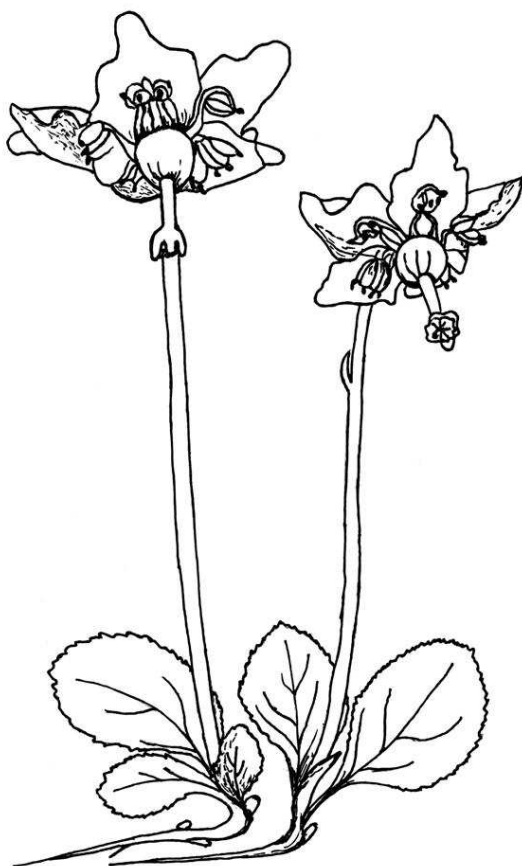


INDEX SEMINUM

Moneses uniflora (L.) A. Gray



TALLINN 2014

TALLINNA BOTAANIKAAED

INDEX SEMINUM

anno 2013 collectorum

quae

HORTUS BOTANICUS TALLINNENSIS

pro mutua commutatione offert

Tallinn 2014

*Mandata inscribenda sunt:
Hortus Botanicus Tallinnensis
Kloostrimetsa tee 52
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.

Cover by: Olev Abner

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<http://www.botaanikaaed.ee>

I Semina plantarum in horto botanico cultarum
SPERMATOPHYTA
GYMNOSPERMAE

Cupressaceae

- 1 *Juniperus squamata* Buch.-Ham. ex D. Don cv. Meyeri (Moscow, 1961)
 A 2 *Microbiota decussata* Kom.
 3 *Microbiota decussata* Kom.
 4 *Thuja koraiensis* Nakai (Tartu, 1982)
 5 *Thuja occidentalis* L.

Pinaceae

- 6 *Abies koreana* E.H. Wilson (Nogent-sur-Vernisson, 1966)
 A* 7 *Abies nephrolepis* (Trautv.) Maxim (*Rossia extremiorientalis*, Mt. Khualaza, 1961)

Taxaceae

- 8 *Taxus baccata* L.
 9 *Taxus canadensis* Marshall (Estonia, Luua, 1987)

ANGIOSPERMAE

Dicotyledoneae

Acanthaceae

- 10 *Acanthus mollis* L. (Wrocław, 1973)
 + 11 *Barleria prionitis* L. (Villers-lès-Nancy, 2003)
 + 12 *Crossandra nilotica* Oliv.
 + 13 *Ruellia brittoniana* Leonard
 + 14 *Ruellia graecizans* Backer

Aceraceae

- 15 *Acer barbinerve* Maxim.
 16 *Acer campestre* L.
 17 *Acer circinatum* Pursh (Seattle, 1973)
 18 *Acer mandshuricum* Maxim. (*Rossia extremiorientalis*, Lazo, 1977)
 A 19 *Acer monspessulanum* L. subsp. *turcomanicum* (Pojark.) E. Murray
 (Ashgabat, 1957)
 20 *Acer negundo* L. (Estonia, Tallinn, 1959)
 * 21 *Acer negundo* L. var. *interius* (Britton) Sarg. (Edmonton, 1967)
 * 22 *Acer pensylvanicum* L. (Ottawa, 1965)
 23 *Acer pseudoplatanus* L. (Estonia, Tallinn, 1959)
 24 *Acer pseudoplatanus* L. f. *purpureum* (Loudon) Rehder (Estonia, Järvelja, 1958)
 A* 25 *Acer pseudosieboldianum* (Pax) Kom. (*Rossia extremiorientalis*,
 Okeanskaya, 1961)

+ = semina plantarum in calidariis cultarum

* = 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°17'52" N 022°06'08" E) / Samen von kultivierte Pflanzen von wissenschaftlicher Beobachtungsstelle Audaku (Insel Ösel, 58°17'52" N 022°06'08" O)

- * 26 *Acer tataricum* L. subsp. *ginnala* (Maxim.) Wesm. (*Rossia extremiorientalis*, Okeanskaya, 1961)
- A* 27 *Acer tegmentosum* Maxim. (*Rossia extremiorientalis*, *Kedrovaya Pad'*, 1961)
- * 28 *Acer tegmentosum* Maxim. (*Rossia extremiorientalis*, Okeanskaya, 1977)
- Actinidiaceae**
- 29 *Actinidia kolomikta* (Rupr. et Maxim.) Maxim.
- Anacardiaceae**
- 30 *Cotinus coggygria* Scop.
- 31 *Rhus radicans* L. (Khabarovsk, 1976)
- 32 *Rhus radicans* L. var. *rydbergii* (Small) Rehder
- 33 *Rhus typhina* L. (Estonia, Kuressaare, 1977)
- Annonaceae**
- + 34 *Artabotrys hexapetalus* (L. f.) Bhandari (Lund, 1999)
- Apiaceae**
- 35 *Eryngium alpinum* L.
- 36 *Eryngium giganteum* M. Bieb. (Ljubljana, 1982)
- 37 *Ligusticum hultenii* Fernald (Moscow, 1982)
- 38 *Meum athamanticum* Jacq. (Moscow, 1982)
- * 39 *Myrrhis odorata* (L.) Scop. (Estonia, Kalvi, 2010)
- 40 *Prangos trifida* (Mill.) Herrnst. et Heyn (Tartu, 2002)
- Apocynaceae**
- 41 *Amsonia orientalis* Decne. (Giessen, 1991)
- Aquifoliaceae**
- 42 *Ilex laevigata* (Pursh) A. Gray (Salzburg, 1987)
- Araliaceae**
- * 43 *Aralia cordata* Thunb. (*Insulae Kurilenses*, *Kunashiri*, 1981)
- A* 44 *Aralia elata* (Miq.) Seem. (*Rossia extremiorientalis*, *Shamora*, 1983)
- * 45 *Eleutherococcus senticosus* (Rupr. et Maxim.) Maxim. (*Insula Sachalin*, *Dolinsk*, 1962)
- A* 46 *Eleutherococcus senticosus* (Rupr. et Maxim.) Maxim. (*Insula Sachalin*, *Dolinsk*, 1962)
- A* 47 *Eleutherococcus sessiliflorus* (Rupr. et Maxim.) S.Y. Hu (*Rossia extremiorientalis*, *Artem*, 1961)
- * 48 *Kalopanax septemlobus* (Thunb. ex A. Murray) Koidz. (*Rossia extremiorientalis*, Okeanskaya, 1961)
- * 49 *Oplopanax horridus* (Sm.) Miq. (Seattle, 1978)
- Asclepiadaceae**
- 50 *Asclepias incarnata* L. (Estonia, Tallinn, 2012)
- 51 *Asclepias syriaca* L. (Linz, 1978)
- Asteraceae**
- * 52 *Achillea biserrata* M. Bieb. (*Caucasus borealis*, *Goryachy Klyuch*, 1990)
- * 53 *Ageratina occidentalis* (Hook.) R.M. King et H. Rob (NARGS, 2006)
- 54 *Arnica angustifolia* Vahl subsp. *tomentosa* (Macoun) G.W. Douglas et Ruyle-Dougl. (Göteborg, 2003)

- 55 *Aster alpinus* L. cv. Albus (Linz, 1997)
 56 *Aster alpinus* L. cv. Roseus (Oslo, 1996)
 57 *Atractylodes japonica* Koidz. ex Kitam. (Kyoto, 2006)
 58 *Berkheya multijuga* (DC.) Roessler (München, 2013)
 * 59 *Bidens tripartita* L. (*Estonia, Insula Rammu*, 2011)
 60 *Eupatorium fistulosum* Barratt (Nantes, 2006)
 61 *Eupatorium purpureum* L. (Strasbourg, 2001)
 62 *Guizotia abyssinica* (L. f.) Cass. (La Gacilly Cedex, 2011)
 63 *Helianthus annuus* L. cv. Sunsation
 64 *Ligularia hodgsonii* Hook. f. (Hokkaido, 2003)
 65 *Ligularia przewalskii* (Maxim.) Diels (Tartu, 1999)
 66 *Melampodium paludosum* Kunth (Zürich, 2007)
 67 *Saussurea riederi* Herder (Marburg, 2005)
 68 *Senecio ovatus* (G. Gaertn., B. Mey. et Scherb.) Willd. (Oldenburg, 1994)
 * 69 *Senecio sarracenicus* L. (= *Senecio fluviatilis* Wallr.) (*Estonia, Kohila*, 2009)
 70 *Sinacalia tangutica* (Maxim.) B. Nord (Tartu, 2004)
 71 *Solidago graminifolia* (L.) Salisb. (East Lansing, 2000)
 * 72 *Solidago patagonica* Phil. (Göttingen, 2005)
 73 *Zinnia peruviana* (L.) L. cv. Bonita Yellow (Konstanz, 2010)
 74 *Tanacetum corymbosum* (L.) Sch. Bip. (Košice, 1988)
 75 *Vernonia fasciculata* Michx. (Tübingen, 2004)
- Begoniaceae**
- + 76 *Begonia venosa* Skan ex Hook. f. (Lyon, 1999)
- Berberidaceae**
- 77 *Berberis aggregata* C.K. Schneid. (Stockholm, 1957)
 78 *Berberis koreana* Palib. (Hørsholm, 1991)
 79 *Berberis parvifolia* Sprague (Berlin-Dahlem, 1957)
 80 *Podophyllum hexandrum* Royle (Bergen, 1958)
 81 *Podophyllum hexandrum* Royle var. *chinense* (Sprague) Stearn ex Cubey (Stockholm, 1959)
- Betulaceae**
- * 82 *Alnus crispa* (Aiton) Pursh (Vancouver, 1981)
 83 *Alnus crispa* (Aiton) Pursh. var. *mollis* (Fernald) Fernald (Rogów, 2002)
 * 84 *Alnus fruticosa* Rupr. (*Paeninsula Camtschatca, Dolina Geiserov*, 1978)
 * 85 *Alnus fruticosa* Rupr. (*Rossia extremiorientalis, Zeya*, 1975)
 86 *Alnus hirsuta* (Spach) Rupr. (Rogów, 1977)
 * 87 *Alnus incana* (L.) Moench (*Estonia, Tallinn*, 1975)
 88 *Alnus incana* (L.) Moench var. *americana* Regel (Ottawa, 1965)
 89 *Alnus incana* (L.) Moench cv. Pendula (Salaspils, 1989)
 * 90 *Alnus incana* (L.) Moench subsp. *rugosa* (Du Roi) Clausen (Washington, 1978)
 91 *Alnus japonica* (Thunb.) Steud. (Nayoro, 1973)
 * 92 *Alnus maximowiczii* Callier ex C.K. Schneid. (*Insulae Kurilenses, Kunashiri*, 1981)
 93 *Alnus viridis* (Chaix) DC. (Rogów, 1973)

