



# INDEX SEMINUM

ANNO 2024 COLLECTORUM QUAE

HORTUS BOTANICUS

UNIVERSITATIS TARTUENSIS

(ANNO DOMINI 1803)

PRO MUTUA

COMMUTATIONE OFFERT

Tartu 2024

# **INDEX SEMINUM**

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**HORTUS BOTANICUS**

**UNIVERSITATIS TARTUENSIS**

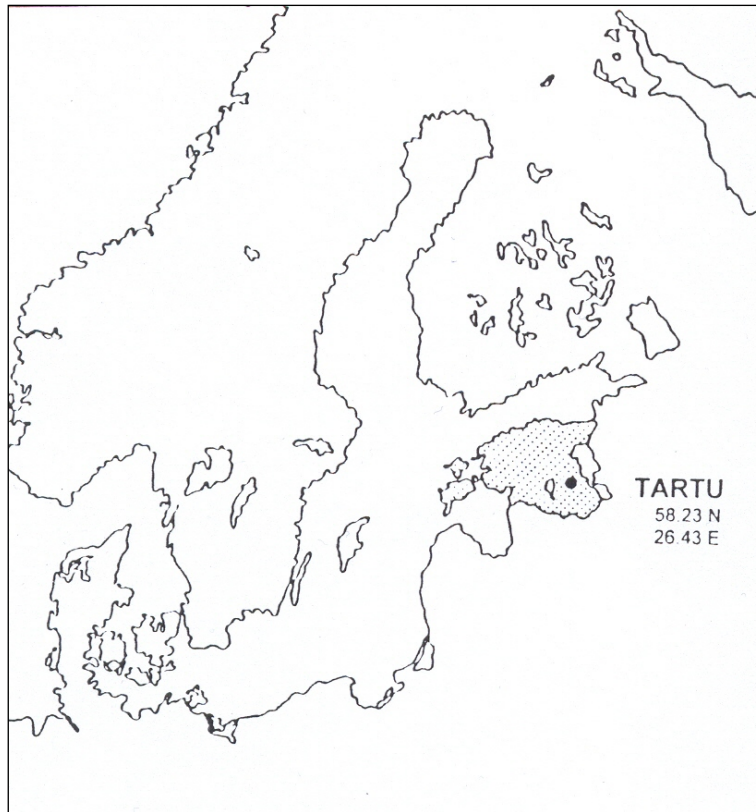
(ANNO DOMINI 1803)

PRO MUTUA COMMUTATIONE OFFERT

EDITOR KERSTI TAMBETS

TARTU 2024

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### Indicationes climatice

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** - propagules from cultivated plant of known wild origin

**WS** - propagules direct from the wild

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

\* - stored at 1°C

Cover photo by Katrin Mäeots (*Pogonia ophioglossoides* (L.) Ker Gawl., *Trichophorum alpinum* (L.) Pers.)

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,

University of Tartu Botanical Garden.

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) Propagules collected in the wild

### MONILOPHYTA / POLYPODIOPSIDA

#### ASPLENIACEAE

1. *Asplenium adiantum-nigrum* L. ✨ ES-0-TU391625  
WS, Spain, Catalonia, Pallars Sobirà; On the way  
from Espot to lake St. Maurici; On a boulder  
2024-08-10
2. *Asplenium fontanum* (L.) Bernh. ✨ ES-0-TU391623  
WS, Spain, Catalonia, Baix Llobregat; Collbató  
41.58722, 1.84035, 2024-08-12

#### PTERIDACEAE

3. *Cryptogramma crispera* (L.) R.Br. ex Hook. ✨ ES-0-TU391621  
WS, Spain, Catalonia, Pallars Sobirà; Espot  
42.59944, 0.98188, 2024-08-10

