HORTUS BOTANICUS

Журнал Совета ботанических садов СНГ при МААН

Index Seminum

I

11 / 2016

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На обложке:
Seed owl, handmade by Dr. Barbara Oberwinkler

Разработка и техническая поддержка
Отдел объединенной редакции научных журналов ПетрГУ, РЦ НИТ ПетрГУ, Ботанический сад ПетрГУ

Петрозаводск
2016

Index Seminum 2016. Botanic Garden of Petrozavodsk State University

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Ключевые слова: in situ, ex situ, Index seminum, список семян, генетические ресурсы

Аннотация: Список семян дикорастущих и культивируемых растений, собранных в 2016 году в Ботаническом саду ПетрГУ.

Получена: 11 декабря 2016 года **Подписана к печати:** 23 декабря 2016 года

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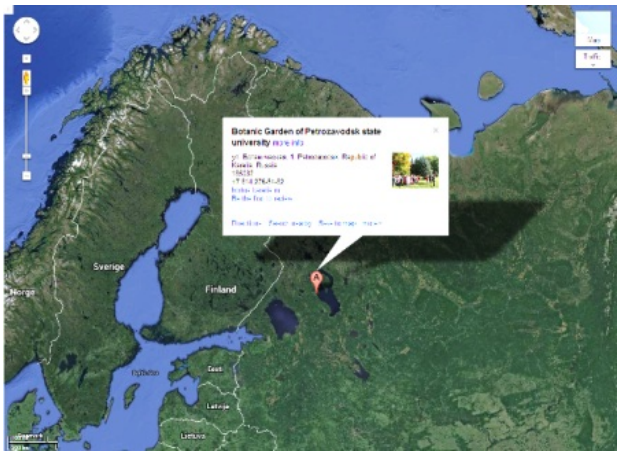
Index Seminum (Seed List) of botanical garden is proof of the success of ex situ cultivation of plants. It is an essential tool for the dissemination of genetic resources, has the unique ability to adapt. Accordingly, Index Seminum is the most important publication of the botanical garden - its contribution to the conservation and the formation of biological diversity of useful plants.

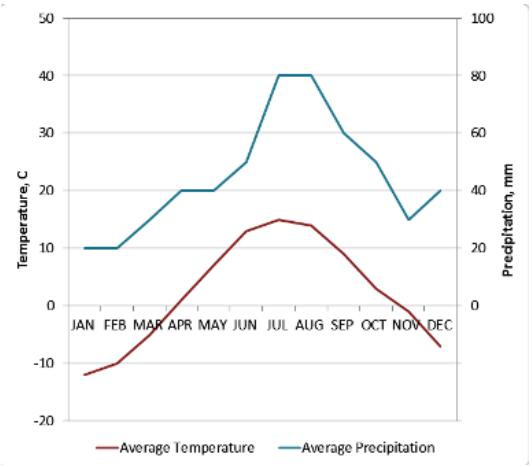
In 1951 the Botanic Garden of Petrozavodsk State University were founded amidst coniferous forests on the southern slopes of the surviving volcano on the northern bank of the Petrozavodsk bay of the Onega lake.

Geographical data:



Longitude: 34° 24 " East; Latitude: 61 ° 50 " North; altitude about sea level: 34 - 122 m

Climate:



Hardiness zone - 4

Seeds:

The seeds from the garden have had open pollination, hybridization is therefore possible.

Seeds were collected in 2015-2016 by E. Platonova, A. Eglacheva, T. Timohina.

W – seeds collected from natural habitats.

* – seeds were collected in 2015.

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	ADOXACEAE
1	*Viburnum lantana* L.
2	*Viburnum opulus* L. [W]
3	*Viburnum sargentii* Koehne
	ALISMATACEAE
4	*Sagittaria sagittifolia* L. [W]*
	ASPARAGACEAE
5	*Convallaria majalis* L. [W]
6	*Convallaria majalis* L.*
7	*Maianthemum bifolium* (L.) F.W.Schmidt [W]
	ASTERACEAE
8	*Achillea alpina* L.*
9	*Arnica rydbergii* Greene
10	*Centaurea jacea* L. [W]*
11	*Centaurea montana* L.*
12	*Centaurea scabiosa* L. [W]*
13	*Eupatorium cannabinum* L.
14	*Gnaphalium sylvaticum* L. [W]
15	*Hieracium aurantiacum* L.*
16	*Hieracium penduliforme* (Dahlst.) Johanss. [W]
17	*Hieracium pilosella* L. [W]
18	*Hieracium umbellatum* L. [W]
19	*Kalimeris incisa* (Fisch.) DC.
20	*Leucanthemum vulgare* (Vaill.) Lam. [W]