- * 94 *Alnus viridis* (Chaix) DC. subsp. *sinuata* (Regel) Á. Löve et D. Löve (Ás, 1998)
- * 95 *Alnus viridis* (Chaix) DC. subsp. *sinuata* (Regel) Á. Löve et D. Löve
(Vancouver, 1977)
- 96 *Betula humilis* Schrank
- 97 *Betula lenta* L. (Rogów, 1975)
- 98 *Betula pendula* Roth var. *oycoviensis* (Besser) Dippel (St. Petersburg, 1957)
- 99 *Carpinus betulus* L. cv. *Incisa* (København, 1965)
- * 100 *Carpinus caroliniana* Walter (Ottawa, 1967)
- A* 101 *Carpinus cordata* Blume (*Rossia extremiorientalis*, *Okeanskaya*, 1977)
- A 102 *Carpinus japonica* Blume (Tokyo, 1989)
- Bombacaceae**
- + 103 *Pachira insignis* (Sw.) Savigny (Tübingen, 1972)
- Boraginaceae**
- 104 *Cynoglossum officinale* L. (København, 2007)
- 105 *Lithospermum purpureocaeruleum* L. (București, 1976)
- Brassicaceae**
- 106 *Lunaria rediviva* L.
- Buddlejaceae**
- 107 *Buddleja davidii* Franch. (Stuttgart-Hohenheim, 2010)
- Calycanthaceae**
- 108 *Calycanthus fertilis* Walter var. *laevigatus* (Willd.) Bean
(Nogent-sur-Vernisson, 1964)
- Campanulaceae**
- * 109 *Codonopsis lanceolata* (Siebold et Zucc.) Trautv. (Vladivostok, 2006)
- * 110 *Codonopsis ussuriensis* (Rupr. et Maxim.) Hemsl. (Vladivostok, 2005)
- Capparaceae**
- 111 *Cleome hassleriana* Chodat cv. Sparkler Rose
- 112 *Cleome hassleriana* Chodat cv. Violet Queen (Cluj-Napoca, 2012)
- 113 *Polanisia dodecandra* (L.) DC. (Marburg, 2007)
- Caprifoliaceae**
- * 114 *Diervilla lonicera* Mill. (Ottawa, 1966)
- 115 *Diervilla rivularis* Gatt. (Dushanbe, 1957)
- 116 *Diervilla sessilifolia* Buckland (Leiden, 1957)
- 117 *Kolkwitzia amabilis* Graebn.
- A 118 *Kolkwitzia amabilis* Graebn.
- * 119 *Lonicera chrysantha* Turcz. (*Rossia extremiorientalis*, *Khekhtsir*, 1975)
- 120 *Lonicera chrysantha* Turcz. var. *crassipes* Nakai (Hørsholm, 1991)
- 121 *Lonicera demissa* Rehder
- 122 *Lonicera iberica* M. Bieb. (Tbilisi, 1964)
- 123 *Lonicera involucrata* (Richardson) Banks ex Spreng. (Berlin-Dahlem, 1978)
- * 124 *Lonicera korolkowii* Stapf (Khorog, 1987)
- A 125 *Lonicera ledebourii* Eschsch. (Kórnik, 1999)
- * 126 *Lonicera maximowiczii* (Rupr.) Maxim. (*Rossia extremiorientalis*, *Ternei*, 1979)
- * 127 *Lonicera nigra* L. (Sarajevo, 1983)

- A 128 *Lonicera nigra* L. (Amsterdam, 2003)
 129 *Lonicera periclymenum* L.
 130 *Lonicera periclymenum* L. cv. *Quercifolium* (Salaspils, 1996)
 131 *Lonicera prolifera* (G. Kirchn.) Rehder
 * 132 *Lonicera ruprechtiana* Regel (*Rossia extremiorientalis*, Ternei, 1979)
 A 133 *Lonicera tatarica* L. (Minsk, 1959)
 134 *Lonicera tatarica* L. (Barnaul, 1977)
 135 *Lonicera tatarica* L. cv. *Alba* (Northampton, 1963)
 A 136 *Lonicera tolmatchewii* Pojark. (Joskar-Ola, 1997)
 137 *Lonicera vesicaria* Kom. (Minsk, 1997)
 * 138 *Lonicera xylosteum* L. (*Tallinn, Kloostrimetsa*, 1972)
 139 *Sambucus canadensis* L. cv. *Aurea*
 A 140 *Sambucus sieboldiana* Blume ex Miq. (Rogów, 1997)
 * 141 *Sambucus williamsii* Hance (*Rossia extremiorientalis*, Talmi, 1961)
 142 *Symphoricarpos albus* (L.) S.F. Blake var. *laevigatus* (Fernald) S.F. Blake
 (Estonia, Tallinn, 1966)
 143 *Symphoricarpos occidentalis* Hook. (Ottawa, 1968)
 144 *Weigela florida* (Bunge) A. DC. (Pyongyang, 1988)
 * 145 *Weigela middendorffiana* (Trautv. et C.A. Mey.) K. Koch (*Insula Sachalin*,
Mt. Chekhov, 1961)
 146 *Weigela praecox* (Lemoine) L.H. Bailey (Estonia, Järvelja, 1958)
 * 147 *Viburnum dentatum* L. var. *deamii* (Rehder) Fernald (Philadelphia, 1993)
 * 148 *Viburnum lantana* L. (Salzburg, 1984)
 149 *Viburnum lantana* L. cv. *Variegatum* (Estonia, Järvelja, 1958)
 150 *Viburnum lentago* L. (Estonia, Luua, 1957)
 151 *Viburnum opulus* L. (Tallinn, 1965)
 * 152 *Viburnum trilobum* Marshall (Montréal, 1988)
 * 153 *Viburnum wrightii* Miq. (*Insulae Kurilenses*, *Etorofu*, 1961)
- Caryophyllaceae**
- * 154 *Dianthus alpinus* L. (Graz, 2009)
 * 155 *Saponaria bellidifolia* Sm. (Lama dei Peligni, 2004)
 156 *Saponaria caespitosa* DC. (Innsbruck, 1993)
- Celastraceae**
- 157 *Celastrus orbiculatus* Thunb. (Tallinn, 1960)
 * 158 *Celastrus scandens* L. (Ottawa, 1965)
 A 159 *Euonymus alatus* (Thunb.) Siebold (Kyoto, 1998)
 160 *Euonymus alatus* (Thunb.) Siebold (Kyoto, 1998)
 161 *Euonymus alatus* (Thunb.) Siebold (Kyoto, 1985)
 * 162 *Euonymus alatus* (Thunb.) Siebold subsp. *sacrosanctus* (Koidz.) Vorosch.
 (*Rossia extremiorientalis*, *Chornaya*, 1961)
 163 *Euonymus bungeanus* Maxim. (Beijing, 1957)
 164 *Euonymus europaeus* L. (Estonia, Harku, 1959)
 165 *Euonymus hamiltonianus* Wall. subsp. *maackii* (Rupr.) Kom. (Vladivostok, 1961)

- 166 *Euonymus latifolius* (L.) Mill. (Tallinn, 1989)
 167 *Euonymus macropterus* Rupr.
 A* 168 *Euonymus macropterus* Rupr. (*Rossia extremiorientalis*, *Khualaza*, 1961)
 * 169 *Euonymus obovatus* Nutt. (East Lansing, 1999)
 * 170 *Euonymus pauciflorus* Maxim. (*Rossia extremiorientalis*, *Khekhtsir*, 1975)
 * 171 *Euonymus planipes* (Koehne) Koehne (*Rossia extremiorientalis*, *Shamora*, 1961)
 172 *Tripterygium regelii* Sprague et Takeda
Cercidiphyllaceae
 173 *Cercidiphyllum japonicum* Siebold et Zucc. var. *magnificum* Nakai (Nikko, 1975)
Clusiaceae
 174 *Hypericum ascyron* L. (Gornotaietchna, 2007)
Cornaceae
 * 175 *Cornus amomum* Mill. (East Lansing, 2003)
 176 *Cornus mas* L.
 177 *Cornus sanguinea* L. subsp. *australis* (C.A. Mey.) Jáv. (Estonia, Luua, 1958)
 178 *Cornus sericea* L. cv. *Flaviramea* (Leipzig, 1957)
Crassulaceae
 + 179 *Kalanchoe longiflora* Schltr. ex J.M. Wood (Villers-lès-Nancy, 1984)
 + 180 *Kalanchoe nyikae* Engl. (München, 1995)
 + 181 *Kalanchoe rotundifolia* (Haw.) Haw. (Basel, 1994)
 182 *Sedum monregalense* Balb. (Estonia, Kohila, 1994)
 183 *Sedum telephium* L. subsp. *fabaria* (W.D.J. Koch) Kirschl. (Jena, 2006)
Cucurbitaceae
 + 184 *Kedrostis africana* (L.) Cogn. (Monte Carlo, 2002)
Dipsacaceae
 185 *Knautia macedonica* Griseb. (Caen, 2000)
 186 *Scabiosa caucasica* M. Bieb. (Tabor, 2007)
Elaeagnaceae
 187 *Elaeagnus commutata* Bernh. ex Rydb. (Estonia, Järvelja, 1960)
 188 *Elaeagnus umbellata* Thunb. (Estonia, Polli, 1975)
 * 189 *Hippophae rhamnoides* L. (Wrocław, 1997)
 190 *Shepherdia canadensis* (L.) Nutt.
Ericaceae
 191 *Erica tetralix* L.
 * 192 *Ledum groenlandicum* Oeder (Vancouver, 1962)
 * 193 *Ledum palustre* L. var. *dilatatum* Wahlenb. (*Rossia extremiorientalis*, *Sovetskaya Gavan'*, 1967)
 * 194 *Ledum palustre* L. var. *diversipilosum* Nakai (*Rossia extremiorientalis*, *Mt. Khualaza*, 1961)
 * 195 *Leucothoe grayana* Maxim. (*Insulae Kurilenses*, *Kunashiri*, 1981)
 * 196 *Menziesia pentandra* Maxim. (*Insulae Kurilenses*, *Kunashiri*, 1981)
 197 *Menziesia pilosa* (Michx.) Juss.
 198 *Rhododendron aureum* Georgi (Sapporo, 1967)
 199 *Rhododendron brachycarpum* D. Don ex G. Don