### ANTHOPHYTA / MONOCOTYLEDONAE

#### ASPARAGACEAE

4. *Maianthemum bifolium* (L.) F.W.Schmidt EE-0-TU391681  
WS, Estonia, Põlva county, Rahumäe  
58.05536, 27.38463, 2024-10-06

#### CYPERACEAE

5. *Bolboschoenus maritimus* (L.) Palla EE-0-TU391641  
WS, Estonia, Pärnu county, Pärnu city  
58.36610, 24.52510, 2024-08-12
6. *Carex appropinquata* Schumach. EE-0-TU391671  
WS, Estonia, Võru county, Ähijärve  
57.68597, 26.52035, 2024-07-01
7. *Carex arenaria* L. EE-0-TU391685  
WS, Estonia, Pärnu county, Kabli  
57.98756, 24.42215, 2024-08-11
8. *Carex canescens* L. EE-0-TU391599  
WS, Estonia, Võru county, Lüübnitsa  
58.05510, 27.59580, 2024-06-24

9. *Carex elongata* L. EE-0-TU391670  
WS, Estonia, Võru county, Ähijärve  
57.68410, 26.51855, 2024-07-01
10. *Carex leporina* L. EE-0-TU391660  
WS, Estonia, Põlva county, Toolamaa  
58.11552, 27.36933, 2024-07-13
11. *Carex vulpina* L. EE-0-TU391666  
WS, Estonia, Valga county, Tsirgumäe  
57.59677, 26.33095, 2024-07-02
12. *Eriophorum angustifolium* Honck. EE-0-TU391600  
WS, Estonia, Võru county, Lüübniitsa  
58.05420, 27.59640, 2024-06-24
13. *Eriophorum latifolium* Hoppe EE-0-TU391669  
WS, Estonia, Võru county, Ähijärve  
57.71620, 26.50364, 2024-07-01
14. *Eriophorum vaginatum* L. EE-0-TU391661  
WS, Estonia, Põlva county, Toolamaa  
58.12127, 27.37353, 2024-07-13

## JUNCACEAE

15. *Luzula campestris* (L.) DC. EE-0-TU391601  
WS, Estonia, Võru county, Lüübniitsa  
58.05440, 27.59810, 2024-06-16

## MELANTHIACEAE

16. *Paris quadrifolia* L. EE-0-TU391639  
WS, Estonia, Pärnu county, Laiksaare  
58.09382, 24.67955, 2024-08-13

## POACEAE

17. *Alopecurus pratensis* L. EE-0-TU391591  
WS, Estonia, Võru county, Karisöödi  
57.54650, 26.57620, 2024-07-02
18. *Anthoxanthum odoratum* L. EE-0-TU391597  
WS, Estonia, Põlva county, Toolamaa  
58.11590, 27.36880, 2024-07-13
19. *Brachypodium sylvaticum* (Huds.) P.Beauv. EE-0-TU391636  
WS, Estonia, Pärnu county, Laiksaare  
58.09461, 24.67336, 2024-08-13
20. *Bromus hordeaceus* L. EE-0-TU391619  
WS, Estonia, Harju county, Paldiski  
59.37590, 24.03640, 2024-06-08

