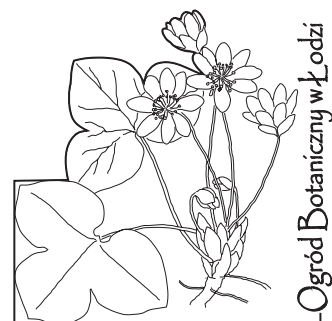




Hortus Botanicus Lodziensis

INDEX SEMINUM 2016



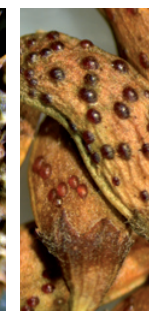
Address:
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Phone: +48 42 688 44 20
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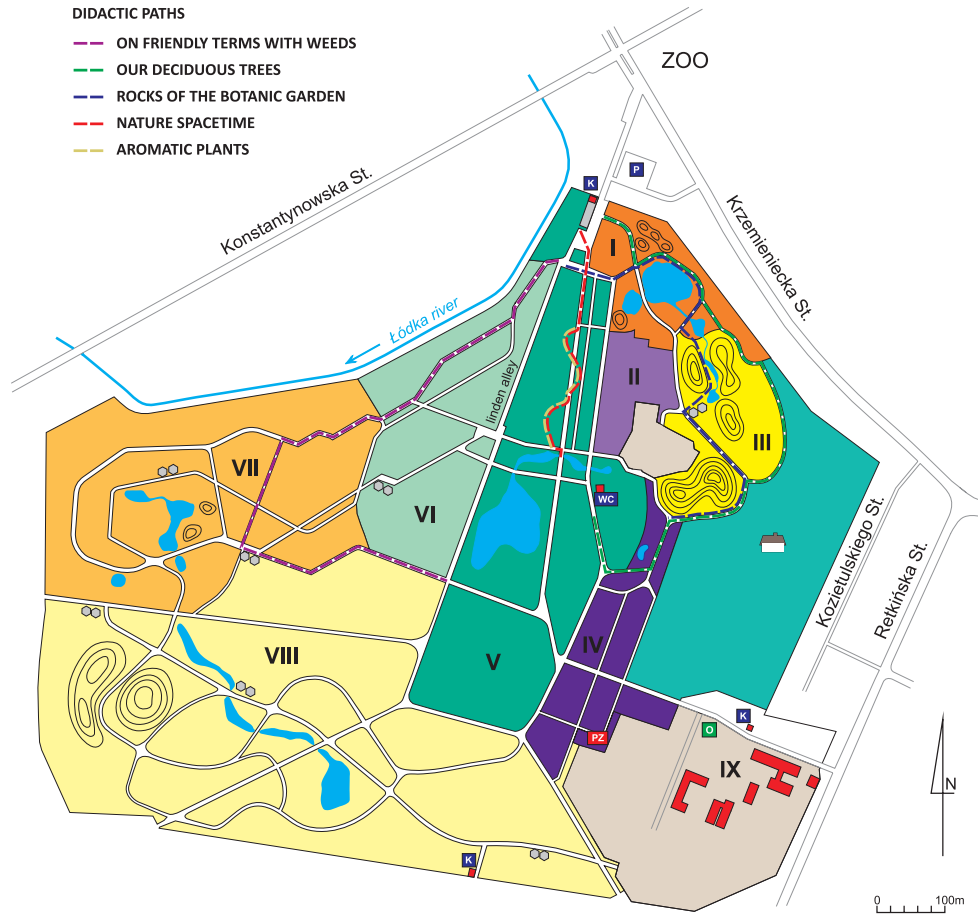
Hortus Botanicus Lodziensis
INDEX SEMINUM 2016

Head of the Botanic Garden in Lodz
dr Dorota Mańkowska

Curator of the seed collection
mgr Aleksandra Rosochacka



The Botanic Garden in Lodz



- DIDACTIC PATHS**
- ON FRIENDLY TERMS WITH WEEDS
 - OUR DECIDUOUS TREES
 - ROCKS OF THE BOTANIC GARDEN
 - NATURE SPACETIME
 - AROMATIC PLANTS

- I** JAPANESE GARDEN
- II** PLANT TAXONOMY SECTION
- III** ALPINE GARDEN
- IV** DECORATIVE PLANT SECTION
- V** PARK GREENERY
- VI** MEDICINAL PLANT SECTION
- VII** POLISH FLORA SECTION
- VIII** ARBORETUM
- IX** PRODUCTION, SOCIAL AND ADMINISTRATIVE FACILITIES

- MAIN ROADS
- WATERCOURSES AND PONDS
- HILLS
- BUILDINGS
- SHEDS
- PLACES FOR REST
- FIREPLACE
- TICKET OFFICE
- PARKING
- PLAYGROUND
- PLANT OPEN-AIR MUSEUM

Geographical location of the Botanic Garden:

Latitude: 51°44'30" N

Longitude: 19°24'30" E

Altitude: 187 m above sea level

Garden area: 67 ha



Climatic data:

Meteorological data for the period 1995 to 2014	Date
Annual average air temperature: +8,6°C	
Maximum air temperature: +37,6°C	01.08.1994
Minimum air temperature: -30,2°C	23.01.2006
Average annual precipitation: 563,4 mm	

Meteorological data for 2015	Date
Annual average air temperature: +9,9°C	
Maximum air temperature: +36,7°C	08.08.2015
Minimum air temperature: -9,5°C	07.01.2015
Annual precipitation: 395,6 mm	

The climatic data taken from the meteorological station Lodz-Lublinek from the Institute of Meteorology and Water Management (IMGW).

