

МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ РФ
ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ
ОБРАЗОВАТЕЛЬНОЕ
УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ
«ПОВОЛЖСКИЙ ГОСУДАРСТВЕННЫЙ ТЕХНОЛОГИЧЕСКИЙ
УНИВЕРСИТЕТ»

Ботанический сад-институт



**БОТАНИЧЕСКИЙ
САД-ИНСТИТУТ ПТУ**

**DELECTUS SEMINUM,
QUAE PRO MUTUA COMMUTATIONE OFFERT**

№ 25

Йошкар-Ола

2016

С заявками обращаться по адресу:

424030, Республика Марий Эл,
г. Йошкар-Ола, ул. Мира, 2^б
Ботанический сад-институт
E-mail: botsad@volgatech.net ,
LazarevaSM@volgatech.net

Семена, предлагаемые в этом списке, являются результатом от свободного опыления, поэтому видовая чистота не гарантируется.

Названия семейств, родов и видов растений выверены по:

1) The Plant List [Электронный ресурс].- Режим доступа:

<http://www.theplantlist.org/>

2) Royal Horticultural Society [Электронный ресурс].- Режим доступа:

<https://www.rhs.org.uk/>

Семена собрали: О.А. Бирюкова - зав. лаб. интродукции и акклиматизации травянистых растений, Л.В. Сухарева – зав. лаб. интродукции и акклиматизации древесных растений, С.В. Мухаметова – инженер лаб. интродукции и акклиматизации древесных растений, И.И. Хуснутдинова – зав. лаб. тропических и субтропических растений, С.Б. Шафигуллина – зав. лаб. орнаментальной флоры и садово-паркового строительства, Е.И. Киселёва – инженер лаб. интродукции и акклиматизации травянистых растений, М.А.Окач - инженер лаб. интродукции и акклиматизации травянистых растений.

Список семян подготовила к печати: Е.А. Волкова – зав. лаб. биологии растений и семеноводства.

ХАРАКТЕРИСТИКА ТЕРРИТОРИИ РАСПОЛОЖЕНИЯ

Ботанический сад-институт расположен в юго-восточной части г. Йошкар-Олы с координатами $56^{\circ}37'$ с.ш. и $47^{\circ}46'$ в.д. Площадь составляет 73,8га.

По лесорастительному районированию С.Ф. Курнаева (1973), территория относится к лесной зоне подзоне смешанных лесов с дубом. Высота над уровнем моря 100 м. Климат умеренно-континентальный. Среднегодовая температура воздуха $+3,6^{\circ}\text{C}$, сумма осадков 450-500 мм, средняя продолжительность вегетационного периода 170 дней, периода без заморозков - 120 дней. Абсолютный минимум $-44,6^{\circ}\text{C}$, максимум - $+40,1^{\circ}\text{C}$. Самый поздний срок заморозков - 11 июня, самый ранний - 15 августа.

Почвы дерново-среднеподзолистые, среднесуглинистые на покровных суглинках.

CHARACTERISTIC OF TERRITORY LOCATION

The Botanical Garden-institute is located in the south-east part of Yoshkar-Ola city.

Geographical coordinates:

latitude - $56^{\circ}37'$ North

longitude - $47^{\circ}46'$ East

altitude - 100 m.

Its area is 73,8 hectares.

The territory of the garden refers to the Forest zone, (subzone of the mixed woods with an oak). The climate is temperate and continental. Average annual temperature is $+3,6^{\circ}\text{C}$, precipitation total is of 450-500 mm; average duration of the vegetative period is 170 days, the period without frosts - 120 days. The minimal temperature is $-44,6^{\circ}\text{C}$, maximal temperature is $+40,1^{\circ}\text{C}$. The latest term of frosts is on June, 11, the earliest one is on August, 15.

**ОТКРЫТЫЙ ГРУНТ
SUB COELO
ДЕРЕВЬЯ И КУСТАРНИКИ
ARBORES ET FRUTICES**

- Семена 2016 г. сбора (seeds of 2016)

* - Семена 2015 г. сбора (seeds of 2015)

PINOPHYTA

CUPRESSACEAE

1. Thuja occidentalis L.

PINACEAE

2. Picea × fennica (Regel) Kom.
3. Pinus banksiana Lamb.
4. Pinus mugo Turra
5. Pinus pumila (Pall.) Regel
6. Pinus strobus L.