21	*Ligularia sibirica* (L.) Cass.
22	*Pyrethrum corymbosum* (L.) Scop.
23	*Schlagintweitia intybacea* (All.) Griseb.
24	*Solidago virgaurea* L. [W]*
	ASPLENIACEAE
25	*Asplenium trichomanes* L. [W]
	ATHYRIACEAE
26	*Athyrium filix-femina* (L.) Roth [W]
	BERBERIDACEAE
27	*Berberis vulgaris* L.
	BETULACEAE
28	*Alnus glutinosa* (L.) Gaertn. [W]
29	*Betula pendula* var. *carelica* (Merckl.) Hämet-Ahti
	CAMPANULACEAE
30	*Campanula latifolia* L. [W]*
31	*Campanula persicifolia* L. [W]
32	*Campanula patula* L. [W]
33	*Jasione montana* L.
	CAPRIFOLIACEAE
34	*Lonicera alpigena* L.
35	*Lonicera tatarica* L.*
36	*Lonicera xylosteum* L. [W]
37	*Symphoricarpos albus* (L.) S.F.Blake
38	*Scabiosa ochroleuca* L.
	CARYOPHYLLACEAE
39	*Dianthus deltoides* L.
40	*Dianthus fragrans* M.Bieb.
41	*Dianthus giganteus* subsp. *banaticus* (Heuff.) Tutin
42	*Dianthus hyssopifolius* subsp. *gallicus* (Pers.) M.Lainz & Munoz Garm
43	*Dianthus petraeus* Waldst. & Kit.
44	*Dianthus pyrenaicus* Pourr.
45	*Silene chalcedonica* (L.) E.H.L.Krause
46	*Silene dioica* (L.) Clairv. [W]
47	*Silene flos-cuculi* (L.) Greuter & Burdet [W]
48	*Silene suecica* (Lodd.) Greuter & Burdet*
49	*Silene viscaria* (L.) Jess. [W] *
50	*Silene viscaria* 'Splendens'
	CELASTRACEAE
51	*Euonymus europaeus* L.
	CISTACEAE
52	*Helianthemum nummularium* (L.) Mill.
	CRASSULACEAE
53	*Sedum kamtschaticum* Fisch.
54	*Sedum rupestre* L.
	CUPRESSACEAE

55	*Juniperus communis* L.
56	*Microbiota decussata* Kom.
57	*Thuja occidentalis* 'Aureospicata'
58	*Thuja occidentalis* 'Malonyana'
59	*Thuja occidentalis* 'Rosenthalii'
60	*Thuja occidentalis* 'Semperaurea'
	CYPERACEAE
61	*Carex muricata* L.
	CYSTOPTERIDACEAE
62	*Gymnocarpium dryopteris* (L.) Newman [W]
	DRYOPTERIDACEAE
63	*Dryopteris carthusiana* (Vill.) H.P. Fuchs [W]
64	*Dryopteris filix-mas* (L.) Schott [W]
	ELAEAGNACEAE
65	*Elaeagnus commutata* Bernh. ex Rydb.*
	ERICACEAE
66	*Empetrum nigru*m L. [W]
67	*Orthilia secunda* (L.) House [W]
68	*Pyrola media* Sw. [W]
69	*Rhododendron metternichii* Siebold & Zucc.
70	*Vaccinium uliginosum* L. [W]
71	*Vaccinium vitis-idaea* L. [W]
	FABACEAE
72	*Caragana arborescens* Lam.
73	*Caragana frutex* (L.) K.Koch
74	*Lathyrus vernus* (L.) Bernh. [W]
75	*Lathyrus sylvestris* L.
	GERANIACEAE
76	*Geranium pyrenaicum* Burm.f.
77	*Geranium sanguineum* L.
78	*Geranium sylvaticum* L. [W]
79	*Geranium thunbergii* Siebold ex Lindl. & Paxton
	GROSSULARIACEAE
80	*Ribes alpinum* L.
	HYDRANGEACEAE
81	*Hydrangea xanthoneura* Diels
	HYPERICACEAE
82	*Hypericum maculatum* Crantz [W]*
	IRIDACEAE
83	*Iris halophila* Pall.
84	*Iris halophila* var. *sogdiana* (Bunge) Grubov
85	*Iris pseudacorus* L.
86	*Iris ruthenica* Ker Gawl.
87	*Iris sanguinea* Donn ex Hornem.
88	*Iris setosa* Pall. ex Link*
89	*Iris sibirica* L.

