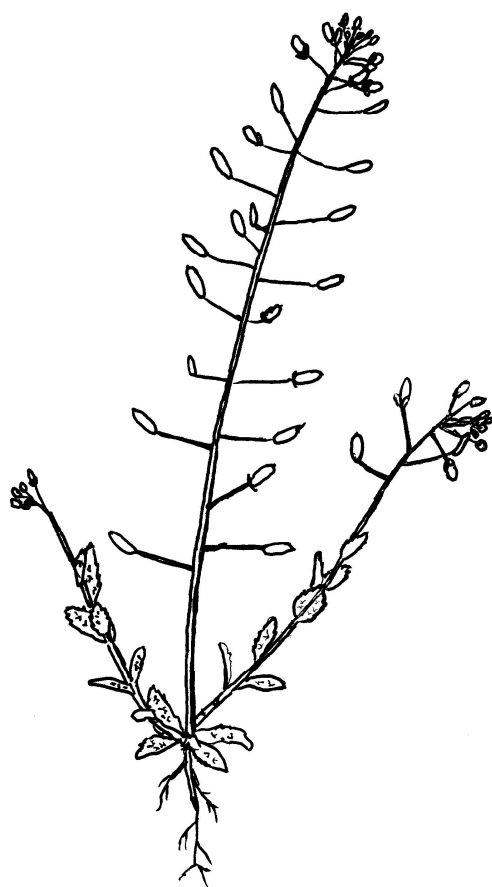


INDEX SEMINUM

Draba nemorosa L.



TALLINN 2019

TALLINNA BOTAANIKAAED

INDEX SEMINUM

anno 2018 collectorum

quae

HORTUS BOTANICUS TALLINNENSIS

pro mutua commutatione offert

Tallinn 2019

Mandata inscribenda sunt:
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11913 Tallinn
Estonie

It is by the recipients of seeds to respect and to stand to international binding settlements of protection of endangered taxa and to uphold the interests of the nations of origin.
Es wird erwartet, dass die Empfänger von Saatgut international verbindliche Regelungen zum Schutz gefährdeter Sippen und zur Wahrung von Interessen der Herkunftsländer respektieren und einhalten.

Seeds can be ordered by desiderata card or e-mail (maximum 30 samples please):

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I Semina plantarum in horto botanico cultarum

SPERMATOPHYTA

GYMNOSPERMAE

Cupressaceae

- + 1 *Cupressus arizonica* Greene (Firenze, 1987)
- + 2 *Cupressus sempervirens* L. (Jalta, 1986)
- + 3 *Juniperus oxycedrus* L.
- 4 *Juniperus squamata* Buch.-Ham. ex D.Don **cv. Meyeri** (Moscow, 1961)
- * 5 *Microbiota decussata* Kom. (*Rossia extremiorientalis*, Mt. Khualaza, 1961)
- A 6 *Microbiota decussata* Kom. (Estonia, Tallinn, 1999)
- 7 *Thuja koraiensis* Nakai (Tartu, 1982)
- 8 *Thuja plicata* Donn ex D.Don (Estonia, Kuusnõmme, 1961)
- 9 *Thujopsis dolabrata* (L.f.) Siebold & Zucc. (Estonia, Tallinn, 1964)

Pinaceae

- * 10 *Pinus koraiensis* Siebold & Zucc. (*Rossia extremiorientalis*, 1961)

Taxaceae

- 11 *Taxus baccata* L.
- * 12 *Taxus cuspidata* Siebold & Zucc. (Nayoro, 1969)

ANGIOSPERMAE

Dicotyledoneae

Acanthaceae

- + 13 *Crossandra nilotica* Oliv.
- + 14 *Ruellia graecizans* Backer

Aceraceae

- A 15 *Acer circinatum* Pursh (Seattle, 1987)
- A* 16 *Acer pseudosieboldianum* (Pax) Kom. (*Rossia extremiorientalis*,
Okeanskaya, 1961)

+ = Seeds collected in the Greenhouses / Samen aus den Gewächshäusern

* = Seeds of a cultivated plant of known wild origin / Samen von kultivierte Pflanzen bekannter Wildherkunft

A = Seeds of a cultivated plant from Audaku Experimental Station (Saaremaa Island, 58.297938°, 22.102418°)
/ Samen von kultivierte Pflanzen von wissenschaftlicher Beobachtungsstelle Audaku (Insel Ösel, 58.297938°, 22.102418°)

Actinidiaceae

- 17 ***Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq. **cv. Weiki × Purpurna Sadova**
(Estonia, Tallinn, 2010)
18 ***Actinidia kolomikta*** (Rupr. & Maxim.) Maxim.

Anacardiaceae

- 19 ***Rhus radicans*** L. (Khabarovsk, 1976)

Annonaceae

- + 20 ***Artabotrys hexapetalus*** (L.f.) Bhandari (Lund, 1999)

Apiaceae

- 21 ***Ligusticum hultenii*** Fern. (Moscow, 1982)
22 ***Meum athamanticum*** Jacq. (Moscow, 1982)

Apocynaceae

- + 23 ***Alyxia ruscifolia*** R.Br. (Düsseldorf, 1991)
24 ***Amsonia orientalis*** Decne. (Giessen, 1991)

Aquifoliaceae

- 25 ***Ilex laevigata*** (Pursh) A.Gray (Salzburg, 1987)

Araliaceae

- * 26 ***Aralia cordata*** Thunb. (*Insulae Kurilenses, Kunashiri*, 1981)
A* 27 ***Aralia elata*** (Miq.) Seem. (*Rossia extremiorientalis, Shamora*, 1983)
A* 28 ***Eleutherococcus divaricatus*** (Siebold & Zucc.) S.Y.Hu (Tokyo, 1978)
29 ***Eleutherococcus senticosus*** (Rupr. & Maxim.) Maxim. (*Insula Sachalin, Dolinsk*, 1962)
A* 30 ***Eleutherococcus sessiliflorus*** (Rupr. & Maxim.) S.Y.Hu
(*Rossia extremiorientalis, Artem*, 1961)
* 31 ***Eleutherococcus sessiliflorus*** (Rupr. & Maxim.) S.Y.Hu
(*Rossia extremiorientalis, Artem*, 1961)
32 ***Eleutherococcus sieboldianus*** (Makino.) Koidz (Kiel, 1997)
+ 33 ***Fatsia japonica*** (Thunb.) Decne. & Planch.
* 34 ***Kalopanax septemlobus*** Koidz. (*Rossia extremiorientalis, Okeanskaya*, 1961)
* 35 ***Oplopanax elatus*** (Nakai) Nakai (*Rossia extremiorientalis, Mt. Khualaza*, 1961)
* 36 ***Oplopanax horridus*** (Sm.) Miq. (Seattle, 1978)

Aristolochiaceae

- * 37 ***Asarum canadense*** L. (South Hadley, 1997)

Asclepiadaceae

- * 38 *Asclepias incarnata* L. (Montréal, 2008)

Asteraceae

- 39 *Aster alpinus* L. **cv. Albus** (Linz, 1997)
 40 *Coreopsis grandiflora* T.Hogg ex Sweet (Szeged, 1987)
 41 *Helianthus maximilianii* Schard. (Marburg, 1993)
 * 42 *Leontopodium nivale* (Ten.) Huet ex Hand.-Mazz. **subsp. alpinum** (Cass.) Greuter (Wien, 2016)
 * 43 *Silphium integrifolium* Michx. (Glencoe, 1993)

Begoniaceae

- + 44 *Begonia mexicana* H.Karst. (Giessen, 2013)
 + 45 *Begonia venosa* Skan ex Hook.f. (Lyon, 1999)

Berberidaceae

- * 46 *Berberis amurensis* Rupr. (*Rossia extremiorientalis*, Beistukhe, 1967)
 A 47 *Berberis amurensis* Rupr. **var. japonica** (Regel) Rehder (Tsukuba, 1999)
 A 48 *Berberis heterophylla* Juss. (Hørsholm, 1994)
 A 49 *Berberis koreana* Palib. (Hørsholm, 1991)
 50 *Berberis thunbergii* DC. (Estonia, Tallinn, 1959)
 51 *Berberis thunbergii* DC. **cv. Erecta** (Ottawa, 1960)
 52 *Berberis thunbergii* DC. **cv. Silver Beauty** (Moscow, 1961)
 53 *Berberis vulgaris* L. **cv. Atropurpurea**
 54 *Podophyllum hexandrum* Royle (Bergen, 1958)