- 200 *Rhododendron brachycarpum* D. Don ex G. Don (Edinburgh, 1958)
 201 *Rhododendron camtschaticum* Pall.
 202 *Rhododendron* cv. Catawbiense Album (Riga, 1970)
 203 *Rhododendron ferrugineum* L. (Edinburgh, 1958)
 204 *Rhododendron luteum* Sweet
 205 *Rhododendron maximum* L. (Antwerpen, 1962)
 206 *Rhododendron minus* Michx. cv. Carolinianum Album (Edinburgh, 1958)
 207 *Rhododendron molle* (Blume) G. Don subsp. *japonicum* (A. Gray) K. Kron
 * 208 *Rhododendron schlippenbachii* Maxim. (*Rossia extremiorientalis*, Talmi, 1961)
 209 *Rhododendron smirnowii* Trautv.
 210 *Rhododendron vaseyi* A. Gray (Edinburgh, 1958)
 211 *Vaccinium macrocarpon* Aiton (Salaspils, 1994)
- Euphorbiaceae**
- + 212 *Phyllanthus grandifolius* L.
 213 *Securinega suffruticosa* (Pall.) Rehder
- Fabaceae**
- A 214 *Caragana arborescens* Lam. (Geneve, 1958)
 215 *Caragana arborescens* Lam. (Leiden, 1957)
 216 *Caragana frutex* (L.) K. Koch (Kiev, 1957)
 A 217 *Chamaecytisus purpureus* (Scop.) Link (München, 1961)
 218 *Chamaecytisus purpureus* (Scop.) Link (München, 1961)
 219 *Chamaecytisus ruthenicus* Fischer (Lublin, 2004)
 220 *Chamaecytisus supinus* (L.) Link
 A 221 *Chamaecytisus supinus* (L.) Link (Tartu, 1957)
 222 *Chamaespartium sagittale* (L.) P.E. Gibbs (Tübingen, 1976)
 223 *Colutea arborescens* L.
 224 *Colutea* × *media* Willd. (Salaspils, 1964)
 225 *Cytisus nigricans* L.
 A* 226 *Cytisus scoparius* (L.) Link (Lublin, 2007)
 227 *Cytisus scoparius* (L.) Link cv. Palette
 * 228 *Genista tinctoria* L. (Olomouc, 1988)
 229 *Lablab purpureus* (L.) Sweet
 230 *Laburnum alpinum* (Mill.) Bercht. et J. Presl
 * 231 *Lathyrus maritimus* (L.) Bigelow (Estonia, Purtschke, 1995)
 232 *Lupinus* cv. My Castle
 * 233 *Maackia amurensis* Rupr. et Maxim. (*Rossia extremiorientalis*, Okeanskaya, 1961)
 234 *Robinia luxurians* (Dieck) C.K. Schneid. (Estonia, Laulasmaa, 1965)
 * 235 *Trifolium rubens* L. (Samoëns, 1994)
- Fagaceae**
- A 236 *Castanea dentata* (Marshall) Borkh. (Tharandt, 2000)
- Fumariaceae**
- 237 *Corydalis cheilanthifolia* Hemsl. (Jena, 1998)

Gentianaceae

- * 238 *Gentiana lutea* L. (Courmayeur, 2002)
- 239 *Gentiana paradoxa* Albov (Jena, 1979)
- 240 *Gentiana septemfida* Pall.

Geraniaceae

- 241 *Geranium macrorrhizum* L. f. *balcanum* Sünd. (Estonia, Õisu, 1947)
- 242 *Geranium platypetalum* Fisch. et C.A. Mey. (Wuppertal, 1994)
- 243 *Geranium renardii* Trautv. (Warszawa, 2004)

Gesneriaceae

- + 244 *Alsobia punctata* (Lindl.) Hanst.
- 245 *Ramonda serbica* Pančić (Brno, 2008)
- + 246 *Rhytidophyllum tomentosum* (L.) Mart. (Halle, 2003)

Grossulariaceae

- 247 *Ribes alpinum* L.
- 248 *Ribes americanum* Mill.
- 249 *Ribes divaricatum* Douglas (Vilnius, 1991)
- 250 *Ribes komarovii* Pojark. (Bayreuth, 1997)
- 251 *Ribes nigrum* L. var. *sibiricum* E. Wolf f. *fuscocarpum* (Krasnoyarsk, 1996)
- 252 *Ribes niveum* Lindl. (Vilnius, 2003)
- 253 *Ribes petraeum* Wulfen

Hamamelidaceae

- 254 *Hamamelis japonica* Siebold et Zucc.
- 255 *Hamamelis japonica* Siebold et Zucc. cv. *Zuccariniana* (Berlin-Dahlem, 1959)
- 256 *Hamamelis mollis* Oliv. (Berlin-Dahlem, 1977)
- 257 *Hamamelis vernalis* Sarg. (Aachen, 2000)

Hydrangeaceae

- 258 *Hydrangea arborescens* L. (Riga, 1965)
- 259 *Hydrangea arborescens* L. subsp. *radiata* (Walter) E.M. Mc Clint (Kalmthout, 1999)
- 260 *Hydrangea heteromalla* D. Don
- * 261 *Hydrangea paniculata* Siebold (*Insulae Kurilenses, Kunashiri*, 1981)
- 262 *Hydrangea paniculata* Siebold cv. *Praecox* (Estonia, Tallinn, 1970)

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- 263 *Juglans cinerea* L.
- A 264 *Juglans nigra* L. (Kiev, 1958)
- A 265 *Pterocarya stenoptera* C. DC. (Beijing, 1980)

Lamiaceae

- * 266 *Dracocephalum ruyschiana* L. (Estonia, Jalase, 1995)
- 267 *Horminum pyrenaicum* L. cv. *Roseum*
- 268 *Leonotis nepetifolia* (L.) R. Br. (Tartu, 2012)
- 269 *Leonotis nepetifolia* (L.) R.Br. cv. *Shrimp Cocktail*
- 270 *Nepeta manchuriensis* S. Moore (Reykjavik, 2005)
- 271 *Nepeta sibirica* L. (Graz, 1984)

- 272 *Physostegia virginiana* (L.) Benth. (Donetsk, 1981)
 273 *Physostegia virginiana* (L.) Benth. cv. Summer Snow (Manchester, 1978)
 274 *Salvia patens* Cav. cv. Blue Angel (La Gacilly Cedex, 2011)
 275 *Salvia pratensis* L. (Jena, 1989)
 276 *Salvia scabiosifolia* Lam. (Tartu, 2002)
 277 *Stachys persica* S.G. Gmel. ex C.A. Mey (Milano, 2006)

Linaceae

- * 278 *Linum perenne* L. (Salzburg, 1997)

Lythraceae

- 279 *Cuphea procumbens* Cav. (Bayreuth, 2013)

Malvaceae

- 280 *Alcea rugosa* Alef. (Moscow, 2006)
 281 *Kitaibelia vitifolia* Willd. (Minsk, 1989)

Menispermaceae

- 282 *Menispermum dauricum* DC. (Nizhni Novgorod, 1957)

Moraceae

- + 283 *Dorstenia contrajerva* L. (Strasbourg, 1961)
 + 284 *Dorstenia elata* Gardner (Düsseldorf, 1994)
 + 285 *Dorstenia hildebrandtii* Engl. (Plzeň, 2003)
 286 *Morus australis* Poir. (= *Morus bombycis* Koidz.) (Cluj, 1965)
 A 287 *Morus australis* Poir. (= *Morus bombycis* Koidz.) (Cluj, 1965)
 * 288 *Morus rubra* L. (Lisle, 1991)

Myrsinaceae

- + 289 *Ardisia crenata* Sims
 + 290 *Ardisia japonica* (Thunb.) Blume (Batumi, 1984)

Myrtaceae

- +* 291 *Eugenia uniflora* L. (*Insula Mauritiana*, 2007)
 + 292 *Myrtus communis* L.
 + 293 *Psidium littorale* Raddi (Stockholm, 1964)
 + 294 *Syzygium paniculatum* Banks ex Gaertn.

Oleaceae

- 295 *Forsythia europea* Degen et Bald. (Cluj, 1958)
 296 *Forsythia giraldiana* Lingelsh. (Salaspils, 1996)
 297 *Forsythia ovata* Nakai (St. Petersburg, 1958)
 298 *Fraxinus chinensis* Roxb. (Beijing, 1985)
 * 299 *Fraxinus chinensis* Roxb. var. *rhyngophylla* (Hance) Hemsl.
 (*Rossia extremiorientalis*, *Shamora*, 1961)
 * 300 *Fraxinus latifolia* Benth. (Vancouver, 1982)
 301 *Fraxinus pennsylvanica* Marshall
 302 *Ligustrum ibota* Siebold et Zucc. (København, 1991)
 303 *Ligustrum obtusifolium* Siebold et Zucc. (Poznań, 1999)
 * 304 *Ligustrum tschonoskii* Decne. (*Insula Sachalin*, *Mt. Chekhov*, 1961)
 305 *Ligustrum tschonoskii* Decne. var. *glabrescens* Koidz. (Hørsholm, 1991)
 * 306 *Ligustrum vulgare* L. (Salzburg, 1983)

- 307 *Ligustrum vulgare* L. cv. Aureovariegatum (Salaspils, 1964)
- 308 *Syringa josikaea* J. Jacq. ex Rchb. (Estonia, Tallinn, 1957)
- 309 *Syringa komarowii* C.K. Schneid. (Estonia, Tallinn, 1969)
- 310 *Syringa pubescens* Turcz. subsp. *patula* (Palib) M.C. Chang et X.L. Chen (Rochester, 1973)
- 311 *Syringa reticulata* (Blume) H. Hara
- * 312 *Syringa reticulata* (Blume) H. Hara subsp. *amurensis* (Rupr.) P.S. Green et M.C. Chang (*Rossia extremiorientalis*, *Okeanskaya*, 1961)
- 313 *Syringa tomentella* Bureau et Franch. (Edinburgh, 1958)
- 314 *Syringa villosa* Vahl. (Beijing, 1977)
- 315 *Syringa wolfii* C.K. Schneid. (Nizhni Novgorod, 1957)
- * 316 *Syringa wolfii* C.K. Schneid. var. *hirsuta* (C.K. Schneid.) Hatus. (*Rossia extremiorientalis*, *Kedrovaya Pad'*, 1961)
- Onagraceae**
- * 317 *Epilobium dodonaei* Vill. (Champex-Lac, 1993)
- Paeoniaceae**
- 318 *Paeonia delavayi* Franch. (Wien, 1968)
- 319 *Paeonia lactiflora* Pall. (Estonia, Tamsa, 1998)
- 320 *Paeonia mlokosewitschii* Lomakin (Tbilisi, 1978)
- Papaveraceae**
- 321 *Papaver bracteatum* Lindl. (Brno, 2002)
- 322 *Papaver orientale* L.
- 323 *Sanguinaria canadensis* L. (Uppsala, 1974)
- Passifloraceae**
- + 324 *Passiflora coriacea* Juss. (Leiden, 2004)
- Phytolaccaceae**
- + 325 *Rivina humilis* L. (Tartu, 1959)
- Portulacaceae**
- 326 *Calandrinia grandiflora* Lindl. (St.Gallen, 2010)
- Primulaceae**
- 327 *Cyclamen coum* Mill.
- 328 *Cyclamen purpurascens* Mill. (Wien, 1997)
- 329 *Primula* × *pubescens* Jacq. (Bonn, 1972)
- Ranunculaceae**
- 330 *Actaea alba* (L.) Mill. (Estonia, Tamsa, 1999)
- 331 *Adonis vernalis* L. (Bydgoszcz, 1961)
- 332 *Cimicifuga dahurica* (Turcz.) Torr. et A. Gray ex Maxim. (Warszawa, 1993)
- * 333 *Cimicifuga elata* Nutt. (Göteborg, 2003)
- * 334 *Cimicifuga racemosa* (L.) Nutt. (Kirtland, 1999)
- 335 *Cimicifuga racemosa* (L.) Nutt. var. *cordifolia* (Pursh) A. Gray (Berlin, 1976)
- 336 *Clematis koreana* Kom. (Kristiansand, 1996)
- 337 *Clematis potaninii* Maxim. var. *fargesii* (Franch.) Hand.-Mazz (Estonia, Roogoja, 2011)
- 338 *Delphinium grandiflorum* L. cv. Delfix Blue

- 339 *Delphinium nudicaule* Torr. et A. Gray cv. Red Cup
 340 *Delphinium tatsienense* Franch. (Potsdam, 1990)
 341 *Pulsatilla albana* (Steven) Bercht. et J. Presl (Wien, 1998)
 * 342 *Pulsatilla patens* (L.) Mill. (Estonia, Jalase, 2004)
 343 *Ranunculus aconitifolius* L. (Bonn, 2005)
 344 *Ranunculus gramineus* L. (Grüningen, 1961)
 345 *Semiaquilegia ecalcarata* (Maxim.) Sprague et Hutch. (St. Gallen, 1997)

