dryas octopetala* L. var. *vestita* Beck [Botanical Garden Rennsteiggarten Oberhof, DE, 2010].
185. *Dryas ×suendermannii* Kell. ex Sunderm. [Botanic Garden Liberec, CZ, 2011].
186. *Geum urbanum* L.* [Vera Csapody Hardy Plant Society of Hungary, Budapest, HU, 2012].
187. *Horkelia fusca* Lindl.* [Botanical Garden of the University of Tartu, EE, 2011].
188. *Potentilla atrosanguinea* D. Don* [The Alpine Botanical Garden "Saussurea", Courmayeur, IT, 2007].
189. *Potentilla collina* Wibel* [The Botanical Garden of Krefeld, DE, 2009].
190. *Potentilla fissa* Nutt.* [The Alpine Botanical Garden "Viotte", Trento, IT, 2004].
191. *Sanguisorba albiflora* (Makino) Makino* [Botanical Garden, Faculty of Science, Palacky University in Olomouc, CZ, 2012].
192. *Sanguisorba alpina* Bunge* [Botanical Garden of the University of Tartu, EE, 2011].

SAXIFRAGACEAE Juss.

193. *Elmera racemosa* (S. Watson) Rydb. [Botanical Garden of the University of Tartu, EE, 2009].

194. *Heuchera americana* L.* [Botanic Garden and Arboretum Mendel University of Agriculture and Forestry Brno, CZ, 2004].
195. *Heuchera cylindrica* Douglas ex Hook* [Salaspils National Botanical Garden, LV, 2003].
196. *Heuchera glabella* Torr. et A. Gray* [Nancy Botanical Garden, FR, 2003].
197. *Heuchera grossularifolia* Rydb. [Botanic Garden of Šiauliai University, LT. No data available of their origin].
198. *Heuchera pulchella* Wooton et Standl. [Gothenburg Botanic Garden, SE, (USA: New Mexico, Bernalillo CO, 3200), 2010].
199. *Saxifraga australis* Moric. [The Alpine Botanical Garden “Viotte”, Trento, IT, 2005].
200. *Saxifraga exarata* Villars [Alpine Botanical Garden of Lautaret, FR, 2005].
201. *Saxifraga federici-augusti* Biasol. subsp. *grisebachii* (Degen et Dörf.) D. A. Webb* [The Botanic Garden of the Georg-August-University, Goettingen, DE, 2007].
202. *Saxifraga hostii* Tausch [University of Oxford Botanic Garden and Harcourt Arboretum, UK, 2004].

***SCROPHULARIACEAE* Juss.**

203. *Digitalis grandiflora* Mill.* [Botanic Garden of University of Konstanz, DE, 2005].
204. *Penstemon cardwellii* Howell [Botanical Garden Teplice, CZ, 2010].
205. *Penstemon eatonii* A. Gray [RHS Garden Wisley, UK, 2011].
206. *Penstemon gracilis* Nutt.* [Institute of Ecology and Botany Hungarian Academy of Sciences Botanic Garden, Vácratot, HU, 2003].
207. *Penstemon humilis* Nutt. [Institute of Ecology and Botany Hungarian Academy of Sciences Botanic Garden, Vácratot, HU, 2003].
208. *Penstemon nanus* D. D. Keck* [Botanical Garden of the University of Tartu, EE, 2010].
209. *Penstemon peckii* Pennell* [Botanical Garden Teplice, CZ, 2009].
210. *Penstemon procerus* Dougl. ex Graham var. *tolmiei* (Hook.) Cronq. [Akureyri Botanical Garden, IS, 2007].
211. *Penstemon procerus* Dougl. ex Graham* [Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DE, 2003].
212. *Penstemon serrulatus* J. E. Smith* [Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DE, 2003].
213. *Penstemon virgatus* A. Gray [Botanical Garden Bourguignons Fenay, FR, 2012].
214. *Penstemon wilcoxii* Rydb.* [Botanical Garden of the University of Zurich, CH, 2007].
215. *Veronica armena* Boiss. et A. Huet [Botanical Garden of the Christian Albrechts University of Kiel, DE, 2006].
216. *Veronica fruticans* Jacq. ‘Rosea’* [Botanical Garden of the University of Tartu, EE, 2004].
217. *Veronica gentianoides* Vahl* [Botanical Garden of the Christian Albrechts University of Kiel, DE, 2002].
218. *Veronica gentianoides* Vahl ‘Nana’* [Reykjavik Botanical Garden, IS, 2008].

