

# INDEX SEMINUM

ANNO 2023 COLLECTORUM QUAE  
HORTUS BOTANICUS  
UNIVERSITATIS TARTUENSIS  
PRO MUTUA  
COMMUTATIONE OFFERT

Tartu 2023

# **INDEX SEMINUM**

ANNO 2023 COLLECTORUM QUAE

**HORTUS BOTANICUS**

**UNIVERSITATIS TARTUENSIS**

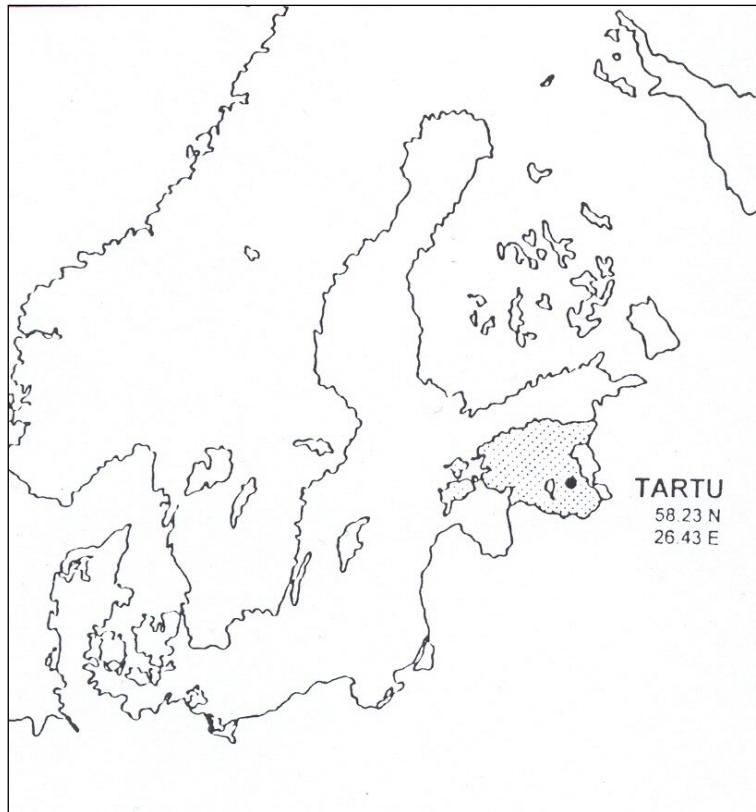
(ANNO DOMINI 1803)

PRO MUTUA COMMUTATIONE OFFERT

EDITOR KERSTI TAMBETS

TARTU 2023

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**Indicationes climatices**

Mediae pluviae per annum pro 30 annis (1991-2020): **673** mm (Tartu-Tõravere)

Mediae pluviae in mensibus singulis mm:

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
48	39	36	35	54	88	67	79	55	68	55	51

Media temperatura per annum pro 30 annis (1991-2020): **6,3**°C (Tartu-Tõravere)

Mediae temperature in mensibus singulis °C:

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
-4,1	-4,4	-0,5	5,9	11,5	15,5	18,0	16,7	11,8	6,0	1,2	-2,1

Minimum absolutum pro 158 annis: -38,6°C (31.12.1978)

Maximum absolutum pro 158 annis: 35,2°C (02.08.1896)

Hardiness zone: 5/6 RHS Dictionary of Gardening, 1999,  
H1(2) European Garden Flora, 1990

**Z** - seed from cultivated plant of known wild origin,

**WS** - seed direct from the wild

The rest of the seeds are from cultivated plant of unknown origin.

\* - stored at 1°C

Cover photo by Katrin Mäeots (*Allium* 'Globemaster')

Dear colleagues,

We need to inform you about the **new stricter system of Plant quarantine in Estonia.**

By the new Plant Quarantine Act, we can receive seeds without the Phytosanitary Certificate only from the European Union.

If your location is not in European Union and if you can send seeds with the Phytosanitary Certificate, please send them to us along as usual.

If you cannot send seeds with the Phytosanitary Certificate, we will be unable to receive the seeds.

We are sorry, but we cannot send the Phytosanitary Certificate with our seeds because of its high price.

We are sorry for the inconvenience.

Best wishes,

Botanical Garden of Tartu University.

The seeds are result of open pollination. They may be hybridized and may have reduced germination power.

Feel free to let us know of any mistakes You encounter in the Index Seminum.

Our institution is a part of the IPEN (International Plant Exchange Network). The IPEN codes are generated through the PlutoF platform (<https://plutof.ut.ee>) where our seed collection database is managed.

Example of the IPEN code: EE-0-TU390145

EE: Country of origin is the Estonia.

0: There are no transfer restrictions for this material.

TU390145: Specimen accession number of University of Tartu Natural History Museum and Botanical Garden, the first two digits indicate Institution code (TU)

# SEMINA ET PLANTIS IN HORTI BOTANICO ET IN LOCIS NATALI COLLECTA

## 1) Seeds collected in the wild

### ANTHOPHYTA / MONOCOTYLEDONAE

#### ALISMATACEAE

1. *Alisma plantago-aquatica* L. EE-0-TU390965  
WS, Estonia, Võru county, Lüübnitsa  
58.05745, 27.59597, 2023-09-10
2. *Sagittaria sagittifolia* L. EE-0-TU390947  
WS, Estonia, Võru county, Lüübnitsa  
58.05745, 27.59599, 2023-09-10

#### CYPERACEAE

3. *Carex acuta* L. EE-0-TU390955  
WS, Estonia, Võru county, Korela  
57.88420, 27.70145, 2023-08-25
4. *Carex appropinquata* Schumach. EE-0-TU390953  
WS, Estonia, Põlva county, Kikka  
57.97178, 27.37449, 2023-06-16
5. *Carex echinata* Murray EE-0-TU390905  
WS, Estonia, Ida-Viru county, Alliku  
59.05984, 27.25468, 2023-07-19
6. *Carex flava* L. EE-0-TU390973  
WS, Estonia, Järva county, Vetepere  
59.10569, 25.55934, 2023-09-06
7. *Carex lasiocarpa* Ehrh. EE-0-TU390961  
WS, Estonia, Põlva county, Mägiotsa  
58.15506, 27.35015, 2023-07-29
8. *Carex limosa* L. EE-0-TU390908  
WS, Estonia, Ida-Viru county, Sälliku  
59.05787, 27.25132, 2023-07-19
9. *Carex pauciflora* Lightf. EE-0-TU390903  
WS, Estonia, Ida-Viru county, Imatu  
59.10148, 27.46188, 2023-07-18
10. *Carex rostrata* Stokes EE-0-TU390907  
WS, Estonia, Ida-Viru county, Sälliku  
59.05819, 27.24887, 2023-07-19

11. *Eriophorum angustifolium* Honck. EE-0-TU390942  
WS, Estonia, Võru county, Lüübnitsa  
58.05432, 27.59646, 2023-06-10
12. *Eriophorum vaginatum* L. EE-0-TU390941  
WS, Estonia, Põlva county, Nohipalo  
57.93923, 27.35296, 2023-06-18

### **JUNCACEAE**

13. *Juncus alpinoarticulatus* Chaix EE-0-TU390956  
WS, Estonia, Võru county, Laossina  
58.03046, 27.58554, 2023-08-25
14. *Juncus effusus* L. EE-0-TU390937  
WS, Estonia, Põlva county, Kikka  
57.97053, 27.37543, 2023-09-09
15. *Juncus filiformis* L. EE-0-TU390954  
WS, Estonia, Võru county, Korela  
57.88439, 27.70187, 2023-08-25

### **MELANTHIACEAE**

16. *Paris quadrifolia* L. EE-0-TU390932  
WS, Estonia, Rapla county, Vaopere  
59.05732, 25.13662, 2023-09-07

### **POACEAE**

17. *Agrostis canina* L. EE-0-TU390944  
WS, Estonia, Võru county, Korela  
57.88445, 27.70183, 2023-08-25
18. *Anthoxanthum odoratum* L. EE-0-TU390909  
WS, Estonia, Ida-Viru county, Rannapungerja  
58.98082, 27.17526, 2023-07-19
19. *Apera spica-venti* (L.) P.Beauv. EE-0-TU390950  
WS, Estonia, Võru county, Rääsolaane  
58.01209, 27.51889, 2023-08-12
20. *Calamagrostis arundinacea* (L.) Roth EE-0-TU390962  
WS, Estonia, Põlva county, Kikka  
57.97060, 27.37510, 2023-09-09
21. *Danthonia decumbens* (L.) DC. EE-0-TU390963  
WS, Estonia, Põlva county, Haavapäa  
57.98470, 27.26610, 2023-09-23
22. *Elymus caninus* (L.) L. EE-0-TU390916  
WS, Estonia, Põlva county, Mägiotsa  
58.16206, 27.35096, 2023-07-29