Betulaceae

- 55 *Alnus crispa* (Aiton) Pursh **var. mollis** (Fernald) Fernald (Rogów, 2002)
 A* 56 *Alnus crispa* (Aiton) Pursh **var. mollis** (Fernald) Fernald (Montréal, 1957)
 * 57 *Alnus fruticosa* Rupr. (*Rossia extremiorientalis*, Zeya, 1975)
 58 *Alnus incana* (L.) Moench **subsp. rugosa** (Du Roi) Clausen (Ottawa, 1965)
 59 *Alnus japonica* (Thunb.) Steud. (Nayoro, 1973)
 * 60 *Alnus maximowiczii* Callier ex C.K.Schneid. (*Insulae Kurilenses*, Kunashiri, 1981)
 61 *Alnus sinuata* (Regel) Rydb. (Vancouver, 1977)
 62 *Alnus viridis* (Chaix) DC. (Rogów, 1973)
 63 *Betula alleghaniensis* Britton (Estonia, Järvelja, 1958)
 64 *Betula* × *aurata* Borkh.
 * 65 *Betula fruticosa* Pall. (*Rossia extremiorientalis*, Olga, 1977)
 66 *Betula humilis* Schrank
 67 *Betula papyrifera* Marshall (Estonia, Järvelja, 1958)
 68 *Betula pendula* Roth **var. oycoviensis** (Besser) Dippel (Lublin, 1974)
 69 *Betula pendula* Roth **var. oycoviensis** (Besser) Dippel (St. Petersburg, 1957)

- * 70 *Betula platyphylla* Sukaczew **var. japonica** (Miq.) Hara (*Insula Sachalin, Novoalexandrovsk*, 1961)
- 71 *Carpinus betulus* L. **cv. Incisa** (København, 1965)
- * 72 *Carpinus caroliniana* Walter (Ottawa, 1967)
- * 73 *Carpinus cordata* Blume (*Rossia extremiorientalis, Okeanskaya*, 1977)

Bixaceae

- + 74 *Bixa orellana* L. (Tartu, 2011)

Bombacaceae

- + 75 *Pachira insignis* (Sw.) Savigny (Tübingen, 1972)

Brassicaceae

- * 76 *Aubrietia gracilis* Spruner ex Boiss. (Göteborg, 2002)
- * 77 *Draba norvegica* Gunnerus (Akureyri, 2005)
- 78 *Schivereckia podolica* (Besser) Andr. (Leisnig, 2000)

Buxaceae

- + 79 *Sarcococca hookeriana* Baill. **subsp. humilis** Rehder & E.H.Wilson (Kiev, 1976)

Campanulaceae

- 80 *Campanula aucheri* A.DC. (Graz, 1982)
- * 81 *Codonopsis lanceolata* (Siebold & Zucc.) Trautv. (Vladivostok, 2006)
- 82 *Symphandra pendula* (M.Bieb.) A.DC. (Trondheim, 1987)

Caprifoliaceae

- * 83 *Diervilla lonicera* Mill. (Ottawa, 1966)
- 84 *Diervilla rivularis* Gatt. (Dushanbe, 1957)
- 85 *Kolkwitzia amabilis* Graebn.
- 86 *Lonicera alpigena* L.
- 87 *Lonicera altmannii* Regel & Schmalh. (Kiev, 1958)
- * 88 *Lonicera caerulea* L. (Chambésy, 1979)
- 89 *Lonicera caucasica* Pall.
- A* 90 *Lonicera caucasica* Pall. (Moscow, 1989)
- A* 91 *Lonicera chrysantha* Turcz. **var. crassipes** Nakai (Hørsholm, 1991)
- 92 *Lonicera demissa* Rehder
- 93 *Lonicera ferdinandi* Franch. (Berlin-Dahlem, 1979)
- 94 *Lonicera iberica* M.Bieb. (Tbilisi, 1964)
- 95 *Lonicera involucrata* (Richardson) Banks ex Spreng. (Berlin-Dahlem, 1978)
- 96 *Lonicera ledebourii* Eschsch. (Kórník, 1999)
- 97 *Lonicera maackii* (Rupr.) Maxim. (Khabarovsk, 1967)
- * 98 *Lonicera maximowiczii* (Rupr.) Maxim. (*Rossia extremiorientalis, Ternei*, 1979)
- 99 *Lonicera myrtillus* Hook.f. & Thomson (Lausanne, 1962)

- * 100 *Lonicera nigra* L. (Sarajevo, 1983)
- 101 *Lonicera periclymenum* L.
- 102 *Lonicera prolifera* (G.Kirchn.) Rehder
- * 103 *Lonicera ruprechtiana* Regel (*Rossia extremiorientalis*, Ternei, 1979)
- 104 *Lonicera tatarica* L. (Barnaul, 1977)
- 105 *Lonicera tatarica* L. cv. **Alba** (Northampton, 1963)
- 106 *Lonicera vesicaria* Kom. (Minsk, 1997)
- A 107 *Lonicera vesicaria* Kom. (Vilnius, 2002)
- 108 *Sambucus nigra* L. (Estonia, Kuressaare, 1969)
- * 109 *Sambucus williamsii* Hance (*Rossia extremiorientalis*, Talmi, 1961)
- * 110 *Symphoricarpos albus* (L.) S.F.Blake (East Lansing, 1974)
- 111 *Symphoricarpos albus* (L.) S.F.Blake var. **laevigatus** (Fernald) S.F.Blake (Estonia, Tallinn, 1966)
- 112 *Symphoricarpos occidentalis* Hook. (Ottawa, 1968)
- A 113 *Symphoricarpos occidentalis* Hook. (Ottawa, 1968)
- 114 *Weigela decora* (Nakai) Nakai (Hørsholm, 1994)
- 115 *Weigela florida* (Bunge) A.DC. (Pyongyang, 1988)
- 116 *Weigela japonica* Thunb. (Dresden, 1960)
- * 117 *Weigela middendorffiana* (Trautv. & C.A.Mey.) K.Koch (*Insula Sachalin*, Mt. Chekhov, 1961)
- 118 *Weigela praecox* (Lemoine) L.H.Bailey (Estonia, Järvelja, 1958)
- * 119 *Viburnum dentatum* L. var. **deamii** (Rehder) Fernald (Philadelphia, 1993)
- 120 *Viburnum lantana* L.
- 121 *Viburnum lantana* L. cv. **Variegatum** (Estonia, Järvelja, 1958)
- 122 *Viburnum mongolicum* (Pall.) Rehder (Girionys, 2009)
- 123 *Viburnum opulus* L. (Tallinn, 1965)
- * 124 *Viburnum trilobum* Marshall (Montréal, 1988)
- * 125 *Viburnum wrightii* Miq. (*Insulae Kurilenses*, Etorofu, 1961)
- A* 126 *Viburnum wrightii* Miq. (*Insulae Kurilenses*, Etorofu, 1961)

Caricaceae

- + 127 *Carica papaya* L.

Caryophyllaceae

- 128 *Arenaria kingii* (S. Watson) M.E. Jones (München, 1999)
- 129 *Dianthus carthusianorum* L. (Tübingen, 2015)
- 130 *Dianthus knappii* (Pant.) Asch. & Kanitz ex Borbas (Besancon, 2009)
- 131 *Gypsophila cerastioides* D. Don (Šiauliai, 2015)
- 132 *Saponaria caespitosa* DC. (Innsbruck, 1993)
- 133 *Silene frivaldszkyana* Hampe (Glasgow, 1993)

Celastraceae

- 134 *Celastrus orbiculatus* Thunb. (Estonia, Tallinn, 1960)
 * 135 *Celastrus scandens* L. (Ottawa, 1965)
 136 *Euonymus alatus* (Thunb.) Siebold (Kyoto, 1998)
 A 137 *Euonymus alatus* (Thunb.) Siebold (Kyoto, 1998)
 138 *Euonymus europaeus* L. (Estonia, Harku, 1959)
 139 *Euonymus macropterus* Rupr.
 A 140 *Euonymus oxyphyllus* Miq. (Kyoto, 1988)
 * 141 *Euonymus pauciflorus* Maxim. (*Rossia extremiorientalis*, 1975)
 * 142 *Euonymus planipes* (Koehne) Koehne (*Rossia extremiorientalis*, *Shamora*, 1961)
 143 *Tripterygium regelii* Sprague & Takeda