TAXACEAE

7. Taxus canadensis Marshall *

MAGNOLIOPHYTA

ADOXACEAE

8. Sambucus caerulea Raf.
9. Sambucus caerulea Raf.*
10. Sambucus racemosa L.
11. Sambucus racemosa L.
12. Sambucus racemosa L.*
13. Sambucus sibirica Nakai
14. Sambucus sibirica Nakai *
15. Viburnum lantana L.
16. Viburnum lantana L.*
17. Viburnum lentago L.
18. Viburnum opulus L.
19. Viburnum opulus L.*
20. Viburnum sargentii Koehne
21. Viburnum sargentii Koehne *

ANACARDIACEAE

22. Cotinus coggygia Scop.

ARALIACEAE

23. Eleutherococcus senticosus (Rupr. et Maxim.) Maxim.
24. Eleutherococcus sessiliflorus (Rupr. et Maxim.) S.Y.Hu *

ARISTOLOCHIACEAE

25. Aristolochia durior Hill

BERBERIDACEAE

26. Berberis amurensis Rupr. *
27. Berberis aquifolium Pursh
28. Berberis aquifolium Pursh*
29. Berberis canadensis Mill.
30. Berberis circumserrata (C.K.Schneid.) C.K.Schneid.
31. Berberis heteropoda Schrenk
32. Berberis × macracantha Schrad.
33. Berberis thunbergii DC.
34. Berberis thunbergii DC. *
35. Berberis vulgaris L.
36. Berberis vulgaris L. *

BETULACEAE

37. Alnus alnobetula subsp. fruticosa (Rupr.) Raus
38. Alnus alnobetula subsp. fruticosa (Rupr.) Raus *
39. Alnus incana (L.) Moench
40. Betula alleghaniensis Britton*
41. Betula humilis Schrank
42. Betula humilis Schrank *
43. Betula lenta L.
44. Betula pendula f. dalecarlica (L.f.) C. K. Schneid.
45. Corylus avellana L.*

CAPRIFOLIACEAE

46. Lonicera alpigena L.
47. Lonicera alpigena L. *
48. Lonicera × amoena Zab.
49. Lonicera caprifolium L.
50. Lonicera chrysantha Turcz. ex Ledeb.
51. Lonicera chrysantha Turcz. ex Ledeb. *
52. Lonicera demissa Rehder
53. Lonicera demissa Rehder**
54. Lonicera × gibbiflora Dippel
55. Lonicera glaucescens (Rydb.) Rydb.
56. Lonicera hirsuta Eaton
57. Lonicera longipes (Maxim.) Pojark.
58. Lonicera maackii (Rupr.) Maxim.
59. Lonicera maackii (Rupr.) Maxim. *
60. Lonicera maximowiczii (Rupr.) Regel
61. Lonicera nigra L.
62. Lonicera orientalis Lam.
63. Lonicera orientalis Lam.*