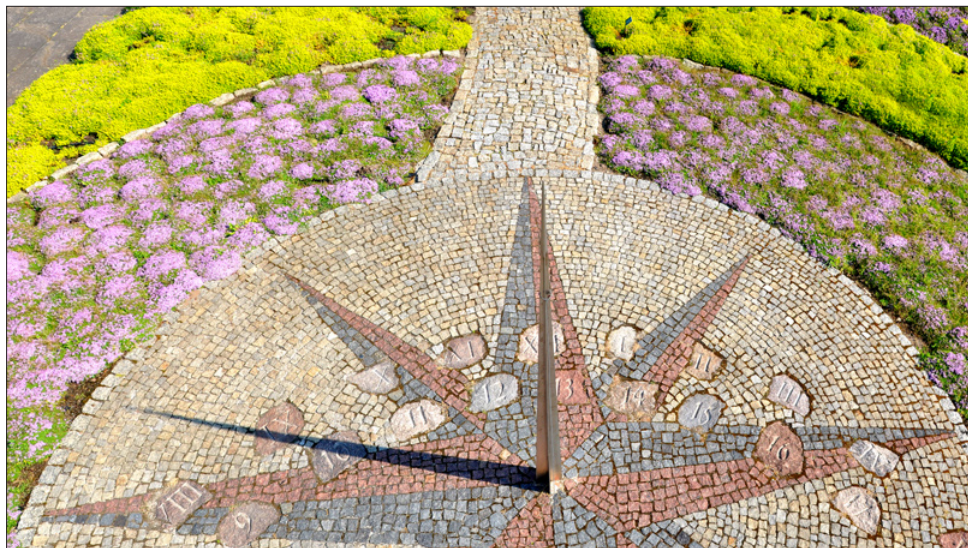
The Botanic Garden in Lodz is located in the western part of the city and covers an area of 67 hectares. The garden was opened to the public in 1973. The Garden's plant collection consist of about 3500 taxa which are exhibited in the thematic sections: japanese garden, plant taxonomy section, alpine garden, decorative plant section, park greenery, medicinal plant section, polish flora section and arboretum. The biggest attraction of the Garden are: a collection of 50 000 tulips forming in late april picturesque carpet, a collection of peonies and daylilies represented by many varieties, collection of medicinal plants, lilacs, hydrangeas, ornamental apple trees and many others. In the Garden there are several educational paths which allow visitors to explore the mysteries of nature. The new attraction of the Botanic Garden is The Open-air Plant Museum with traditional rural garden and orchard.

The Botanic Garden has also an interesting collection of greenhouse plants (2170 taxa), which is presented in the Palm House. There are three pavilions: subtropical flora, cacti and other succulents and tropical flora with ,the oldest in Poland, palm trees. The integral part of the Palm House is a Didactic Garden which has a lot of plant rarities, especially shrubs and trees.

Primarily the Garden performs didactic functions, popularizes horticultural, botanic and ecological knowledge and plays the social role. Garden staff conduct a variety of educational activities such as workshops, laboratory exercises and guided tours for children and adults. During each year there are more than 20 organized thematic exhibitions and outdoor events. A very important role of the Garden is also rare and endangered plant species conservation.



The garden of useful plants at the Open air Plant Museum



Interactive sundial on the didactic path "Nature Spacetime"



The Alpine Garden



Spring at the Arboretum



The oldest palm trees in Poland at the tropical flora pavilion in the Palm House

Seeds collected from plants cultivated outdoors in the Botanic Garden in Lodz in 2016
 (* - seeds collected in 2015, ** - seeds collected in 2014)

ACANTHACEAE

1. *Acanthus hungaricus* (Borbás) Baen.*

ACERACEAE

2. *Acer campestre* L.
3. *Acer griseum* (Franch.) Pax
4. *Acer negundo* L.
5. *Acer platanoides* L.
6. *Acer pseudoplatanus* L.
7. *Acer tataricum* L.*

ALISMATACEAE

8. *Alisma plantago-aquatica* L.

ALLIACEAE

9. *Allium cernuum* Roth
10. *Allium giganteum* Regel *
11. *Allium pyrenaicum* Costa & Vayr.
12. *Allium ramosum* L.**
13. *Allium tuberosum* Rottler ex Spreng.*
14. *Allium victorialis* L.

ANACARDIACEAE

15. *Cotinus coggygia* 'Royal Purple'
16. *Cotinus coggygia* 'Purpureus'
17. *Rhus typhina* L.*

ANTHERICACEAE

18. *Anthericum ramosum* L.*

APIACEAE

19. *Aegopodium podagraria* L.
20. *Angelica archangelica* L.
21. *Anthriscus sylvestris* (L.) Hoffm. *
22. *Astrantia carniolica* 'Rubra' **
23. *Astrantia major* 'Sunningdale Variegated'
24. *Astrantia major* 'Venice'
25. *Carum carvi* L.
26. *Coriandrum sativum* L.
27. *Eryngium amethystinum* L.
28. *Eryngium bourgatii* Gouan *
29. *Eryngium caeruleum* M.Bieb.*
30. *Eryngium campestre* L.
31. *Eryngium caucasicum* Fisch. ex Steud.
32. *Eryngium giganteum* M.Bieb.*
33. *Eryngium yuccifolium* Michx.*
34. *Foeniculum vulgare* Mill.
35. *Foeniculum vulgare* 'Purpureum'
36. *Pastinaca sativa* L. *
37. *Pimpinella saxifraga* L. *

AQUIFOLIACEAE

38. *Ilex aquifolium* L.
39. *Ilex laevigata* (Pursh) A.Gray

ARACEAE

40. *Arisaema amurense* Maxim. *
41. *Arisaema triphyllum* (L.) Schott
42. *Arum italicum* 'Marmoratum' *

ARALIACEAE

43. *Eleutherococcus senticosus* (Rupr. ex Maxim.) Maxim.
44. *Eleutherococcus sessiliflorus* (Rupr. ex Maxim.) S.Y.Hu

ARISTOLOCHIACEAE

45. *Asarum caudatum* Lindl.

ASCLEPIADACEAE

46. *Periploca sepium* Bunge
47. *Vincetoxicum hirundinaria* Medik.

ASPLENIACEAE

48. *Phyllitis scolopendrium* 'Cristata' *

ASTERACEAE

49. *Achillea filipendulina* 'Parker's Variety'
50. *Achillea macrophylla* L.
51. *Achillea millefolium* L.
52. *Anacyclus officinarum* Hayne *
53. *Anaphalis margaritacea* (L.) Benth. *
54. *Anaphalis triplinervis* (Sims.) C.B.Clarke **
55. *Antennaria dioica* (L.) Gaertn.
56. *Arctium lappa* L. *
57. *Arnica chamissonis* Less.
58. *Arnica montana* L.
59. *Artemisia absinthium* L.
60. *Artemisia abrotanum* L.
61. *Artemisia dracunculus* L.
62. *Artemisia stelleriana* Besser
63. *Artemisia vulgaris* L.
64. *Aster alpinus* 'Albus' **
65. *Aster cordifolius* L. **
66. *Aster laevis* L. **
67. *Aster 'Rosenwichtel'* **
68. *Aster sagittifolius* Wedem. ex Willd. **
69. *Aster tibeticus* Hook. f. *
70. *Aster tongolensis* Franch. *
71. *Calendula officinalis* L.
72. *Centaurea dealbata* Willd. **
73. *Centaurea dealbata* 'Steenbergii'

74. *Centaurea macrocephala* Muss. Puschk.
ex Willd. *

75. *Centaurea montana* L.

76. *Centaurea pulcherrima* Willd.

77. *Cichorium intybus* L.

78. *Cnicus benedictus* L.