23. *Festuca gigantea* (L.) Vill. EE-0-TU390971  
WS, Estonia, Tartu county, Agali  
58.27924, 27.31820, 2023-08-03
24. *Festuca sabulosa* Zapal. EE-0-TU390978  
WS, Estonia, Ida-Viru county, Rannapungerja  
58.97826, 27.17109, 2023-07-19
25. *Hierochloe odorata* (L.) P.Beauv. EE-0-TU390899  
WS, Estonia, Põlva county, Kõnnu  
58.20136, 27.39775, 2023-07-02
26. *Koeleria glauca* (Schrad.) DC. EE-0-TU390912  
WS, Estonia, Võru county, Nedsaja  
57.88149, 27.63021, 2023-07-27
27. *Melica nutans* L. EE-0-TU390914  
WS, Estonia, Põlva county, Mägiotsa  
58.15515, 27.35093, 2023-07-29
28. *Milium effusum* L. EE-0-TU390900  
WS, Estonia, Ida-Viru county, Ongassaare  
59.17451, 27.46032, 2023-07-17
29. *Molinia caerulea* (L.) Moench EE-0-TU390938  
WS, Estonia, Põlva county, Nohipalo  
57.93919, 27.35221, 2023-09-23
30. *Phleum pratense* subsp. *bertolonii* (DC.) Bornm. EE-0-TU390967  
WS, Estonia, Võru county, Rääsolaane  
58.01211, 27.52028, 2023-08-12

## **SCHEUCHZERIACEAE**

31. *Scheuchzeria palustris* L. EE-0-TU390957  
WS, Estonia, Põlva county, Toolamaa  
58.12031, 27.37079, 2023-09-23

## **ANTHOPHYTA / EUDICOTYLEDONAE**

### **APIACEAE**

32. *Heracleum sibiricum* L. EE-0-TU390917  
WS, Estonia, Võru county, Lüübnitsa  
58.07253, 27.56754, 2023-07-29
33. *Libanotis montana* Crantz EE-0-TU390981  
WS, Estonia, Harju county, Rõõsa  
59.15040, 25.29690, 2023-09-07

### **ASTERACEAE**

34. *Bidens cernua* L. EE-0-TU390968  
WS, Estonia, Põlva county, Rahumäe  
58.05627, 27.38171, 2023-09-23



35. *Centaurea jacea* L. EE-0-TU390919  
WS, Estonia, Põlva county, Mägiotsa  
58.16204, 27.35072, 2023-08-13
36. *Centaurea phrygia* L. EE-0-TU390928  
WS, Estonia, Põlva county, Raigla  
58.12521, 27.51616, 2023-09-02
37. *Erigeron acer* L. EE-0-TU390976  
WS, Estonia, Ida-Viru county, lisaku  
59.09383, 27.31051, 2023-07-18
38. *Hypochaeris maculata* L. EE-0-TU390911  
WS, Estonia, Võru county, Korela  
57.88510, 27.64782, 2023-07-27
39. *Lapsana communis* L. EE-0-TU390948  
WS, Estonia, Põlva county, Mägiotsa  
58.15653, 27.35398, 2023-07-29
40. *Leontodon danubialis* Jacq. EE-0-TU390902  
WS, Estonia, Ida-Viru county, Kuremäe  
59.18838, 27.56075, 2023-07-18
41. *Leontodon hispidus* L. EE-0-TU390925  
WS, Estonia, Võru county, Kostkova  
57.94243, 27.65769, 2023-08-25
42. *Leontodon hispidus* L. EE-0-TU390939  
WS, Estonia, Ida-Viru county, lisaku  
59.09484, 27.31642, 2023-07-17
43. *Picris hieracioides* L. EE-0-TU390926  
WS, Estonia, Võru county, Kostkova  
57.94242, 27.65409, 2023-08-25
44. *Senecio paludosus* L. EE-0-TU390924  
WS, Estonia, Võru county, Lüübnitsa  
58.05709, 27.59607, 2023-08-23
45. *Solidago virgaurea* L. EE-0-TU390904  
WS, Estonia, Ida-Viru county, Alliku  
59.05964, 27.25605, 2023-07-19

## **BETULACEAE**

46. *Betula humilis* Schrank EE-0-TU390943  
WS, Estonia, Võru county, Lüübnitsa  
58.05977, 27.57804, 2023-10-15

## **BORAGINACEAE**

47. *Myosotis arvensis* (L.) Hill EE-0-TU390969  
WS, Estonia, Põlva county, Kikka  
57.97038, 27.37545, 2023-08-25

48. *Myosotis palustris* (L.) Hill EE-0-TU390897  
WS, Estonia, Põlva county, Kõnnu  
58.19325, 27.34497, 2023-07-02

### **BRASSICACEAE**

49. *Rorippa amphibia* (L.) Besser EE-0-TU390966  
WS, Estonia, Võru county, Lüübnitsa  
58.05705, 27.59596, 2023-07-16

### **CAMPANULACEAE**

50. *Campanula cervicaria* L. EE-0-TU390933  
WS, Estonia, Põlva county, Kikka  
57.97092, 27.37536, 2023-09-09
51. *Campanula patula* L. EE-0-TU390935  
WS, Estonia, Põlva county, Kikka  
57.97050, 27.37550, 2023-09-09
52. *Jasione montana* L. EE-0-TU390913  
WS, Estonia, Võru county, Nedsaja  
57.88287, 27.63302, 2023-07-27

### **CAPRIFOLIACEAE**

53. *Knautia arvensis* (L.) Coult. EE-0-TU390910  
WS, Estonia, Võru county, Rääsolaane  
58.01205, 27.51937, 2023-07-24
54. *Valeriana officinalis* L. EE-0-TU390974  
WS, Estonia, Viljandi county, Sandra  
58.46422, 25.20094, 2023-07-31

### **CARYOPHYLLACEAE**

55. *Myosoton aquaticum* (L.) Moench EE-0-TU390964  
WS, Estonia, Võru county, Lüübnitsa  
58.05750, 27.59593, 2023-07-16
56. *Silene pratensis* (Rafn) Godr. & Gren. EE-0-TU390901  
WS, Estonia, Ida-Viru county, Kuremäe  
59.19470, 27.54160, 2023-07-18
57. *Silene vulgaris* (Moench) Garcke EE-0-TU390980  
WS, Estonia, Harju county, Rõõsa  
59.15050, 25.29680, 2023-09-07
58. *Spergula arvensis* L. EE-0-TU390949  
WS, Estonia, Võru county, Rääsolaane  
58.01209, 27.51907, 2023-07-24
59. *Stellaria graminea* L. EE-0-TU390922  
WS, Estonia, Põlva county, Mägiotsa  
58.16187, 27.34829, 2023-08-13

60. *Stellaria nemorum* L. EE-0-TU390896  
WS, Estonia, Võru county, Haanja  
57.73171, 27.06358, 2023-06-24
61. *Viscaria vulgaris* Bernh. EE-0-TU390898  
WS, Estonia, Põlva county, Kõnnu  
58.19320, 27.34524, 2023-07-02
- DROSERACEAE**
62. *Drosera anglica* Huds. EE-0-TU390921  
WS, Estonia, Põlva county, Mägiotsa  
58.16253, 27.34531, 2023-08-13
63. *Drosera rotundifolia* L. EE-0-TU390930  
WS, Estonia, Harju county, Rõõsa  
59.14440, 25.27911, 2023-09-07
- ERICACEAE**
64. *Empetrum nigrum* L. EE-0-TU390906  
WS, Estonia, Ida-Viru county, Alliku  
59.06085, 27.25332, 2023-07-19
65. *Orthilia secunda* (L.) House EE-0-TU390985  
WS, Estonia, Tartu county, Hellenurme  
2023-09
66. *Vaccinium myrtillus* L. EE-0-TU390982  
WS, Estonia, Harju county, Rõõsa  
59.14540, 25.28400, 2023-09-07
67. *Vaccinium oxycoccos* L. EE-0-TU390984  
WS, Estonia, Võru county, Lüübnitsa  
58.05940, 27.57828, 2023-10-15
68. *Vaccinium uliginosum* L. EE-0-TU390983  
WS, Estonia, Põlva county, Toolamaa  
58.11910, 27.36920, 2023-09-23
69. *Vaccinium vitis-idaea* L. EE-0-TU390946  
WS, Estonia, Põlva county, Toolamaa  
58.11953, 27.37026, 2023-09-23
- FABACEAE**
70. *Lathyrus sylvestris* L. EE-0-TU390918  
WS, Estonia, Võru county, Rääsolaane  
58.01182, 27.51834, 2023-08-12
71. *Lathyrus vernus* (L.) Bernh. EE-0-TU390951  
WS, Estonia, Põlva county, Mägiotsa  
58.18729, 27.34843, 2023-07-02

72. *Trifolium aureum* Pollich EE-0-TU390923  
WS, Estonia, Põlva county, Mägiotsa  
58.16245, 27.35758, 2023-08-13