Rhamnaceae

- * 346 *Rhamnus alpina* L. (Champex, 1992)
 347 *Rhamnus davurica* Pall. (Tartu, 1999)
 348 *Rhamnus davurica* Pall. var. *nipponica* Makino (Novosibirsk, 2003)
 349 *Rhamnus diamantiaca* Nakai (Vladivostok, 1973)
 350 *Rhamnus japonica* Maxim. (Trondheim, 1998)
 351 *Rhamnus saxatilis* Jacq. (Ljubljana, 2004)

Rosaceae

- A 352 *Amelanchier laevis* Wiegand (Washington, 1975)
 A 353 *Amelanchier obovalis* (Michx.) Ashe (Estonia, Kaerepere, 1992)
 354 *Aronia arbutifolia* (L.) Pers. f. *leiocalyx* Rehder (Essen, 1957)
 A* 355 *Cerasus maximowiczii* (Rupr.) Kom. (= *Prunus maximowiczii* Rupr.)
 (*Rossia extremiorientalis*, Golovnino, 1961)
 356 *Chaenomeles japonica* (Thunb.) Lindl. ex Spach
 A 357 *Cotoneaster dielsianus* E. Pritz. (Kaunas, 1961)
 A 358 *Cotoneaster integerrimus* Medik. (Minsk, 1957)
 359 *Cotoneaster nebrodensis* (Guss.) K. Koch (Paris, 1957)
 360 × *Crataegosorbus miczurinii* Pojark. (Estonia, Maidla, 1984)
 361 *Crataegus calpodendron* (Ehrh.) Medik. (Ottawa, 1962)
 A* 362 *Crataegus chlorosarca* Maxim. (*Insula Sachalin*, Dolinsk, 1961)
 363 *Crataegus chrysocarpa* Ashe (Tartu, 1958)
 364 *Crataegus chrysocarpa* Ashe var. *phoenicea* E.J. Palmer (Helsinki, 1960)
 365 *Crataegus douglasii* Lindl. (Estonia, Järvelja, 1958)
 366 *Crataegus dsungarica* Zabel ex Lange
 * 367 *Crataegus laevigata* (Poir.) DC. (Strasbourg, 1990)
 A* 368 *Crataegus maximowiczii* C.K. Schneid. (*Rossia extremiorientalis*,
Kedrovaya Pad', 1961)
 * 369 *Crataegus mollis* (Torr. et A. Gray) Scheele (East Lansing, 1988)
 * 370 *Crataegus monogyna* Jacq. (Wien, 1975)
 371 *Crataegus punctata* Jacq. (Almaty, 1957)
 372 *Crataegus punctata* Jacq. f. *intermedia* Kruschke (Almaty, 1957)
 373 *Crataegus submollis* Sarg. (Samara, 1957)
 374 *Crataegus succulenta* (Link) Schrad. var. *macracantha* (Lodd.) Ettl. (Estonia,
 Järvelja, 1997)
 * 375 *Crataegus turkestanica* Pojark. (*Pamir-Alai*, *Iskander-Kul*, 1962)
 376 *Dryas octopetala* L. (Tartu, 1950)

- 377 *Exochorda racemosa* (Lindl.) Rehder
- * 378 *Holodiscus discolor* (Pursh) Maxim. (Vancouver, 1961)
- A 379 *Malus fusca* (Raf.) C.K. Schneid. (Helsinki, 1996)
- A 380 *Malus rockii* Rehder (Kalmthout, 1985)
- 381 *Malus transitoria* (Batalin) C.K. Schneid. (København, 1974)
- 382 *Mespilus germanica* L. (Estonia, Luua, 1958)
- A 383 *Neillia sinensis* Oliv. (Moscow, 1961)
- 384 *Padus maackii* (Rupr.) Kom. (= *Prunus maackii* Rupr.) (Tartu, 1958)
- * 385 *Padus ssiori* (F. Schmidt) C.K. Schneid. (= *Prunus ssiori* F. Schmidt) (*Insula Sachalin, Mt. Chekhov*, 1961)
- A 386 *Padus ssiori* (F. Schmidt) C.K. Schneid. (= *Prunus ssiori* F. Schmidt) (Tokyo, 1978)
- 387 *Photinia villosa* (Thunb.) DC. (Vancouver, 1959)
- 388 *Physocarpus amurensis* (Maxim.) Maxim. (København, 1958)
- 389 *Physocarpus malvaceus* (Greene) Kuntze (Berlin-Dahlem, 1979)
- 390 *Physocarpus opulifolius* (L.) Maxim. (Estonia, Tihemetsa, 1959)
- * 391 *Physocarpus opulifolius* (L.) Maxim. var. *intermedius* (Rydb.) B.L. Rob. (Lisle, 1989)
- * 392 *Potentilla fruticosa* L. (Estonia, *Laulasmaa*, 1972)
- A 393 *Prunus cerasifera* Ehrh.
- A 394 *Pyracantha coccinea* M. Roem (Berlin-Dahlem, 1957)
- * 395 *Pyrus pyraister* (L.) Burgsd. (*Germania, Insula Vilm*, 1994)
- 396 *Rhodotypos scandens* (Thunb.) Makino (Osaka, 1974)
- 397 *Rosa acicularis* Lindl. var. *nipponensis* (Crép.) Koehne (Kyoto, 1982)
- * 398 *Rosa amblyotis* C.A. Mey. (*Insula Sachalin, Yuzhno-Sakhalinsk*, 1981)
- 399 *Rosa arvensis* Huds.
- 400 *Rosa caesia* Sm. (Stockholm, 1961)
- 401 *Rosa carolina* L. var. *grandiflora* (Baker) Rehder (Glencoe, 1988)
- * 402 *Rosa corymbifera* Borkh. (*Tianschan occidentalis, Chimgan*, 1981)
- 403 *Rosa davurica* Pall. (Vladivostok, 1980)
- 404 *Rosa elegantula* Rolfe (Leiden, 1957)
- 405 *Rosa glauca* Pourr. (Riga, 1963)
- 406 *Rosa helenae* Rehder et E.H. Wilson (Ashgabat, 1957)
- 407 *Rosa* × *highdownensis* H.G.K. Hillier (Reading, 1971)
- * 408 *Rosa laxa* Retz. (Moscow, 1982)
- 409 *Rosa* × *macrantha* hort. non N.H.F. Desp. (Kalmthout, 1961)
- * 410 *Rosa maximowicziana* Regel (*Rossia extremiorientalis, Shamora*, 1980)
- 411 *Rosa multiflora* Thunb. ex Murray (Koshigaya, 1983)
- 412 *Rosa nitida* Willd. (Helsinki, 1992)
- 413 *Rosa obtusifolia* Desv. (Stockholm, 1963)
- 414 *Rosa palustris* Marshall (Philadelphia, 1983)
- * 415 *Rosa rugosa* Thunb. (*Insulae Kurilenses, Kunashiri*, 1981)
- * 416 *Rosa subcollina* (H. Christ) R. Keller (Liège, 1987)
- 417 *Rosa sweginzowii* Koehne (Kalmthout, 1961)

- 418 *Rosa turcica* Rouy (Amsterdam, 1958)
 419 *Rosa virginiana* Mill. (Strasbourg, 1996)
 * 420 *Rosa vosagiaca* Desp. (Hamburg, 1986)
 421 *Rubus idaeus* L. f. *chlorocarpus* Krause (Turku, 2000)
 422 *Rubus occidentalis* L. (South Hadley, 1997)
 * 423 *Rubus odoratus* L. (Montréal, 1970)
 424 *Rubus parviflorus* Nutt. (Estonia, Tihemetsa, 1965)
 A* 425 *Rubus parvifolius* L. (*Insulae Kurilenses, Kunashiri*, 1982)
 426 *Sanguisorba hakusanensis* Makino (Northampton, 1995)
 427 *Sibiraea angustata* Rehder (Praha, 2005)
 * 428 *Sorbaria sorbifolia* (L.) A. Braun (*Rossia extremiorientalis, Svetlaya*, 1977)
 * 429 *Sorbus americana* Marshall (Montréal, 1957)
 430 *Sorbus* cv. *Chinense* Lace (Tallinn, 1998)
 431 *Sorbus commixta* Hedl. (Sapporo, 1967)
 432 *Sorbus commixta* Hedl. cv. *Serotina* (Essen, 1958)
 433 *Sorbus* cv. *Joseph Rock* (Hørsholm, 1991)
 A 434 *Sorbus koehneana* C.K. Schneid. (Minsk, 1985)
 435 *Sorbus* cv. *Kristen Pink* (Tallinn, 2001)
 436 *Sorbus latifolia* (Lam.) Pers.
 437 *Sorbus mougeotii* Soy.-Will. (Stockholm, 1958)
 438 *Sorbus* cv. *Nova* (Tallinn, 2002)
 439 *Sorbus pohuashanensis* (Hance) Hedl. (Hørsholm, 1991)
 A 440 *Sorbus setschwanensis* (C.K. Schneid.) Koehne (Rogów, 2002)
 441 *Sorbus wilfordii* Koehne (Estonia, Luua, 1985)
 * 442 *Spiraea alba* Du Roi (Montréal, 1983)
 * 443 *Spiraea latifolia* (Aiton) Borkh. (Montréal, 1982)
 444 *Spiraea x margaritae* Zabel (Genève, 1965)
 * 445 *Spiraea miyabei* Koidz. (Helsinki, 1994)
 446 *Spiraea rosthornii* Pritz. (Moscow, 1975)

Rubiaceae

- + 447 *Psychotria punctata* Vatke (Düsseldorf, 2001)

Rutaceae

- 448 *Dictamnus albus* L. (Moscow, 1959)
 449 *Dictamnus albus* L. cv. *Albiflorus* (Berlin, 1987)
 450 *Phellodendron amurense* Rupr. (Estonia, Luua, 1957)
 451 *Phellodendron chinense* C.K. Schneid. (Boyce, 1996)
 452 *Phellodendron japonicum* Maxim. (Estonia, Luua, 1957)
 453 *Phellodendron lavalleyi* Dode (Coimbra, 1966)
 * 454 *Phellodendron sachalinense* (F. Schmidt) Sarg. (*Insula Sachalin, Yuzhno-Sakhalinsk*, 1962)
 455 *Ptelea trifoliata* L.
 456 *Ruta graveolens* L.