79. *Coreopsis grandiflora* 'Goldstrale' *

80. *Coreopsis grandiflora* 'Sonnenkind' **

81. *Coreopsis grandiflora* 'Sunray' **

82. *Coreopsis palmata* Nutt.

83. *Coreopsis pubescens* Elliott

84. *Coreopsis verticillata* 'Grandiflora' *

85. *Cynara cardunculus* L.

86. *Echinacea purpurea* (L.) Moench

87. *Echinops horridus* Desf. *

88. *Echinops ritro* L.

89. *Echinops sphaerocephalus* L. *

90. *Erigeron alpinus* L.

91. *Erigeron caucasicus* subsp. *venustus*
Grierson

92. *Erigeron speciosus* var. *macranthus* (Nutt.)
Cronquist **

93. *Gaillardia aristata* Pursh

94. *Grindelia squarrosa* (Pursh) Dunal

95. *Helianthus annuus* L.

96. *Heliopsis helianthoides* 'Asahi'

97. *Inula ensifolia* L.

98. *Inula helenium* L.

99. *Inula magnifica* Lipsky **

100. *Inula royleana* DC.

101. *Leucanthemum* 'Mount Kościuszko'

102. *Liatris pycnostachya* Michx.

103. *Liatris spicata* (L.) Willd. *

104. *Liatris spicata* var. *montana* A.Gray

105. *Ligularia dentata* (A. Gray) H.Hara *

106. *Ligularia dentata* 'Desdemona' *

107. *Ligularia dentata* 'Othello' **

108. *Ligularia przewalskii* (Maxim.) Diels

109. *Ligularia stenocephala* (Maxim.) Matsum.
et Koidz.

110. *Rhaponticum carthamoides* (Willd.) Iljin *

111. *Rudbeckia laciniata* L. *

112. *Rudbeckia laciniata* 'Herbstonne'

113. *Rudbeckia triloba* L. *

114. *Silphium perfoliatum* L. *

115. *Silybum marianum* (L.) Gaertn.

116. *Solidago* 'Strahlenkrone' *

117. *Solidago virgaurea* L.

118. *Tanacetum cinerariifolium* (Trevir.) Sch.
Bip.

119. *Tanacetum parthenium* (L.) Sch.Bip. *

120. *Tanacetum vulgare* L. *

121. *Tragopogon pratensis* subsp. *orientalis*
Čelak. *

BERBERIDACEAE

122. *Berberis aggregata* C.K.Schneid.

123. *Berberis julianae* C.K.Schneid.

124. *Berberis koreana* Palib.

125. *Berberis thunbergii* 'Atropurpurea'

126. *Berberis vulgaris* L.

127. *Mahonia aquifolium* (Pursh) Nutt.

BETULACEAE

128. *Alnus glutinosa* (L.) Gaertn.

129. *Alnus incana* (L.) Moench.

130. *Alnus rugosa* (Du Roi) Spreng.

131. *Betula alleghaniensis* Britton

132. *Betula fruticosa* Pall.

133. *Betula pendula* Roth

BIGNONIACEAE

134. *Catalpa bignonioides* Walter

135. *Catalpa fargesii* fo. *duclouxii* (Dode)
Gilmour

136. *Catalpa xerubescens* Carrière

137. *Catalpa ovata* G.Don

138. *Catalpa speciosa* Warder ex Engelm.

BORAGINACEAE

139. *Anchusa officinalis* L.

140. *Borago officinalis* L. *

141. *Echium vulgare* L.

142. *Phacelia tanacetifolia* Benth.

BRASSICACEAE

143. *Alyssum argenteum* All.

144. *Alyssum armenum* Boiss.

145. *Alyssum montanum* L. *

146. *Berteroa incana* (L.) DC. *

147. *Iberis sempervirens* L.

148. *Isatis tinctoria* L.

CAESALPINIACEAE

149. *Cercis siliquastrum* L.

150. *Gleditsia triacanthos* L.

151. *Gleditsia triacanthos* var. *inermis* Willd.

152. *Gymnocladus dioica* (L.) K.Koch *

CAMPANULACEAE

153. *Campanula alliariifolia* Willd.

154. *Campanula persicifolia* L.

155. *Campsis radicans* (L.) Bureau

156. *Codonopsis lanceolata* (Siebold et Zucc.)
Trautv.

157. *Codonopsis pilosula* (Franch.) Nannf.

158. *Platycodon grandiflorus* (Jacq.) A.DC.

159. *Platycodon grandiflorus* 'Albus'

160. *Platycodon grandiflorus* 'Double White'

161. *Symphandra hofmannii* Pant. **

CANNABACEAE

162. *Humulus lupulus* L.

CAPRIFOLIACEAE

163. *Kolkwitzia amabilis* Graebn.

164. *Lonicera alpigena* L.

165. *Lonicera ferdinandii* Franch. *

166. *Lonicera henryi* Hemsl. *

167. *Lonicera maackii* (Rupr.) Maxim.

168. *Lonicera vesicaria* Kom.

169. *Lonicera xylosteum* L. *

170. *Sambucus nigra* L.

171. *Sambucus nigra* 'Laciniata' *

172. *Symphoricarpos albus* (L.) S.F.Blake

173. *Symphoricarpos orbiculatus* Moench

174. *Viburnum dilatatum* Thunb.

175. *Viburnum edule* (Michx.) Raf.

176. *Viburnum lantana* L.

177. *Viburnum opulus* L.

178. *Viburnum opulus* 'Xanthocarpum'

179. *Viburnum rhytidophyllum* Hemsl.

180. *Viburnum sargentii* Koehne

CARYOPHYLLACEAE

181. *Dianthus petraeus* Waldst. et Kit. **

182. *Gypsophila libanotica* Boiss.

183. *Gypsophila paniculata* L.

184. *Lychnis coronaria* (L.) Desr.

185. *Petrorhagia saxifraga* (L.) Link **

186. *Saponaria officinalis* L.

CELASTRACEAE

187. *Celastrus orbiculatus* Thunb.

188. *Euonymus europaeus* L.

189. *Euonymus hamiltonianus* Wall. *

190. *Euonymus macropterus* Rupr.

191. *Euonymus nanus* M.Bieb.

192. *Euonymus sacrosanctus* Koidz.

CISTACEAE

193. *Helianthemum* 'Fire Dragon'

194. *Helianthemum nummularium* (L.) Mill. **

195. *Helianthemum* 'Sterntaler'

CLUSIACEAE

196. *Hypericum olympicum* L. *

197. *Hypericum perforatum* L.