***LILIOPSIDA* Batsch**

***ALLIACEAE* J. Agardh**

219. *Allium altaicum* Pall.* [Ural State University Botanical Garden, Ekaterinburg, RU, 2004].
220. *Allium ascalonicum* L.* [Botanic Garden Regensburg, DE, 2011].
221. *Allium christophii* Trautv. [Botanic Garden and Botanical Museum Berlin-Dahlem, DE, 2006].
222. *Allium cupuliferum* Regel* [Salaspils National Botanical Garden, LV, 2006].
223. *Allium giganteum* Regel* [R. Mileškienė. Private collection, Bubiai, Šiauliai district, LT, 2015].
224. *Allium karataviense* Regel [Vilnius University Botanical Garden, LT, 2006].
225. *Allium neapolitanum* Cirillo* [Botanical Garden of the University of Siena, IT, 2003].
226. *Allium ramosum* L.* [Ghent University Botanic Garden, BE, 2002].
227. *Allium siculum* Ucria* [The Munich Botanical Garden, Nymphenburg, DE, 2006].
228. *Allium stipitatum* Regel [A. Markevičius. Private collection, Neveronys, Kaunas district, LT, 2011].
229. *Allium suworowii* Regel* [Salaspils National Botanical Garden, LV, 2007].
230. *Allium victorialis* L. [Botanic Garden and Botanical Museum Berlin-Dahlem, DE, 2006].

***ASPHODELACEAE* Juss.**

231. *Aspodeline brevicaulis* (Bertol.) Baker* [Botanical Garden of Leipzig University, DE, 2006].
232. *Eremurus altaicus* (Pall.) Stev.* [Institute of Ecology and Botany Hungarian Academy of Sciences Botanic Garden, Vácratot, HU, 2003].
233. *Eremurus himalaicus* Bak. [Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DE, 2003].
234. *Eremurus stenophyllus* (Boissier et Buhse) Baker [Botanical Garden of Maria Curie-Skłodowska University, Lublin, PL, 2005].

***CANNACEAE* Juss.**

235. *Canna indica* L. [Leuven Botanical Garden, BE, 2010].

COLCHICACEAE DC.

236. *Colchicum autumnale* L.* [Traupio Botanical Garden, LT, 2000].

CYPERACEAE Juss.

237. *Carex pseudocyperus* L.* [Botanical Garden of Ernst-Moritz-Arndt University Greifswald, DE, 2006].

HYACINTHACEAE Batsch ex Borkh.

238. *Bellevalia romana* (L.) Sweet.* [Botanic Garden of the University of Stuttgart-Hohenheim, Stuttgart, DE, 2005].
239. *Hyacinthoides hispanica* (Mill.) Rothm.* [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2005].
240. *Ornithogalum ponticum* Zahar.* [Botanical Garden Voronezh, RU, 2009].
241. *Ornithogalum pyramidale* L.* [Botanical Garden Voronezh, RU, 2009].
242. *Scilla autumnalis* L.* [Botanic Garden of Rostock University, DE, 2003].
243. *Scilla litardierei* Breistr.* [The Munich Botanical Garden, Nymphenburg, DE, 2006].

IRIDACEAE Juss.