Cercidiphyllaceae

- 144 *Cercidiphyllum japonicum* Siebold & Zucc. **var. *magnificum*** Nakai

Cornaceae

- 145 *Cornus alba* L.
 146 *Cornus alba* L. **cv. Sibirica Variegata**
 147 *Cornus alternifolia* L.f.
 * 148 *Cornus amomum* Mill. (East Lansing, 2003)
 * 149 *Cornus sanguinea* L. (*Estonia, Lümada*, 2010)
 * 150 *Cornus sanguinea* L. **subsp. *australis*** (C.A.Mey.) Jáv. (Moscow, 1989)
 151 *Cornus sericea* L. **cv. Flaviramea** (Leipzig, 1957)

Crassulaceae

- + 152 *Kalanchoe rotundifolia* Haw. (Basel, 1994)

Cucurbitaceae

- 153 *Cucumis sativus* L. **cv. Dragon's Egg**
 154 *Cucumis sativus* L. **cv. Gele Tros**
 155 *Cucumis sativus* L. **cv. Sikkim**

Dipsacaceae

- 156 *Cephalaria litvinovii* Bobrov (Voronezh, 1988)
 157 *Knautia macedonica* Griseb. (Hermannshof/Weinheim, 2016)

Elaeagnaceae

- 158 *Elaeagnus multiflora* Thunb. (Yuzhno-Sakhalinsk, 1988)
 159 *Elaeagnus umbellata* Thunb. (Estonia, Polli, 1975)
 * 160 *Hippophae rhamnoides* L. (Wrocław, 1997)
 161 *Shepherdia canadensis* (L.) Nutt.

Ericaceae

- + 162 *Arbutus unedo* L. (Hamma, 2010)
- 163 *Enkianthus campanulatus* (Miq.) G.Nicholson (Edinburgh, 1962)
- 164 *Erica tetralix* L. (Münster, 2000)
- * 165 *Ledum groenlandicum* Oeder (Vancouver, 1962)
- * 166 *Ledum palustre* L. var. *dilatatum* Wahlenb. (*Rossia extremiorientalis*, *Sovetskaya Gavan'*, 1967)
- * 167 *Ledum palustre* L. var. *diversipilosum* Nakai (*Rossia extremiorientalis*, *Mt. Khualaza*, 1961)
- 168 *Rhododendron brachycarpum* D.Don ex G.Don (Edinburgh, 1958)
- 169 *Rhododendron camtschaticum* Pall.
- 170 *Rhododendron ferrugineum* L. (Edinburgh, 1958)
- 171 *Rhododendron hirsutum* L.
- 172 *Rhododendron insigne* Hemsl. & E.H.Wilson × *Rhododendron* sp. (Edinburgh, 1958)
- 173 *Rhododendron minus* Michx. cv. **Carolinianum Album** (Edinburgh, 1958)
- 174 *Rhododendron myrtifolium* Schott & Kotschy (Cluj, 1966)
- 175 *Rhododendron smirnowii* Trautv.
- 176 *Rhododendron vaseyi* A.Gray (Edinburgh, 1958)
- 177 *Vaccinium arctostaphylos* L. (Paris, 1966)
- 178 *Vaccinium macrocarpon* Aiton cv. **Early Black** (Estonia, Vehendi, 2009)
- * 179 *Vaccinium vitis-idaea* L. (*Estonia, Ohepalu*, 1993)

Euphorbiaceae

- + 180 *Phyllanthus grandifolius* L.

Fabaceae

- 181 *Baptisia australis* (L.) R.Br. (Salaspils, 1988)
- * 182 *Caragana arborescens* Lam. (*Siberia australis, Altai, Kyrsai*, 1986)
- A 183 *Caragana arborescens* Lam.
- 184 *Caragana aurantiaca* Koehne (Wien, 1965)
- 185 *Caragana densa* Kom. (Lublin, 2005)
- 186 *Caragana frutex* (L.) K.Koch (Kiev, 1957)
- 187 *Caragana jubata* (Pall.) Poir. (Vácrátót, 2006)
- 188 *Caragana pygmae* (L.) DC. (Salaspils, 2005)
- * 189 *Caragana spinosa* (L.) DC. (*Siberia australis, Kyzyl*, 1985)
- A 190 *Chamaecytisus purpureus* (Scop.) Link (München, 1961)
- A 191 *Chamaecytisus supinus* (L.) Link (Tartu, 1957)
- + 192 *Clianthus puniceus* (G.Don) Sol. ex Lindl.
- 193 *Colutea arborescens* L.
- A 194 *Colutea* × *media* Willd. (Bayreuth, 2006)
- 195 *Colutea* × *media* Willd. (Salaspils, 1964)
- 196 *Genista pilosa* L. (Nantes, 2008)

- 197 *Laburnum alpinum* (Mill.) Bercht. & J.Presl
 198 *Laburnum anagyroides* Medik.
 199 *Laburnum anagyroides* Medik. **cv. Quercifolium** (Yalta, 1967)
 * 200 *Maackia amurensis* Rupr. & Maxim. (*Rossia extremiorientalis*, 1961)
 A* 201 *Maackia amurensis* Rupr. & Maxim. (*Rossia extremiorientalis*, Lazo, 1977)
 202 *Robinia pseudoacacia* L. (Estonia, Harku, 1965)
 * 203 *Thermopsis rhombifolia* (Pursh) Richardson (Edmonton, 1991)
 * 204 *Trifolium rubens* L. (Samoëns, 1994)

Fagaceae

- A 205 *Castanea dentata* (Marshall) Borkh. (Tharandt, 2002)
 A 206 *Castanea sativa* Mill. **cv. Asplenifolia** (Tharandt, 2000)

Fumariaceae

- 207 *Dicentra spectabilis* (L.) Lem. (Chuncheon, 2014)

Gentianaceae

- 208 *Gentiana lutea* L. (Bergen, 1963)

Geraniaceae

- 209 *Geranium macrorrhizum* L. **f. balcanum** Sünderm. (Estonia, Öisu, 1947)
 210 *Geranium renardii* Trautv. (Warszawa, 2004)

Gesneriaceae

- + 211 *Rhytidophyllum tomentosum* (L.) Mart. (Halle, 2003)

Grossulariaceae

- 212 *Ribes alpinum* L. (Estonia, 1965)
 213 *Ribes americanum* Mill.
 * 214 *Ribes diacanthum* Pall. (Moscow, 1989)
 215 *Ribes divaricatum* Douglas (Vilnius, 1991)
 * 216 *Ribes glandulosum* Grauer ex Weber (Montréal, 1958)
 A 217 *Ribes komarovii* Pojark. (Bayreuth, 1997)
 218 *Ribes komarovii* Pojark. (Bayreuth, 1997)
 219 *Ribes latifolium* Jancz. (*Rossia extremiorientalis*, Yuzhno-Sakhalinsk, 2004)
 220 *Ribes* × *spachii* Jancz. (Berlin-Dahlem, 1979)
 221 *Ribes ussuriense* Jancz. (Pyongyang, 1980)

Hamamelidaceae

- 222 *Hamamelis japonica* Siebold & Zucc.
 223 *Hamamelis japonica* Siebold & Zucc. **cv. Zuccariniana** (Berlin-Dahlem, 1959)
 224 *Hamamelis mollis* Oliv. (Berlin-Dahlem, 1977)

Hydrangeaceae

- * 225 *Deutzia parviflora* Bunge **var. amurensis** Regel (*Rossia extremiorientalis*, Okeanskaya, 1961)
- 226 *Deutzia scabra* Thunb. (Osaka, 1970)
- 227 *Deutzia scabra* Thunb. **cv. Plena** (Estonia, Tallinn, 1960)
- 228 *Hydrangea arborescens* L. **subsp. discolor** (Ser.) E.M.McClint. (Amsterdam, 1961)
- 229 *Hydrangea arborescens* L. **subsp. radiata** (Walter) E.M.McClint (Kalmthout, 1999)
- 230 *Hydrangea heteromalla* D.Don
- * 231 *Hydrangea paniculata* Siebold (*Insulae Kurilenses, Kunashiri*, 1981)
- 232 *Hydrangea paniculata* Siebold **cv. Praecox** (Estonia, Tallinn, 1970)
- 233 *Philadelphus coronarius* L. **cv. Aureus**
- 234 *Philadelphus pubescens* Loisel. (Tallinn, Kloostrimetsa, 2001)
- 235 *Philadelphus salicifolius* K.Koch (Salaspils, 2005)

Juglandaceae

- A 236 *Juglans nigra* L. (Kiev, 1958)
- 237 *Pterocarya stenoptera* C.DC. (Beijing, 1957)