CONVALLARIACEAE

198. *Convallaria majalis* L. *

199. *Liriope graminifolia* (L.) Baker **

CORNACEAE

200. *Cornus alba* L. *

201. *Cornus amomum* Mill. *

202. *Cornus kousa* var. *chinensis* (Osborn)
Q.Y.Xiang *

203. *Cornus mas* L. *

204. *Cornus mas* fo. *sphaerocarpa* L. *

205. *Cornus sanguinea* L.

CORYLACEAE

206. *Carpinus betulus* L.

207. *Carpinus betulus* 'Pendula'

208. *Carpinus caroliniana* Walter

209. *Carpinus japonica* Blume *

210. *Ostrya carpinifolia* Scop.

CRASSULACEAE

211. *Chiastophyllum oppositifolium* (Ledeb.
ex Nordm.) Berger *

212. *Rhodiola rosea* L. *

213. *Sedum aizoon* L. **

214. *Sedum kamtschaticum* subsp.
ellacombeanum (Praeger) R.T. Clausen *

215. *Sedum seleskianum* Regel et Maack

216. *Sedum spurium* M.Bieb. *

CUCURBITACEAE

217. *Bryonia dioica* Jacq.

CUPRESSACEAE

218. *Calocedrus decurrens* (Torr.) Florin

219. *Chamaecyparis lawsoniana* (A.Murray bis)
Parl.T

220. *Juniperus communis* L.

221. *Juniperus sabina* L.

222. *Platycladus orientalis* (L.) Franco *

223. *Thuja occidentalis* L. *

224. *Thuja plicata* Donn ex D.Don

225. *Thujopsis dolabrata* (Thunb. ex L.f.)
Siebold et Zucc.

CYPERACEAE

226. *Carex grayi* J.Carey *

227. *Carex muskingumensis* Schweinf.

228. *Carex pendula* Huds. **

229. *Schoenoplectus lacustris* (L.) Palla *

DIPSACACEAE

230. *Dipsacus sativus* (L.) Honck.

231. *Scabiosa caucasica* M.Bieb. **

232. *Scabiosa japonica* var. *alpina* Takeda

233. *Scabiosa ochroleuca* L. **

234. *Scabiosa pyrenaica* All. *

ELAEOGNACEAE

235. *Elaeagnus angustifolia* L.

236. *Elaeagnus umbellata* Thunb. *

ERICACEAE

- 237. Vaccinium oxycoccos L.
- 238. Vaccinium uliginosum L.

EUCOMIACEAE

- 239. Eucommia ulmoides Oliv.

EUPHORBIACEAE

- 240. Euphorbia lathyris L. **
- 241. Ricinus communis L.
- 242. Securinega suffruticosa (Pall.) Rehder

FABACEAE

- 243. Amorpha canescens Pursh *
- 244. Amorpha fruticosa L. *
- 245. Anthyllis alpestris Kit. ex Schult. *
- 246. Anthyllis montana L. *
- 247. Colutea arborescens L.
- 248. Cytisus scoparius (L.) Link.
- 249. Desmodium canadense (L.) DC.
- 250. Galega officinalis L. *
- 251. Genista tinctoria L.
- 252. Glycyrrhiza glabra L.
- 253. Laburnum alpinum (Mill.) Berchtold et J.Presl
- 254. Laburnum anagyroides Medik.
- 255. Laburnum xwatereri (G.Kirchn.) Dippel *
- 256. Melilotus officinalis (L.) Pall. *
- 257. Ononis spinosa L.
- 258. Robinia pseudoacacia L.
- 259. Robinia pseudoacacia 'Unifoliola'
- 260. Thermopsis montana Nutt.
- 261. Trifolium fragiferum L.
- 262. Trigonella foenum-graecum L.
- 263. Wisteria floribunda (Willd.) DC.

FAGACEAE

- 264. Castanea sativa Mill.
- 265. Fagus sylvatica L. *
- 266. Fagus sylvatica 'Incisa'
- 267. Fagus sylvatica 'Spaethiana'
- 268. Quercus cerris L.
- 269. Quercus robur L.
- 270. Quercus rubra L.

GENTIANACEAE

- 271. Gentiana algida var. purdomii (C. Marquand) T.N. Ho **
- 272. Gentiana dinarica Beck **
- 273. Gentiana septemfida Pall.
- 274. Gentiana tibetica King ex Hook.f.

GERANIACEAE

- 275. Geranium sanguineum L. *

GLOBULARIACEAE

- 276. Globularia repens Lam.
- 277. Globularia trichosantha Fisch. et C.A.Mey. **

HEMEROCALLIDACEAE

- 278. Hemerocallis dumortieri C.Morren **

HIPPOCASTANACEAE

- 279. Aesculus flava Sol.
- 280. Aesculus xhybrida DC. *
- 281. Aesculus glabra Willd.
- 282. Aesculus hippocastanum L.
- 283. Aesculus hippocastanum 'Baranowska'
- 284. Aesculus turbinata Blume

HOSTACEAE

- 285. Hosta ' Fortunei 'Marginato-alba' **
- 286. Hosta 'Golden Tiara' **
- 287. Hosta montana 'Aureomarginata' **
- 288. Hosta rectifolia Nakai **
- 289. Hosta rectifolia var. chionea F.Maek. **
- 290. Hosta sieboldiana (Hook.) Engl. **
- 291. Hosta ventricosa Stearn **

HYACINTHACEAE

- 292. Eucomis bicolor L'Hér.
- 293. Muscari botryoides (L.) Mill. *

HYDRANGEACEAE

- 294. Deutzia scabra Thunb. *

IRIDACEAE

- 295. Iris versicolor L.
- 296. Sisyrinchium angustifolium Mill. *

JUGLANDACEAE

- 297. Juglans ailantifolia Carrière *
- 298. Pterocarya fraxinifolia Spach
- 299. Pterocarya stenoptera C.DC.