73. *Vicia sylvatica* L. EE-0-TU390920  
WS, Estonia, Põlva county, Mägiotsa  
58.16200, 27.34913, 2023-08-13

### **GERANIACEAE**

74. *Erodium cicutarium* (L.) L'Hér. EE-0-TU390952  
WS, Estonia, Võru county, Rääsolaane  
58.01205, 27.51943, 2023-07-24

75. *Geranium robertianum* L. EE-0-TU390975  
WS, Estonia, Viljandi county, Sandra  
58.45980, 25.02754, 2023-07-31

### **LAMIACEAE**

76. *Clinopodium vulgare* L. EE-0-TU390931  
WS, Estonia, Rapla county, Kuimetsa  
59.05729, 25.13630, 2023-09-07

77. *Galeopsis tetrahit* L. EE-0-TU390940  
WS, Estonia, Põlva county, Mägiotsa  
58.15706, 27.35565, 2023-07-29

78. *Prunella vulgaris* L. EE-0-TU390960  
WS, Estonia, Põlva county, Mägiotsa  
58.15911, 27.35657, 2023-07-29

79. *Stachys sylvatica* L. EE-0-TU390915  
WS, Estonia, Põlva county, Mägiotsa  
58.16208, 27.35225, 2023-07-29

### **ONAGRACEAE**

80. *Epilobium palustre* L. EE-0-TU390927  
WS, Estonia, Põlva county, Kassilaane  
58.05618, 27.38051, 2023-08-26

### **OROBANCHACEAE**

81. *Pedicularis palustris* L. EE-0-TU390929  
WS, Estonia, Järva county, Võõbu  
59.08589, 25.51820, 2023-09-06

### **PLANTAGINACEAE**

82. *Plantago lanceolata* L. EE-0-TU390970  
WS, Estonia, Võru county, Kostkova  
57.94248, 27.65766, 2023-08-25

83. *Veronica anagallis-aquatica* L. EE-0-TU390979  
WS, Estonia, Harju county, Habaja  
59.10260, 25.16939, 2023-09-07

### **POLYGONACEAE**

84. *Rumex thyrsiflorus* Fingerh. EE-0-TU390972  
WS, Estonia, Põlva county, Meerapalu  
58.38830, 27.37670, 2023-08-03

### **RANUNCULACEAE**

85. *Ranunculus flammula* L. EE-0-TU390945  
WS, Estonia, Võru county, Korela  
57.88420, 27.70154, 2023-08-25

### **ROSACEAE**

86. *Comarum palustre* L. EE-0-TU390959  
WS, Estonia, Põlva county, Nohipalo  
57.94188, 27.34852, 2023-09-23

87. *Comarum palustre* L. EE-0-TU390977  
WS, Estonia, Ida-Viru county, Iisaku  
59.09482, 27.31659, 2023-07-17

88. *Potentilla norvegica* L. EE-0-TU390934  
WS, Estonia, Põlva county, Kikka  
57.97034, 27.37564, 2023-09-09

### **RUBIACEAE**

89. *Galium album* Mill. EE-0-TU390958  
WS, Estonia, Võru county, Lüübnitsa  
58.07199, 27.56799, 2023-07-29

## **2) Spores and seeds collected in our garden**

### **MONILOPHYTA / POLYPODIOPSISIDA**

#### **ASPLENIACEAE**

90. *Asplenium adulterinum* Milde ✱  
Z, Slovakia, bei Kosice, Sedice / Chemnitz 2018
91. *Asplenium scolopendrium* L. ✱
92. *Asplenium septentrionale* (L.) Hoffm. ✱ EE-0-TU-2009-0451-1  
Z, Estonia, Prangli Island, 2009

#### **ATHYRIACEAE**

93. *Athyrium sinense* Rupr. ✱

94. *Athyrium spinulosum* (Maxim.) Milde ✱  
 95. *Athyrium vidalii* (Franch. & Sav.) Nakai ✱  
 96. *Deparia conilii* (Franch. & Sav.) M.Kato ✱  
 97. *Diplazium sibiricum* (Turcz. ex Kunze) Sa.Kurata ✱  
 Z, Russia, Altai

### BLECHNACEAE

98. *Struthiopteris spicant* (L.) Weiss ✱

### CYSTOPTERIDACEAE

99. *Cystopteris bulbifera* (L.) Bernh. ✱  
 100. *Cystopteris fragilis* (L.) Bernh. ✱  
 101. *Cystopteris sudetica* A.Braun & Milde ✱ EE-0-TU-A-2019-2128  
 Z, Estonia, Ida-Viru county, Ontika, Klint forest, 2015  
 102. *Cystopteris ×laurentiana* (Weath.) Blasdell ✱  
 Z, USA, Wisconsin / Chemnitz 2020  
 103. *Gymnocarpium dryopteris* (L.) Newman ✱ EE-0-TU-A-2014-0748  
 Z, Estonia, Tartu county, Vooremäe, 2012  
 104. *Gymnocarpium fedtschenkoanum* Pojark. ✱  
 Z, Pakistan, Shish Kush Chatral / Chemnitz 2018  
 105. *Gymnocarpium robertianum* (Hoffm.) Newman ✱ EE-0-TU-A-2014-0758  
 Z, Estonia, Saare county, Ninase, 2012

### DENNSTAEDTIACEAE

106. *Dennstaedtia wilfordii* (T.Moore) H.Christ ✱

### DRYOPTERIDACEAE

107. *Cyrtomium fortunei* J.Sm. ✱  
 108. *Dryopteris ardechensis* Fraser-Jenk. ✱  
 Z, S-Frankreich, Cevennen, Luech-Tal / Chemnitz  
 2018  
 109. *Dryopteris clintoniana* (D.C.Eaton) Dowell ✱  
 110. *Dryopteris crassirhizoma* Nakai ✱  
 111. *Dryopteris cristata* (L.) A.Gray ✱ EE-0-TU-A-2018-1056  
 Z, Estonia, Pärnu county, Jäärja, fen, 2017  
 112. *Dryopteris dilatata* (Hoffm.) A.Gray ✱  
 113. *Dryopteris erythrosora* (D.C.Eaton) Kuntze ✱  
 114. *Dryopteris goldieana* (Hook. ex Goldie) A.Gray ✱  
 115. *Dryopteris hondoensis* Koidz. ✱

116. *Dryopteris intermedia* (Muhl. ex Willd.) A.Gray ✱  
Z, Canada: Québec: MRC Vaudreuil-Soulanges: L'Île  
Perrot. Forêt feuillue. ca 30 m. / Montreal 2016
117. *Dryopteris lacunosa* S.Jess., Zenner, Chr.Stark & Bujnoch ✱  
Z, Schweiz,Tessin, bei Bellinzona, Carasso, 400 m /  
Chemnitz 2018
118. *Dryopteris marginalis* (L.) A.Gray ✱
119. *Dryopteris pseudofilix-mas* (Fée) Rothm. ✱
120. *Dryopteris sieboldii* (T.Moore) Kuntze ✱
121. *Dryopteris stewartii* Fraser-Jenk. ✱
122. *Polystichum acrostichoides* (Michx.) Schott ✱
123. *Polystichum aculeatum* (L.) Roth ✱
124. *Polystichum andersonii* Hopkins ✱  
Z, Canada, British Columbia, Garibaldi Parc /  
Chemnitz 2018
125. *Polystichum braunii* (Spenn.) Fée ✱
126. *Polystichum lonchitis* (L.) Roth ✱
127. *Polystichum luctuosum* (Kunze) T.Moore ✱
128. *Polystichum makinoi* (Tagawa) Tagawa ✱
129. *Polystichum neolobatum* Nakai ✱  
Z, China, Yunnan, Jade Dragon Snow Mts., Lijiang, ca.  
3000 m / Chemnitz 2018
130. *Polystichum rigens* Tagawa ✱
131. *Polystichum setiferum* (Forssk.) T.Moore ex Woyn. ✱
132. *Polystichum setigerum* (C.Presl) C.Presl ✱
133. *Polystichum tripterum* (Kunze) C.Presl ✱  
Z, Russia

### **PTERIDACEAE**

134. *Adiantum venustum* D.Don ✱
135. *Coniogramme emeiensis* Ching & K.H.Shing ✱

### **THELYPTERIDACEAE**

136. *Phegopteris connectilis* (Michx.) Watt ✱  
Z, Estonia, Tartu county, Pühaste, 2018
137. *Phegopteris decursive-pinnata* (H.C.Hall) Fée ✱