244. *Iris aurea* Lindl.* [Botanical Garden of Lautaret, FR, 2010].
245. *Iris laevigata* Fisch.* [The Alpine Botanical Garden "Viotte", Trento, IT, 2003].
246. *Iris spuria* L.* [Botanic Garden and Arboretum Mendel University of Agriculture and Forestry Brno, CZ, 2005].
247. *Iris spuria* L. subsp. *sogdiana* (Bunge) B. Mathew* [Utrecht University Botanic Garden, NL, 2009].
248. *Iris tenax* Douglas ex Lindl. [The Botanical Garden of the University of Regensburg, DE, 2004].
249. *Sisyrinchium angustifolium* Mill.* [The Botanical Garden of the University of Tübingen, DE, 2002].
250. *Sisyrinchium bellum* S. Watson 'Album'* [Tallinn Botanic Garden, EE, 2011].

IXIOLIRIACEAE (Pax) Nakai

251. *Ixiolirion tataricum* (Pall.) Herb. [Botanical Garden University of Oslo, NO, 2006].

JUNCACEAE Juss.

252. *Luzula luzuloides* (Lam.) Dandy et Willmott* [Kaunas Botanic Garden of Vytautas Magnus University, LT, 2000].
253. *Luzula multiflora* (Ehrh.) Lej.* [Botanical Garden of Dijon, FR, 2012].
254. *Luzula nivea* (Nathh.) DC.* [Humboldt University of Berlin, Institute of Biology, Arboretum, DE, 2009].

LILIACEAE Juss.

255. *Fritillaria aurea* Schott* [Salaspils National Botanical Garden, LV, 2004].
256. *Fritillaria bucharica* Regel* [Salaspils National Botanical Garden, LV, 2004].
257. *Fritillaria caucasica* Adams* [Salaspils National Botanical Garden, LV, 2004].
258. *Fritillaria imperialis* L.* [Botanic Garden of Šauliai University, LT, No data available of their origin].
259. *Fritillaria involucrata* All. [Austrian Horticultural Society, National Gruop Styria, Graz, AT, 2009].
260. *Fritillaria pallidiflora* Schrenk [Salaspils National Botanical Garden, LV, 2003].
261. *Fritillaria roylei* J. D. Hook. [Botanical Garden University of Oslo, NO, 2003].

POACEAE (R. Br.) Bernhart

262. *Briza media* L.* [Leuven Botanic Garden, BE, 2009].
263. *Festuca amethystine* L.* [G. Pociūlienė. Private collection, Pakalniškiai, Radviliškis district, LT, 2012].
264. *Festuca gigantea* (L.) Vill.* [The Botanical Garden of Graz, Institute for Plant Science, Karl-Franzens-University Graz, AT, 2013].

SEED FROM PLANTS OF LITHUANIAN FLORA CULTIVATED IN THE GARDEN

MAGNOLIOPHYTA Cronquist, Takht. et W. Zimm. ex Reveal.

MAGNOLIOPSIDA Brongn.

APIACEAE Lindl.

- 265. *Astrantia major* L. [The local area Žagarė, Joniškis district, LT, 2000].
- 266. *Laserpitium latifolium* L. [The local area Mažeikiai district, LT, 2007].
- 267. *Chaerophyllum bulbosum* L. [Collector V. Ramonas. The local area Pakruojis, LT, 2017].

ASTERACEAE Dumort.

- 268. *Gnaphalium luteoalbum* L. [The local area Merkinė, Varėna district, LT, 2008].

BORAGINACEAE Juss.

- 269. *Lithospermum officinale* L. [Traupis Botanical Garden, LT, 1999].

BRASSICACEAE Burnett

- 270. *Lunaria rediviva* L. [The local area Varėna district, LT, 2000].

CAMPANULACEAE Juss.

- 271. *Campanula bononiensis* L. [The local area Kėdainiai district, LT, 2007].
- 272. *Campanula cervicaria* L. [The local area Paryžė, Kupiškis district, LT, 2007].

CARYOPHYLLACEAE Juss.