- |     |  |               |
|-----|--|---------------|
| 21. | <i>Calamagrostis arundinacea</i> (L.) Roth<br>WS, Estonia, Põlva county, Mägiotsa<br>58.16180, 27.34762, 2024-08-05      | EE-0-TU391654 |
| 22. | <i>Danthonia decumbens</i> (L.) DC.<br>WS, Estonia, Võru county, Korela<br>57.88448, 27.70188, 2024-08-07                | EE-0-TU391652 |
| 23. | <i>Deschampsia flexuosa</i> (L.) Trin.<br>WS, Estonia, Võru county, Lutepää<br>57.91156, 27.65155, 2024-08-07            | EE-0-TU391653 |
| 24. | <i>Festuca pratensis</i> Huds.<br>WS, Estonia, Võru county, Karisöödi<br>57.54727, 26.57905, 2024-07-02                  | EE-0-TU391593 |
| 25. | <i>Helictotrichon pubescens</i> (Huds.) Pilg.<br>WS, Estonia, Võru county, Audjassaare<br>58.05372, 27.59851, 2024-06-16 | EE-0-TU391586 |
| 26. | <i>Leymus arenarius</i> (L.) Hochst.<br>WS, Estonia, Pärnu county, Kabli<br>58.00110, 24.43140, 2024-08-11               | EE-0-TU391617 |
| 27. | <i>Melica nutans</i> L.<br>WS, Estonia, Võru county, Karisöödi<br>57.54660, 26.57650, 2024-07-02                         | EE-0-TU391592 |
| 28. | <i>Molinia caerulea</i> (L.) Moench<br>WS, Estonia, Põlva county, Toolamaa<br>58.12024, 27.36978, 2024-08-14             | EE-0-TU391635 |
| 29. | <i>Nardus stricta</i> L.<br>WS, Estonia, Võru county, Õrsava<br>57.93002, 27.65511, 2024-09-05                           | EE-0-TU391628 |
| 30. | <i>Poa nemoralis</i> L.<br>WS, Estonia, Jõgeva county, Laiuse<br>58.78186, 26.50325, 2024-10-08                          | EE-0-TU391678 |

### **SCHEUCHZERIACEAE**

- |     |  |               |
|-----|--|---------------|
| 31. | <i>Scheuchzeria palustris</i> L.<br>WS, Estonia, Tartu county, Illi<br>58.19380, 26.43060, 2024-09 | EE-0-TU391626 |
|-----|--|---------------|

### **ANTHOPHYTA / EUDICOTYLEDONAE**

#### **APIACEAE**

- |     |  |               |
|-----|--|---------------|
| 32. | <i>Angelica archangelica</i> subsp. <i>litoralis</i> (Fr.) Thell.<br>WS, Estonia, Pärnu county, Pärnu city<br>58.34610, 24.56910, 2024-08-12 | EE-0-TU391616 |
|-----|--|---------------|



33. *Anthriscus sylvestris* (L.) Hoffm. EE-0-TU391662  
WS, Estonia, Valga county, Lüllemäe  
57.73648, 26.40083, 2024-07-03
34. *Cicuta virosa* L. EE-0-TU391634  
WS, Estonia, Võru county, Laossina  
58.03061, 27.58614, 2024-09-01
35. *Heracleum sibiricum* L. EE-0-TU391646  
WS, Estonia, Pärnu county, Majaka  
57.98713, 24.42237, 2024-08-11
36. *Peucedanum palustre* (L.) Moench EE-0-TU391588  
WS, Estonia, Võru county, Lüübnitsa  
58.05960, 27.57770, 2024-10-06
37. *Pimpinella saxifraga* L. EE-0-TU391647  
WS, Estonia, Pärnu county, Majaka  
57.98732, 24.42247, 2024-08-11
38. *Sium latifolium* L. EE-0-TU391590  
WS, Estonia, Võru county, Karisöödi  
57.54650, 26.57620, 2024-10-06

## **ASTERACEAE**

39. *Achillea salicifolia* Besser EE-0-TU391650  
WS, Estonia, Viljandi county, Kivilõppe  
58.25376, 25.96509, 2024-08-10
40. *Bidens cernua* L. EE-0-TU391680  
WS, Estonia, Põlva county, Kassilaane  
58.05622, 27.38139, 2024-10-06
41. *Centaurea jacea* L. EE-0-TU391644  
WS, Estonia, Pärnu county, Pärnu city  
58.34663, 24.56674, 2024-08-12
42. *Centaurea scabiosa* L. EE-0-TU391637  
WS, Estonia, Viljandi county, Sarja  
58.15766, 25.25372, 2024-08-13
43. *Cirsium arvense* (L.) Scop. EE-0-TU391640  
WS, Estonia, Pärnu county, Kabli  
57.99837, 24.42220, 2024-08-12
44. *Cirsium heterophyllum* (L.) Hill EE-0-TU391612  
WS, Estonia, Võru county, Ähijärve  
57.71270, 26.50330, 2024-07-02
45. *Cirsium palustre* (L.) Scop. EE-0-TU391615  
WS, Estonia, Võru county, Ähijärve  
57.71350, 26.50320, 2024-07-02
46. *Cirsium vulgare* (Savi) Ten. EE-0-TU391651  
WS, Estonia, Võru county, Lüübnitsa  
58.05697, 27.59590, 2024-08-09