Lamiaceae

- * 238 *Dracocephalum ruyschiana* L. (*Estonia, Jalase*, 1995)
- * 239 *Horminum pyrenaicum* L. (Bormio So, 2014)
- * 240 *Lavandula angustifolia* Mill. (Grenoble, 2002)
- 241 *Nepeta sibirica* L. (Graz, 1984)
- * 242 *Salvia pratensis* L. (Jena, 1989)
- 243 *Salvia przewalskii* Maxim. (Trento, 2002)
- 244 *Salvia scabiosifolia* Lam. (Tartu, 2002)
- * 245 *Salvia verticillata* L. (Wien, 2008)

Magnoliaceae

- 246 *Magnolia kobus* DC.
- A 247 *Magnolia kobus* DC. (Mustila, 2006)
- 248 *Magnolia* × *loebnerii* Kache (Estonia, Sagadi, 1991)
- A 249 *Magnolia sieboldii* K.Koch **cv. Pride of Norway** (Estonia, Viimsi, 2008)

Malvaceae

- 250 *Kitaibelia vitifolia* Willd. (Jena, 2017) IPEN nr: MK-0-JENA-7572646
- 251 *Malva moschata* L. **cv. Alba** (Bordeaux, 1989)
- + 252 *Malvaviscus arboreus* Cav.

Melastomaceae

- + 253 *Medinilla speciosa* Blume (Tartu, 2016)

Moraceae

- + 254 *Dorstenia contrajerva* L. (Strasbourg, 1961)
 + 255 *Dorstenia elata* Gardner (Düsseldorf, 1994)
 256 *Morus australis* Poir. (= *Morus bombycis* Koidz.) (Cluj, 1965)
 A 257 *Morus australis* Poir. (= *Morus bombycis* Koidz.) (Cluj, 1965)
 * 258 *Morus rubra* L. (Lisle, 1991)

Myrsinaceae

- + 259 *Ardisia japonica* (Thunb.) Blume (Batumi, 1984)

Myrtaceae

- +* 260 *Eugenia uniflora* L. (*Insula Mauritiana*, 2007)
 + 261 *Melaleuca hypericifolia* (Salisb.) Sm. (Amsterdam, 2002)
 + 262 *Myrtus communis* L. (Göteborg, 1998)
 + 263 *Psidium littorale* Raddi
 + 264 *Syzygium malaccense* (L.) Merr. & L.M.Perry

Oleaceae

- 265 *Forsythia giraldiana* Lingelsh. (Salaspils, 1996)
 266 *Forsythia ovata* Nakai (St. Petersburg, 1958)
 * 267 *Fraxinus latifolia* Benth. (Vancouver, 1982)
 268 *Fraxinus pennsylvanica* Marshall
 269 *Fraxinus pennsylvanica* Marshall **var. subintegerrima** (Vahl) Fernald (Estonia, Järvselja, 1958)
 270 *Ligustrum ibota* Siebold & Zucc. (København, 1991)
 271 *Ligustrum obtusifolium* Siebold & Zucc. (Poznań, 1999)
 * 272 *Ligustrum tschonoskii* Decne. (*Insula Sachalin, Mt. Chekhov*, 1961)
 A 273 *Ligustrum tschonoskii* Decne. **var. glabrescens** Koidz. (Hørsholm, 1991)
 * 274 *Ligustrum vulgare* L. (Salzburg, 1983)
 275 *Ligustrum vulgare* L. **cv. Aureovariegatum** (Salaspils, 1964)
 276 *Syringa pubescens* Turcz. **subsp. patula** (Palib) M.C.Chang & X.L.Chen (Rochester, 1973)
 277 *Syringa tomentella* Bureau & Franch (Edinburgh, 1958)
 278 *Syringa villosa* Vahl. (Beijing, 1977)
 279 *Syringa wolfii* C.K.Schneid. (Nizhni Novgorod, 1957)

Paeoniaceae

- 280 *Paeonia anomala* L. var. *intermedia* (C.A.Mey. ex Ledeb.) B.Fedtsch. & O.Fedtsch. (Bayreuth, 2000)
 * 281 *Paeonia lactiflora* Pall. (Estonia, Tamsa, 1998)
 282 *Paeonia mlokosewitschii* Lomakin (Basel, 1980)
 283 *Paeonia officinalis* L. subsp. *villosa* (Huth) Cullen & Heywood (Lama dei Peligni, 2001)
 284 *Paeonia officinalis* L. subsp. *villosa* (Huth) Cullen & Heywood (Wien, 1968)

Passifloraceae

- + 285 *Passiflora coriacea* Juss. (Leiden, 2004)

Phytolaccaceae

- + 286 *Rivina humilis* L. (Tartu, 1959)

Piperaceae

- + 287 *Piper auritum* Kunth (Villers-lès-Nancy, 1991)
 + 288 *Piper longum* L. (Tübingen, 2005)
 + 289 *Piper unguiculatum* Ruiz & Pav.

Pittosporaceae

- + 290 *Pittosporum crassifolium* Banks & Sol. ex A.Cunn.

Polygonaceae

- + 291 *Muehlenbeckia complexa* (A.Cunn.) Meisn.

Portulacaceae

- 292 *Lewisia pygmaea* (A.Gray) B.L.Rob. (Dresden, 1999)

Primulaceae

- * 293 *Primula marginata* Curtis (Genova, 1998)

Proteaceae

- + 294 *Hakea trineura* F.Muell. (Canberra, 2003)

Ranunculaceae

- * 295 *Aquilegia atrata* W.D.J. Koch (Pavia, 2009)
 * 296 *Aquilegia brevistyla* Hook. (NARGS, 2011)
 * 297 *Aquilegia canadensis* L. (Montréal, 2012)
 298 *Clematis vitalba* L. (København, 1958)
 * 299 *Delphinium retropilosum* (Huth) Sambuk (AGS, 2016)
 300 *Delphinium tatsienense* Franch. (Potsdam, 1990)
 301 *Helleborus foetidus* L. (Potsdam, 1990)

- * 302 *Hepatica acutiloba* DC. (Niagara Falls, 2012)
- * 303 *Hepatica nobilis* Schreb. **f. rosea** (R.Hoffm.) Steyerl. (*Estonia, Insula Saaremaa*, 2003)
- 304 *Pulsatilla albana* (Steven) Bercht. & J.Presl (Wien, 1998)
- 305 *Pulsatilla vulgaris* Mill. **cv. Rubra** (Liberec, 1972)
- 306 *Ranunculus gramineus* L. (Grüningen, 1961)
- 307 *Semiaquilegia ecalcarata* (Maxim.) Sprague & Hutch. (St. Gallen, 1997)
- * 308 *Thalictrum dasycarpum* Fisch. & Avé-Lall. (East Lansing, 1997)
- 309 *Thalictrum rochebrunianum* Franch. et Sav. **var. grandisepalum** (H.Lev.) Nakai (Göteborg, 2013)

Rhamnaceae

- * 310 *Frangula alnus* Mill. (*Tallinn*, 1971)
- * 311 *Rhamnus alpina* L. (Champex, 1992)
- 312 *Rhamnus davurica* Pall. (Tartu, 1999)
- 313 *Rhamnus davurica* Pall. **var. nipponica** Makino (Novosibirsk, 2003)
- 314 *Rhamnus diamantiaca* Nakai (Vladivostok, 1973)
- 315 *Rhamnus japonica* Maxim. (Trondheim, 1998)
- 316 *Rhamnus parvifolia* Bunge (Barnaul, 1998)
- 317 *Rhamnus saxatilis* Jacq. (Ljubljana, 2004)