64. *Lonicera prolifera* (Kirchner) Booth ex Rehder
65. *Lonicera ruprechtiana* Regel
66. *Lonicera xylosteum* L.
67. *Lonicera xylosteum* L. *
68. *Symphoricarpos albus* (L.) S.F.Blake
69. *Weigela florida* (Bunge) A. DC.
70. *Weigela middendorffiana* (Carr.) K. Koch
71. *Weigela middendorffiana* (Carr.) K. Koch *
72. *Weigela praecox* (Lemoine) Bailey
73. *Weigela praecox* (Lemoine) Bailey*
- CELASTRACEAE**
74. *Celastrus scandens* L.
75. *Euonymus alatus* (Thunb.) Siebold
76. *Euonymus verrucosus* Scop.
77. *Tripterygium wilfordii* Hook. f.
78. *Tripterygium wilfordii* Hook. f. *
- CERCIDIPHYLLACEAE**
79. *Cercidiphyllum japonicum* Siebold et Zucc. ex J.J.Hoffm. et J.H.Schult. bis *
- CORNACEAE**
80. *Cornus alba* L.
81. *Cornus alba* L. *
82. *Cornus baileyi* J.M. Coult. & W.H. Evans
83. *Cornus obliqua* Raf.
- ELAEAGNACEAE**
84. *Elaeagnus angustifolia* L.
85. *Elaeagnus rhamnoides* (L.) A. Nelson
- ERICACEAE**
86. *Rhododendron brachycarpum* D.Don ex G. Don. f.
87. *Rhododendron calendulaceum* (Michx.) Torr.
88. *Rhododendron canadense* (L.) Torr.
89. *Rhododendron canadense* f. *albiflorum* (Rand. et Redf.) Rehd.
90. *Rhododendron catawbiense* Michx.
91. *Rhododendron fauriei* Franch.
92. *Rhododendron fortunei* Lindl.
93. *Rhododendron* × *gandavense* (C. Koch) Rehder
94. *Rhododendron japonicum* (A.Gray) Suringar
95. *Rhododendron japonicum* var. *aureum* Wils.
96. *Rhododendron luteum* Sweet
97. *Rhododendron macrophyllum* D.Don ex G. Don
98. *Rhododendron macrophyllum* D.Don ex G. Don *
99. *Rhododendron occidentale* (Torr. & A.Gray) A.Gray
100. *Rhododendron schlippenbachii* Maxim.
101. *Rhododendron yakuschimanum* Nakai
- FABACEAE**
102. *Amorpha fruticosa* L.
103. *Caragana arborescens* Lam.
104. *Caragana frutex* (L.) K. Koch *
105. *Colutea orientalis* Mill.
106. *Maackia amurensis* Rupr.**
107. *Robinia pseudoacacia* L.
- FAGACEAE**
108. *Quercus rubra* L.
- GROSSULARIACEAE**
109. *Ribes aureum* Pursh
110. *Ribes urceolatum* Tausch
- HYDRANGEACEAE**
111. *Deutzia parviflora* var. *amurensis* Regel
112. *Hydrangea arborescens* L.
113. *Philadelphus coronarius* L.
114. *Philadelphus lemoinei* auct.
115. *Philadelphus* × *magnificus* Kochne
116. *Philadelphus microphyllus* A. Gray
117. *Philadelphus schrenkii* Rupr.
118. *Philadelphus tenuifolius* Rupr.
- HYPERICACEAE**
119. *Hypericum hookerianum* Wight & Arn.
- JUGLANDACEAE**
120. *Juglans cinerea* L.
121. *Juglans mandshurica* Maxim.
- MAGNOLIACEAE**
122. *Magnolia kobus* DC.
- MALVACEAE**
123. *Tilia platyphyllos* Scop.*
124. *Tilia* × *vulgaris* Hill
- MORACEAE**
125. *Morus alba* L.
126. *Morus alba* L. *
- OLEACEAE**
127. *Fontanesia fortunei* Carriere
128. *Forsythia giraldiana* Lingelsh.
129. *Fraxinus pennsylvanica* Marshall
130. *Ligustrum vulgare* L.
131. *Syringa amurensis* Rupr.
132. *Syringa* × *henryi* C. K. Schneid.
133. *Syringa* × *henryi* C. K. Schneid. *
134. *Syringa josikaea* J.Jacq. ex Rchb.f.
135. *Syringa josikaea* J.Jacq. ex Rchb.f. *
136. *Syringa komarowii* C.K.Schneid.
137. *Syringa komarowii* C.K.Schneid. *