JUNCACEAE

- 300. Luzula sylvatica (Huds.) Gaudin *

LAMIACEAE

- 301. Agastache rugosa (Fisch. et C.A.Mey.) Kuntze
- 302. Agastache rugosa 'Alabaster'
- 303. Agastache rugosa 'Golden Jubilee'
- 304. Agastache rugosa 'Raspberry Summer'
- 305. Ballota nigra L.
- 306. Betonica officinalis L.
- 307. Dracocephalum ruyschiana L.
- 308. Hyssopus officinalis L.
- 309. Hyssopus officinalis 'Albus' *

- 310. Lavandula angustifolia Mill.
- 311. Lavandula angustifolia 'Dwarf Blue' *
- 312. Lavandula angustifolia 'Hidcote'
- 313. Leonurus cardiaca L.
- 314. Melissa officinalis L.
- 315. Mentha longifolia (L.) Huds. *
- 316. Mentha pulegium L. **
- 317. Mentha xvillosa Huds.
- 318. Monarda bradburiana L.C. Beck *
- 319. Nepeta cataria L.
- 320. Nepeta nervosa Royle ex Benth. *
- 321. Ocimum basilicum 'Citrodatum'
- 322. Origanum vulgare L.
- 323. Physostegia virginiana 'Summer Snow'
- 324. Prunella xpinnatifida Pers. **
- 325. Prunella xwebbiana Paul
- 326. Prunella grandiflora (L.) Scholler
- 327. Prunella grandiflora 'Alba'
- 328. Prunella hyssopifolia L. *
- 329. Salvia nemorosa L.
- 330. Salvia nemorosa 'Ostfriesland'
- 331. Salvia officinalis L.
- 332. Salvia pratensis L. *
- 333. Salvia sclarea L.
- 334. Salvia verticillata L.
- 335. Satureja hortensis L.
- 336. Scutellaria baicalensis Georgi
- 337. Stachys byzantina K.Koch
- 338. Stachys germanica L.
- 339. Stachys grandiflora (Stev. et Willd.) Benth.
- 340. Teucrium chamaedrys L.
- 341. Teucrium scorodonia L.
- 342. Thymus pulegioides L. *

LARDIZABALACEAE

- 343. Akebia quinata (Houtt.) Decne. **
- 344. Decaisnea fargesii Franch.

LILIACEAE

- 345. Tulipa tarda Stapf **

LINACEAE

- 346. Linum perenne L. *
- 347. Linum usitatissimum L.

LYTHRACEAE

- 348. Lythrum salicaria L.
- 349. Lythrum salicaria 'Feuerkerze' **

MAGNOLIACEAE

- 350. Liriodendron tulipifera L.
- 351. Magnolia kobus DC.

MALVACEAE

- 352. Alcea rosea 'Nigra'

- 353. Althaea officinalis L.
- 354. Malva neglecta Wallr. **
- 355. Sida hermaphrodita (L.) Rusby *

MYRICACEAE

- 356. Myrica pensylvanica Mirb.

NYCTAGINACEAE

- 357. Mirabilis jalapa L.

OLEACEAE

- 358. Fontanesia phillyreoides subsp. fortunei (Carrière) Yalt. *
- 359. Fraxinus excelsior L.
- 360. Fraxinus excelsior 'Pendula'
- 361. Fraxinus ornus L. *
- 362. Jasminum nudiflorum Lindl.
- 363. Ligustrum obtusifolium Siebold et Zucc.
- 364. Ligustrum obtusifolium var. regelianum Rehder
- 365. Ligustrum vulgare L.
- 366. Ligustrum vulgare 'Chlorocarpum'

ONAGRACEAE

- 367. Chamaenerion angustifolium (L.) Scop.
- 368. Oenothera biennis L.
- 369. Oenothera fruticosa L. **

OSMUNDACEAE

- 370. Osmunda regalis L. *
- 371. Osmunda regalis 'Purpurascens' *

PAPAVERACEAE

- 372. Chelidonium majus L. *
- 373. Glaucium flavum Crantz
- 374. Macleaya cordata (Willd.) R.Br.
- 375. Papaver atlanticum (Ball) Coss. *
- 376. Papaver rhoeas L.

PHYTOLACCACEAE

- 377. Phytolacca americana L.
- 378. Phytolacca polyandra Batalin *

PINACEAE

- 379. Abies koreana E.H.Wilson
- 380. Abies nordmaniana 'Pendula'
- 381. Larix decidua Mill.
- 382. Larix kaempferii (Lamb.) Carrière
- 383. Picea abies f. chlorocarpa Th.Fr.
- 384. Picea asperata Mast.
- 385. Picea mariana (Mill.) Britton, Sterns et Poggenb.
- 386. Picea omorika (Pančić) Purk.
- 387. Picea orientalis Link.
- 388. Picea pungens Engelm.

389. *Picea pungens* 'Argentea'
 390. *Pinus armandii* Franch.
 391. *Pinus contorta* Douglas ex Loudon
 392. *Pinus mugo* Turra
 393. *Pinus nigra* Arnold
 394. *Pinus ponderosa* Douglas ex Lawson
 et C.Lawson
 395. *Pinus strobus* L.
 396. *Pinus sylvestris* L.
 397. *Pinus wallichiana* A.B.Jacks.
 398. *Pseudotsuga menziesii* var.*glauca* (Mayr)
 Franco

PLANTAGINACEAE

399. *Plantago lanceolata* L.
 400. *Plantago major* L.
 401. *Plantago major* 'Purpurea' *
 402. *Pseudolysimachion incanum* (L.) Holub

PLATANACEAE

403. *Platanus xacerifolia* (Aiton) Willd. *
 404. *Platanus occidentalis* L. *
 405. *Platanus orientalis* L. *

PLUMBAGINACEAE

406. *Limonium suworowii* (Regel) Kuntze

POACEAE

407. *Briza maxima* L.
 408. *Coix lacryma-jobi* L.
 409. *Koeleria glauca* (Schrad.) DC.
 410. *Lagurus ovatus* L.

POLEMONIACEAE

411. *Polemonium caeruleum* L.

POLYGONACEAE

412. *Polygonum bistorta* L.
 413. *Rumex hydrolapathum* Huds.

PRIMULACEAE

414. *Androsace carnea* L. *
 415. *Dodecatheon meadia* L.
 416. *Lysimachia vulgaris* L.
 417. *Primula denticulata* Sm. *
 418. *Primula elatior* subsp. *Ruprechtii* *
 419. *Primula japonica* A.Gray **
 420. *Primula japonica* 'Miller's Crimson' **
 421. *Primula veris* L. *

RANUNCULACEAE

422. *Actaea dahurica* (Turcz. ex Fisch.
 et C.A.Mey.) Franch. **
 423. *Actaea europaea* (Schipcz.) J.Compton
 424. *Actaea racemosa* L.

425. *Actaea spicata* L. *
 426. *Anemone sylvestris* 'Macrantha'
 427. *Anemone virginiana* L. **
 428. *Aquilegia 'Nora Barlow'* *
 429. *Aquilegia 'Rose Barlow'* **
 430. *Aquilegia vulgaris* 'Clementine Blue' *
 431. *Aquilegia vulgaris* 'Woodside Gold'
 432. *Clematis alpina* (L.) Mill
 433. *Clematis mandschurica* Rupr.
 434. *Clematis recta* L.
 435. *Clematis vitalba* L.
 436. *Consolida regalis* Gray *
 437. *Eranthis hyemalis* (L.) Salisb. *
 438. *Helleborus niger* L. *
 439. *Helleborus orientalis* Lam. *
 440. *Nigella sativa* L.
 441. *Pulsatilla vulgaris* Mill.
 442. *Pulsatilla vulgaris* 'Rubra'
 443. *Thalictrum alpinum* L.
 444. *Thalictrum dipterocarpum* Franch.