Rosaceae

- A 318 *Amelanchier laevis* Wiegand (Washington, 1975)
- 319 *Amelanchier laevis* Wiegand (Washington, 1975)
- 320 *Amelanchier lamarckii* F.G.Schroed.
- 321 *Amelanchier obovalis* (Michx.) Ashe (Estonia, Kaerepere, 1992)
- 322 *Amelanchier ovalis* Medik. (Ljubljana, 1959)
- 323 *Amelanchier spicata* (Lam.) K.Koch (Estonia, Reediku, 1965)
- 324 *Aronia arbutifolia* (L.) Pers. **f. leiocalyx** Rehder (Essen, 1957)
- 325 *Aronia melanocarpa* (Michx.) Elliot (Wisley, 1996)
- 326 *Cerasus avium* (L.) Moench (= *Prunus avium* L.)
- 327 *Cerasus maximowiczii* (Rupr.) Kom. (= *Prunus maximowiczii* Rupr.) (Vladivostok, 1965)
- 328 *Cerasus pumila* L. **var. depressa** (Pursh.) Cinovskis [= *Prunus pumila* L. var. *depressa* (Pursh) Bean] (Hørsholm, 1991)
- 329 *Cerasus sachalinensis* (F.Schmidt) Kom. (= *Prunus sargentii* Rehder) (Japan, Hokkaido, 1998)
- 330 *Chaenomeles japonica* (Thunb.) Lindl. ex Spach
- 331 *Cotoneaster dammeri* C.K.Schneid. **cv. Major**
- A 332 *Cotoneaster dielsianus* E.Pritz. (Kaunas, 1961)
- A 333 *Cotoneaster integerrimus* Medik. (Minsk, 1957)
- 334 *Cotoneaster nebrodensis* (Guss.) K.Koch (Paris, 1957)
- A 335 *Cotoneaster praecox* (Bois & P.Berthault) M.Vilm. ex Meun. (Stockholm, 1957)
- 336 × *Crataegosorbus miczurinii* Pojark. (Estonia, Malda, 1984)
- A 337 *Crataegus arnoldiana* Sarg. (Salaspils, 1996)
- 338 *Crataegus calpodendron* (Ehrh.) Medik. (Ottawa, 1962)
- A* 339 *Crataegus chlorosarca* Maxim. (*Insula Sachalin, Dolinsk*, 1961)

- 340 *Crataegus chrysoarpa* Ashe (Tartu, 1958)
 341 *Crataegus chrysoarpa* Ashe **var. phoenicea** E.J.Palmer (Helsinki, 1960)
 342 *Crataegus douglasii* Lindl. (Estonia, Järvselja, 1958)
 343 *Crataegus dsungarica* Zabel ex Lange
 344 *Crataegus flabellata* (Bosc) K.Koch (Estonia, Tihemetsa, 1959)
 * 345 *Crataegus laevigata* (Poir.) DC. (Strasbourg, 1990)
 * 346 *Crataegus monogyna* Jacq. (Wien, 1975)
 * 347 *Crataegus rhipidophylla* Gand. (Salaspils, 1979)
 348 *Crataegus submollis* Sarg. (Samara, 1957)
 * 349 *Crataegus turkestanica* Pojark. (*Pamir-Alai occidentalis*, *Iskander-Kul*, 1962)
 A 350 *Cydonia oblonga* Mill. (Ashgabat, 1963)
 351 *Dryas octopetala* L. (Tartu, 1950)
 A 352 *Holodiscus discolor* (Pursh) Maxim. (Göttingen, 1998)
 353 *Holodiscus discolor* (Pursh) Maxim.
 A 354 *Malus fusca* (Raf.) C.K.Schneid. (Helsinki, 1996)
 A* 355 *Malus sieversii* (Ledeb.) M.Roem. (Tashkent, 1989)
 * 356 *Malus sylvestris* (L.) Mill. (Salaspils, 1980)
 357 *Padus maackii* (Rupr.) Kom. (= *Prunus maackii* Rupr.) (Tartu, 1958)
 358 *Padus serotina* (Ehrh.) Borkh. (= *Prunus serotina* Ehrh., nom. cons.) (Estonia, Järvselja, 1958)
 * 359 *Padus ssiori* (F.Schmidt) C.K.Schneid. (= *Prunus ssiori* F.Schmidt) (*Insula Sachalin*, *Mt. Chekhov*, 1961)
 360 *Padus virginiana* (L.) Mill. [= *Prunus virginiana* L.] cv. Shubert (Salaspils, 1990)
 361 *Physocarpus amurensis* (Maxim.) Maxim. (København, 1958)
 362 *Physocarpus malvaceus* (Greene) Kuntze (Berlin-Dahlem, 1979)
 363 *Physocarpus opulifolius* (L.) Maxim. **cv. Dart's Gold** (Estonia, Kose-Uuemõisa, 1999)
 364 *Potentilla alchemilloides* Lapeyr. (Poznań, 1991)
 * 365 *Potentilla fruticosa* L. [= *Dasiphora fruticosa* (L.) Rydb.] (*Estonia*, *Laulasmaa*, 1972)
 366 *Prinsepia uniflora* Batalin (Lyon, 2000)
 A 367 *Prunus cerasifera* Ehrh. (Budapest, 1999)
 368 *Prunus spinosa* L. **subsp. dasyphylla** (Schur) Domin (Estonia, Paldiski, 2005)
 369 *Pyracantha coccinea* M.Roem. (Salaspils, 2007)
 370 *Pyrus asiae-mediae* (Popov) Maleev (Tartu, 1966)
 371 *Pyrus communis* L.
 372 *Pyrus ussuriensis* Maxim. (Juzhno-Sachalinsk, 1997)
 373 *Rosa acicularis* Lindl. **var. nipponensis** (Crép.) Koehne (Kyoto, 1982)
 * 374 *Rosa amblyotis* C.A.Mey. (*Insula Sachalin*, *Yuzhno-Sachalinsk*, 1981)
 375 *Rosa arvensis* Huds.
 * 376 *Rosa beggeriana* Schrenk (*Tianschan occidentalis*, *Alma-Arasan*, 1986)
 * 377 *Rosa blanda* Aiton (Philadelphia, 1983)
 378 *Rosa caesia* Sm. (Stockholm, 1961)
 379 *Rosa canina* L. **cv. Inermis** (Iași, 1984)
 380 *Rosa carolina* L. **var. grandiflora** (Baker) Rehder (Glencoe, 1988)
 * 381 *Rosa corymbifera* Borkh. (*Tianschan occidentalis*, *Chimgan*, 1981)
 382 *Rosa davurica* Pall. (Vladivostok, 1980)
 383 *Rosa elegantula* Rolfe (Leiden, 1957)

- 384 *Rosa elegantula* Rolfe **var. persetosa** Staph. (Rouen, 2004)
- * 385 *Rosa glauca* Pourr. (Salzburg, 2002)
- 386 *Rosa helenae* Rehder & E.H.Wilson (Ashgabat, 1957)
- 387 *Rosa* × *highdownensis* H.G.K.Hillier (Reading, 1971)
- 388 *Rosa jundzillii* Besser (Tübingen, 1985)
- 389 *Rosa koreana* Kom. (Umea, 2004)
- * 390 *Rosa laxa* Retz. (Moscow, 1982)
- 391 *Rosa lucida* Ehrh. (Strasbourg, 1996)
- * 392 *Rosa maximowicziana* Regel (*Rossia extremiorientalis*, *Shamora*, 1980)
- 393 *Rosa moyesii* Hemsl. & E.H.Wilson
- 394 *Rosa multiflora* Thunb. ex Murray (Koshigaya, 1983)
- 395 *Rosa nitida* Willd. (Helsinki, 1992)
- 396 *Rosa nitidula* Besser
- 397 *Rosa palustris* Marshall (Philadelphia, 1983)
- 398 *Rosa pendulina* L. (Tübingen, 1981)
- 399 *Rosa roxburghii* Tratt. **f. normalis** Rehder & E.H.Wilson (Koshigaya, 1987)
- 400 *Rosa rubiginosa* L.
- 401 *Rosa rugosa* Thunb. **cv. Alba** (Nijmegen, 1988)
- 402 *Rosa setipoda* Hemsl. & E.H.Wilson (Helsinki, 1960)
- * 403 *Rosa spinosissima* L. (*Sibiria australis*, *Aktash*, 1986)
- 404 *Rosa stylosa* Desv. (Düsseldorf, 1996)
- 405 *Rosa turcica* Rouy (Amsterdam, 1958)
- * 406 *Rosa vosagiaca* Desp. (Hamburg, 1986)
- 407 *Rubus cockburnianus* Hemsl. (Bayreuth, 2010)
- 408 *Rubus crataegifolius* Bunge (Estonia, Rae, 1978)
- 409 *Rubus idaeus* L. **f. chlorocarpus** Krause (Turku, 2000)
- 410 *Rubus laciniatus* Willd. (Amsterdam, 1958)
- 411 ×*Sorbaronia mitschurinii* (A.K.Skvortsov & Maitul.) Sennikov [= *Aronia* × *prunifolia* (C.K.Schneid.) Graebn. **cv. Floribunda**] (Kiel, 1996)
- A* 412 *Sorbus chamaemespilus* (L.) Crantz (Salzburg, 1987)

Rubiaceae

- + 413 *Psychotria punctata* Vatke (Düsseldorf, 2001)

Rutaceae

- 414 *Phellodendron amurense* Rupr. (Estonia, Luua, 1957)
- 415 *Ptelea trifoliata* L.