138. *Syringa oblata* Lindl.
139. *Syringa oblata* Lindl. *
140. *Syringa pubescens* subsp. *patula* (Palib.) M.C.Chang et X.L.Chen *
141. *Syringa reticulata* (Blume) H.Hara
142. *Syringa reticulata* subsp. *amurensis* (Rupr.) P.S.Green et M.C.Chang *
143. *Syringa tomentella* Bureau et Franch.
144. *Syringa tomentella* subsp. *sweginzowii* (Kohne et Lingelsh.) Jin Y.Chen et D.Y.Hong
145. *Syringa villosa* Vahl
- PAEONIACEAE**
146. *Paeonia* × *suffruticosa* Andrews
- PHYLLANTHACEAE**
147. *Flueggea suffruticosa* (Pall.) Baill.
- RANUNCULACEAE**
148. *Atragene sibirica* L.
149. *Clematis alpina* subsp. *sibirica* (L.) Kuntze*
150. *Clematis fusca* Turcz.
151. *Clematis fusca* Turcz. *
152. *Clematis glauca* Willd.
153. *Clematis integrifolia* L.
154. *Clematis integrifolia* L. *
155. *Clematis orientalis* L.
156. *Clematis orientalis* L. *
157. *Clematis serratifolia* Rehder
158. *Clematis terniflora* var. *manshurica* (Rupr.) Ohwi
159. *Clematis terniflora* var. *manshurica* (Rupr.) Ohwi *
160. *Clematis viticella* L.
- ROSACEAE**
161. *Aronia melanocarpa* (Michx.) Elliott
162. ×*Cerapadus micurinii* Micurini *
163. *Chaenomeles cathayensis* (Hemsl.) C.K.Schneid.
164. *Chaenomeles maulei* (Mast.) C.K. Schneid.
165. *Chaenomeles japonica* (Thunb.) Lindl. ex Spach
166. *Chaenomeles japonica* (Thunb.) Lindl. ex Spach *
167. *Cotoneaster dammeri* C.K.Schneid.
168. *Cotoneaster integerrimus* Medik.
169. *Cotoneaster lucidus* Schldl.
170. *Cotoneaster melanocarpus* Fisch. ex A.Blytt
171. *Cotoneaster racemiflorus* (Desf.) K.Koch
172. *Crataegus almaatensis* Pojark.
173. *Crataegus altaica* (Loudon) Lange
174. *Crataegus calpodendron* (Ehrh.) Medik.
175. *Crataegus chlorosarca* Maxim.
176. *Crataegus chrysocarpa* Ashe
177. *Crataegus flabellata* (Bosc ex Spach) K.Koch
178. *Crataegus germanica* (L.) Kuntze
179. *Crataegus macracantha* Lodd. ex Loudon
180. *Crataegus maximowiczii* C.K. Schneid
181. *Crataegus nigra* Waldst. et Kit.
182. *Crataegus pinnatifida* Bunge
183. *Crataegus* × *persimilis* Sarg. *
184. *Crataegus pringlei* Sarg.
185. *Crataegus punctata* f. *aurea*
186. *Crataegus sanguinea* Pall.
187. *Crataegus submollis* Sarg.
188. *Crataegus volgensis* Pojark.
189. *Dasiphora fruticosa* auct.
190. *Dasiphora fruticosa* auct. *
191. *Exochorda racemosa* (Lindl.) Rehder
192. *Holodiscus discolor* (Pursh) Maxim.
193. *Malus zumi* (Matsum.) Rehder
194. *Physocarpus intermedius* (Rydb.) Daniels
195. *Physocarpus opulifolius* (L.) Maxim. *
196. *Physocarpus opulifolius* cv. *Duabolo* *
197. *Physocarpus opulifolius* var. *intermedius* (Rydb.) B.L.Rob.
198. *Physocarpus opulifolius* var. *intermedius* (Rydb.) B.L. Rob.*
199. *Physocarpus ribesifolius* Kom.
200. *Prunus besseyi* L.H.Bailey
201. *Prunus besseyi* L.H.Bailey *
202. *Prunus cerasus* L.
203. *Prunus cerasus* L. *
204. *Prunus cerasifera* Ehrh.
205. *Prunus padus* L.
206. *Prunus padus* L. *
207. *Prunus pendulula* Siebold ex Maxim.
208. *Prunus pumila* L.
209. *Prunus sogdiana* Vassilcz.
210. *Rosa beggeriana* Schrenk ex Fisch. & C.A.Mey.
211. *Rosa glauca* Pourr.
212. *Rosa glauca* Pourr. *
213. *Rosa pendulina* L.
214. *Rosa rubiginosa* L.
215. *Rosa rugosa* Thunb.
216. *Rosa rugosa* Thunb. *
217. *Rosa spinosissima* L.
218. *Rosa spinosissima* L. *
219. *Rosa tomentosa* Sm.
220. *Rosa tomentosa* Sm. *
221. *Rosa villosa* L.
222. *Rosa villosa* L. *
223. *Rosa webbiana* Wall. ex Royle
224. *Rubus caesius* L.
225. *Rubus nessensis* Hall
226. *Rubus nessensis* Hall *
227. *Rubus odoratum* L.
228. *Rubus parvifolius* L. *
229. *Sibiraea altainensis* (Laxm.) C.K. Schneid.