47. *Crepis paludosa* (L.) Moench EE-0-TU391665  
WS, Estonia, Võru county, Karisöödi  
57.54620, 26.57915, 2024-07-02
48. *Erigeron acer* L. EE-0-TU391643  
WS, Estonia, Pärnu county, Kabli  
57.99509, 24.42030, 2024-08-12
49. *Eupatorium cannabinum* L. EE-0-TU391676  
WS, Estonia, Tartu county, Elistvere  
58.57556, 26.69254, 2024-10-08
50. *Gnaphalium sylvaticum* L. EE-0-TU391679  
WS, Estonia, Jõgeva county, Vilina  
58.77711, 26.47926, 2024-10-08
51. *Hieracium umbellatum* L. EE-0-TU391633  
WS, Estonia, Võru county, Rääsolaane  
58.01182, 27.51858, 2024-09-01
52. *Inula britannica* L. EE-0-TU391649  
WS, Estonia, Viljandi county, Kivilõppe  
58.25369, 25.96428, 2024-08-10
53. *Lactuca tatarica* (L.) C.A.Mey. EE-0-TU391618  
WS, Estonia, Pärnu county, Kabli  
58.00070, 24.43040, 2024-08-12
54. *Lapsana communis* L. EE-0-TU391620  
WS, Estonia, Jõgeva county, Laiuse  
58.78064, 26.50334, 2024-10-08
55. *Leontodon autumnalis* L. EE-0-TU391603  
WS, Estonia, Võru county, Rääsolaane  
58.01210, 27.52040, 2024-07-27
56. *Leontodon hispidus* L. EE-0-TU391594  
WS, Estonia, Võru county, Koemetsa  
57.66930, 26.58290, 2024-07-02
57. *Pilosella officinarum* F.W.Schultz & Sch.Bip. EE-0-TU391607  
WS, Estonia, Võru county, Härmä  
57.79200, 27.37090, 2024-06-23
58. *Senecio sylvaticus* L. EE-0-TU391602  
WS, Estonia, Põlva county, Rahumäe  
58.07220, 27.43560, 2024-07-28
59. *Solidago virgaurea* L. EE-0-TU391606  
WS, Estonia, Võru county, Nedsaja  
57.88280, 27.63280, 2024-08-07
60. *Tragopogon pratensis* L. EE-0-TU391608  
WS, Estonia, Võru county, Väiko-Härmä  
57.79000, 27.36800, 2024-06-23

## BETULACEAE

61. *Betula humilis* Schrank EE-0-TU391684  
WS, Estonia, Võru county, Lüübnitsa  
58.05944, 27.57814, 2024-10-06

## BRASSICACEAE

62. *Cardamine impatiens* L. EE-0-TU391668  
WS, Estonia, Valga county, Tsirgumäe  
57.59812, 26.33153, 2024-07-02

## CAMPANULACEAE

63. *Campanula cervicaria* L. EE-0-TU391632  
WS, Estonia, Põlva county, Kikka  
58.00838, 27.44352, 2024-09-01

## CANNABACEAE

64. *Humulus lupulus* L. EE-0-TU391674  
WS, Estonia, Valga county, Tsirgumäe  
57.59810, 26.33141, 2024-10-26