90	*Iris sibirica* f.*albiflora*
91	*Iris versicolor* L.*
	JUGLANDACEAE
92	*Juglans mandshurica* Maxim.
	JUNCACEAE
93	*Luzula nive*a (Nathh.) DC.
	LAMIACEAE
94	*Clinopodium vulgare* L. [W]*
95	*Monarda* 'Cambridge Scarlet'
96	*Nepeta racemosa* Lam.
97	*Origanum vulgare* L. [W]
98	*Origanum vulgare* L.
99	*Physostegia virginiana* (L.) Benth.
100	*Salvia transsylvanica* (Schur ex Griseb. & Schenk) Schur
101	*Stachys byzantina* K.Koch
102	*Stachys macrantha* (K.Koch) Stearn
103	*Stachys officinalis* (L.) Trevis.
104	*Stachys palustris* L. [W]*
	MALVACEAE
105	*Tilia platyphyllos* Scop.
	MELANTHIACEAE
106	*Paris quadrifolia* L. [W]
	MENYANTHACEAE
107	*Menyanthes trifoliata* L. [W]
	NYMPHAEACEAE
108	*Nuphar lutea* (L.) Sm. [W]*
	OLEACEAE
109	*Forsythia ovata* Nakai
	ONOCLEACEAE
110	*Matteuccia struthiopteris* (L.) Tod. [W]
	PAEONIACEAE
111	*Paeonia anomala* L.
112	*Paeonia peregrina* Mill.
	PHYTOLACCACEAE
113	*Phytolacca esculenta* Van Houtte
	PINACEAE
114	*Abies concolor* (Gordon) Lindl. ex Hildebr.
115	*Abies sibirica* Ledeb.
116	*Larix* × *polonica* Racib.
117	*Larix archangelica* C.Lawson
118	*Larix czekanowskii* Szafer
119	*Larix decidua* Mill.
120	*Larix kaempferi* (Lamb.) Carrière
121	*Picea abies* (L.) H.Karst.
122	*Picea fennica (Regel) Kom. [W]*
123	*Picea glauca* (Moench) Voss*

124	*Pinus pumila* (Pall.) Regel
125	*Pinus sibirica* Du Tour
126	*Pinus strobus* L.
127	*Pseudotsuga menziesii* (Mirb.) Franco
	PLANTAGINACEAE
128	*Digitalis ciliata* Trautv.
129	*Digitalis lutea* L.
130	*Penstemon hirsutus* (L.) Willd.
131	*Penstemon lyallii* A. Gray
132	*Plantago lanceolata* L. [W]
133	*Veronica gentianoides* Vahl
134	*Veronica spicata* L. [W]
135	*Veronicastrum sibiricum* (L.) Pennell
	POLYGONACEAE
136	*Persicaria bistorta* (L.) Samp. [W]
137	*Rumex acetosa* L. [W]*
	POLYPODIACEAE
138	*Polypodium vulgare* L. [W]
	PRIMULACEAE
139	*Lysimachia punctata* L.
140	*Lysimachia vulgaris* L. [W]*
141	*Primula veris* L.
	RANUNCULACEAE
142	*Actaea spicata* L. *
143	*Aquilegia einseleana* F.W.Schultz
144	*Caltha palustris* L. [W]*
145	*Clematis recta* L.
146	*Ranunculus montanus* Willd.
147	*Thalictrum aquilegiifolium* L.*
148	*Thalictrum lucidum* L.
149	*Thalictrum minus* L.
150	*Thalictrum simplex* L.
151	*Trollius europaeus* L. [W]
152	*Trollius asiaticus* L.
153	*Trollius chinensis* Bunge
154	*Trollius hondoensis* Nakai
	RHAMNACEAE
155	*Frangula alnus* Mill.
156	*Rhamnus cathartica* L.
	*ROSACEA*E
157	*Agrimonia eupatoria* L.
158	*Alchemilla mollis* (Buser) Rothm.*
159	*Chaenomeles maulei* (Mast.) C.K.Schneid.
160	*Cotoneaster lucidus* Schltdl.
161	*Cotoneaster nebrodensis* Koch
162	*Crataegus punctata* Jacq.