230. *Sorbaria arborea* C.K. Schneid.
 231. *Sorbaria kirilowii* (Regel et Tiling) Maxim.*
 232. *Sorbus aria* (L.) Crantz
 233. *Sorbus aucuparia* L.
 234. *Spiraea alba* Du Roi
 235. *Spiraea albiflora* (Miq) Zabel.
 236. *Spiraea betulifolia* Pall.
 237. *Spiraea x bumalda* Burv.
 238. *Spiraea x bumalda* Burv.*
 239. *Spiraea chamaedryfolia* L.*
 240. *Spiraea crenata* L.
 241. *Spiraea densiflora* Nutt. ex Rydb.
 242. *Spiraea douglasii* Hook.
 243. *Spiraea douglasii* subsp. *menziesii* (Hook.)
 Calder et R.L.Taylor
 244. *Spiraea douglasii* subsp. *menziesii* (Hook.)
 Calder et R.L.Taylor *
 245. *Spiraea x fontenaysii* Lebas *
 246. *Spiraea humilis* Pojark.
 247. *Spiraea hypericifolia* L.
 248. *Spiraea japonica* L.f.
 249. *Spiraea x lemoinei* Zabel
 250. *Spiraea longigemmis* Maxim.
 251. *Spiraea media* Schmidt
 252. *Spiraea salicifolia* L.*
 253. *Spiraea x sanssouciana* K. Koch
 254. *Spiraea x sanssouciana* K. Koch *
 255. *Spiraea x syringiflora* Lemoine
 256. *Spiraea tomentosa* L.
 257. *Spiraea trichocarpa* Nakai
 258. *Spiraea trilobata* L.
 259. *Stephanandra tanakae* Franch. et Sav.
 260. *Stephanandra incisa* (Thunb.) Zabel

RUTACEAE

261. *Phellodendron amurense* Rupr.
 262. *Phellodendron amurense* Rupr. *
 263. *Phellodendron sachalinense* (F. Schmidt)
 Sarg.
 264. *Phellodendron sachalinense* (F. Schmidt)
 Sarg. *
 265. *Ptelea serrata* Small

SAPINDACEAE

266. *Acer campestre* L.
 267. *Acer campestre* L. *
 268. *Acer caudatum* subsp. *ukurundense*
 (Trautv. & C.A.Mey.) E.Murray
 269. *Acer pensylvanicum* L.
 270. *Acer platanoides* L.
 271. *Acer platanoides* 'Crimson King'
 272. *Acer spicatum* Lam.
 273. *Acer tataricum* subsp. *ginnala* (Maxim.)
 Wesm.
 274. *Acer tegmentosum* Maxim.
 275. *Aesculus glabra* Willd.
 276. *Aesculus hippocastanum* L.

SCHISANDRACEAE

277. *Schisandra chinensis* (Turcz.) Baill. *

SOLANACEAE

278. *Solanum dulcamara* L.

STAPHYLEACEAE

279. *Staphylea pinnata* L.

TAMARICACEAE

280. *Myricaria alopecuroides* Schrenk

VITACEAE

281. *Ampelopsis aconitifolia* Bunge
 282. *Ampelopsis glandulosa* var.
brevipedunculata (Maxim.) Momiy.
 283. *Ampelopsis glandulosa* var.
brevipedunculata (Maxim.) Momiy. *
 284. *Parthenocissus quinquefolia* (L.) Planch.
 285. *Parthenocissus quinquefolia* (L.) Planch. *
 286. *Vitis amurensis* Rupr.
 287. *Vitis inserta* A. Kern.
 288. *Vitis coignetiae* Pulliat ex Planch.
 289. *Vitis riparia* Michx.

**ТРАВЯНИСТЫЕ РАСТЕНИЯ
HERBAE**

MAGNOLIOPHYTA

ALLIACEAE

- 290. *Allium aflatunense* B. Fedtsch.
- 291. *Allium aflatunense* B. Fedtsch. *
- 292. *Allium aliganthum* Kar. et Kit.
- 293. *Allium altaicum* Pall.
- 294. *Allium altissimum* Regel
- 295. *Allium altissimum* Regel *
- 296. *Allium angulosum* L.
- 297. *Allium caeruleum* Pall.
- 298. *Allium carinatum* L.
- 299. *Allium denudatum* F. Delaroche
- 300. *Allium denudatum* F. Delaroche *
- 301. *Allium fistulosum* L.
- 302. *Allium ledebourianum* Schult. et Schult.f.
- 303. *Allium lusitanicum* Lam.
- 304. *Allium obliquum* L.
- 305. *Allium obliquum* L.*
- 306. *Allium oliganthum* Kar. et Kir.*
- 307. *Allium schoenoprasum* L.
- 308. *Allium sikkimense* Baker *
- 309. *Allium sphaerocephalon* L.
- 310. *Allium stipitatum* Regel
- 311. *Allium stipitatum* Regel *
- 312. *Allium victorialis* L.