## CAPRIFOLIACEAE

65. *Knautia arvensis* (L.) Coult. EE-0-TU391657  
WS, Estonia, Võru county, Rääsolaane  
58.01205, 27.51931, 2024-07-27

## CARYOPHYLLACEAE

66. *Honckenya peploides* (L.) Ehrh. EE-0-TU391642  
WS, Estonia, Pärnu county, Kabli  
57.99667, 24.41990, 2024-08-12
67. *Myosoton aquaticum* (L.) Moench EE-0-TU391587  
WS, Estonia, Võru county, Lüübnitsa  
58.05740, 27.59590, 2024-10-06
68. *Silene nutans* L. EE-0-TU391648  
WS, Estonia, Pärnu county, Rannametsa  
58.13431, 24.50952, 2024-08-11

## DROSERACEAE

69. *Drosera rotundifolia* L. EE-0-TU391627  
WS, Estonia, Tartu county, Ketneri  
58.15730, 26.42140, 2024-08-21

## ERICACEAE

70. *Andromeda polifolia* L. EE-0-TU391589  
WS, Estonia, Võru county, Lüübnitsa  
58.05930, 27.57790, 2024-10-06
71. *Empetrum nigrum* L. EE-0-TU391624  
WS, Estonia, Tartu county, Illi  
58.18770, 26.42710, 2024-08-26
72. *Vaccinium uliginosum* L. EE-0-TU391699  
WS, Estonia, Põlva county, Toolamaa  
58.12060, 27.37130, 2024-08-14

## FABACEAE

73. *Ononis arvensis* L. EE-0-TU391645  
WS, Estonia, Pärnu county, Pärnu city  
58.36648, 24.52444, 2024-08-12
74. *Tetragonolobus maritimus* (L.) Roth EE-0-TU391686  
WS, Estonia, Saare county, Kuressaare  
58.24050, 22.47920, 2024-07-22
75. *Trifolium arvense* L. EE-0-TU391604  
WS, Estonia, Võru county, Voropi  
57.84317, 27.61532, 2024-09-05
76. *Trifolium aureum* Pollich EE-0-TU391638  
WS, Estonia, Viljandi county, Sarja  
58.15765, 25.25405, 2024-08-13
77. *Vicia sylvatica* L. EE-0-TU391655  
WS, Estonia, Põlva county, Mägiotsa  
58.16190, 27.34979, 2024-08-05

## HYPERICACEAE

78. *Hypericum perforatum* L. EE-0-TU391585  
WS, Estonia, Võru county, Rääsolaane  
58.01213, 27.51882, 2024-09-01

## LAMIACEAE

79. *Acinos arvensis* (Lam.) Dandy EE-0-TU391631  
WS, Estonia, Võru county, Voropi  
57.84318, 27.61341, 2024-09-05
80. *Leonurus cardiaca* L. EE-0-TU391610  
WS, Estonia, Jõgeva county, Laiusevälja  
58.81200, 26.54510, 2024-10-08
81. *Lycopus europaeus* L. EE-0-TU391609  
WS, Estonia, Tartu county, Elistvere  
58.57450, 26.69570, 2024-10-08

82. *Stachys sylvatica* L. EE-0-TU391659  
WS, Estonia, Põlva county, Kõnnu  
58.19811, 27.34292, 2024-07-13

83. *Thymus serpyllum* L. EE-0-TU391605  
WS, Estonia, Võru county, Lutepää  
57.91140, 27.65100, 2024-08-07

### **MENYANTHACEAE**

84. *Menyanthes trifoliata* L. EE-0-TU391664  
WS, Estonia, Võru county, Koemetsa  
57.67214, 26.57737, 2024-07-02

### **OROBANCHACEAE**

85. *Rhinanthus minor* L. EE-0-TU391622  
WS, Estonia, Võru county, Ähijärve  
57.71420, 26.50420, 2024-07-02