Saxifragaceae

- 416 *Saxifraga corymbosa* Boiss. (Marburg, 1997)
- 417 *Saxifraga marginata* Sternb. **var. rocheliana** (Sternb.) Engl. & Irmsch. (Estonia, Õisu, 1947)
- * 418 *Saxifraga scardica* Griseb. (Halle, 2009)
- * 419 *Saxifraga squarrosa* Sieber (Wien, 2002)

Schisandraceae

- * 420 *Schisandra chinensis* (Turcz.) Baill. (*Rossia extremiorientalis*, Mt. Khualaza, 1961)

Scrophulariaceae

- 421 *Penstemon ovatus* Douglas (Frankfurt, Palmengarten, 2016)
IPEN nr: US-0-FRP-25330
- + 422 *Tetranema roseum* (M.Martens & Galeotti) Standl. & Steyerl.

Solanaceae

- * 423 *Physochlaina orientalis* (M.Bieb.) G.Don (Pyatigorsk, 2004)

Tiliaceae

- A* 424 *Tilia amurensis* Rupr. (*Rossia extremiorientalis*, Okeanskaya, 1961)
- 425 *Tilia platyphyllos* Scop. **subsp. cordifolia** (Besser) C.K.Schneid.
(Estonia, Harku, 1963)
- * 426 *Tilia tomentosa* Moench. (*Moldavia, prope Chişinău*, 1981)

Turneraceae

- + 427 *Turnera ulmifolia* L.

Verbenaceae

- + 428 *Clerodendrum speciosissimum* Van Geert ex Morren (Dresden, 1997)
- +* 429 *Stachytarpheta jamaicensis* (L.) Vahl (naturalized, *Insula Mauritiana*, 2003)

Violaceae

- * 430 *Viola elatior* Fr. (*Estonia, Ridala*, 1998)

Monocotyledoneae**Amaryllidaceae**

- + 431 *Cyrtanthus elatus* (Jacq.) Traub
- 432 *Galanthus platyphyllus* Traub & Moldenke (Lviv, 1978)
- * 433 *Galanthus plicatus* M.Bieb. (*Tauria, Mt. Ai-Petri*, 1965)
- + 434 *Habranthus robustus* Herb.
- + 435 *Haemanthus albiflos* Jacq.

Anthericaceae

- * 436 *Anthericum ramosum* L. (*Insula Gothlandia*, 1999)
- + 437 *Arthropodium cirrhatum* (G.Forst.) R.Br.

Araceae

- + 438 *Anthurium bakeri* Hook.f. (Montréal, 1961)
- + 439 *Anthurium scandens* (Aubl.) Engl. **var. ovalifolium** Engl.

Arecaceae

- + 440 *Chamaerops humilis* L. (Barcelona, 1979)
- + 441 *Serenoa repens* (W.Bartram) Small (Bogor, 1997)

Asphodelaceae

- * 442 *Asphodelus albus* Mill. (Ljubljana, 2003)
- * 443 *Paradisea liliastrum* (L.) Bertol. (Pavia, 2002)

Bromeliaceae

- + 444 *Puya mirabilis* (Mez) L.B.Sm. (Gent, 1976)

Colchicaceae

- + 445 *Gloriosa modesta* (Hook.) J.C. Manning & Vinn. (St. Gallen, 2010)

Commelinaceae

- + 446 *Palisota barteri* Hook.f.
- + 447 *Tradescantia sillamontana* Matuda (Salaspils, 1980)
- + 448 *Tradescantia spathacea* Sw.

Convallariaceae

- 449 *Smilacina racemosa* (L.) Desf. (Wisley, 2007)

Costaceae

- + 450 *Costus speciosus* (J.König) Sm. (Köln, 1971)

Cyperaceae

- + 451 *Kyllinga monocephala* Rottb. (Stockholm, 1972)

Dracaenaceae

- + 452 *Cordyline fruticosa* (L.) A.Chev.
- + 453 *Cordyline stricta* (Sims) Endl. (Melbourne, 1978)

Hemerocallidaceae

- * 454 *Hemerocallis minor* Mill. (*Sibiria australis*, Khapcheranga, 1985)

Iridaceae

- * 455 *Gladiolus imbricatus* L. (Estonia, Tamsa, 1998)
- * 456 *Iris ensata* Thunb. (Vladivostok, 2015)
- + 457 *Iris foetidissima* L. (Samoëns, 2010)
- * 458 *Iris hookeri* Penny ex G.Don (AGS, 2011)
- * 459 *Iris spuria* L. **subsp. musulmanica** (Fomin) Takht. (Tehran, 2010)
- + 460 *Libertia ixioides* (G.Forst) Spreng. (Christchurch, 2013)

Liliaceae

- 461 *Erythronium grandiflorum* Pursh (Oslo, 1993)
 462 *Erythronium sibiricum* (Fisch. & C.A.Mey.) Krylov (St. Petersburg, 1983)
 463 *Erythronium sibiricum* (Fisch. & C.A.Mey.) Krylov **subsp. altaicum** Rukšāns
 (Estonia, Tamsa, 2004)

Melanthiaceae

- 464 *Veratrum nigrum* L. (Trieste, 1978)

Philesiaceae

- +* 465 *Eustrephus latifolius* R.Br. (*Australiana*, 2003)

Phormiaceae

- + 466 *Dianella caerulea* Sims (St. Petersburg, 1977)

Poaceae

- 467 *Echinochloa frumentacea* Link (St. Gallen, 2018)
 468 *Sorghum saccharatum* (L.) Moench (Innsbruck, 2016)

Trilliaceae

- * 470 *Trillium cernuum* L. (South Hadley, 1997)
 471 *Trillium chloropetalum* (Torr.) Howell (Wisley, 2000)
 472 *Trillium chloropetalum* (Torr.) Howell **var. giganteum** (Hook. & Arn.) Munz
 (St. Gallen, 1998)
 * 473 *Trillium erectum* L. (South Hadley, 1997)
 474 *Trillium flexipes* Raf. (Liberec, 2002)

Seminum collectores: Anu Birnbaum, Helle Dikker, Anne Jaakson, Sille Janson, Anu Kaur, Krista Kirotar, Tiina Marjapuu, Jaan Mettik, Ly Mik, Marit Mäesaar, Lilian Nolling, Mare Raidma, Ain Vammus, Ave Visnapuu, Marju Zirk

II *Semina plantarum spontanearum in diversis regionibus Estoniae collecta*

SPERMATOPHYTA

ANGIOSPERMAE

Dicotyledoneae

Aceraceae

- 475 *Acer platanoides* L. – roadside, Kuusnõmme, Saaremaa Island, W Estonia
58.326840, 21.966490 19.09.2018 OA, TR

Apiaceae

- 476 *Aegopodium podagraria* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia
59.471045, 24.883877 08.08.2018 JA
- 477 *Anthriscus sylvestris* (L.) Hoffm. – arboretum, Kloostrimetsa, Tallinn, N Estonia
59.468454, 24.883409 10.07.2018 MR
- 478 *Daucus carota* L. – dry alvar grassland (*Trifolio montani–Filipenduletum vulgaris*),
Kuusnõmme, Saaremaa Island, W Estonia 58.335940, 21.969488
19.09.2018 OA, MZ
- 479 *Pastinaca sativa* L. **subsp. sylvestris** (Mill.) Rouy & E.G.Camus – roadside,
Pelgulinn, Tallinn, N Estonia 59.446857, 24.712591 02.09.2018 MR

Asteraceae

- 480 *Arctium lappa* L. – dry alvar grassland (*Trifolio montani–Filipenduletum vulgaris*),
Kuusnõmme, Saaremaa Island, W Estonia 58.335990, 21.969611
19.09.2018 OA, MR, AV
- 481 *Centaurea jacea* L. – dry boreal grassland (*Deschampsietum flexuosae*),
Kloostrimetsa, Tallinn, N Estonia 59.471401, 24.876652 31.10.2018 MR
- 482 *Cirsium arvense* (L.) Scop. **var. mite** Wimm. & Grab. – wasteland, Kalaranna,
Tallinn, N Estonia 59.447394, 24.746992 22.07.2018 MR
- 483 *Eupatorium cannabinum* L. – fresh alvar pine (*Pinus sylvestris*) forest (*Seslerio–
Pinetum*), Kuusnõmme, Saaremaa Island, W Estonia 58.337753, 21.967234
19.09.2018 MR, MZ
- 484 *Lapsana communis* L. – dry boreal *Vaccinium vitis-idaea* oak–pine (*Quercus
robur–Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Quercu–Pinetum*),
Kloostrimetsa, Tallinn, N Estonia 59.469397, 24.880902 30.07.2018 MR
- 485 *Leontodon autumnalis* L. – roadside, Kloostrimetsa, Tallinn, N Estonia
59.470705, 24.880210 06.08.2018 MR