Saxifragaceae

- 457 *Astilboides tabularis* (Hemsl.) Engl. (Nancy, 1965)
 458 *Rodgersia podophylla* A. Gray (Wien, 1967)
 459 *Saxifraga corymbosa* Boiss. (Marburg, 1997)
 460 *Saxifraga manshuriensis* Kom. (Moscow, 1982)
 461 *Saxifraga pensylvanica* L. (Saarbrücken, 1989)
 462 *Saxifraga stenophylla* Royle (München, 1997)

Schisandraceae

- * 463 *Schisandra chinensis* (Turcz.) Baill. (*Rossia extremiorientalis*, *Okeanskaya*, 1961)

Scrophulariaceae

- + 464 *Tetranema roseum* (M. Martens et Galeotti) Standl. et Steyerm.
 465 *Veronica gentianoides* Vahl (Kirovsk, 1982)
 466 *Veronicastrum sachalinense* (Borissova) T. Yamaz. (Graz, 2004)
 467 *Veronicastrum virginicum* (L.) Farw. var. *sibiricum* (L.) B. Boivin (Innsbruck, 1996)

Solanaceae

- 468 *Lycium barbarum* L. (Beijing, 1957)
 469 *Physochlaina orientalis* (M. Bieb.) G. Don (Moscow, 1990)
 * 470 *Physochlaina orientalis* (M. Bieb.) G. Don (Pyatigorsk, 2004)

Staphyleaceae

- 471 *Staphylea bumalda* DC. (Sapporo, 1967)
 472 *Staphylea pinnata* L.
 * 473 *Staphylea trifolia* L. (East Lansing, 1989)
 * 474 *Staphylea trifolia* L. var. *pauciflora* (Zabel) Rehder (Ottawa, 1967)

Thymelaeaceae

- 475 *Daphne mezereum* L. cv. *Alba* (Tübingen, 1997)

Tiliaceae

- 476 *Tilia amurensis* Rupr.
 477 *Tilia japonica* (Miq.) Simonk. (Kyoto, 1974)
 478 *Tilia mandshurica* Rupr. et Maxim. (Vladivostok, 1978)
 479 *Tilia platyphyllos* Scop. subsp. *cordifolia* (Besser) C.K. Schneid.
 480 *Tilia platyphyllos* Scop. cv. *Vitifolia* (Århus, 1972)
 * 481 *Tilia tomentosa* Moench. (*Moldova, prope Chişinău*, 1981)
 A* 482 *Tilia tomentosa* Moench. (*Moldova, prope Chişinău*, 1981)

Turneraceae

- + 483 *Turnera ulmifolia* L.

Verbenaceae

- + 484 *Clerodendrum speciosissimum* Van Geert ex Morren (Dresden, 1997)
 +* 485 *Stachytarpheta jamaicensis* (L.) Vahl (*Insula Mauritiana*, 2003)

Violaceae

- * 486 *Viola elatior* Fr. (*Estonia, Ridala*, 1998)
 * 487 *Viola hirta* L. (*Estonia, Rannamõisa*, 2006)

Vitaceae

- 488 *Ampelopsis brevipedunculata* (Maxim.) Trautv. var. *maximowiczii* (Regel) Rehder (Altenburg, 1999)

Monocotyledoneae

Alliaceae

- 489 *Allium atropurpureum* Waldst. et Kit.
 490 *Allium brevistylum* S. Watson (Grenoble, 1999)
 491 *Allium caesium* Schrenk (Salaspils, 2006)
 492 *Allium christophii* Trautv.
 493 *Allium crenulatum* Wiegand (Göteborg, 1992)
 494 *Allium cyaneum* Regel (Giessen, 2009)
 495 *Allium falcifolium* Hook. et Arn. (Latvia, Rozula, 2008)
 496 *Allium flavum* L. (AGS, 2008)
 497 *Allium hymenorrhizum* Ledeb. (Leipzig, 1997)
 * 498 *Allium karataviense* Regel subsp. *henrikii* Ruksans (Salaspils, 1998)
 499 *Allium kharputense* Freyn et Sint. (Salaspils, 2003)
 500 *Allium komarowii* Lipsky (Estonia, Tartu, 1999)
 * 501 *Allium kunthianum* Vved. (Salaspils, 1998)
 * 502 *Allium microdictyon* Prokh. (Estonia, Tamsa, 2005)
 503 *Allium obliquum* L.
 504 *Allium orientale* Boiss. (Jena, 1995)
 * 505 *Allium pseudoseravschanicum* Popov et Vved. ex Vved. (Estonia, Tamsa, 2005)
 506 *Allium sarawschanicum* Regel (Samara, 2002)
 507 *Allium scorzonerifolium* Desf. ex DC. var. *xericiense* (Pérez Lara) R. Fern.
 508 *Allium strictum* Schrad. (Edmonton, 1998)
 509 *Allium validum* S. Watson (Wien, 1996)
 510 *Nectaroscordum tripedale* (Trautv.) Traub (Salaspils, 1998)
 511 *Triteleia peduncularis* Lindl. (Berkeley, 2000)

Amaryllidaceae

- 512 *Galanthus platyphyllus* Traub et Moldenke (Lviv, 1978)
 * 513 *Galanthus plicatus* M. Bieb. (*Tauria*, Mt. Ai-Petri, 1965)
 * 514 *Narcissus poeticus* L. subsp. *radiiflorus* (Salisb.) Baker (Salzburg, 1999)
 515 *Narcissus rupicola* Dufour (Wuppertal, 1994)

Anthericaceae

- + 516 *Arthropodium cirrhatum* (G. Forst.) R. Br.

Araceae

- + 517 *Anthurium bakeri* Hook. f. (Montréal, 1961)
 + 518 *Anthurium scandens* (Aubl.) Engl. var. *ovalifolium* Engl.
 519 *Arisaema ciliatum* H. Li var. *liubaense* G. Gusman et Gouda (Estonia, Tamsa, 2006)

Areceaceae

- + 520 *Chamaerops humilis* L. (Barcelona, 1979)
 + 521 *Serenoa repens* (W. Bartram) Small (Bogor, 1997)
 + 522 *Washingtonia robusta* H. Wendl. (New York, 1961)

Asphodelaceae

- 523 *Eremurus robustus* (Regel) Regel (Estonia, Tamsa, 2007)
 524 *Eremurus stenophyllus* (Boiss. et Buhse) Baker (Lublin, 2003)
 * 525 *Paradisea liliastrum* (L.) Bertol. (Pavia, 2002)

Bromeliaceae

- + 526 *Acanthostachys strobilacea* (Schult. et Schult. f.) Klotzsch
 + 527 *Puya mirabilis* (Mez) L.B. Sm. (Gent, 1976)

Colchicaceae

- 528 *Colchicum szovitsii* Fisch. et C.A. Mey. (Salaspils, 2001)
 + 529 *Gloriosa superba* L.

Commelinaceae

- + 530 *Palisota barteri* Hook. f.
 + 531 *Tradescantia sillamontana* Matuda (Salaspils, 1980)
 + 532 *Tradescantia spathacea* Sw.

Convallariaceae

- * 533 *Polygonatum multiflorum* (L.) All. (Estonia, Puhtu, 2000)

Costaceae

- + 534 *Costus speciosus* (J. König) Sm. (Köln, 1971)

Cyperaceae

- + 535 *Kyllinga monocephala* Rottb. (Stockholm, 1972)

Dracaenaceae

- + 536 *Cordyline fruticosa* (L.) A. Chev.

Heliconiaceae

- + 537 *Heliconia stricta* Huber (Göteborg, 2003)

Hostaceae

- 538 *Hosta minor* (Baker) Nakai (Estonia, Tamsa, 1999)
 539 *Hosta sieboldii* (Paxton) J.W. Ingram (Tartu, 2005)

Hyacinthaceae

- 540 *Ornithogalum sintenisii* Freyn (Salaspils, 1987)
 541 *Scilla mischtschenkoana* Grossh.

Iridaceae

- * 542 *Crocus abantensis* T. Baytop et B. Mathew (Latvia, Rozula, 2008)
 543 *Crocus danfordiae* Maw (Praha, 2004)
 + 544 *Iris foetidissima* L. (Samoëns, 2010)
 545 *Iris graminea* L.
 * 546 *Iris pseudacorus* L. (Estonia, Kloostrimetsa, 2004)
 547 *Iris setosa* Pall. ex Link (Toyama, 2004)
 548 *Iris versicolor* L. (Jena, 1997)

Liliaceae

- 549 *Erythronium caucasicum* Woronow (Stavropol, 1964)
 * 550 *Erythronium dens-canis* L. (Carpates orientales, Lipcha, 1977)
 551 *Erythronium grandiflorum* Pursh (Oslo, 1993)
 552 *Erythronium sibiricum* (Fisch. et C.A. Mey.) Krylov (St. Petersburg, 1983)
 * 553 *Fritillaria armena* Boiss. (Praha, 2002)
 * 554 *Fritillaria graeca* Boiss. et Spurner subsp. *thessala* (Boiss.) Rix (Paris, 2002)

- 555 *Fritillaria gussichiae* (Degen et Dörfl.) Rix (Würzburg, 2005)
 556 *Fritillaria meleagroides* Patrin ex Schult. f.
 557 *Fritillaria michailovskyi* Fomin
 * 558 *Fritillaria raddeana* Regel (Salaspils, 1998)
 559 *Fritillaria tubiformis* Gren. et Godr. (Rostock, 1993)
 560 *Fritillaria tubiformis* Gren. et Godr. subsp. *moggridgei* (Boiss. et Reut. ex Planch.)
 Rix (Göteborg, 2006)
 561 *Lilium albanicum* Griseb. (Göteborg, 1997)
 562 *Lilium carniolicum* Bernh. ex W.D.J. Koch (Klagenfurt, 2003)
 563 *Lilium kesselringianum* Miscz. (Moscow, 2001)
 564 *Lilium* × *marhan* Baker (Latvia, Rozula, 2001)
 565 *Lilium martagon* L. var. *albiflorum* Vuk. (Cluj-Napoca, 2002)
 566 *Lilium martagon* L. var. *album* Weston (St. Gallen, 1996)
 567 *Lilium martagon* L. var. *cattaniae* Vis. (St. Andrews, 2001)
 568 *Lilium martagon* L. var. *mecsekense* Soó (Bayreuth, 1997)
 569 *Lilium pomponium* L. (St. Andrews, 1994)
 570 *Lilium regale* E.H. Wilson
 571 *Tulipa neustruevae* Pobed. (München, 2001)
 572 *Tulipa patens* C. Agardh ex Schult. f. (Zhezkazgan, 1998)
- Philesiaceae**
- +* 573 *Eustrephus latifolius* R. Br. (*Australiana*, 2003)
- Phormiaceae**
- + 574 *Dianella caerulea* Sims (St. Petersburg, 1977)
- Poaceae**
- 575 *Zea mays* L. cv. Strawberry Corn (Vilnius, 2011)
- Zingiberaceae**
- + 576 *Hedychium coccineum* Buch.-Ham. (Jena, 1972)
 + 577 *Hedychium gardnerianum* Sheppard ex Ker-Gawl.