### **PLANTAGINACEAE**

86. *Linaria vulgaris* Mill. EE-0-TU391630  
WS, Estonia, Võru county, Voropi  
57.84326, 27.61451, 2024-09-05

87. *Veronica longifolia* L. EE-0-TU391611  
WS, Estonia, Valga county, Tsirgumäe  
57.59600, 26.32610, 2024-10-26

### **POLEMONIACEAE**

88. *Polemonium caeruleum* L. EE-0-TU391658  
WS, Estonia, Põlva county, Kõnnu  
58.20150, 27.39825, 2024-07-13

### **POLYGONACEAE**

89. *Rumex acetosa* L. EE-0-TU391663  
WS, Estonia, Võru county, Koemetsa  
57.66962, 26.58435, 2024-07-02

90. *Rumex crispus* L. EE-0-TU391595  
WS, Estonia, Põlva county, Kõnnu  
58.19810, 27.34330, 2024-07-13

### **PRIMULACEAE**

91. *Lysimachia vulgaris* L. EE-0-TU391598  
WS, Estonia, Võru county, Lüübnitsa  
58.05700, 27.59590, 2024-10-27

## RANUNCULACEAE

92. *Caltha palustris* L. EE-0-TU391672  
WS, Estonia, Jõgeva county, Pudivere  
58.66990, 26.22311, 2024-06-01
93. *Ranunculus acris* L. EE-0-TU391613  
WS, Estonia, Võru county, Ähijärve  
57.71430, 26.50410, 2024-07-01

## ROSACEAE

94. *Agrimonia eupatoria* L. EE-0-TU391675  
WS, Estonia, Tartu county, Raigastvere  
58.58272, 26.65950, 2024-10-08
95. *Filipendula vulgaris* Moench EE-0-TU391667  
WS, Estonia, Valga county, Tsirgumäe  
57.59683, 26.33086, 2024-07-02
96. *Geum rivale* L. EE-0-TU391614  
WS, Estonia, Võru county, Ähijärve  
57.71169, 26.50244, 2024-07-01
97. *Geum urbanum* L. EE-0-TU391677  
WS, Estonia, Jõgeva county, Kuremaa  
58.73317, 26.53165, 2024-10-08
98. *Potentilla argentea* L. EE-0-TU391683  
WS, Estonia, Võru county, Rääsolaane  
58.01207, 27.51872, 2024-09-01
99. *Rubus saxatilis* L. EE-0-TU391656  
WS, Estonia, Põlva county, Rahumäe  
58.05513, 27.38524, 2024-07-28
100. *Sanguisorba minor* Scop. EE-0-TU391629  
WS, Estonia, Võru county, Voropi  
57.84310, 27.61543, 2024-09-05

## RUBIACEAE

101. *Galium verum* L. EE-0-TU391682  
WS, Estonia, Pärnu county, Kavaru  
58.26937, 24.19352, 2024-09-29

## SAXIFRAGACEAE

102. *Chrysosplenium alternifolium* L. EE-0-TU391673  
WS, Estonia, Põlva county, Rahumäe  
58.05269, 27.40700, 2024-05-25

## SCROPHULARIACEAE

103. *Verbascum nigrum* L. EE-0-TU391596  
WS, Estonia, Põlva county, Sillapää  
58.09090, 27.43450, 2024-07-08

## VIBURNACEAE

104. *Viburnum opulus* L. EE-0-TU391584  
WS, Estonia, Võru county, Tummelka  
57.67771, 27.13017, 2024-10-26

## 2) Propagules collected in our garden

### MONILOPHYTA / POLYPODIOPSIDA

#### ASPLENIACEAE

105. *Asplenium scolopendrium* L. ✨  
106. *Asplenium septentrionale* (L.) Hoffm. ✨ EE-0-TU-2009-0451-1  
Z, Estonia, Prangli Island, 2009