RHAMNACEAE

445. *Frangula alnus* L.
 446. *Rhamnus cathartica* L.

ROSACEAE

447. *Acaena novae-zelandiae* Kirk **
 448. *Agrimonia eupatoria* L. *
 449. *Alchemilla xanthochlora* Rothm.
 450. *Amelanchier ovalis* Medik.
 451. *Aronia melanocarpa* (Michx.) Elliott
 452. *Chaenomeles japonica* (Thunb.) Lindl.
 453. *Chaenomeles japonica* 'Cido'
 454. *Chaenomeles speciosa* (Sweet) Nakai
 455. *Chaenomeles speciosa* 'Nivalis'
 456. *Chaenomeles xsuperba* 'Vesuvius'
 457. *Cotoneaster acutifolius* Turcz.
 458. *Cotoneaster amoenus* E.H.Wilson *
 459. *Cotoneaster boisianus* Klotz
 460. *Cotoneaster bullatus* Bois
 461. *Cotoneaster buxifolius* Wall. ex Lindl.
 462. *Cotoneaster dammeri* C.K.Schneid.
 463. *Cotoneaster dielsianus* E.Pritz. ex Diels
 464. *Cotoneaster foveolatus* Rehder et
 E.H.Wilson
 465. *Cotoneaster franchetii* Bois
 466. *Cotoneaster giraldii* Flinck et B. Hylmö
 et G. Klotz
 467. *Cotoneaster hissaricus* Pojark.
 468. *Cotoneaster hjelmqvistii* Flinck et B.Hylmö
 469. *Cotoneaster horizontalis* Decne.
 470. *Cotoneaster horizontalis* 'Wilsonii'
 471. *Cotoneaster lucidus* Schldl.
 472. *Cotoneaster microphyllus* Wall. ex Lindl.
 473. *Cotoneaster nanshan* Mottet

474. *Cotoneaster niger* (Wahlb.) Fr.
 475. *Cotoneaster rehderi* Pojark.
 476. *Cotoneaster salicifolius* Franch. *
 477. *Cotoneaster simonsii* Baker
 478. *Cotoneaster splendens* Flinck et Hylmö
 479. *Cotoneaster turcomanicus* Pojark.
 480. *Cotoneaster 'Ursynów'*
 481. *Cotoneaster wardii* W.W.Sm.
 482. *Cotoneaster zabelii* C.K.Schneid.
 483. *Crataegus coccinea* L.
 484. *Crataegus crus-galli* L.
 485. *Crataegus intricata* Lange
 486. *Crataegus laevigata* (Poir.) DC.
 487. *Crataegus monogyna* Jacq.
 488. *Crataegus punctata* 'Aurea'
 489. *Crataegus sanguinea* Pall. *
 490. *Cydonia oblonga* Mill.
 491. *Dryas octopetala* L. *
 492. *Exochorda giraldii* Hesse *
 493. *Exochorda korolkowii* Lavallée
 494. *Filipendula ulmaria* (L.) Maxim.
 495. *Filipendula vulgaris* Moench
 496. *Geum rivale* L.
 497. *Geum triflorum* Pursh
 498. *Geum urbanum* L.
 499. *Malus toringo* var. *sargentii* C.K.Schneid.
 500. *Photinia villosa* (Thunb.) DC.
 501. *Physocarpus opulifolius* (L.) Maxim.
 502. *Physocarpus opulifolius* 'Diabolo'
 503. *Physocarpus opulifolius* 'Luteus'
 504. *Potentilla alba* L. *
 505. *Potentilla fulgens* Wall. ex Hook. *
 506. *Potentilla gracilis* Douglas ex Hook. *
 507. *Potentilla rupestris* L.
 508. *Potentilla rupestris* var. *pygmaea* Duby
 509. *Prinsepia sinensis* (Oliv.) Oliv. ex Bean *
 510. *Prinsepia uniflora* Batalin
 511. *Prunus spinosa* L. *
 512. *Pyracantha 'Deart's Daffodil'*
 513. *Pyracantha 'Orange Glow'*
 514. *Pyracantha coccinea* 'Lalandei'
 515. *Pyracantha coccinea* var. *kuntayi*
 516. *Pyrus salicifolia* Pall.
 517. *Pyrus salicifolia* 'Pendula'
 518. *Rhodothypos scandens* (Thunb.) Makino
 519. *Rosa agrestis* Savi
 520. *Rosa amblyotis* C.A. Mey.
 521. *Rosa arvensis* Huds.
 522. *Rosa blanda* Aiton
 523. *Rosa canina* L. *
 524. *Rosa carolina* L.
 525. *Rosa corymbifera* Borkh.
 526. *Rosa davurica* Pall.
 527. *Rosa dumalis* Bechst.
 528. *Rosa filipes* Rehder et E.H.Wilson

529. *Rosa gallica* L.
 530. *Rosa glauca* Pourr.
 531. *Rosa inodora* Fr.
 532. *Rosa jundzillii* Besser
 533. *Rosa majalis* Herrm.
 534. *Rosa mollis* Sm.
 535. *Rosa moschata* Mill.
 536. *Rosa moyesii* Hemsl. et E.H.Wilson
 537. *Rosa multiflora* 'Inermis'
 538. *Rosa nitida* Willd.
 539. *Rosa nutkana* Pall.
 540. *Rosa pimpinellifolia* L.
 541. *Rosa pisocarpa* A. Gray
 542. *Rosa roxburghii* Tratt. *
 543. *Rosa roxburghii* var. *hirtula* Rehder et E.H.
 Wilson *
 544. *Rosa rubiginosa* L.
 545. *Rosa rugosa* Thunb.
 546. *Rosa rugosa* 'Alba'
 547. *Rosa sempervirens* L.
 548. *Rosa setigera* Michx.
 549. *Rosa sherardii* Davies
 550. *Rosa stylosa* Desv.
 551. *Rosa virginiana* Mill.
 552. *Rosa woodsii* Lindl.
 553. *Sanguisorba officinalis* L.
 554. *Sorbus xarnoldiana* 'Golden Wonder'
 555. *Sorbus discolor* (Maxim.) Maxim. *
 556. *Sorbus domestica* L.
 557. *Sorbus koehneana* C.K.Schneid.
 558. *Sorbus 'Pink Veil'*
 559. *Waldsteinia geoides* Willd. *

RUBIACEAE

560. *Asperula cynanchica* L.
 561. *Cephalanthus occidentalis* L.
 562. *Gallium odoratum* (L.) Scop. *

RUTACEAE

563. *Phellodendron amurense* Rupr.
 564. *Ptelea trifoliata* L.
 565. *Ruta graveolens* L.