EE-0-TU-A-2021-1681

### **WOODSIACEAE**

138. *Woodsia obtusa* (Spreng.) Torr. ✱

## ANTHOPHYTA / MONOCOTYLEDONAE

### AMARYLLIDACEAE

139. *Allium aflatunense* B.Fedtsch.
140. *Allium amplexans* Torr.
141. *Allium atropurpureum* Waldst. & Kit.
142. *Allium auctum* Omelczuk UA-0-TU-2007-0451-1  
Z, Ukraine, Tauria, Aju-Dag, 1980
143. *Allium campanulatum* S.Watson
144. *Allium carinatum* subsp. *pulchellum* (G. Don) Bonnier et Layens
145. *Allium cassium* Boiss.
146. *Allium cernuum* Roth
147. *Allium chloranthum* Boiss.
148. *Allium cristophii* Trautv.
149. *Allium cyathophorum* var. *farreri* (Stearn) Stearn
150. *Allium flavum* L.
151. *Allium grande* Lipsky  
Z, Russia, Dagestan, Mahatshkala
152. *Allium hymenorhizum* Ledeb.
153. *Allium insubricum* Boiss. & Reut.
154. *Allium karataviense* Regel
155. *Allium lenkoranicum* Misch. ex Grossh.
156. *Allium loratum* Baker
157. *Allium lycaonicum* Siehe ex Hayek
158. *Allium obliquum* L.
159. *Allium orientale* Boiss.
160. *Allium protensum* Wendelbo
161. *Allium pseudowinklerianum* R.M.Fritsch & F.O.Khass.
162. *Allium pskemense* B.Fedtsch.
163. *Allium rosenbachianum* Regel
164. *Allium sarawschanicum* Regel
165. *Allium schoenoprasum* L. EE-0-TU-A-2016-1091  
Z, Estonia, Saare county, Mullutu, 2015
166. *Allium schubertii* Zucc.
167. *Allium sivasicum* Özhatay & Kollmann
168. *Allium strictum* Schrad.
169. *Allium tolmiei* Baker
170. *Allium unifolium* Kellogg
171. *Allium wallichii* Kunth
172. *Allium woronowii* Misch. ex Grossh.
173. *Allium woronowii* Misch. ex Grossh. white form



- 174. *Allium zebdanense* Boiss. & Noë
- 175. *Leucojum aestivum* L.
- 176. *Narcissus rupicola* Dufour
- 177. *Nectaroscordum tripedale* (Trautv.) Traub

### ARACEAE

- 178. *Anthurium gracile* (Rudge) Lindl.  
Z, French Guiana
- 179. *Arisaema amurense* Maxim. ✱
- 180. *Arisaema ciliatum* H.Li ✱
- 181. *Arisaema triphyllum* (L.) Schott ✱
- 182. *Arum orientale* M.Bieb.

### ARECACEAE

- 183. *Chamaedorea oblongata* Mart.
- 184. *Ptychosperma elegans* (R.Br.) Blume
- 185. *Sabal minor* (Jacq.) Pers.

### ASPARAGACEAE

- 186. *Asparagus densiflorus* (Kunth) Jessop 'Sprengeri'
- 187. *Bellevalia pycnantha* (K.Koch) Losinsk.
- 188. *Brodiaea californica* Lindl. ex Lem.
- 189. *Chlorophytum madagascariense* Baker
- 190. *Hosta gracillima* F.Maek.
- 191. *Hyacinthoides non-scripta* (L.) Chouard ex Rothm.
- 192. *Maianthemum racemosum* (L.) Link ✱
- 193. *Maianthemum stellatum* (L.) Link ✱
- 194. *Muscari anatolicum* Cowley & Özhatay
- 195. *Muscari armeniacum* Leichtlin ex Baker
- 196. *Muscari azureum* Fenzl
- 197. *Muscari coeleste* Fomin
- 198. *Muscari pallens* Hohen. ex Baker  
Z, Russia, Krasnodar Krai, 1994
- 199. *Paradisea liliastrum* (L.) Bertol.
- 200. *Polygonatum prattii* Baker ✱
- 201. *Polygonatum verticillatum* (L.) All. ✱

XX-0-MJG-200217004

### ASPHODELACEAE

- 202. *Hemerocallis middendorffii* Trautv. & C.A.Mey.  
Z, Russia, Habarovsk Reg., Sichote-Alin Mts., Udomi,  
1987

RU-0-TU-1994-0129-1

## **BROMELIACEAE**

203. *Billbergia alfonsi-joannis* Reitz

## **COLCHICACEAE**

204. *Disporum uniflorum* Baker ✨  
205. *Disporum viridescens* (Maxim.) Nakai ✨

## **COMMELINACEAE**

206. *Commelina dianthifolia* Redouté  
207. *Palisota bracteosa* C.B. Clarke  
208. *Tradescantia Andersoniana* Group  
209. *Tradescantia spathacea* Sw.

XX-0-UDE-00-71-7-3

## **COSTACEAE**

210. *Tapeinochilos spectabilis* K.Schum.

## **CYPERACEAE**

211. *Carex* 'Majken'  
212. *Cyperus papyrus* L.

## **DIOSCOREACEAE**

213. *Dioscorea caucasica* Lipsky

## **IRIDACEAE**

214. *Crocus angustifolius* Weston  
215. *Crocus chrysanthus* (Herb.) Herb.  
216. *Crocus danfordiae* Maw  
217. *Crocus tauricus* (Trautv.) Puring  
218. *Crocus versicolor* Ker Gawl.  
219. *Iris aphylla* L.  
220. *Iris latifolia* (Mill.) Voss  
221. *Iris lutescens* Lam.  
222. *Iris schachtii* Markgr.  
223. *Iris variegata* L.  
224. ×*Pardancanda norrisii* L.W.Lenz

## **IXIOLIRIACEAE**

225. *Ixiolirion tataricum* (Pall.) Schult. & Schult.f.

## **JUNCACEAE**

226. *Juncus balticus* Willd.  
Z, Estonia, Saare county, Harilaid, 2012

## LILIACEAE

227. *Fritillaria graeca* subsp. *thessala* (Boiss.) Rix
228. *Fritillaria hakkarensis* (Rix) Teksen
229. *Fritillaria involucrata* All.
230. *Fritillaria montana* Hoppe ex W.D.J.Koch
231. *Fritillaria orientalis* Adam
232. *Fritillaria pallidiflora* Schrenk ex Fisch. & C.A.Mey.
233. *Fritillaria raddeana* Regel
234. *Fritillaria sewerzowii* Regel
235. *Fritillaria usuriensis* Maxim.
236. *Fritillaria whittallii* Baker
237. *Lilium amabile* Palib.
238. *Lilium bulbiferum* var. *croceum* (Chaix) Pers.
239. *Lilium canadense* L.
240. *Lilium leucanthum* (Baker) Baker
241. *Lilium martagon* var. *album* Weston
242. *Lilium monadelphum* M.Bieb.
243. *Lilium rosthornii* Diels
244. *Ornithogalum platyphyllum* Boiss.
245. *Prosartes smithii* (Hook.) Utech, Shinwari & Kawano
246. *Tulipa bifloriformis* Vved.
247. *Tulipa karabachensis* Grossh.
248. *Tulipa kolpakowskiana* Regel
249. *Tulipa tarda* Stapf

## MARANTACEAE

250. *Marantochloa leucantha* (K.Schum.) Milne-Redh.

XX-0-IB-004122

## MELANTHIACEAE

251. *Anticlea elegans* (Pursh) Rydb.
252. *Paris quadrifolia* L. ✨
253. *Veratrum nigrum* L.  
Z, Russia, Altai Rep., Chemal, 1995

## POACEAE

254. *Cenchrus americanus* (L.) Morrone 'Jade Princess'
255. *Cenchrus americanus* (L.) Morrone 'Purple Majesty'
256. *Chrysopogon gryllus* (L.) Trin.
257. *Eragrostis superba* Peyr.
258. *Festuca amethystina* L.
259. *Festuca glauca* Vill. 'Auslese'

- 260. *Melica altissima* L. 'Atropurpurea'
- 261. *Stipa joannis* Čelak.
- 262. *Stipa pennata* L.
- 263. *Zea mays* L. 'Bloody Butcher'
- 264. *Zea mays* L. 'Tauris'

### **TOFIELDIACEAE**

- 265. *Tofieldia calyculata* (L.) Wahlenb.

### **XANTHORRHOEACEAE**

- 266. *Asphodeline lutea* (L.) Rchb. XX-0-PLZEN-1206-18-80
- 267. *Asphodeline taurica* (Pall. ex M.Bieb.) Endl.
- 268. *Eremurus fuscus* (O.Fedtsch.) Vved.
- 269. *Eremurus himalaicus* Baker
- 270. *Eremurus robustus* (Regel) Regel
- 271. *Eremurus ×isabellinus* P.Vilm.