- 486 **Matricaria perforata** Mérat [= *Tripleurospermum perforatum* (Mérat) M.Laínz; *Tripleurospermum inodorum* (L.) Sch.Bip.] – wasteland, Loodepark, Maardu, Harju County, N Estonia 59.481338, 25.008272 13.09.2018 SJ
- 487 **Matricaria perforata** Mérat [= *Tripleurospermum perforatum* (Mérat) M.Laínz; *Tripleurospermum inodorum* (L.) Sch.Bip.] – wasteland, Kloostrimetsa, Tallinn, N Estonia 59.468299, 24.888234 08.08.2018 MR
- 488 **Senecio viscosus** L. – wasteland, Liivamäe, Harju County, N Estonia 59.446728, 24.943629 11.09.2018 MR
- 489 **Tanacetum vulgare** L. – wasteland, Kalaranna, Tallinn, N Estonia 59.447394, 24.746992 17.08.2018 MR
- 490 **Tragopogon pratensis** L. – dry boreal grassland (*Festuco rubrae-Agrostietum capillaris*), Kloostrimetsa, Tallinn, N Estonia 59.469807, 24.883529 16.07.2018 MR
- 491 **Tussilago farfara** L. – wasteland, Liivamäe, Harju County, N Estonia 59.446191, 24.937122 10.05.2018 OA, TR

Brassicaceae

- 492 **Alliaria petiolata** (M.Bieb.) Cavara & Grande – roadside, Kloostrimetsa, Tallinn, N Estonia 59.471240, 24.877214 31.07.2018 MR
- 493 **Barbarea vulgaris** R.Br. **subsp. arcuata** (Opiz ex J.Presl & C.Presl) M.Loehr – roadside, Kalamaja, Tallinn, N Estonia 59.450841, 24.722642 15.07.2018 MR
- 494 **Capsella bursa-pastoris** (L.) Medik. – roadside, Mustjõe, Tallinn, N Estonia 59.432219, 24.677689 22.07.2018 MR
- 495 **Draba nemorosa** L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59.466803, 24.876656 12.06.2018 MR
- 496 **Erophila verna** (L.) DC. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59.469124, 24.883035 24.05.2018 MR
- 497 **Erysimum strictum** P.Gaertn., B.Mey. & Scherb. – wasteland, Mustjõe, Tallinn, N Estonia 59.433486, 24.680866 02.07.2018 OA

Caryophyllaceae

- 498 **Honkenya peploides** (L.) Ehrh. – white dune (*Honckenyo-Leymetum*), Ruhnu, Ruhnu Island, SW Estonia 57.798526, 23.273493 06.09.2018 AK, JA, LM
- 499 **Lychnis viscaria** L. [= *Silene viscaria* (L.) Jess.] – dry boreal grassland (*Festuco rubrae-Agrostietum capillaris*), Kloostrimetsa, Tallinn, N Estonia 59.471951, 24.882415 06.08.2018 SJ
- 500 **Silene dioica** (L.) Clairv. [= *Melandrium dioicum* (L.) Coss. & Germ.] – dry boreal *Vaccinium vitis-idaea* oak–pine (*Quercus robur-Pinus sylvestris*) forest (*Vaccinio vitis-idaeo-Quercus-Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59.470462, 24.879772 08.08.2018 MR
- 501 **Stellaria graminea** L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59.469850, 24.880027 30.07.2018 MR

Clusiaceae

- 502 *Hypericum perforatum* L. – dry boreal grassland (*Deschampsietum flexuosae*), Kloostrimetsa, Tallinn, N Estonia 59.470563, 24.880244 28.08.2018 MR
- 503 *Hypericum perforatum* L. – wood cutting area, Roots, Rapla County, NW Estonia 59.157575, 24.747440 10.12.2018 UL

Cornaceae

- 504 *Cornus sanguinea* L. – roadside, Kuusnõmme, Saaremaa Island, W Estonia 58.327230, 21.996070 19.09.2018 OA, AK, MR, TR

Cucurbitaceae

- 505 *Bryonia alba* L. – naturalized, roadside, on *Syringa*, Karjamaa, Tallinn, N Estonia 59.449302, 24.712668 22.07.2018 MR

Cuscutaceae

- 506 *Cuscuta europaea* L. – on *Paeonia*, Kloostrimetsa, Tallinn, N Estonia 59.468977, 24.879774 03.08.2018 OA, MR

Ericaceae

- 507 *Vaccinium vitis-idaea* L. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Kaberneeme, Harju County, N Estonia 59.506008, 25.279677 16.09.2018 SJ

Fabaceae

- 508 *Galega orientalis* Lam. – naturalized, wood cutting area, Roots, Rapla County, NW Estonia 59.157571, 24.747437 03.12.2018 UL
- 509 *Lathyrus maritimus* (L.) Bigelow – white dune (*Honckenyo–Leymetum*), Kaberneeme, Harju County, N Estonia 59.507871, 25.280104 16.09.2018 SJ
- 510 *Lotus ambiguus* Besser ex Spreng. – roadside, Kalaranna, Tallinn, N Estonia 59.450472, 24.735419 17.08.2018 MR
- 511 *Medicago lupulina* L. – wasteland, Kloostrimetsa, Tallinn, N Estonia 59.468299, 24.888234 08.08.2018 OA, JA, MR
- 512 *Vicia sepium* L. – wasteland, Kalaranna, Tallinn, N Estonia 59.447394, 24.746962 17.08.2018 MR

Fumariaceae

- 513 *Corydalis solida* (L.) Clairv. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59.466884, 24.880647 17.05.2018 MR

Lamiaceae

- 514 *Prunella vulgaris* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59.469544, 24.883670 14.08.2018 MR

Malvaceae

- 515 *Malva moschata* L. – naturalized, arboretum, Kloostrimetsa, Tallinn, N Estonia
59.471072, 24.884085 06.08.2018 MR

Onagraceae

- 516 *Oenothera biennis* L. – naturalized, edge of the footpath, Kloostrimetsa, Tallinn,
N Estonia 59.470574, 24.878585 29.08.2018 MR

Oxalidaceae

- 517 *Oxalis acetosella* L. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*)
forest (*Vaccinio vitis-idaeo–Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59.470872,
24.876515 25.06.2018 MR

Papaveraceae

- 518 *Chelidonium majus* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59.471464,
24.880153 17.07.2018 MR
- 519 *Papaver monanthum* Trautv. – naturalized, arboretum, Kloostrimetsa, Tallinn,
N Estonia 59.465325, 24.886537 17.07.2018 MR

Plantaginaceae

- 520 *Plantago maritima* L. – saline coastal grassland (*Eleocharetum uniglumis*),
Kuusnõmme, Saaremaa Island, W Estonia 58.352193, 21.933598
19.09.2018 OA, AK, MR, MZ

Polygonaceae

- 521 *Rumex crispus* L. – roadside, Aandu, Rapla County, NW Estonia
59.164365, 24.748455 03.12.2018 UL
- 522 *Rumex longifolius* DC. – roadside, Kalaranna, Tallinn, N Estonia
59.449591, 24.742370 15.07.2018 MR
- 523 *Rumex longifolius* DC. – fresh boreo-nemoral grassland (*Carici pallescentis–*
Scorzoneretum), Roots, Rapla County, NW Estonia 59.159116, 24.749391
03.12.2018 UL
- 524 *Rumex obtusifolius* L. **subsp. silvestris** (Lam.) Čelak. – arboretum,
Kloostrimetsa, Tallinn, N Estonia 59.470549, 24.883479 08.08.2018 OA

Primulaceae

- 525 *Primula veris* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia
59.467033, 24.883215 07.08.2018 MS

Ranunculaceae

- 526 *Anemone nemorosa* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia
59.470552, 24.882673 10.07.2018 MR