APIACEAE

- 313. *Carum carvi* L.
- 314. *Carum carvi* L.*
- 315. *Coriandrum sativum* L.
- 316. *Laser trilobum* (L.) Borkh.
- 317. *Myrrhis odorata* (L.) Scop.
- 318. *Pastinaca sativa* L.

ASPARAGACEAE

- 319. *Anthericum ramosum* L. *
- 320. *Asparagus officinalis* L.
- 321. *Camassia cusickii* S. Watson *
- 322. *Camassia leichtlinii* (Barok) S. Watson
- 323. *Chinodoxa lucilia* cv. Alba
- 324. *Pseudomuscari azureum* (Fenzl) Garbari et Greuter
- 325. *Pseudomuscari azureum* (Fenzl) Garbari et Greuter *
- 326. *Puschkinia scilloides* Adams
- 327. *Scilla luciliae* (Boiss) Speta
- 328. *Scilla luciliae* 'Alba'
- 329. *Scilla sibirica* Haw.

BRASSICACEAE

- 330. *Arabis alpina* L.
- 331. *Arabis* × *arendsii* H.R. Wehrh.
- 332. *Arabis hirsuta* (L.) Scop.

- 333. *Arabis turrata* L.

CAMPANULACEAE

- 334. *Campanula autraniana* Albov
- 335. *Campanula cervicaria* L.
- 336. *Campanula komarovii* Malcev
- 337. *Campanula ramosissima* Sm. 'Metcola'
- 338. *Platycodon grandiflorus* (Jacq.) A. DC. *
- 339. *Phyteuma scheuchzeri* All.

CAPRIFOLIACEAE

- 340. *Patrinia intermedia* (Hornem.) Roem. et Schult.

CARYOPHYLLACEAE

- 341. *Cerastium biebersteinii* DC.
- 342. *Dianthus gratianopolitanus* Vill.
- 343. *Saponaria officinalis* L.

COLCHICACEAE

- 344. *Colchicum autumnale* L.

COMPOSITAE

- 345. *Calendula officinalis* L.
- 346. *Calendula officinalis* L.*
- 347. *Centaurea macrocephala* Muss. Puschk. ex Willd.
- 348. *Cephalophora aromatica* Schrad. *
- 349. *Doronicum austriacum* Jacq.
- 350. *Echinacea purpurea* (L.) Moench
- 351. *Echinacea purpurea* (L.) Moench*
- 352. *Echinops sphaerocephalus* L.*
- 353. *Echinops ritro* subsp. *ruthenicus* (M. Bieb.) Nyman
- 354. *Echinops ritro* subsp. *ruthenicus* (M. Bieb.) Nyman *
- 355. *Helenium autumnale* L.
- 356. *Helichrysum arenarium* (L.) Moench
- 357. *Helichrysum arenarium* (L.) Moench *
- 358. *Hymenoxys hoopesii* (A. Gray) Bierner *
- 359. *Inula helenium* L.
- 360. *Liatris elegans* (Walter) Michx.
- 361. *Pyrethrum corymbosum* (L.) Scop.
- 362. *Pyrethrum corymbosum* (L.) Scop.*
- 363. *Phlomis tuberosa* (L.) Moench
- 364. *Psephellus dealbatus* (Willd.) K. Koch *
- 365. *Tanacetum coccineum* (Willd.) Grierson *
- 366. *Telekia speciosa* (Schreb.) Baumg.

CRASSULACEAE

- 367. *Aeonium* × *hybridum* (Haw.) G. D. Rowley
- 368. *Sempervivum arachnoideum* L.
- 369. *Sempervivum purpurascens* Schott ex Boiss.
- 370. *Sempervivum caucasicum* Rupr. ex Boiss.

371. *Sempervivum hybridum* (Haw.) Sweet

CUCURBITACEAE

372. *Diplocyclos palmatus* (L.) C. Jeffrey

DIOSCOREACEAE

373. *Dioscorea nipponica* Makino

GENTIANACEAE

374. *Gentiana cruciata* L.*

375. *Gentiana lutea* L.

GERANIACEAE

376. *Geranium himalayense* Klotzsch

377. *Geranium transbaicalium* Serg.

HYACINTHACEAE

378. *Muskari armeniacum* cv. Pink Sunrise

IRIDACEAE

379. *Iris graminea* L.

380. *Iris halophila* Pall.