### **ANTHOPHYTA / EUDICOTYLEDONAE**

#### **ACANTHACEAE**

- 272. *Crossandra puberula* Klotzsch

#### **AIZOACEAE**

- 273. *Carpanthea pomeridiana* (L.) N.E.Br. XX-0-HAL-449

#### **AMARANTHACEAE**

- 274. *Amaranthus caudatus* L. XX-0-HOH-SYS-10854
- 275. *Dysphania botrys* (L.) Mosyakin & Clemants
- 276. *Gomphrena globosa* L.
- 277. *Gomphrena haageana* Klotzsch
- 278. *Gomphrena serrata* L.
- 279. *Hablitzia tamnoides* M.Bieb.
- 280. *Pleuropetalum darwinii* Hook.f.
- 281. *Teloxys aristata* (L.) Moq.

#### **ANACARDIACEAE**

- 282. *Rhus copallinum* L.  
Z, USA: Connecticut, New Haven county, Madison,  
Summer Hill Rd; open deciduous woods, 142 - 145 m  
/ Northampton 2021

#### **APIACEAE**

- 283. *Agasyllis latifolia* (M.Bieb.) Boiss. GE-0-BONN-37036

284. *Angelica gigas* Nakai  
285. *Bifora radians* M.Bieb.  
286. *Bowlesia incana* Ruiz & Pav. XX-0-TAL-19990518  
287. *Bupleurum longifolium* L.  
Z, France, Bannans Doubs / Paris Nat. Museum 2007  
288. *Bupleurum rotundifolium* L.  
289. *Cenolophium denudatum* (Fisch. ex Hornem.) Tutin  
290. *Coriandrum sativum* L.  
291. *Eryngium alpinum* L.  
292. *Lomatium grayi* (J.M.Coult. & Rose)  
293. *Meum athamanticum* Jacq.  
294. *Myrrhis odorata* (L.) Scop.  
295. *Orlaya grandiflora* (L.) Hoffm.  
296. *Prangos trifida* (Mill.) Herrnst. & Heyn  
297. *Scaligeria tripartita* (Kalen.) Tamamsch.  
Z, Georgia, Reg.Ratscha, 1600m. / München 2006  
298. *Taenidia integerrima* (L.) Drude  
Z, Oka co.Deux-Montages / Montreal 2006  
299. *Trachymene pilosa* Sm. XX-0-BRAUN-7205063

### **APOCYNACEAE**

300. *Acokanthera oblongifolia* (Hochst.) Benth. & Hook.f. ex B.D.Jacks.  
301. *Amsonia tabernaemontana* Walter  
302. *Ceropegia woodii* Schltr.

### **ARALIACEAE**

303. *Eleutherococcus setchuenensis* (Harms ex Diels) Nakai  
Z, 1985/11472 China: Quinling Shan, Shaanxi prov.;  
1600 m a.s.l. / Rogow 2015

### **ARISTOLOCHIACEAE**

304. *Aristolochia trilobata* L.  
305. *Saruma henryi* Oliv.

### **ASTERACEAE**

306. *Achillea alpina* L.  
307. *Achyrrachaena mollis* Schauer XX-0-MJG-19--47920  
308. *Acmella oleracea* (L.) R.K.Jansen  
309. *Adenostyles alpina* (L.) Bluff & Fingerh.  
Z, Monte Ventasso, Ventasso (RE), 1350m / Parma 2019  
310. *Amberboa moschata* (L.) DC.  
311. *Anacyclus pyrethrum* (L.) Lag.  
312. *Arctotis venusta* Norl.

313. *Arnica angustifolia* subsp. *tomentosa* (J.M.Macoun)  
G.W.Douglas & Ruyle-Dougl.
314. *Carthamus lanatus* L.
315. *Catananche caerulea* L. FR-0-P-2019g029  
Z, France, Fraissinet de Fourques, 834 m. / Paris Nat.  
Museum 2020
316. *Centaurea americana* Nutt.
317. *Centaurea benedicta* (L.) L.
318. *Centaurea orientalis* L. UA-0-MJG-201011216  
Z, Ukraine: Vinnytsia, Pischansky district, 48,14964 |  
28,73485. 2010-07 / Mainz 2017
319. *Centratherum punctatum* Cass.
320. *Cirsium pannonicum* (L.f.) Link  
Z, Komarów-Osada / Warsaw 2019
321. *Cladanthus arabicus* (L.) Cass.
322. *Cosmos bipinnatus* Cav.
323. *Cosmos sulphureus* Cav.
324. *Crepis rubra* L. XX-0-BERN-2006/462
325. *Crupina vulgaris* Pers. ex Cass. RO-0-IAGB20121424W
326. *Dimorphotheca pluvialis* (L.) Moench XX-0-HAL-1194
327. *Erigeron borealis* (Vierh.) Simmons
328. *Erigeron grandiflorus* Hook.
329. *Felicia bergeriana* (Spreng.) O.Hoffm. ex Zahlbr.
330. *Flaveria trinervia* (Spreng.) C.Mohr
331. *Galatella linosyris* (L.) Rchb.f.  
Z, Czech Rep, Cz. Mikulov / Praha Univ. 1996
332. *Geropogon hybridus* (L.) Sch.Bip.
333. *Guizotia abyssinica* (L.f.) Cass.
334. *Helenium amarum* (Raf.) H.Rock
335. *Helenium aromaticum* (Hook.) L.H.Bailey
336. *Helenium puberulum* DC. xx-0-DR-004255
337. *Kalimeris incisa* (Fisch.) DC.
338. *Klasea radiata* subsp. *gmelinii* (Tausch) L.Martins
339. *Koelpinia linearis* Pall.
340. *Ligularia alpigena* Pojark.  
Z, Tajikistan: Pamir M, Badachschan, 1400-4400m /  
Reykjavik 2010
341. *Ligularia fischeri* Turcz.
342. *Lindheimera texana* A.Gray & Engelm.
343. *Lonas annua* (L.) Vines & Druce
344. *Madia elegans* D.Don
345. *Madia sativa* Molina

346. *Mantisalca salmantica* (L.) Briq. & Cavill. FR-0-P-2019g158  
Z, France, Viols le Fort (34) les Matelettes ,242 m. /  
Paris Nat. Museum 2019
347. *Melampodium divaricatum* (Rich.) DC.
348. *Melampodium perfoliatum* (Cav.) Kunth
349. *Monoculus hyoseroides* (DC.) B.Nord.
350. *Noticastrum diffusum* (Pers.) Cabrera AR-0-B-1210497  
Z, AR: Provinz Buenos Aires; südlich Sierra de Tandil,  
Tandil / Hamburg 2022
351. *Oncosiphon grandiflorus* (Thunb.) Källersjö ZA:0:SBT:V:23334  
Z, South Africa, Graafwater, West Coast / Stockholm 2022
352. *Onopordum acanthium* L.
353. *Osteospermum vaillantii* (Decne.) Norl. xx-0-DR-009468
354. *Parasenecio hastatus* (L.) H.Koyama
355. *Plagiopus flosculosus* (L.) Alavi & Heywood FR-0-P-2013g136  
Z, France, Aisne / Paris Mus 2019
356. *Porophyllum tagetoides* (Kunth) DC. XX-0-Z-20190117
357. *Prenanthes purpurea* L. CH0Z-20130952  
Z, Switzerland, Alt St. Johann SG, Churfirsten, 1500  
m / Zürich Univ 2014
358. *Rhagadiolus stellatus* (L.) Gaertn.
359. *Rudbeckia amplexicaulis* Vahl
360. *Rudbeckia triloba* L. 'Prairie Glow'
361. *Sanvitalia procumbens* Lam. XX-0-IAGB198310362G
362. *Schkuhria pinnata* (Lam.) Kuntze
363. *Senecio arenarius* Thunb. ZA-0-PLZEN-1082-20-30  
Z, Republic of South Africa, Western Cape, Piketberg  
/ Plzen 2022
364. *Sigesbeckia orientalis* L.
365. *Silphium integrifolium* Michx.
366. *Solidago caesia* L.  
Z, Oka co.Deux-Montages / Montreal 2006
367. *Steirodiscus tagetes* (L.) Schltr.
368. *Syneilesis aconitifolia* (Bunge) Maxim. XX-0-HBG-2016-F-282
369. *Tagetes lucida* Cav. xx-0-DR-004236
370. *Tagetes tenuifolia* Cav. xx-0-DR-004235
371. *Thelesperma burridgeanum* S.F.Blake
372. *Thelesperma filifolium* (Hook.) A.Gray XX-0-MJG-199805304
373. *Thymophylla tenuiloba* (DC.) Small
374. *Tithonia rotundifolia* (Mill.) S.F.Blake
375. *Tolpis barbata* (L.) Gaertn.
376. *Tridax trilobata* (Cav.) Hemsl.

377. *Verbesina alata* L. XX-0-MJG-199707710  
 378. *Volutaria muricata* (L.) Maire XX-0-DR-013809  
 379. *Xanthisma texanum* DC.  
 380. *Xanthium strumarium* L. AT-0-WU-0030662  
 Z, AT; region Seewinkel, town Apetlon; 36°43.4'N  
 4°23.2'E / Brno Univ Masaryk 2021  
 381. *Xeranthemum annuum* L.  
 382. *Xeranthemum cylindraceum* Sibth. & Sm. XX-1-LJU-G-555-630  
 383. *Xerochrysum bracteatum* (Vent.) Tzvelev XX-0-Z-20170958  
 384. *Zinnia angustifolia* Kunth MX-0-DR-004230  
 385. *Zinnia haageana* Regel  
 386. *Zinnia peruviana* (L.) L.