- 527 ***Aquilegia vulgaris*** L. – dry alvar grassland (*Trifolio montani–Filipenduletum vulgaris*), Aandu, Rapla County, NW Estonia 59.158516, 24.750001
11.12.2018 UL
- 528 ***Pulsatilla pratensis*** (L.) Mill. – dry boreal grassland (*Deschampsietum flexuosae*), Kloostrimetsa, Tallinn, N Estonia 59.470367, 24.880571 28.06.2018 MR

Rosaceae

- 529 ***Agrimonia eupatoria*** L. – fresh alvar *Calamagrostis spruce* (*Picea abies*) forest (*Calamagrostio–Piceetum*), Aandu, Rapla County, NW Estonia
59.164271, 24.747036 03.12. 2018 UL
- 530 ***Agrimonia eupatoria*** L. – dry alvar grassland (*Trifolio montani–Filipenduletum vulgaris*), Kuusnõmme, Saaremaa Island, W Estonia 58.335940, 21.969488
19.09.2018 OA, AK, MR, TR, AV, MZ
- 531 ***Fragaria vesca*** L. – fresh boreo-nemoral *Hepatica* pine (*Pinus sylvestris*) forest (*Hepatico–Pinetum*), Leistu, Harju County, N Estonia 59.154990, 25.335205
05.07.2018 IM
- 532 ***Geum urbanum*** L. – arboretum, Kloostrimetsa, Tallinn, N Estonia
59.471072, 24.884085 06.08.2018 MR
- 533 ***Potentilla fruticosa*** L. [= *Dasiphora fruticosa* (L.) Rydb.] – fresh alvar grassland (*Seslerio–Potentilletum fruticosae*) with *Juniperus communis*, Kulna, Harju County, NW Estonia 59.303611, 24.363160 22.09.2018 AK
- 534 ***Potentilla norvegica*** L. – arboretum, Kloostrimetsa, Tallinn, N Estonia
59.468336, 24.880613 23.10.2018 MR
- 535 ***Rosa subcanina*** (Christ) Dalla Torre & Sarnth. – fresh alvar *Calamagrostis spruce* (*Picea abies*) forest (*Calamagrostio–Piceetum*), Aandu, Rapla County, NW Estonia
59.160369, 24.751783 11.12.2018 UL
- 536 ***Rosa subcanina*** (Christ) Dalla Torre & Sarnth. – roadside, Kuusnõmme, Saaremaa Island, W Estonia 58.328396, 21.965088 OA, AK, MR, TR
- 537 ***Rubus caesius*** L. – arboretum, Kloostrimetsa, Tallinn, N Estonia
59.466313, 24.877302 13.08.2018 MR

Rubiaceae

- 538 ***Galium aparine*** L. – dry boreal *Vaccinium vitis-idaea* oak–pine (*Quercus robur–Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Quercu–Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59.470480, 24.881323 06.08.2018 MR

Saxifragaceae

- 539 ***Chrysosplenium alternifolium*** L. – arboretum, Kloostrimetsa, Tallinn, N Estonia
59.469197, 24.882706 04.06.2018 MR

Scrophulariaceae

- 540 ***Odontites verna*** (Bellardi) Dumort. **subsp. *litoralis*** (Fr.) A.Pedersen [= *Odontites litoralis* (Fr.) Fr.] – saline coastal grassland (*Eleocharetum uniglumis*), Kuusnõmme, Saaremaa Island, W Estonia 58.352193, 21.933598 19.09.2018 MR, MZ
- 541 ***Scrophularia nodosa*** L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59.468649, 24.878352 11.09.2018 MS
- 542 ***Scrophularia nodosa*** L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59.467150, 24.878555 17.08.2018 MR
- 543 ***Veronica arvensis*** L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59.468018, 24.879028 19.06.2018 MR

Ulmaceae

- 544 ***Ulmus laevis*** Pall. – dry boreal *Vaccinium vitis-idaea* oak–pine (*Quercus robur*–*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo*–*Quercu*–*Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59.470216, 24.876731 06.06.2018 MR

Monocotyledoneae

Alismataceae

- 545 ***Alisma plantago-aquatica*** L. – ditch, Kloostrimetsa, Tallinn, N Estonia 59.469129, 24.880643 18.10.2018 MR

Alliaceae

- 546 ***Allium oleraceum*** L. – roadside, Lillia, Maardu, N Estonia 59.478603, 24.954197 19.07.2018 JS

Convallariaceae

- 547 ***Convallaria majalis*** L. – dry boreal *Vaccinium vitis-idaea* oak–pine (*Quercus robur*–*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo*–*Quercu*–*Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59.470223, 24.880678 25.09.2018 MR

Cyperaceae

- 548 ***Carex flacca*** Schreb. – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio*–*Pineetum*), Aandu, Rapla County, NW Estonia, 59.162697, 24.744013 03.12.2018 UL

Iridaceae

- 549 ***Iris pseudacorus*** L. – pond shore, Kloostrimetsa, Tallinn, N Estonia 59.468020, 24.883472 16.10.2018 MR

Juncaceae

- 550 ***Juncus conglomeratus*** L. – wasteland, Loodepark, Maardu, Harju County, N Estonia 59.481427, 25.008154 01.10.2018 SJ

Poaceae

- 551 **Agrostis capillaris** L. – dry boreal *Vaccinium vitis-idaea* oak–pine (*Quercus robur*–*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo*–*Quercu*–*Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59.469282, 24.883893 13.08.2018 MR
- 552 **Bromus inermis** Leyss. – abandoned field, Aandu, Rapla County, NW Estonia 59.165421, 24.736825 10.12.2018 UL
- 553 **Calamagrostis epigeios** (L.) Roth – dry alvar grassland (*Trifolio montani*–*Filipenduletum vulgaris*), Aandu, Rapla County, NW Estonia 59.163264, 24.746066 10.12.2018 UL
- 554 **Dactylis glomerata** L. – wasteland, Kalaranna, Tallinn, N Estonia 59.446862, 24.748963 15.07.2018 MR
- 555 **Leymus arenarius** (L.) Hochst. (= *Elymus arenarius* L.) – white dune (*Honckenyo*–*Leymetum*), Ruhnu, Ruhnu Island, SW Estonia 57.798511 23.273485 06.09.2018 AK
- 556 **Phleum pratense** L. – abandoned field, Aandu, Rapla County, NW Estonia 59.165116, 24.737172 11.12.2018 UL
- 557 **Sesleria caerulea** (L.) Ard. – dry alvar grassland (*Trifolio montani*–*Filipenduletum vulgaris*), Liivamäe, Harju County, N Estonia 59.447647, 24.951776 28.09.2018 MR

III *Semina plantarum in diversis regionibus Estoniae cultarum*

ANGIOSPERMAE**Dicotyledoneae****Rosaceae**

- 558 **Crataegus alemanniensis** Cinovskis – Falgi park, Tallinn, N Estonia 59.432771, 24.734478 21.11.2018 OA
- 559 **Crataegus rusanovii** Cinovskis f. **rubella** Cinovskis – Falgi park, Tallinn, N Estonia 59.432863, 24.734303 21.11.2018 OA

Seminum collectores: Olev Abner (OA), Jaanika Altraja (JA), Sille Janson (SJ), Anu Kaur (AK), Urmas Laansoo (UL), Ilmi Mansu (IM), Ly Mik (LM), Mare Raidma (MR), Tõnu Rähn (TR), Jüri Schmiedemann (JS), Maria Storožuk (MS), Ain Vammus (AV), Marju Zirk (MZ).

Urve Sinijärv
Horti Director

Olev Abner
Custos

Heli Russak
Seminum Curator

KAUR Weather Records 2018
Tallinn - Harku

The highest air temperature: 34,2 °C (July 29)
The lowest air temperature: -17,5 °C (February 28)
Annual rainfall total: 539

Average Monthly Temperature and Rainfall

Month	Ground (°C)	Air Average (°C)	Air Min (°C)	Air Max (°C)	Rainfall (mm)
Jan	-2,3	-1,7	-11,0	5,5	41,6
Feb	-6,6	-6,4	-17,5	2,0	27,0
Mar	-3,8	-3,1	-16,5	4,5	23,2
Apr	5,8	5,6	-6,5	19,2	35,8
May	19,3	14,4	2,8	26,4	12,4
Jun	20,2	14,9	3,2	27,1	51,7
Jul	24,9	20,2	9,1	34,2	8,8
Aug	20,2	18,2	8,2	31,0	66,6
Sep	14,1	14,0	0,1	27,7	116,6
Oct	7,0	7,6	-2,3	19,0	92,5
Nov	2,8	3,5	-6,5	11,9	28,2
Dec	-1,9	-1,5	-10,8	4,7	34,3