Seminum collectores: Anu Birnbaum, Helle Dikker, Anne Jaakson, Jaana Jagomägi, Jaan Mettik, Ly Mik, Ave Visnapuu, Tiia Jaanus, Mari Seidelberg, Heli Russak, Krista Kirotar, Mare Raidma, Silje Janson, Anu Kaur, Ain Vammus, Marju Zirk

II *Semina et spora plantarum spontaneorum in diversis regionibus Estoniae collecta*

PTERIDOPHYTA

Thelypteridaceae

- 578 *Thelypteris palustris* Schott – along ditch, Koitjärve, Harju County, N Estonia, 59°23'07" N 025°42'06" E 22.08.2013 SJ

SPERMATOPHYTA

GYMNOSPERMAE

Cupressaceae

- 579 *Juniperus communis* L. – *Arctostaphylos* juniper shrubland (*Arctostaphylo–Juniperetum*), Rumpo, Vormsi Island, NW Estonia 58°57'28" N 023°17'37" E 06.09.2013 AK

ANGIOSPERMAE

Dicotyledoneae

Aceraceae

- 580 *Pilosella officinarum* F.W. Schultz et Sch. Bip. – dry alvar grassland (*Arrhenatheretum elatii*), Karala, Saaremaa Island, W Estonia 58°15'47" N 021°52'30" E 04.07.2013 MR

Apiaceae

- 581 *Aegopodium podagraria* L. – poor paludified grassland (*Geranio palustris–Filipenduletum*), Kloostrimetsa, Tallinn, N Estonia 59°27'52" N 024°53'13" E 17.10.2013 MR
- 582 *Anthriscus sylvestris* (L.) Hoffm. – suprasaline coastal grassland (*Arrhenatheretum elatii*), Karala, Saaremaa Island, W Estonia 58°15'47" N 021°52'28" E 04.07.2013 MR
- 583 *Anthriscus sylvestris* (L.) Hoffm. – fresh boreal grassland (*Potentillo erectae–Deshampsietum cespitosae*), Lääneotsa, Prangli Island, N Estonia 59°37'04" N 024°59'04" E 31.07.2013 MR
- 584 *Daucus carota* L. – dry alvar grassland (*Trifolio montani–Filipenduletum vulgaris*), Aandu, Rapla County, NW Estonia 59°09'25" N 024°44'42" E 03.10.2013 UL
- 585 *Pastinaca sativa* L. subsp. *sylvestris* Rouy et E.G. Camus – naturalized, pebbly seashore, Kalamaja, Tallinn, N Estonia 59°26'57" N 024°44'39" E 20.08.2013 MR

Asteraceae

- 586 *Achillea millefolium* L. – pebbly seashore, Kalamaja, Tallinn, N Estonia 59°27'09" N 024°44'13" E 20.08.2013 MR
- 587 *Arctium tomentosum* Mill. – wasteland, Uuslinna, Tallinn, N Estonia 59°26'17" N 024°48'21" E 20.09.2013 OA
- 588 *Arctium tomentosum* Mill. – pebbly seashore, Kalaranna, Tallinn, N Estonia 59°26'57" N 024°44'40" E 20.08.2013 MR

- 589 *Artemisia campestris* L. – roadside, Kloostrimetsa, Tallinn, N Estonia 59°27'53" N 024°53'08" E 17.09.2013 MR
- 590 *Bellis perennis* L. – naturalized, arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'08" N 024°52'49" E 07.08.2013 MR
- 591 *Cirsium acaule* Scop. – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Aandu, Rapla County, NW Estonia 59°09'40" N 024°44'40" E 10.09.2013 UL
- 592 *Eupatorium cannabinum* L. – floodplain alder (*Alnus incana*) forest (*Humulo–Alnetum incanae*), Sonni, Rapla County, W Estonia 58°55'06" N 025°10'32" E 15.10.2013 OA, KK
- 593 *Galinsoga ciliata* (Raf.) S.F. Blake – naturalized, arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'09" N 024°52'41" E 18.09.2013 MR
- 594 *Hypochoeris maculata* L. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59°28'07" N 024°52'13" E 05.08.2013 MR
- 595 *Inula salicina* L. – dry alvar grassland (*Trifolio montani–Filipenduletum vulgaris*), Kohatu, Rapla County, NW Estonia 58°57'31" N 024°18'06" E 03.10.2013 OA
- 596 *Lapsana communis* L. – roadside, Kloostrimetsa, Tallinn, N Estonia 59°28'14" N 024°52'39" E 05.08.2013 MR
- 597 *Mycelis muralis* (L.) Dumort. – roadside, Kloostrimetsa, Tallinn, N Estonia 59°28'09" N 024°52'28" E 05.08.2013 MR
- 598 *Senecio viscosus* L. – naturalized, sandy seashore, Lääneotsa, Prangli Island, N Estonia 59°37'04" N 024°59'58" E 31.07.2013 MR
- 599 *Senecio vulgaris* L. – wasteland, Kalaranna, Tallinn, N Estonia 59°26'48" N 024°44'47" E 20.08.2013 MR
- 600 *Sonchus asper* (L.) Hill – wasteland, Kloostrimetsa, Tallinn, N Estonia 59°28'05" N 024°53'16" E 05.08.2013 OA, MR
- 601 *Sonchus oleraceus* L. – roadside, Järise, Lääne County, W Estonia 58°39'43" N 023°41'36" E 15.07.2013 MR
- 602 *Tragopogon pratensis* L. – poor paludified grassland (*Geranio palustris–Filipenduletum*), Kloostrimetsa, Tallinn, N Estonia 59°27'51" N 024°53'13" E 28.06.2013 MR
- 603 *Tussilago farfara* L. – suprasaline coastal grassland (*Festucetum rubrae*), Kelnase, Prangli Island, N Estonia 59°38'16" N 025°00'41" E 31.05.2013 MR
- Berberidaceae**
- 604 *Berberis vulgaris* L. – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Kohatu, Rapla County, NW Estonia 58°57'34" N 024°18'02" E 03.10.2013 SJ
- Betulaceae**
- 605 *Alnus incana* (L.) Moench – floodplain alder (*Alnus incana*) forest (*Humulo–Alnetum incana*), Kloostrimetsa, Tallinn, N Estonia 59°28'00" N 024°52'57" E 17.10.2013 MR

- 606 *Alnus incana* (L.) Moench – floodplain alder (*Alnus incana*) forest (*Humulo–Alnetum incana*), Kloostrimetsa, Tallinn, N Estonia 59°27'59" N 024°52'49" E 24.10.2013 MR
- 607 *Alnus incana* (L.) Moench – fresh boreo-nemoral *Aegopodium* alder (*Alnus incana*) forests (*Aegopodio–Alnetum incanae*), Sõjamäe, Tallinn, N Estonia 59°25'36" N 024°52'27" E 06.11.2013 KK, MR
- 608 *Betula nana* L. – transitional bog pine (*Pinus sylvestris*) forest (*Vaccinio myrtilli–Pinetum*), Pikavere, Harju County, N Estonia 59°18'08" N 025°06'27" E 24.09.2013 SJ, MR

Boraginaceae

- 609 *Myosotis sylvatica* Ehrh. ex Hoffm. – fresh boreo-nemoral *Aegopodium* spruce (*Picea abies*) forests (*Aegopodio–Piceetum*), Viidu, Saaremaa Island, W Estonia 58°17'50" N 022°06'07" E 03.07.2013 MR

Brassicaceae

- 610 *Barbarea vulgaris* R. Br. subsp. *arcuata* (Opiz ex J. Presl et C. Presl) M. Loehr – sandy seashore, Suur-Paljassar, Tallinn, N Estonia 59°28'51" N 024°41'42" E 21.07.2013 OA, AK
- 611 *Crambe maritima* L. – sandy seashore, Saxby, Vormsi Island, NW Estonia 59°01'33" N 023°07'01" E 06.09.2013 VK
- 612 *Erophila verna* (L.) DC. – dry boreal heath grassland (*Galio very–Thymetum*), Lääneotsa, Prangli Island, N Estonia 59°37'10" N 024°59'59" E 31.05.2013 MR
- 613 *Erysimum cheiranthoides* L. – wasteland, Uuslinna, Tallinn, N Estonia 59°26'17" N 024°48'21" E 20.10.2013 OA
- 614 *Sisymbrium altissimum* L. – naturalized, sandy seashore, Suur-Paljassar, Tallinn, N Estonia 59°28'51" N 024°41'42" E 21.07.2013 OA, AK
- 615 *Thlaspi arvense* L. – wasteland, Kalamaja, Tallinn, N Estonia 59°26'52" N 024°44'25" E 20.08.2013 MR

Campanulaceae

- 616 *Campanula latifolia* L. – naturalized, Kernu Manor Park, Harju County, NW Estonia 59°09'31" N 024°29'24" E 18.08.2013 OA
- 617 *Jasione montana* L. – boreal heath lichen (*Cladina*) pine (*Pinus sylvestris*) forest (*Cladino–Pinetum*), Kelnase, Prangli Island, N Estonia 59°38'19" N 024°59'38" E 31.07.2013 RA, MR

Cannabaceae

- 618 *Humulus lupulus* L. – floodplain alder (*Alnus incana*) forest (*Humulo–Alnetum incanae*), Kloostrimetsa, Tallinn, N Estonia 59°27'53" N 024°53'11" E 17.10.2013 MR

Caprifoliaceae

- 619 *Sambucus racemosa* L. – naturalized, fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Kohatu, Rapla County, NW Estonia 59°00'42" N 024°39'30" E 23.08.2013 MR

- 620 *Viburnum opulus* L. – fresh boreo-nemoral *Aegopodium spruce* (*Picea abies*) forests (*Aegopodio–Piceetum*), Raela, Rapla County, NW Estonia 58°57'12" N 024°45'46" E 14.10.2013 MR

Caryophyllaceae

- 621 *Gypsophila fastigiata* L. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Liiva, Tallinn, N Estonia 59°22'34" N 024°44'17" E 26.07.2013 OA, KK
- 622 *Myosoton aquaticum* (L.) Moench – arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'14" N 024°52'55" E 02.08.2013 MR
- 623 *Silene dioica* (L.) Clairv. – dry boreal *Vaccinium vitis-idaea* oak–pine (*Quercus robur–Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Quercu–Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59°28'10" N 024°52'52" E 18.09.2013 MR
- 624 *Silene nutans* L. – gray (*Galio veri–Thymetum*) dune, Kadriorg, Tallinn, N Estonia 59°26'36" N 024°47'28" E 02.07.2013 KKA, MR
- 625 *Silene nutans* L. – dry alvar grassland (*Arrhenatheretum elatii*), Karala, Saaremaa Island, W Estonia 58°15'47" N 021°52'30" E 04.07.2013 MR
- 626 *Silene nutans* L. – dry boreal grassland (*Festuco rubrae–Anthoxanthesetum*), Suur-Paljassar, Tallinn, N Estonia 59°29'04" N 024°41'23" E 21.07.2013 OA, AK
- 627 *Stellaria media* (L.) Vill. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'04" N 024°53'08" E 16.10.2013 MR

Cistaceae

- 628 *Helianthemum nummularium* (L.) Mill. non Grosser – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59°28'08" N 024°52'14" E 05.08.2013 MR

Clusiaceae

- 629 *Hypericum perforatum* L. – dry boreal grassland (*Deschampsietum flexuosae*), Kloostrimetsa, Tallinn, N Estonia 59°28'13" N 024°52'50" E 03.10.2013 MR

Convolvulaceae

- 630 *Calystegia sepium* (L.) R. Br. – floodplain alder (*Alnus incana*) forest (*Humulo–Alnetum incanae*), Kloostrimetsa, Tallinn, N Estonia 59°28'02" N 024°52'33" E 06.09.2013 MR
- 631 *Cuscuta europaea* L. – on *Paeonia*, Kloostrimetsa, Tallinn, N Estonia 59°28'08" N 024°52'47" E 05.08.2013 OA, MR

Dipsacaceae

- 632 *Knautia arvensis* (L.) Coult. – dry boreal grassland (*Deschampsietum flexuosae*), Kloostrimetsa, Tallinn, N Estonia 59°28'14" N 024°52'49" E 05.08.2013 MR

Ericaceae

- 633 *Arctostaphylos uva-ursi* (L.) Spreng. – alvar *Arctostaphylos* pine (*Pinus sylvestris*) forest (*Arctostaphylo–Pinetum*), Kõrvetaguse, Rapla County, NW Estonia 58°58'45" N 024°34'59" E 23.08.2013 SJ
- 634 *Arctostaphylos uva-ursi* (L.) Spreng. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Koitjärve, Harju County, N Estonia 59°23'16" N 025°41'59" E 22.08.2013 RA, SJ