163	*Crataegus sanguinea* Pall.
164	*Crataegus submollis* Sarg.
165	*Drymocallis rupestris* (L.) Soj k
166	*Filipendula ulmaria* (L.) Maxim. [W]
167	*Padus pensylvanica* (L.f.) S.Ya.Sokolov
168	*Physocarpus opulifolius* (L.) Maxim.
169	*Physocarpus opulifolius* 'Diabolo'
170	*Potentilla argyrophylla* 'Zolotysto-oranjevaya'
171	*Potentilla crantzii* (Crantz) Beck ex Fritsc*
172	*Potentilla drummondii* subsp. *breweri* (S.Watson) Ertter
173	*Potentilla* 'Flambeau'
174	*Potentilla* × *hopwoodiana* Sweet
175	*Potentilla nepalensis* Hook.*
176	*Potentilla nivea* L.
177	*Potentilla thurberi* 'Monarch's Velvet'
178	*Rosa majalis* Herrm. [W]
179	*Rosa nutkana* C.Presl
180	*Rosa rugosa* Thunb.
181	*Rosa spinosissima* L.
182	*Sanguisorba canadensis* L.*
183	*Sanguisorba minor* Scop.*
184	*Sibbaldia procumbens* L.
185	*Sorbaria sorbifolia* (L.) A.Braun
186	*Sorbus aucuparia* L.
	RUBIACEAE
187	*Galium boreale* L. [W]*
188	*Galium odoratum* (L.) Scop.
	RUTACEAE
189	*Ptelea trifoliata* L.
	SAPINDACEAE
190	*Acer tataricum* subsp. *ginnala* (Maxim.) Wesm.
	SAXIFRAGACEAE
191	*Heuchera cylindrica* Douglas
192	*Heuchera sanguinea* Engelm.
193	*Mitella diphylla* L.
194	*Rodgersia podophylla* A.Gray
195	*Saxifraga cotyledon* L.
196	*Saxifraga exarata* subsp. *moschata* (Wulfen) Cavill.
	SCROPHULARIACEAE
197	*Scrophularia nodosa* L. [W]
	SOLANACEAE
198	*Solanum dulcamara* L.*
	TAXACEAE
199	*Taxus canadensis* Marshall
200	*Taxus* x *media* 'Hicksii'
	THELYPTERIDACEAE