### **BASELLACEAE**

387. *Basella alba* L. 'Rosebud'

### **BERBERIDACEAE**

388. *Caulophyllum robustum* Maxim. ❄️ RU-0-TU-1984-0002-1  
 Z, Russia, Primorsk Reg., 1985

### **BIGNONIACEAE**

389. *Incarvillea olgae* Regel  
 390. *Incarvillea sinensis* var. *przewalskii* (Batalin) C.Y.Wu & W.C.Yin xx-0-DR-003910

### **BORAGINACEAE**

391. *Arnebia pulchra* (Willd. ex Roem. & Schult.) J.R.Edm.  
 392. *Cerinthe major* L. XX-0-BRAUN-7742579  
 393. *Cerinthe minor* L.  
 394. *Omphalodes linifolia* (L.) Moench  
 395. *Pontechium maculatum* (L.) Böhle & Hilger

### **BRASSICACEAE**

396. *Alyssoides utriculata* (L.) Medik.  
 397. *Alyssum murale* Waldst. & Kit.  
 398. *Cochlearia officinalis* L.  
 399. *Cochlearia polonica* A.Fröhl.  
 400. *Conringia orientalis* (L.) Dumort.  
 401. *Crambe cordifolia* Steven  
 402. *Draba paysonii* var. *treleasii* (O.E.Schulz) C.L.Hitchc. CA-0-M-1978/0657  
 Z, Canada, central Alberta / München 2020  
 403. *Draba sauteri* Hoppe  
 404. *Heliophila coronopifolia* L. XX-0-TEBLI-02111



405. *Hesperis tristis* L. AT-0-BGAT-0025837  
 406. *Iberis amara* L.  
 407. *Iberis pinnata* L.  
 408. *Iberis umbellata* L. XX-0-BREMR-xxxx/4232  
 409. *Lepidium sativum* L. FR-0-TOU-2021-2226  
 410. *Myagrum perfoliatum* L. XX-0-ULM-2014-F-10  
 411. *Pseudoturritis turrita* (L.) Al-Shehbaz XX-0-BRNU-2018-07304  
 412. *Succowia balearica* (L.) Medik.

### CACTACEAE

413. *Opuntia macrorhiza* Engelm.

### CAMPANULACEAE

414. *Campanula alliariifolia* Willd.  
 415. *Campanula bellidifolia* Adams  
 416. *Campanula erinus* L. IT-0-SIENA-00190  
 417. *Edraianthus pumilio* (Port. ex Schult.) A.DC.  
 418. *Edraianthus serpyllifolius* (Vis.) A.DC.  
 419. *Legousia speculum-veneris* (L.) Chaix  
 420. *Phyteuma orbiculare* L. XX-0-PORTY-21015  
 421. *Wahlenbergia lobelioides* (L.f.) Link  
 422. *Wahlenbergia multicaulis* Benth. AU-0-PLZEN-0444-11-50

### CAPRIFOLIACEAE

423. *Centranthus calcitrapae* (L.) Dufur.  
 424. *Centranthus macrosiphon* Boiss. XX-0-HAL-1238  
 425. *Cephalaria gigantea* (Ledeb.) Bobrov  
 426. *Cephalaria leucantha* (L.) Schrad.  
 427. *Fedia cornucopiae* (L.) Gaertn.  
 428. *Lomelosia caucasica* (M.Bieb.) Greuter & Burdet XX-0-LZ-AW-94-1998  
 429. *Lomelosia prolifera* (L.) Greuter & Burdet  
 430. *Lomelosia stellata* (L.) Raf.  
 431. *Patrinia gibbosa* Maxim.  
 432. *Scabiosa atropurpurea* L. XX-0-KL-2012/1376  
 433. *Succisella inflexa* (Kluk) Beck  
 434. *Triosteum himalayanum* Wall.  
 435. *Valeriana tripteris* L. AT-0-SZU-2015-884  
 Z, A, St, Leoben, Radmer a d Stube NE, limestone  
 bedrock, 680 a.s.l. / Salzburg 2016  
 436. *Zabelia tyaihyoni* (Nakai) Hisauchi & Hara

## CARICACEAE

437. *Vasconcellea quercifolia* A. St.-Hil. XX-0-STUTZ-002498

## CARYOPHYLLACEAE

438. *Atocion armeria* (L.) Raf.
439. *Atocion compactum* (Fisch. ex Hornem.) Tzvelev RO-0-CLA-9919  
Z, RO, Măcinului Mountains, Distr. Tulcea, 110m,  
44°29'N 28°26'E / Cluj-Napoca Agro 2020
440. *Dianthus* 'La Bourboule'
441. *Dianthus armeria* L.
442. *Dianthus arpadianus* Ade & Bornm.
443. *Dianthus arpadianus* var. *pumilus* hort.
444. *Dianthus pavonius* Tausch
445. *Eremogone ledebouriana* (Fenzl) Ikonn.
446. *Gypsophila elegans* M.Bieb.
447. *Gypsophila muralis* L.
448. *Gypsophila scorzonerifolia* Ser.
449. *Petrorhagia prolifera* (L.) P.W.Ball & Heywood
450. *Sabulina tenuifolia* Rchb. IT-0-SIENA-00719  
Z, Italien, Siena, hortus botanicus, spontanea / HB  
Siena / Giessen 2023
451. *Silene alpestris* Jacq. AT-0-KL-2019/4481  
Z, K: Eisenkappel-Vellach/Želesna Kapla-Bela, Obir,  
Eisenkappler Hütte / Klagenfurt 2020
452. *Silene borysthena* (Gruner) Walters RO-0-CLA-4124  
Z, RO, Marea Neagră, Tuzla, 44°00'N 28°39'E / Cluj-  
Napoca 2021
453. *Silene bupleuroides* L.
454. *Silene chalcedonica* (L.) E.H.L.Krause
455. *Silene coeli-rosa* (L.) Godr.
456. *Silene flos-jovis* (L.) Greuter & Burdet
457. *Silene pendula* L.
458. *Silene tatarica* (L.) Pers.  
Z, LT, the local area Liškiava, Varėna district / Šiauliai 2021
459. *Silene zawadzki* Herbich
460. *Vaccaria hispanica* (Mill.) Rauschert

## CELASTRACEAE

461. *Euonymus cornutus* Hemsl. ✱
462. *Euonymus japonicus* Thunb.

## CLEOMACEAE

463. *Cleome gynandra* L. UG-0-GIESS-2019-M-620  
Z, Uganda, Irmgard Jordan / Giessen 2021
464. *Cleome violacea* L.
465. *Polanisia trachysperma* Torr. & A.Gray

## CONVOLVULACEAE

466. *Ipomoea coccinea* L.

## CRASSULACEAE

467. *Rhodiola kirilowii* (Regel) Maxim.

## DATISCAEAE

468. *Datisca cannabina* L.

## ERICACEAE

469. *Bruckenthalia spiculifolia* (Salisb.) Rchb.
470. *Gaultheria shallon* Pursh US-0-THARF-S2003/531

## EUPHORBIACEAE

471. *Euphorbia marginata* Pursh

## FABACEAE

472. *Caragana pygmaea* (L.) DC.
473. *Coronilla scorpioides* (L.) W.D.J.Koch XX-0-MJG-19--45270
474. *Glycine max* (L.) Merr. XX-0-LZ-AN-142-1970
475. *Hedysarum hedysaroides* (L.) Schinz & Thell.
476. *Lathyrus aphaca* L. XX-0-ULM-1998-F-32
477. *Lathyrus chloranthus* Boiss.
478. *Lathyrus clymenum* L. XX-0-AJUDA-18.309
479. *Lathyrus latifolius* L.
480. *Lathyrus niger* (L.) Bernh.
481. *Lathyrus nissolia* L.
482. *Lathyrus ochrus* (L.) DC.
483. *Lathyrus sativus* L.
484. *Lathyrus undulatus* Boiss.
485. *Lathyrus venetus* (Mill.) Wohlf.
486. *Lens culinaris* Medik.
487. *Lupinus luteus* L. XX-0-BREMR-xxxx/3069
488. *Medicago orbicularis* (L.) Bartal. IT-0-SIENA-00685

489. *Medicago polymorpha* L.  
Z, Chemin de l'Evolution, Parc Floral, 12e, Paris, Île-  
de-France / Paris 2022
490. *Pisum sativum* L. 'Aamisepp'
491. *Securigera varia* (L.) Lassen MD-0-TU-1988-0021-1  
Z, Moldova, 1988
492. *Trifolium angustifolium* L.  
Z, France, Armissan (11) alt. 74 m. / Paris  
Nat.Museum, 2014
493. *Trifolium incarnatum* L.
494. *Trifolium lupinaster* L.
495. *Trifolium stellatum* L. IT-0-SIENA-01138
496. *Trigonella caerulea* (L.) Ser.
497. *Trigonella foenum-graecum* L.