SAXIFRAGACEAE

566. *Heuchera chlorantha* Piper **
 567. *Heuchera cylindrica* Dougl. ex Hook. **
 568. *Heuchera micrantha* var. *diversifolia*
 (Rydb.) Rosend., Butters et Lakela **
 569. *Heuchera richardsonii* R.Br.
 570. *Heuchera sanguinea* Engelm. *
 571. *Heuchera villosa* Michx.
 572. *Mitella caulescens* Nutt. *
 573. *Mitella ovalis* Greene
 574. *Saxifraga rotundifolia* L. *
 575. *Tiarella cordifolia* L.

SCHISANDRACEAE

576. Schisandra chinensis (Turcz.) Baill. *

SCROPHULARIACEAE

577. Digitalis grandiflora Mill.
 578. Digitalis lanata Ehrh.
 579. Digitalis purpurea L. *
 580. Paulownia tomentosa (Thunb.) Steud. *
 581. Scrophularia nodosa L.
 582. Verbascum bombyciferum Boiss.
 583. Verbascum thapsus L. *
 584. Veronica austriaca 'Royal Blue'
 585. Veronica caucasica M.Bieb.
 586. Veronica gentianoides Vahl **
 587. Veronica longifolia L.
 588. Veronica spicata 'Nana'
 589. Veronica spicata subsp. incana (L.) Walters

SOLANACEAE

590. Datura stramonium L.
 591. Hyoscyamus niger L.
 592. Nicandra physalodes (L.) Gaertn. *
 593. Nicotiana glauca Link et Otto
 594. Nicotiana glauca L.
 595. Physalis alkekengi L.
 596. Physalis alkekengi var. franchetii (Mast.) Mak.
 597. Solanum dulcamara L.
 598. Halesia monticola (Rehder) Sarg. *

TAXODIACEAE

599. Taxus baccata 'Elegantissima' *

TILIACEAE

600. Tilia americana 'Macrophylla'
 601. Tilia platyphyllos Scop.

TROPAEOLACEAE

602. Tropaeolum majus L.

ULMACEAE

603. Celtis australis L.
 604. Celtis glabrata Steven ex Planch.
 605. Celtis occidentalis L.

URTICACEAE

606. Parietaria officinalis L. *

VALERIANACEAE

607. Valeriana officinalis L. *

VERBENACEAE

608. Callicarpa bodinieri 'Profusion' *
 609. Callicarpa japonica Thunb.
 610. Verbena officinalis L.

VITACEAE

611. Ampelopsis brevipedunculata (Maxim.) Trautv.
 612. Vitis riparia Michx.

WOODSIACEAE

613. Onoclea sensibilis L. *

Cuttings from the greenhouses of the Botanic Garden**AMARYLLIDACEAE**

614. Eucharis grandiflora Planch. et Linden

ANTHERICACEAE

615. Chlorophytum comosum (Thunb.) Jacques
 616. Chlorophytum comosum 'Variegatum'
 617. Chlorophytum comosum 'Vittatum'

APOCYNACEAE

618. Vinca rosea L.

ARACEAE

619. Aglaonema 'Pattaya Beauty'
 620. Aglaonema commutatum Schott
 621. Aglaonema crispum (Pitcher et Manda) Nicolson
 622. Aglaonema modestum Schott ex Engl.
 623. Monstera deliciosa Liebm.
 624. Monstera obliqua Miq.
 625. Philodendron cordatum Kunth ex Schott
 626. Philodendron erubescens K.Koch et Augustin
 627. Philodendron melanochrysum Linden et André
 628. Philodendron microstictum Standl. et L.O.Williams
 629. Philodendron panduriforme (Kunth) Kunth
 630. Philodendron pedatum (Hook.) Kunth
 631. Philodendron scandens K.Koch et H.Sello
 632. Philodendron scandens subsp. oxycardium (Schott.) G.S.Bunting
 633. Philodendron squamiferum Poepp.
 634. Rhipidophora decursiva (Roxb.) Schott
 635. Syngonium angustatum 'Albolineatum'
 636. Syngonium podophyllum Schott
 637. Syngonium wendlandii Schott

ARALIACEAE

638. Polyscias balfouriana (Andre) L.H.Bailey

ASCLEPIADACEAE

639. Ceropegia woodii Schltr.

640. Hoya carnosa (L.f.) R.Br.
 641. Stephanotis floribunda Brongn.

ASPHODELACEAE

642. Haworthia batesiana Uitew.
 643. Haworthia cooperi Baker
 644. Haworthia papillosa Haw.
 645. Haworthia planifolia Haw.
 646. Haworthia translucens Haw.

ASPLENIACEAE

647. Asplenium bulbiferum G.Forst.

BEGONIACEAE

648. Begonia 'Cleopatra'
 649. Begonia angularis Raddi
 650. Begonia bowerae Ziesenh.
 651. Begonia bowerae var. nigramarga Ziesenh.
 652. Begonia breviflora subsp. exotica Tebbitt
 653. Begonia convolvulacea (Klotzsch) A.DC.
 654. Begonia corallina Carrière
 655. Begonia corallina 'Lucerna'
 656. Begonia xcredneri F.Haage et E.Schmidt
 657. Begonia dietrichiana Irmsch.
 658. Begonia echinosepala var. elongatifolia Irmsch.
 659. Begonia egregia N.E.Br.
 660. Begonia epipsila Brade
 661. Begonia xerythrophylla Héringq
 662. Begonia xerythrophylla 'Helix'
 663. Begonia foliosa Kunth
 664. Begonia fuchsioides Hook.
 665. Begonia glabra Aubl.
 666. Begonia hispida var. cucullifera Irmsch.
 667. Begonia xhoughtonii hort.
 668. Begonia hydrocotylifolia Graham ex Klotzsch
 669. Begonia incarnata Link et Otto
 670. Begonia limminghuana Morren
 671. Begonia listada L.B.Sm. et Wasshs.
 672. Begonia malabarica Lam.
 673. Begonia masoniana Irmsch. ex Ziesenh.
 674. Begonia metallica W.G.Sm.
 675. Begonia mollicaulis Irmsch.
 676. Begonia odorata Willd.
 677. Begonia peltata A.DC.
 678. Begonia serratifolia Irmsch.
 679. Begonia soli-mutata L.B.Sm. et Wassh.
 680. Begonia strigillosa A.Dietr.
 681. Begonia sulcata Scheidw.
 682. Begonia xthurstonii hort. ex Kennedy
 683. Begonia ulmifolia Willd.
 684. Begonia vitifolia Schott