381. *Iris halophila* var. *sogdiana* (Bunge) Grubov

382. *Iris lactea* Pall.

383. *Iris pseudacorus* L.

384. *Iris sanguinea* Donn ex Hornem.

385. *Iris sibirica* L.

386. *Iris sibirica* cv. Bei Ky

387. *Iris sibirica* f. *albiflora* Makina

388. *Iris spuria* L. 'Alexi' **

389. *Iris spuria* subsp. *carthalinae* (Fomin)
B.Mathew

LAMIACEAE

390. *Agastache anisatus* Benth

391. *Dracocephalum argunense* Fisch. ex Link

392. *Lavandula angustifolia* Mill.*

393. *Melissa officinalis* L.

394. *Monarda didyma* L.*

395. *Origanum vulgare* L.

396. *Phlomis tuberosa* (L.) Moench.

397. *Phlomis tuberosa* (L.) Moench. *

398. *Stachys byzantina* K. Koch

399. *Stachys betoniciflora* Rupr.

LILIACEAE

400. *Fritillaria imperialis* L.

401. *Fritillaria imperialis* 'Lutea'

402. *Lilium martagon* L.*

LINACEAE

403. *Linum usitatissimum* L.

404. *Linum usitatissimum* L. *

MALVACEAE

405. *Althaea officinalis* L.

PAEONIACEAE

406. *Paeonia anomala* L.

407. *Paeonia anomala* L.*

POACEAE

408. *Festuca amethystina* L.*

409. *Cynosurus cristatus* L.

410. *Hystrix patula* Moench

POLEMONIACEAE

411. *Polemonium caeruleum* L.

412. *Polemonium pulcherrimum* Hook.

POLYGONACEAE

413. *Rheum tanguticum* Maxim. ex Balf.

414. *Rheum tanguticum* Maxim. ex Balf. *

RANUNCULACEAE

415. *Aconitum napellus* L.

416. *Anemone canadensis* L.

417. *Nigella sativa* L.

418. *Thalictrum minus* L.

419. *Trollius asiaticus* L.*

420. *Trollius europaeus* L.*

ROSACEAE

421. *Aruncus aethusifolius* (H.L.v.) Nakai

422. *Aruncus dioicus* (Walter) Fernald.

423. *Aruncus vulgaris* Kostel.

424. *Potentilla recta* L.

425. *Potentilla argrophylla* var. *atrosanguinea*

426. *Potentilla nepalensis* Hook

427. *Spiraea trifoliata* L.

428. *Sanguisorba magnifolia* I. Schischk. Et. Kom.

RUBIACEAE

429. *Rubia tinctorum* L.

SAXIFRAGACEAE

430. *Bergenia crassifolia* (L.) Fritsch *

431. *Heuchera cylindrica* Douglas*

432. *Saxifraga x arendsii* Arends

433. *Saxifraga caespitosa* f. *alba*

434. *Saxifraga caespitosa* f. *rosea*

SCROPHULARIACEAE

435. *Verbascum thapsus* L.

SOLANACEAE

436. *Datura stramonium* L.

VERBENACEAE

437. *Verbena officinalis* L.*

**ЗАКРЫТЫЙ ГРУНТ
SUB VITRO
ОРАНЖЕРЕЙНЫЕ РАСТЕНИЯ
PLANTAE IN CALIDARIS CULTAE**

POLYPODIOPHYTA

BLECHNACEAE

438. *Woodwardia orientalis* Sw.

DAVALLIACEAE

439. *Davallia dissecta* J. Sm.; Moore et Houlston
440. *Scyphularia pentaphylla* (Blume) Fee

DRYOPTERIDACEAE

441. *Cyrtomium falcatatum* (L.f.) C.Presl

POLYPODIACEAE

442. *Phlebodium aureum* (L.) J. Sm.

PTERIDACEAE

443. *Adiantum capillus-veneris* L.

MAGNOLIOPHYTA

AMARYLLIDACEAE

444. *Scadoxus multiflorus* subsp. *katharinae* (Baker) Friis et Nordal

ANNONACEAE

445. *Annona muricata* L.

APOCYNACEAE

446. *Ceropegia linearis* subsp. *debilis* (N. E. Br.) H. Huber
447. *Ceropegia woodii* Schltr.

ARACEAE

448. *Aglaonema commutatum* Schott

ARECACEAE

449. *Sabal minor* (Jacq.) Pers.