### **GENTIANACEAE**

498. *Swertia speciosa* G.Don XX-0-LYAK-1992-0962

### **GERANIACEAE**

499. *Erodium manescavi* Coss.
500. *Geranium biuncinatum* Kokwaro
501. *Geranium thunbergii* Siebold & Zucc. ex Lindl. et Paxton

### **HYDRANGEACEAE**

502. *Kirengeshoma palmata* Yatabe

### **HYDROPHYLLACEAE**

503. *Nemophila maculata* Benth. ex Lindl. XX-0-BHU-F-2010-40

### **HYPERICACEAE**

504. *Hypericum ascyron* L.
505. *Hypericum orientale* L.

### **LAMIACEAE**

506. *Amethystea caerulea* L.
507. *Betonica alopecuros* L.  
Z, Bärental 900-1.600 m;Obir 1.600-2.000 m / Wien  
Belvedere 2017
508. *Dracocephalum moldavica* L.
509. *Dracocephalum nutans* L.
510. *Dracocephalum ruyschiana* L.
511. *Elsholtzia ciliata* (Thunb.) Hyl.
512. *Lallemantia canescens* (L.) Fisch. & C.A.Mey.

513. *Lavandula multifida* L. XX-0-MB-1964/1133  
514. *Leonotis nepetifolia* (L.) R.Br.  
515. *Leonurus japonicus* Houtt.  
516. *Monarda citriodora* Cerv. ex Lag. XX-0-KL-2019/4448  
517. *Monardella odoratissima* Benth.  
518. *Nepeta nervosa* Royle ex Benth.  
519. *Nepeta stewartiana* Diels  
520. *Ocimum tenuiflorum* L.  
521. *Perilla frutescens* (L.) Britton  
522. *Salvia amplexicaulis* Lam.  
523. *Salvia coccinea* Buc'hoz ex Etl.  
524. *Salvia columbariae* Benth.  
525. *Salvia hispanica* L.  
526. *Salvia patens* Cav.  
527. *Salvia pratensis* L.  
Z, Hainburg 200-480 m / Wien Belvedere 2017  
528. *Salvia przewalskii* Maxim.  
529. *Salvia sclarea* L.  
530. *Salvia viridis* L. XX-0-IAGBXXXX9841G  
531. *Scutellaria baicalensis* Georgi  
532. *Stachys affinis* Bunge  
533. *Stachys alpina* L.  
534. *Teucrium botrys* L.  
535. *Teucrium canadense* L.  
536. *Teucrium orientale* L.  
537. *Ziziphora capitata* L. XX-0-MJG-190069490

### LINDERNIACEAE

538. *Torenia fournieri* Linden ex E.Fourn. XX-0-Z-20040488

### LOASACEAE

539. *Nasa triphylla* (Juss.) Weigend XX-0-BRAUN-7934514

### MALVACEAE

540. *Alcea rugosa* Alef.  
541. *Anoda cristata* (L.) Schltldl.  
542. *Gossypium arboreum* L.  
543. *Hibiscus trionum* L.  
544. *Kitaibela vitifolia* Willd.  
545. *Malope trifida* Cav.

## **MELIACEAE**

546. *Turraea heterophylla* Sm.

## **MENISPERMACEAE**

547. *Menispermum dauricum* DC.

## **MONTIACEAE**

548. *Cistanthe grandiflora* (Lindl.) Schltldl.

## **MUNTINGIACEAE**

549. *Muntingia calabura* L.

XX-0-GZU-91 102066

## **MYRTACEAE**

550. *Myrtus communis* L. 'Microphylla'

## **NYCTAGINACEAE**

551. *Mirabilis nyctaginea* (Michx.) MacMill.

## **OLEACEAE**

552. *Abeliophyllum distichum* Nakai

## **ONAGRACEAE**

553. *Chamaenerion dodonaei* (Vill.) Schur

554. *Clarkia bottae* (Spach) F.H.Lewis & M.E.Lewis

555. *Clarkia breweri* (A.Gray) Greene

556. *Clarkia purpurea* (Curtis) A.Nelson & J.F.Macbr.

XX-0-HOH-SYS-6461

557. *Epilobium densiflorum* (Lindl.) Hoch & P.H.Raven

558. *Lopezia racemosa* Cav.

## **PAEONIACEAE**

559. *Paeonia humilis* Retz.

560. *Paeonia mlokosewitschii* Lomakin

561. *Paeonia tenuifolia* L.

## **PAPAVERACEAE**

562. *Glaucium flavum* Crantz

563. *Glaucium flavum* var. *aurantiacum* (Martrin-Donos) Rouy & Foucaud

564. *Papaver rhoeas* L.

## **PASSIFLORACEAE**

565. *Passiflora amethystina* J.C.Mikan

XX-0-ULM-2012-G-118

566. *Passiflora arida* (Mast. & Rose) Killip

567. *Passiflora foetida* L.  
568. *Passiflora morifolia* Mast. XX-0-STUTB-1491-0  
569. *Passiflora suberosa* L. XX-0-AJUDA-19.454

### **PHYLLANTHACEAE**

570. *Phyllanthus grandifolius* L.

### **PHYTOLACCACEAE**

571. *Rivina humilis* L. XX-0-STGAL-16639

### **PITTOSPORACEAE**

572. *Pittosporum crassifolium* Banks & Sol. ex A.Cunn.

### **PLANTAGINACEAE**

573. *Anarrhinum corsicum* Jord. & Fourr.  
574. *Antirrhinum controversum* Pau  
575. *Antirrhinum siculum* Mill.  
Z, Italy, Sicily, Syracuse / Paris Nat. Museum 2014  
576. *Digitalis lanata* Ehrh.  
577. *Digitalis lutea* L.  
578. *Digitalis parviflora* Jacq.  
579. *Digitalis viridiflora* Lindl. BG-0-GB-2001-1082  
580. *Globularia vulgaris* L.  
581. *Linaria pinifolia* (Poir.) Thell. 'Flamenco'  
582. *Penstemon confertus* Douglas  
583. *Plantago aristata* Michx.  
584. *Plantago camtschatica* Link  
Z, Russia, near Chernayatino village / Vladivostok 2013  
585. *Plantago coronopus* L.  
586. *Plantago major* L. 'Purple Perversion'  
587. *Synthyris platycarpa* Gail & Pennell

### **PLUMBAGINACEAE**

588. *Bukiniczia cabulica* (Boiss.) Lincz.

### **POLEMONIACEAE**

589. *Collomia grandiflora* Douglas ex Lindl.  
590. *Gilia achilleifolia* Benth.  
591. *Gilia capitata* Sims  
592. *Phlox drummondii* Hook. XX-0-GIESS-0-U-1786  
593. *Polemonium pauciflorum* S.Watson

## POLYGONACEAE

594. *Fagopyrum tataricum* (L.) Gaertn.  
595. *Homalocladium platycladum* (F.Muell.) L.H.Bailey  
596. *Rheum palmatum* L. CN-0-GIESS-2006-J-304  
Z, China, Shaanxsii, Tai Bai Shan, 2600m / Giessen 2021

## PRIMULACEAE

597. *Androsace albana* Stev.  
598. *Androsace chaixii* Gren. & Godron  
599. *Lysimachia davurica* Ledeb.  
600. *Lysimachia minoricensis* J.J.Rodr. ES-0-MA-00086  
601. *Lysimachia sikokiana* Miq.  
602. *Primula farinosa* L. EE-0-TU-A-2018-0589  
Z, Estonia, Hiiu county, Kaleste, 2017  
603. *Primula latifolia* Lapeyr.  
604. *Primula veris* subsp. *macrocalyx* (Bunge) Lüdi GE-0-BONN-26191

## RANUNCULACEAE

605. *Aconitum anthora* L.  
606. *Aconitum napellus* L. UA-0-TU-1987-0039-1  
Z, Ukraine, Transcarpathia, 1987  
607. *Actaea pachypoda* f. *rubrocarpa* (Killip) Fernald  
608. *Actaea rubra* f. *neglecta* (Gillman) B.L.Rob.  
609. *Aquilegia ecalcarata* Maxim.  
610. *Aquilegia longissima* A.Gray ex S.Watson  
611. *Aquilegia parviflora* Ledeb.  
612. *Aquilegia vulgaris* L. 'Tower Light Blue'  
613. *Aquilegia vulgaris* L. 'Tower White'  
614. *Aquilegia vulgaris* L. 'Woodside Red'  
615. *Cimicifuga europaea* Schipcz.  
616. *Clematis campaniflora* Brot.  
617. *Clematis fruticosa* var. *lobata* Maxim.  
618. *Clematis ispahanica* Boiss. XX-0-STR-1979012  
619. *Clematis koreana* Kom.  
620. *Clematis pitcheri* Torr. & Gray  
621. *Clematis potaninii* Maxim.  
622. *Clematis recta* L.  
623. *Clematis songorica* Bunge  
624. *Clematis stans* Siebold & Zucc.  
625. *Clematis tibetana* var. *vernayi* (C.E.C.Fisch.) Grey-Wilson NP-0-B-2810484  
626. *Delphinium glareosum* Greene