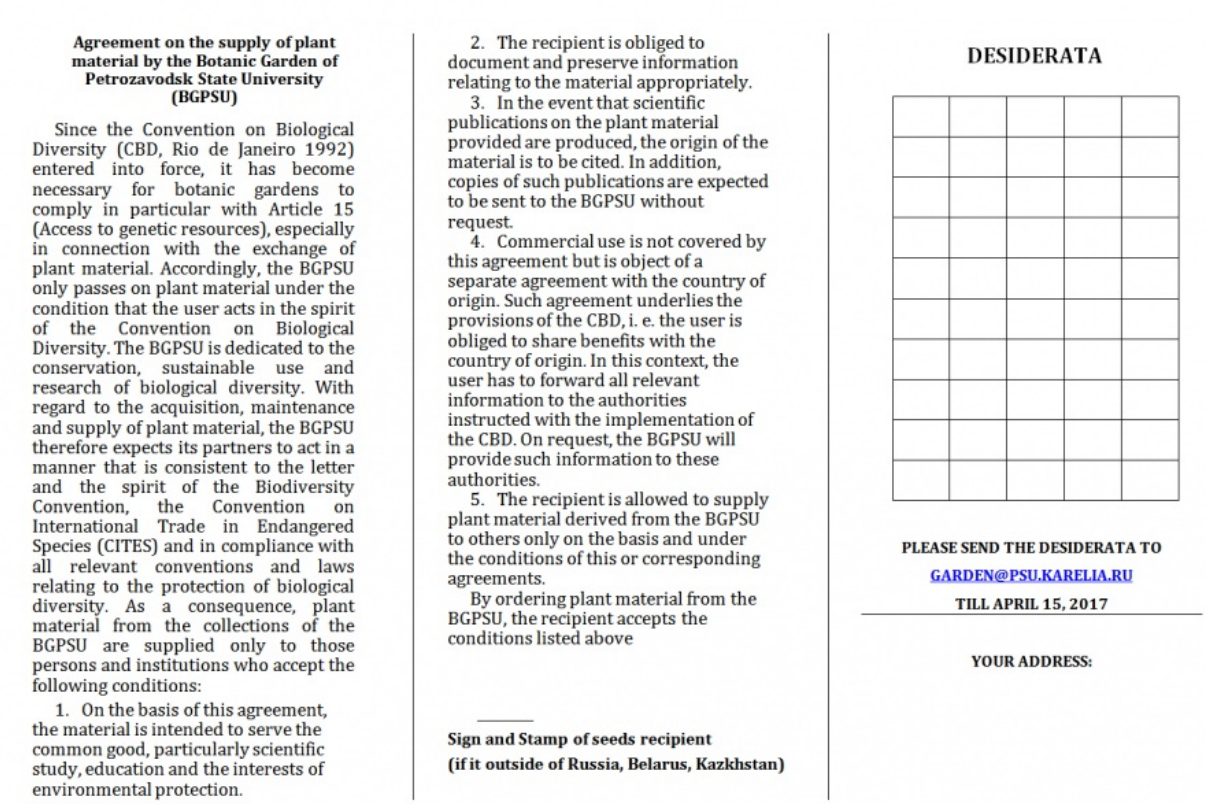
201	*Phegopteris connectilis* (Michx.) Watt [W]
	VIOLACEAE
202	*Viola labradorica* Schrank
	XANTHORRHOEACEAE
203	*Hemerocallis citrina* Baroni
204	*Hemerocallis lilioasphodelus* L.*
205	*Hemerocallis middendorffii* Trautv. & C.A.Mey. *
	*VITACEA*E
206	*Parthenocissus quinquefolia* (L.) Planch.
	WOODSIACEAE
207	*Woodsia ilvensis* (L.) R. Br. [W]

Persicaria bistorta (L.) Samp.

Campanula persicifolia L.

Menyanthes trifoliata L.

Seed request:



Agreement on the supply of plant material by the Botanic Garden of Petrozavodsk State University (BGPSU)

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 BGPSU only passes on plant material under the condition that the user acts in the spirit of the Convention on Biological Diversity. The BGPSU is dedicated to the conservation, sustainable use and research of biological diversity. With regard to the acquisition, maintenance and supply of plant material, the BGPSU 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 BGPSU are 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 BGPSU 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 BGPSU will provide such information to these authorities.
5. The recipient is allowed to supply plant material derived from the BGPSU to others only on the basis and under the conditions of this or corresponding agreements.

By ordering plant material from the BGPSU, the recipient accepts the conditions listed above

Sign and Stamp of seeds recipient
(if it outside of Russia, Belarus, Kazkhstan)

DESIDERATA

PLEASE SEND THE DESIDERATA TO
GARDEN@PSU.KARELIA.RU
TILL APRIL 15, 2017

YOUR ADDRESS:

Address: Seed curator: Tatiana Timohina, Botanic Garden of Petrozavodsk State University, Lenina av., 33, Petrozavodsk, Karelia, Russia, 185910

Адрес: Тимохиной Т. А., Ботанический сад ПетрГУ,пр. Ленина, 33, Петрозаводск, Карелия, 185910

References

The Plant List (2013). Version 1.1. Published on the Internet; http://www.theplantlist.org/ (accessed 1st January). http://www.theplantlist.org/ (дата обращения 10.12.2016).

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Key words:
in situ, ex situ, Index seminum, seed list, genetic resources

Summary: Seed list of wild and cultivated plants collected in 2016 in the Botanic Garden of Petrozavodsk State University.

Is received: 11 december 2016 year

Is passed for the press: 23 december 2016 year

References

The Plant List (2013). Version 1.1. Published on the Internet; http://www.theplantlist.org/ (accessed 1st January). http://www.theplantlist.org/ (data obratsheniya 10.12.2016).

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