ASPARAGACEAE

450. *Bowiea volubilis* Harv.

COLCHICACEAE

451. *Gloriosa superba* L.

COMMELINACEAE

452. *Tradescantia spathacea* Sw.

COMPOSITAE

453. *Senecio articulatus* (L. f.) Sch. Bip.
454. *Senecio jacobsenii* Rowley

CRASSULACEAE

455. *Bryophyllum fedtschenkoi* (Raym.-Hamet et H.Perrier) Lauz.-March.
456. *Crassula arborescens* (Mill.) Willd.
457. *Crassula lactea* Aiton
458. *Crassula ovata* (Mill.) Druce
459. *Crassula perfoliata* var. *falcata* (J.C.Wendl.) Toelken
460. *Crassula socialis* Schonland
461. *Crassula* 'Tom Thumb '
462. *Echeveria agavoides* Lem.
463. *Echeveria leucotracha* J.A.Purpus
464. *Echeveria pulvinata* Rose
465. *Echeveria secunda* Booth ex Lindl.
466. *Graptopetalum macdougallii* Alexander
467. *Graptopetalum paraguayense* (N.E.Br.) E.Walther
468. ×*Graptoveria calva* (Gossot) Rowley
469. ×*Graptoveria* 'Titubans '
470. *Kalanchoe beauverdii* Raym.-Hamet
471. *Kalanchoe daigremontiana* Raym.-Hamet et H. Perrier
472. *Kalanchoe faustii* Font Quer
473. *Kalanchoe rhombopilosa* Mannoni et Boiteau
474. x *Pachyveria glauca* F.Haage et M.Schmidt
475. *Pachyphytum oviferum* Purpus
476. *Sedum burrito* Moran
477. *Sedum morganianum* E.Walther
478. *Sedum versadense* C.H. Thompson

DIOSCOREACEAE

479. *Dioscorea sansibarensis* Pax

EUPHORBIACEAE

480. *Euphorbia bubalina* Boiss.

HYPOXIDACEAE

481. *Molineria capitulata* (Lour.) Herb.

LAMIACEAE

482. *Clerodendrum thomsoniae* Balf.f.

LYTHRACEAE

483. *Punica granatum* L.

PHYLLANTHACEAE

484. *Phyllanthus grandifolius* L.

PITOSPORACEAE

485. *Pittosporum glabratum* Lindl.

RUBIACEAE

486. *Coffea arabica* L.

RUTACEAE

487. *Murraya koenigii* (L.) Spreng.

<u>Наш адрес:</u> 424030 Республика Марий Эл, г. Йошкар-Ола, ул. Мира, 2 ^Б Ботанический сад-институт E-mail: botsad@volgatech.net	<u>Ваш адрес:</u>
<u>Our address:</u> Botanic Garden Mira Str., 2 ^B 424030 YOSHKAR-OLA, Marii-El, Russia	<u>Your full address:</u>

DISIDERATA №24

**AGREEMENT
on the supply of plant material by VSTU Botanical Garden-institute**

Since the Convention on Biological Diversity (CBD, 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 MSTU Botanical Garden-institute only passes on plant material under the condition that the user acts in the spirit of the Convention on Biological Diversity. The MSTU Botanical Garden-institute is dedicated to the conservation, sustainable use and research of biological diversity. With regard to the acquisition, maintenance and supply of plant material, the MSTU Botanical Garden-institute therefore expects its partners to act in a manner that is consistent to the letter and the spirit of the Biodiversity Convention, the Convention on International Trade in Endangered Species (CITES) and in compliance with all relevant conventions and laws relating to the protection of biological diversity. As a consequence, plant material from the collections of the MSTU Botanical Garden-institute is supplied only to those persons and institutions who accept the following conditions:

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. 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, copies of such publications are expected to be sent to the MSTU Botanical Garden-institute without request.
4. Commercial use is not covered by this agreement but is object of a separate agreement with the country of origin. Such agreement underlies the provisions of the CBD, i. e. the user is obliged to share benefits with the country of origin. In this context, the user has to forward all relevant information to the authorities instructed with the implementation of the CBD. On request, the MSTU Botanical Garden-institute will provide such information to these authorities.
5. The recipient is allowed to supply plant material derived from the MSTU Botanical Garden-institute to others only on the basis and under the conditions of this or corresponding agreements.

I accept the above conditions:

Date _____ Signature _____
Name and address of the garden _____

stamp