- 635 *Vaccinium myrtillus* L. – poor paludified *Polytrichum–Vaccinium myrtillus* pine (*Pinus sylvestris*) forest (*Polytricho–Vaccinio–Pinetum*), Lääneotsa, Prangli Island, N Estonia 59°37'10" N 024°59'51" E 31.08.2013 MR
- 636 *Vaccinium myrtillus* L. – poor paludified *Vaccinium uliginosum* pine (*Pinus sylvestris*) forest (*Vaccinio uliginosi–Pinetum*), Leistu, Harju County, N Estonia 59°09'32" N 025°20'56" E 13.08.2013 IM
- 637 *Vaccinium uliginosum* L. – poor paludified *Vaccinium uliginosum* pine (*Pinus sylvestris*) forest (*Vaccinio uliginosi–Pinetum*), Leistu, Harju County, N Estonia 59°09'36" N 025°20'54" E 26.07.2013 IM
- 638 *Vaccinium vitis-idaea* L. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Koitjärve, Harju County, N Estonia 59°23'35" N 025°41'15" E 22.08.2013 MR

Fabaceae

- 639 *Anthyllis vulneraria* L. s.str. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Liiva, Tallinn, N Estonia 59°22'35" N 024°44'11" E 26.07.2013 OA, KK
- 640 *Galega orientalis* Lam. – naturalized, Orgita Manor Park, Orgita, Rapla County, NW Estonia 58°55'14" N 024°27'13" E 16.09.2013 OA, MR
- 641 *Lathyrus sylvestris* L. – roadside, Sonni, Rapla County, W Estonia 58°54'55" N 025°10'47" E 15.10.2013 OA
- 642 *Medicago lupulina* L. – roadside, Suur-Paljassaar, Tallinn, N Estonia 59°28'35" N 024°42'30" E 21.07.2013 OA, AK
- 643 *Melilotus albus* Medik. – naturalized, roadside, Rumpo, Vormsi Island, NW Estonia 58°58'58" N 023°14'44" E 05.09.2013 OA, KK
- 644 *Vicia sepium* L. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Liiva, Tallinn, N Estonia 59°22'35" N 024°44'10" E 26.07.2013 OA, KK

Lamiaceae

- 645 *Origanum vulgare* L. – fresh boreo-nemoral grassland (*Festuco rubrae–Deschampsietum caespitosae*), Anelema, Pärnu County, W Estonia 58°37'53" N 024°33'45" E 05.09.2013 SJ
- 646 *Prunella vulgaris* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'09" N 024°52'57" E 27.08.2013 MR
- 647 *Stachys sylvatica* L. – Orgita Manor Park, Orgita, Rapla County, NW Estonia 58°55'15" N 024°27'15" E 16.09.2013 MR

Lythraceae

- 648 *Lythrum salicaria* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'06" N 024°52'54" E 01.10.2013 MR

Onagraceae

- 649 *Oenothera biennis* L. – naturalized, wasteland, Veerenni, Tallinn, N Estonia 59°25'02" N 024°45'05" E 03.12.2013 KK, MR

Oxalidaceae

- 650 *Oxalis acetosella* L. – fresh boreo-nemoral *Aegopodium spruce* (*Picea abies*) forests (*Aegopodio–Piceetum*), Viidu, Saaremaa Island, W Estonia 58°17'50" N 022°06'07" E 03.07.2013 MR, VK

Papaveraceae

- 651 *Papaver monanthum* Trautv. – naturalized, arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'10" N 024°52'41" E 17.07.2013 MR

Parnassiaceae

- 652 *Parnassia palustris* L. – rich fen with *Betula pubescens* (*Schoeno–Drepanocladetum*), Pikavere, Harju County, N Estonia 59°18'09" N 025°07'05" E 24.09.2013 SJ, MR

Plantaginaceae

- 653 *Plantago major* L. – roadside, Kalaranna, Tallinn, N Estonia 59°26'56" N 024°44'38" E 20.08.2013 MR

Polygonaceae

- 654 *Fallopia dumetorum* (L.) Holub – arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'07" N 024°53'06" E 03.10.2013 MR
- 655 *Rumex longifolius* DC. – pond shore, Kloostrimetsa, Tallinn, N Estonia 59°28'17" N 024°52'53" E 03.10.2013 MR

Primulaceae

- 656 *Primula veris* L. – fresh boreo-nemoral grassland (*Carici pallescentis–Scorzoneretum*), Lipstu, Rapla County, NW Estonia 58°59'38" N 024°38'36" E 30.08.2013 MR

Pyrolaceae

- 657 *Moneses uniflora* (L.) A. Gray – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Liiva, Tallinn, N Estonia 59°22'35" N 024°44'12" E 26.07.2013 OA, KK
- 658 *Pyrola rotundifolia* L. – drained peatland *Vaccinium myrtillus* pine (*Pinus sylvestris*) forest (*Vaccinio myrtilli–Pinetum*), Pikavere, Harju County, N Estonia 59°18'14" N 025°06'57" E 23.09.2013 SJ, MR

Ranunculaceae

- 659 *Actaea spicata* L. – Vaimõisa Manor Park, Vaimõisa, Rapla County, NW Estonia 58°58'59" N 024°27'09" E 16.09.2013 KK, MR
- 660 *Actaea spicata* L. – Lelle Manor Park, Põllu, Rapla County, NW Estonia 58°50'45" N 024°57'18" E 10.09.2013 OA, AK, KK
- 661 *Aquilegia vulgaris* L. – Orgita Manor Park, Orgita, Rapla County, NW Estonia 58°55'14" N 024°27'13" E 16.09.2013 KK, MR
- 662 *Aquilegia vulgaris* L. – dry alvar grassland (*Trifolio montani–Filipenduletum vulgaris*), Anelema, Pärnu County, SW Estonia 58°37'50" N 024°34'08" E 05.09.2013 SJ
- 663 *Pulsatilla pratensis* (L.) Mill. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Laiaküla, Tallinn, N Estonia 59°28'08" N 024°54'31" E 27.06.2013 SJ

- 664 *Pulsatilla pratensis* (L.) Mill. – dry boreal grassland (*Deschampsietum flexuosae*), Kloostrimetsa, Tallinn, N Estonia 59°28'13" N 024°52'50" E 26.06.2013 MR
- 665 *Thalictrum flavum* L. – dry alvar grassland (*Trifolio montani–Filipenduletum vulgaris*), Aandu, Rapla County, NW Estonia 59°09'53" N 024°44'45" E 03.10.2013 UL

Rhamnaceae

- 666 *Frangula alnus* Mill. – roadside, Tuhala, Harju County, N Estonia 59°13'17" N 024°59'21" E 12.09.2013 AK
- 667 *Frangula alnus* Mill. – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Tõrma, Rapla county, NW Estonia 59°00'25" N 024°41'07" E 30.08.2013 KK, MR
- 668 *Rhamnus cathartica* L. – fresh boreo-nemoral *Aegopodium* spruce (*Picea abies*) forests (*Aegopodio–Piceetum*), Raela, Rapla County, NW Estonia 58°57'12" N 024°45'46" E 14.10.2013 KK, MR
- 669 *Rhamnus cathartica* L. – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Kohatu, Rapla County, NW Estonia 58°57'34" N 024°18'02" E 03.10.2013 OA

Rosaceae

- 670 *Agrimonia eupatoria* L. – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Aandu, Rapla County, NW Estonia 59°09'35" N 024°44'48" E 13.09.2013 UL
- 671 *Agrimonia eupatoria* L. – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Palamulla, Rapla County, NW Estonia 59°00'46" N 024°39'28" E 23.08.2013 MR
- 672 *Agrimonia eupatoria* L. – *Arctostaphylos* juniper shrubland (*Arctostaphylo–Juniperetum*), Kohatu, Rapla County, NW Estonia 58°57'34" N 024°18'02" E 03.10.2013 SJ
- 673 *Cotoneaster canescens* Vestergr. ex B. Hulmö – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Palamulla, Rapla County, NW Estonia 59°00'42" N 024°39'30" E 23.08.2013 SJ
- 674 *Cotoneaster canescens* Vestergr. ex B. Hulmö – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Palamulla, Rapla County, NW Estonia 59°00'46" N 024°39'28" E 23.08.2013 SJ
- 675 *Filipendula ulmaria* (L.) Maxim. – fresh boreo-nemoral *Aegopodium* spruce (*Picea abies*) forests (*Aegopodio–Piceetum*), Raela, Rapla County, NW Estonia 58°57'12" N 024°45'46" E 14.10.2013 MR
- 676 *Filipendula ulmaria* (L.) Maxim. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'09" N 024°52'57" E 03.10.2013 MR
- 677 *Fragaria vesca* L. – fresh boreo-nemoral pine (*Pinus sylvestris*) forest (*Hepatico–Pinetum*), Leistu, Harju County, N Estonia 59°09'19" N 025°20'08" E 11.07.2013 IM

- 678 *Geum rivale* L. – dry boreal *Vaccinium vitis-idaea* oak–pine (*Quercus robur*–*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo*–*Quercu*–*Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59°28'14" N 024°52'53" E 26.09.2013 MR
- 679 *Geum rivale* L. – roadside, Suur-Paljassaar, Tallinn, N Estonia 59°29'01" N 024°41'25" E 21.07.2013 OA, AK
- 680 *Geum urbanum* L. – fresh boreo-nemoral grassland (*Carici pallescentis*–*Scorzoneretum*), Lipstu, Rapla County, NW Estonia 58°59'38" N 024°38'36" E 30.08.2013 MR
- 681 *Geum urbanum* L. – roadside, Kloostrimetsa, Tallinn, N Estonia 59°27'38" N 024°51'22" E 05.08.2013 MR
- 682 *Padus avium* Mill. (= *Prunus padus* L.) – roadside, Anelema, Pärnu County, SW Estonia 58°37'52" N 024°34'16" E 02.07.2013 SJ
- 683 *Potentilla anserina* L. – pebbly seashore, Kelnase, Prangli Island, N Estonia 59°38'33" N 024°59'30" E 31.07.2013 MR
- 684 *Potentilla argentea* L. – cemetery, Lääneotsa, Prangli Island, N Estonia 59°37'10" N 024°59'56" E 30.09.2013 MR
- 685 *Potentilla palustris* (L.) Scop. – pond, Kloostrimetsa, Tallinn, N Estonia 59°28'17" N 024°52'54" E 15.08.2013 MR
- 686 *Rosa coriifolia* Fr. – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio*–*Pinetum*), Aandu, Rapla County, NW Estonia 59°09'36" N 024°45'02" E 24.09.2013 UL
- 687 *Rosa majalis* Herrm. – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio*–*Pinetum*), Kohatu, Rapla County, NW Estonia 59°00'42" N 024°39'30" E 23.08.2013 SJ
- 688 *Rosa majalis* Herrm. – roadside, Lääneotsa, Prangli Island, N Estonia 59°37'17" N 025°00'07" E 31.08.2013 MR
- 689 *Rubus caesius* L. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo*–*Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59°28'03" N 024°52'20" E 06.09.2013 MR
- 690 *Rubus chamaemorus* L. – treed hummock bog (*Calluno-Sphagnetum fuscū*), Laane, Harju County, N Estonia 59°09'25" N 025°24'43" E 19.07.2013 IM
- 691 *Rubus idaeus* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'09" N 024°52'46" E 02.08.2013 MR
- 692 *Rubus saxatilis* L. – roadside, Kloostrimetsa, Tallinn, N Estonia 59°28'04" N 024°52'21" E 05.08.2013 MR
- 693 *Rubus saxatilis* L. – fresh boreo-nemoral grassland (*Festuco rubrae*–*Deschampsietum caespitosae*), Anelema, Pärnu County, W Estonia 58°37'50" N 024°34'22" E 05.09.2013 SJ
- 694 *Sorbus aucuparia* L. subsp. *moravica* (Zengerl.) Á. Löve – brown (*Empetretum*) dune, Lääneotsa, Prangli Island, N Estonia 59°37'02" N 024°59'24" E 30.09.2013 MR