BROMELIACEAE

685. Cryptanthus acaulis (Lindl.) Beer
 686. Cryptanthus bivittatus (Hook.) Regel

COMMELINACEAE

687. Callisia insignis C.B.Clarke
 688. Callisia multiflora (M.Martens et Galeotti) Standl.
 689. Callisia repens (Jacq.) L.
 690. Commelina somalensis Chiov.
 691. Cyanotis cristata (L.) D.Don
 692. Cyanotis kewensis C.B.Clarke
 693. Cyanotis somaliensis C.B.Clarke
 694. Geogenanthus undatus (C.Koch et Linden) Mildbraed et Strauss
 695. Gibasis geniculata (Jacq.) Rohweder
 696. Setcreasea purpurea Boom.
 697. Setcreasea striata hort.
 698. Siderasis fuscata (Lodd.) H.E.Moore
 699. Tradescantia albiflora 'Albovitatta'
 700. Tradescantia blossfeldiana Mildb.
 701. Tradescantia crassula Link et Otto
 702. Tradescantia fluminensis Vell.
 703. Tradescantia multiflora Sw.
 704. Tradescantia navicularis Ortgies
 705. Tradescantia sillamontana Matuda
 706. Zebrina flocculosa G.Brückn.
 707. Zebrina pendula Schnizl.

CRASSULACEAE

708. Kalanchoe daigremontiana Raym.-Hamet et H.Perrier
 709. Kalanchoe tubiflora Raym.-Hamet

DRACAENACEAE

710. Sansevieria cylindrica Bojer

EUPHORBIACEAE

711. Pedilanthus tithymaloides (L.) Poit.
 712. Pedilanthus tithymaloides 'Variegatus'

GESNERIACEAE

713. Aeschynanthus marmoratus T.Moore
 714. Aeschynanthus radicans Jack
 715. Episcia cupreata (Hook.) Hanst.
 716. Episcia dianthiflora H.E.Moore et R.G.Wils
 717. Hypocyrtia glabra Hook.
 718. Nematanthus strigillosus (Mart.) H.E.Moore

MORACEAE

719. Ficus 'Moclame'
 720. Ficus benghalensis L.
 721. Ficus benjamina L.
 722. Ficus benjamina 'Eldorado'

723. *Ficus benjamina* 'Rococo'
 724. *Ficus cyathistipula* Warb.
 725. *Ficus elastica* 'Melany'
 726. *Ficus microcarpa* L.
 727. *Ficus pumila* L.
 728. *Ficus sagittata* Vahl

PEPEROMIACEAE

729. *Peperomia boivinii* C.DC.
 730. *Peperomia caperata* Yunck.
 731. *Peperomia clusiifolia* (Jacq.) Hook.
 732. *Peperomia columbiana* Miq.
 733. *Peperomia flexicaulis* Wawra
 734. *Peperomia glabella* (Sw.) A.Dietr.
 735. *Peperomia incana* (Haw.) A.Dietr.
 736. *Peperomia longispica* Trel.
 737. *Peperomia major* (Miq.) C.DC.
 738. *Peperomia marmorata* Hook.f.
 739. *Peperomia meridana* Yunck.
 740. *Peperomia obtusifolia* (L.) A.Dietr.

741. *Peperomia obtusifolia* 'Green Gold'
 742. *Peperomia obtusifolia* 'Variegata'
 743. *Peperomia orba* Bunt.
 744. *Peperomia pereskiifolia* (Jacq.) Kunth
 745. *Peperomia quadrangularis* (J.V.Thomps.)
 A.Dietr.
 746. *Peperomia rubella* Hook.
 747. *Peperomia sarcophylla* Sodiro
 748. *Peperomia serpens* (Sw.) Loud.
 749. *Peperomia serpens* 'Variegata'

VITACEAE

750. *Cissus antarctica* Vent.
 751. *Cissus discolor* Blume
 752. *Cissus hypoglauca* A. Gray
 753. *Rhoicissus capensis* (Burm.f.) Planch
 754. *Rhoicissus rhomboidea* (E.Mey. ex Harv.)
 Planch.
 755. *Tetrastigma voinieranum* Piere ex Pit.

Index Seminarium 2016 is also available on our website: www.botaniczny.lodz.pl

Nomenclature:

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DESIDERATA

Agreement on the supply of plant material

Since the Convention on Biological Diversity (Rio de Janeiro, 1992) entered into force, it has become necessary for botanic gardens to comply in particular with Article 15 (Access to genetic resources), especially in connection with the exchange of plant material.

Accordingly, the garden only passes on plant material under the condition that the user acts in the spirit of the Convention on Biological Diversity. The garden is dedicated to the conservation, sustainable use and research of biological diversity. With regard to the acquisition, maintenance and supply of plant material, the garden therefore expects its partners to act in a manner that is consistent to the letter and the spirit of the Biodiversity Convention on International Trade in Endangered Species (CITES) and in compliance with all relevant conventions and laws relating to the protection of Biological diversity.

Consequently, only those persons and institutions who accept the following conditions will receive plant material from garden's collection:

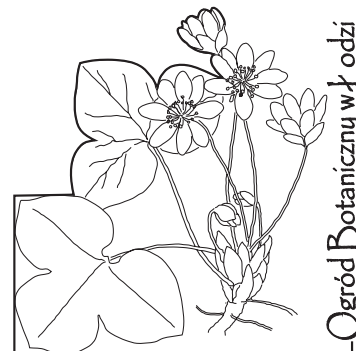
1. On the basis of this agreement, the material is intended to serve the common good, particularly scientific study, education and the interests of environmental protection.
2. Upon accepting plant material from the garden, the recipient is obliged to document and preserve information relating to the material appropriately.
3. In the event that scientific publications on the plant material provided are produced, the origin of the material is to be cited. In addition, these publications are expected to be sent to the garden automatically, without request.
4. Intended commercial use by the recipient is not covered by this agreement. The commercialization is the object of a separate agreement with the country of origin. This agreement underlies the provisions of the CBD, i. e. the user is obliged to share benefits with the country of origin and to forward relevant information to the authority instructed with the implementation of the CBD.
5. The garden will forward information on the material supply on the request to authority instructed with the implementation of the CBD¹.
6. Plant material may only be supplied on the basis and under the condition of this corresponding agreement.

I accept the above conditions.

Date, Signature

Name and address, stamp

¹in the ideal case the National Focal Point of the country of Botanic Garden



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Your address:

Please, limit Your order to 20 different seeds or cuttings.

Desiderata with the signed Agreement should be sent by post or by mail until 31st March 2017.