627. *Delphinium grandiflorum* L.  
 628. *Eranthis cilicica* Schott & Kotschy  
 629. *Eranthis hyemalis* (L.) Salisb.  
 630. *Helleborus xsternii* Turrill  
 631. *Nigella arvensis* L. DE-O-GIESS-2013-J-28  
 Z, Deutschland, Vorpommern, Uecker-Randow /  
 Giessen 2021  
 632. *Nigella nigellastrum* (L.) Willk. XX-O-MJG-19--45700  
 633. *Nigella sativa* L.  
 634. *Pulsatilla dahurica* (Fisch. ex DC.) Spreng.  
 635. *Pulsatilla flavescens* (Zucc.) Juz.  
 636. *Pulsatilla tatewakii* Kudô  
 637. *Ranunculus amplexicaulis* L.  
 638. *Thalictrum rochebruneanum* Franch. & Sav. XX-O-BRAUN-7433624

### RESEDACEAE

639. *Reseda alba* L.  
 640. *Reseda odorata* L.  
 641. *Sesamoides interrupta* (Boreau) G.López

### ROSACEAE

642. *Dryas drummondii* Richards. ex Hook.  
 643. *Filipendula glaberrima* Nakai  
 644. *Potentilla hyparctica* Malte 'Nana'  
 645. *Potentilla rupestris* L.  
 646. *Sorbus cashmiriana* Hedl. ❄

### RUBIACEAE

647. *Asperula arvensis* L. XX-O-ULM-2008-F-177  
 648. *Crucianella angustifolia* L.  
 649. *Hamelia patens* Jacq.  
 650. *Hydnophytum papuanum* Becc.  
 651. *Rubia cordifolia* L.

### RUTACEAE

652. *Zanthoxylum americanum* Mill.

### SAPINDACEAE

653. *Cardiospermum halicacabum* L. XX-O-Z-20000551

### SAXIFRAGACEAE

654. *Heuchera pulchella* Wooton & Standl.

655. *Saxifraga cherlerioides* var. *rebunshirensis* (Engl. & Irmsch.) Hara

### SCROPHULARIACEAE

656. *Alonsoa meridionalis* (L.f.) Kuntze CL-O-TEBLI-02343  
Z, Chile, Valparaíso Region, Santiago - Algarrobo /  
Teplice 2023

657. *Zaluzianskya capensis* (L.) Walp.

### SOLANACEAE

658. *Anisodus luridus* Link XX-O-UNKAR-2011-5414

659. *Browallia americana* L.

660. *Datura quercifolia* Kunth

661. *Hyoscyamus albus* L.

662. *Nicotiana acuminata* (Graham) Hook. XX-O-MJG-190047030

663. *Nicotiana glauca* Graham

664. *Nicotiana glutinosa* L.

665. *Nicotiana knightiana* Goodsp.

666. *Nicotiana langsdorffii* Weinm.

667. *Nicotiana longiflora* Cav. FR-O-TAL-19970053W

668. *Nicotiana mutabilis* Stehmann & Semir

669. *Nicotiana suaveolens* Lehm.

670. *Nicotiana sylvestris* Speg.

671. *Nicotiana tabacum* L.

672. *Nolana humifusa* (Gouan) I.M.Johnst. XX-O-LZ-AN-128-1970

673. *Nolana paradoxa* Lindl. XX-O-BRAUN-7888785

674. *Petunia axillaris* (Lam.) Britton, Sterns & Poggenb. xx-O-DR-004104

675. *Petunia exserta* Stehmann

676. *Petunia parviflora* Juss.

677. *Salpiglossis sinuata* Ruiz et Pav.

678. *Schizanthus pinnatus* Ruiz et Pav.

679. *Solanum abutiloides* (Griseb.) Bitter & Lillo

680. *Solanum betaceum* Cav.

681. *Solanum pseudocapsicum* L.

### STYRACACEAE

682. *Pterostyrax hispidus* Siebold & Zucc.

### TALINACEAE

683. *Talinum paniculatum* (Jacq.) Gaertn.

### VERBENACEAE

684. *Duranta erecta* L.

685. *Lantana camara* L.  
Z, Cyprus, Protaras
686. *Lippia dulcis* Trevir.
687. *Verbena rigida* Spreng.

## **VIOLACEAE**

688. *Viola mirabilis* L.  
Z, Estonia, Saare county, Neemi, 58.4809°, 23.1104°,  
20.08.2007

EE-0-TU-2011-0526-1

## Names and abbreviations of botanical gardens in the Index Seminar 2023

Brno Univ Masaryk	Masaryk University Faculty of Science Botanical Garden
Chemnitz	Botanischer Garten der Stadt Chemnitz
Cluj-Napoca Univ	Universitatea De Stiinte Agricole Gradina Agrobotanica
Giessen	Botanischer Garten der Justus-Liebig Universität Giessen
Hamburg	Biozentrum Klein Flottbek und Botanischer Garten Hamburg
Klagenfurt	Kärntner Botanikzentrum
Mainz	Botanischen Garten <i>der</i> Johannes Gutenberg-Universität Mainz
Montreal	Montreal Botanical Garden / Jardin botanique de Montréal
München	Botanischer Garten München-Nymphenburg
Paris	Jardin botanique de la Ville de Paris
Paris Nat. Museum	National Museum "d'Histoire Naturelle"- Seed Bank
Parma	Orto Botanico Università di Parma
Plzen	Zoological and Botanical Garden of the Plzen Town
Praha Univ	Charles University Botanic Garden (Botanická zahrada University Karlovy)
Reykjavik	Hortus Botanicus Reykjavikensis
Rogow	Rogów Arboretum of Warsaw University of Life Sciences
Salzburg	University of Salzburg. Department of Environment & Biodiversity
Stockholm	Bergius Botanic Garden Stockholm University
Šiauliai	Šiauliai Academy Botanical Garden, Vilnius University
Teplice	Teplice Botanical Garden
Zürich Univ	Botanischer Garten der Universität Zürich
Warsaw	Polish Academy of Sciences Botanical Garden Center for Biological Diversity Conservation in Powsin
Wien Belvedere	Bundesgärten Wien und Innsbruck (Belvedere)
Vladivostok	Botanical Garden-Institute of the Far Eastern Branch, Russian Academy of Science

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

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

<https://www.gbif.org/species/6>

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<https://plutof.ut.ee/>

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Ref. n . . . . .

DESIDERATA 2023


Please indicate your requests, one number per box and forward **before**  
**31. March 2024**

Your address:

**In case of non-IPEN members, please take note of the Convention on the exchange of plant material on the order form and sign it. Otherwise, we cannot send you seeds!**

## Agreement on the supply of living plant material for non-commercial purposes leaving the International Plant Exchange Network

Against the background of the provisions and decisions of the Convention on Biological Diversity of 1992 (CBD) and in particular those on access to genetic resources and benefit-sharing, the garden is dedicated to promoting the conservation, sustainable use, and research of biological diversity. The garden therefore expects its partners in acquiring, maintaining, and transferring plant material to always act in accordance with the CBD and the Convention on the International Trade in Endangered Species (CITES).

The responsibility for legal handling of the plant material passes on to the recipient upon receipt of the material. The requested plant material will be supplied to the recipient only on the following conditions:

1. Based on this agreement, the plant material is supplied only for non-commercial use such as scientific study and educational purposes as well as environmental protection. Should the recipient at a later date intend a commercial use or a transfer for commercial use, the country of origin's prior informed consent (PIC) must be obtained in writing before the material is used or transferred. The recipient is responsible for ensuring an equitable sharing of benefits.
2. On receiving the plant material, the recipient endeavours to document the received plant material, its origin (country of origin, first receiving garden, „donor“ of the plant material, year of collection) as well as the acquisition and transfer conditions in a comprehensible manner.
3. In the event that scientific publications are produced based on the supplied plant material, the recipient is obliged to indicate the origin of the material (the supplying garden and if known the country of origin) and to send these publications to the garden and to the country of origin without request.
4. On request, the garden will forward relevant information on the transfer of the plant material to the body charged with implementing the CBD.
5. The recipient may transfer the received plant material to third parties only under these terms and conditions and must document the transfer in a suitable manner (e.g. by using the documentation form, such as provided in Annex 1.3).

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I accept the above conditions.

Date, Signature

Recipient's name and address, stamp