Rubiaceae

- 695 *Galium verum* L. – dry alvar grassland (*Trifolio montani–Filipenduletum vulgare*), Leedri, Saaremaa Island, W Estonia 58°16'55" N 022°00'33" E 08.10.2013 MR

Scrophulariaceae

- 696 *Pseudolysimachion longifolium* (L.) Opiz subsp. *longifolium* – dry boreal grassland (*Deschampsietum flexuosae*), Kloostrimetsa, Tallinn, N Estonia 59°28'12" N 024°52'50" E 20.09.2013 MR
- 697 *Pseudolysimachion longifolium* (L.) Opiz subsp. *longifolium* – fresh alvar grassland (*Deschampsietum cespitosae*), Liivamäe, Harju County, N Estonia 59°26'55" N 024°58'19" E 03.09.2013 OA
- 698 *Rhinanthus minor* L. s.l. – fresh boreal grassland (*Potentillo erectae–Deschampsietum cespitosae*), Suur-Paljassar, Tallinn, N Estonia 59°28'46" N 024°41'35" E 21.07.2013 OA, AK
- 699 *Scrophularia nodosa* L. – wasteland, Uuslinna, Tallinn, N Estonia 59°26'17" N 024°48'21" E 20.09.2013 OA
- 700 *Verbascum nigrum* L. – fresh boreo-nemoral *Aegopodium spruce* (*Picea abies*) forests (*Aegopodio–Piceetum*), Raela, Rapla County, NW Estonia 58°57'12" N 024°45'46" E 14.10.2013 MR
- 701 *Verbascum nigrum* L. – poor paludified grassland (*Geranio palustris–Filipenduletum*), Kloostrimetsa, Tallinn, N Estonia 59°27'52" N 024°53'13" E 17.10.2013 MR

Solanaceae

- 702 *Hyoscyamus niger* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'08" N 024°52'49" E 16.10.2013 MR
- 703 *Solanum dulcamara* L. – ditch, Pikavere, Harju County, N Estonia 59°18'14" N 025°07'10" E 23.09.2013 SJ

Monocotyledoneae**Convallariaceae**

- 704 *Convallaria majalis* L. – dry boreal *Vaccinium vitis-idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Kloostrimetsa, Tallinn, N Estonia 59°28'13" N 024°52'51" E 20.09.2013 MR
- 705 *Polygonatum odoratum* (Mill.) Druce – fresh boreo-nemoral *Hepatica* birch (*Betula pendula*) forest (*Hepatico–Betuletum*), Viidu, Saaremaa Island, W Estonia 58°17'39" N 022°06'09" E 08.10.2013 MR, VK
- 706 *Polygonatum odoratum* (Mill.) Druce – alvar *Arctostaphylos* pine (*Pinus sylvestris*) forest (*Arctostaphylo–Pinetum*), Kõrvetaguse, Rapla County, NW Estonia 58°58'45" N 024°34'59" E 23.08.2013 SJ

Cyperaceae

- 707 *Schoenoplectus lacustris* (L.) Palla – rich fen (*Drepanoclado–Schoenetum ferruginei*), Rumpo, Vormsi Island, NW Estonia 58°58'58" N 023°14'44" E 05.07.2013 OA, KK

Juncaceae

- 708 *Luzula multiflora* (Ehrh.) Lej. – boreal heath lichen (*Cladina*) pine (*Pinus sylvestris*) forest (*Cladino–Pinetum*), Kelnase, Prangli Island, N Estonia 59°38'21" N 024°59'42" E 31.07.2013 MR

Liliaceae

- 709 *Lilium martagon* L. – naturalized, Vaimõisa Manor Park, Vaimõisa, Rapla County, NW Estonia 58°58'59" N 024°27'09" E 16.09.2013 KK, MR

Melanthiaceae

- 710 *Tofieldia calyculata* (L.) Wahlenb. – rich fen with *Betula pubescens* (*Schoeno–Drepanocladetum*), Pikavere, Harju County, N Estonia 59°18'09" N 025°07'05" E 24.09.2013 SJ, MR, RA

Orchidaceae

- 711 *Epipactis palustris* (L.) Crantz – rich fen (*Molinietum caeruleae*), Koitjärve, Harju County, N Estonia, 59°22'59" N 025°42'07" E 22.08.2013 MR

Poaceae

- 712 *Alopecurus arundinaceus* Poir. – suprasaline coastal grassland (*Festucetum rubrae*), Kelnase, Prangli Island, N Estonia 59°38'40" N 024°58'15" E 31.07.2013 MR
- 713 *Alopecurus pratensis* L. – roadside, Suur-Paljassaar, Tallinn, N Estonia 59°29'01" N 024°41'25" E 21.07.2013 OA, AK
- 714 *Anthoxanthum odoratum* L. – dry boreal grassland (*Festuco rubrae–Anthoxanthetum*) with *Juniperus communis*, Lääneotsa, Prangli Island, N Estonia 59°37'10" N 024°59'59" E 31.07.2013 MR
- 715 *Arrhenatherum elatius* (L.) P. Beauv. ex J. Presl et C. Presl – suprasaline coastal grassland (*Arrhenatheretum elatii*), Karala, Saaremaa Island, W Estonia 58°15'48" N 021°52'28" E 04.07.2013 OA
- 716 *Bromus inermis* Leyss. – roadside, Aandu, Rapla County, NW Estonia 59°09'17" N 024°43'41" E 13.09.2013 UL
- 717 *Deschampsia cespitosa* (L.) P. Beauv. – roadside, Aandu, Rapla County, NW Estonia 59°09'52" N 024°44'55" E 25.08.2013 UL
- 718 *Elymus caninus* (L.) L. – fresh alvar *Calamagrostis* spruce (*Picea abies*) forest (*Calamagrostio–Piceetum*), Aandu, Rapla County, NW Estonia 59°09'27" N 024°44'11" E 25.08.2013 UL
- 719 *Festuca gigantea* (L.) Vill. – fresh alvar *Calamagrostis* spruce (*Picea abies*) forest (*Calamagrostio–Piceetum*), Aandu, Rapla County, NW Estonia 59°09'27" N 024°44'08" E 25.08.2013 UL
- 720 *Festuca rubra* L. – roadside, Suur-Paljassaar, Tallinn, N Estonia 59°28'31" N 024°41'47" E 21.07.2013 OA, AK
- 721 *Leymus arenarius* (L.) Hochst. – gray (*Koelerio–Festucetum polesicae*) dune, Kelnase, Prangli Island, N Estonia 59°38'17" N 025°00'08" E 31.07.2013 RA
- 722 *Milium effusum* L. – fresh alvar *Calamagrostis* spruce (*Picea abies*) forest (*Calamagrostio–Piceetum*), Aandu, Rapla County, NW Estonia 59°09'27" N 024°44'08" E 25.08.2013 UL

- 723 *Molinia caerulea* (L.) Moench – fresh alvar *Calamagrostis* pine (*Pinus sylvestris*) forest (*Calamagrostio–Pinetum*), Kõrvetaguse, Rapla County, NW Estonia 58°58'01" N 024°35'20" E 23.08.2013 MR
- 724 *Phragmites australis* (Cav.) Trin. ex Steud. – seashore, Pärnu, Pärnu County, SW Estonia 58°22'40" N 024°28'45" E 25.09.2013 SJ
- 725 *Sesleria caerulea* (L.) Ard. – fresh boreo-nemoral grassland (*Carici pallescentis–Scorzoneretum*), Karala, Saaremaa Island, W Estonia 58°16'47" N 021°54'58" E 04.07.2013 OA
- Trilliaceae**
- 726 *Paris quadrifolia* L. – arboretum, Kloostrimetsa, Tallinn, N Estonia 59°28'02" N 024°52'41" E 21.08.2013 MR
- 727 *Paris quadrifolia* L. – dry boreal *Vaccinium vitis–idaea* pine (*Pinus sylvestris*) forest (*Vaccinio vitis-idaeo–Pinetum*), Koitjärve, Harju County, N Estonia, 59°23'05" N 025°41'57" E 22.08.2013 MR

III Semina plantarum in diversis regionibus

Estoniae cultarum

SPERMATOPHYTA

GYMNOSPERMAE

Pinaceae

- 728 *Abies balsamea* (L.) Mill. – Jädivere Manor Park, Jädivere, Rapla County, W Estonia 58°41'53" N 024°26'21" E 27.09.2013 OA

ANGIOSPERMAE

Dicotyledoneae

Rosaceae

- 729 *Crataegus chrysocarpa* Ashe var. *phoenicea* E.J. Palmer – Velise Manor Park, Velisemõisa, Rapla County, W Estonia 58°46'26" N 024°28'17" E 01.10.2013 OA, AK, KK
- 730 *Crataegus sanguinea* Pall. – Rannavärava mägi, Tallinn, N Estonia 59°26'33" N 024°44'47" E 14.09.2013 MR
- 731 *Sorbus intermedia* (Ehrh.) Pers. – roadside, Karjamaa, Tallinn, N Estonia 59°27'15" N 024°42'24" E 23.09.2013 MR

**IV Semina plantarum spontaneorum in diversis regionibus
Europae collecta**

ANGIOSPERMAE

Dicotyledoneae

Araliaceae

732 *Hedera helix* L. – roadside, Montsacopa Volcano, Olot, Spain 42°11'12" N
002°29'21" E 26.11.2013 AK

Oleaceae

733 *Ligustrum vulgare* L. – roadside, Montsacopa Volcano, Olot, Spain 42°11'18" N
002°29'20" E 26.11.2013 AK

Seminum collectores: Olev Abner (OA), Anu Kaur (AK), Kalle Kõllamaa (KK), Krista Kaur (KKA), Vesta Kuusmann (VK), Urmas Laansoo (UL), Ilmi Mansu (IM), Mare Raidma (MR), Ruth Aguraiuja (RA), Sille Janson (SJ)

Karmen Kähr
Horti Director

Olev Abner
Custos

Heli Russak
Seminum Curator

EMHI Weather Records 2013
Tallinn - Harku

The highest air temperature: 30,3 °C (August 7)
The lowest air temperature: -21,2 °C (March 14)
Annual rainfall total: 587 mm

Average Monthly Temperature and Rainfall

Month	Ground (°C)	Air Average (°C)	Air Min (°C)	Air Max (°C)	Rainfall (mm)
Jan	-4,8	-4,4	-19,4	3,8	44
Feb	-3,3	-2,4	-15,1	4,3	38
Mar	-7,2	-5,9	-21,2	3,7	12
Apr	3,3	3,1	-8,6	14,2	33
May	15,8	11,8	-1,9	27,6	21
Jun	22,5	16,9	7,4	29,2	54
Jul	24,2	17,6	9,6	28,6	22
Aug	19,6	16,7	5,4	30,3	122
Sep	13,1	12,1	1,2	22,1	25
Oct	7,1	7,5	-4,1	15,1	69
Nov	3,4	4,5	-7,4	9,4	80
Dec	1,1	2,3	-6,3	7,6	68