- 273. *Dianthus arenarius* L. [The local area Marcinkonys, Varėna district, LT, 2008].
- 274. *Dianthus arenarius* L. subsp. *arenarius* [The local area Perloja, Varėna district, LT, 2007].
- 275. *Dianthus superbus* L. [The local area Perloja, Varėna district, LT, 2007].
- 276. *Silene lithuanica* Zapał. [The local area Marcinkonys, Varėna district, LT, 2008].
- 277. *Silene tatarica* (L.) Pers. [The local area Liškiava, Varėna district, LT, 2008].

CHENOPODIACEAE Vent.

- 278. *Polyneum arvense* L. [The local area Kupiškis district, LT, 2010].

DIPSACACEAE Juss.

- 279. *Scabiosa columbaria* L. [The local area Vilnius district, LT, 2007].
- 280. *Succisella inflexa* Kluk [The local area Kupiškis district, LT, 2010].

FABACEAE Lindl.

- 281. *Anthyllis vulneraria* L.* [The local area Prienai district, LT, 2000].

GENTIANACEAE Juss.

- 282. *Gentiana cruciata* L. [The local area Lazdijai district, LT, 2005].

HYPERICACEAE Juss.

- 283. *Hypericum hirsutum* L. [The local area Satkūnai, Joniškis district, LT, 2007].

LAMIACEAE Lindl.

- 284. *Dracocephalum ruyschiana* L. [The local area Anykščiai district, LT, 2008].
- 285. *Mentha longifolia* (L.) Huds. [The local area Pupinai, Kupiškis district, LT, 2007].
- 286. *Prunella grandiflora* (L.) Scholler [The local area Varėna district, LT, 2008].
- 287. *Salvia pratensis* L. [The local area Merkinė, Lazdijai district, LT, 1999].
- 288. *Salvia ×sylvestris* L.* [The local area Vizgūnai, Kupiškis district, LT, 2009].
- 289. *Scutellaria hastifolia* L. [The local area Gazdonai, Šilutės district, LT, 1998].
- 290. *Stachys recta* L. [The local area Kaišiadorys district, LT, 2002].

MELANTHIACEAE Batsch.

- 291. *Tofieldia calyculata* (L.) Wachlenb. [The local area Lazdijai district, LT, 2001].

POLYGONACEAE Juss.

- 292. *Fagopyrum tataricum* (L.) Gaertn. [The local area Šalčininkai district, LT, 2007].

RANUNCULACEAE Juss.

293. *Pulsatilla patens* (L.) Mill. [The local area Varėna district, LT, 2008].

VIOLACEAE Batsch

294. *Viola elatior* Fr. [The local area Vilnius district, LT, 2007].

LILIOPSIDA Batsch

ALLIACEAE J. Agardh

295. *Allium scorodoprasum* L. [The local area Priekulė, Klaipėda district, LT, 2007].

ASPHODELACEAE Juss.

296. *Anthericum ramosum* L.* [Kurtuvėnai Regional Park, Šiauliai district, LT, 2000].

CYPERACEAE Juss.

297. *Carex buxbaumii* Wahlenb.* [The local area Kėdainiai district, LT, 2008].

IRIDACEAE Juss.

298. *Gladiolus imbricatus* L. [The local area Širvintai district, LT, 2007].

299. *Iris sibirica* L. [The local area Truskava, Kėdainiai district, LT, 2008].

LILIACEAE Juss.

300. *Lilium martagon* L.* [The local area Varėna district, LT, 2013].

ORCHIDACEAE Juss.

301. *Dactylorhiza longifolia* (Neum) Aver* [The local area Švendrė forest, Šiauliai district, LT, 2007].

POACEAE (R. Br.) Bernhart

302. *Alopecurus arundinaceus* Poir [The local area Pakruojis district, LT, 2008].

303. *Festuca psammophila* (Hack. ex Celak.) Fitch. [The local area Varėna district, LT, 2008].

304. *Melica ciliata* L.* [The local area Anykščiai district, LT, 2001].

305. *Sesleria caerulea* (L.) Ard. [The local area Gudmoniškė, Kelmė district, LT, 2005].

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