#### ATHYRIACEAE

107. *Athyrium spinulosum* (Maxim.) Milde ✨  
108. *Athyrium vidalii* (Franch. & Sav.) Nakai ✨  
109. *Deparia conilii* (Franch. & Sav.) M.Kato ✨  
110. *Diplazium sibiricum* (Turcz. ex Kunze) Sa.Kurata ✨  
Z, Russia, Altai

#### BLECHNACEAE

111. *Struthiopteris spicant* (L.) Weiss ✨

#### CYSTOPTERIDACEAE

112. *Cystopteris bulbifera* (L.) Bernh. ✨  
113. *Cystopteris fragilis* (L.) Bernh. ✨  
114. *Cystopteris sudetica* A.Braun & Milde ✨ EE-0-TU-A-2019-2128  
Z, Estonia, Ida-Viru county, Ontika, Klint forest, 2015  
GPS: 59.4434, 27.3129  
115. *Cystopteris ×laurentiana* (Weath.) Blasdell ✨  
Z, USA, Wisconsin / Chemnitz 2020  
116. *Gymnocarpium dryopteris* (L.) Newman ✨ EE-0-TU-A-2014-0748  
Z, Estonia, Tartu county, Vooremäe, 2012  
117. *Gymnocarpium fedtschenkoanum* Pojark. ✨  
Z, Pakistan, Shish Kush Chatral / Chemnitz 2018

118. *Gymnocarpium robertianum* (Hoffm.) Newman ✨ EE-0-TU-A-2014-0758  
Z, Estonia, Saare county, Ninase, 2012

## DENNSTAEDTIACEAE

119. *Dennstaedtia wilfordii* (T.Moore) H.Christ ✨

## DRYOPTERIDACEAE

120. *Cyrtomium fortunei* J.Sm. ✨
121. *Dryopteris ardechensis* Fraser-Jenk. ✨  
Z, S-Frankreich, Cevennen, Luech-Tal / Chemnitz  
2018
122. *Dryopteris clintoniana* (D.C.Eaton) Dowell ✨
123. *Dryopteris cristata* (L.) A.Gray ✨ EE-0-TU-A-2018-1056  
Z, Estonia, Pärnu county, Jäärja, fen, 2017 GPS:  
58.048786, 24.985058
124. *Dryopteris cycadina* (Franch. & Sav.) C.Chr. ✨
125. *Dryopteris hondoensis* Koidz. ✨
126. *Dryopteris intermedia* (Muhl. ex Willd.) A.Gray ✨  
Z, Canada: Québec: MRC Vaudreuil-Soulanges: L'Île  
Perrot. Forêt feuillue. ca 30 m. / Montreal 2016
127. *Dryopteris lacunosa* S.Jess., Zenner, Chr.Stark & Bujnoch ✨  
Z, Schweiz,Tessin, bei Bellinzona, Carasso, 400 m /  
Chemnitz 2018
128. *Dryopteris marginalis* (L.) A.Gray ✨
129. *Dryopteris pseudofilix-mas* (Fée) Rothm. ✨
130. *Dryopteris sieboldii* (T.Moore) Kuntze ✨
131. *Dryopteris stewartii* Fraser-Jenk. ✨
132. *Dryopteris wallichiana* (Spreng.) Hyl. ✨
133. *Polystichum acrostichoides* (Michx.) Schott ✨
134. *Polystichum aculeatum* (L.) Roth ✨
135. *Polystichum andersonii* Hopkins ✨  
Z, Canada, British Columbia, Garibaldi Parc /  
Chemnitz 2018
136. *Polystichum braunii* (Spenn.) Fée ✨
137. *Polystichum lonchitis* (L.) Roth ✨
138. *Polystichum luctuosum* (Kunze) T.Moore ✨
139. *Polystichum makinoi* (Tagawa) Tagawa ✨
140. *Polystichum neolobatum* Nakai ✨  
Z, China, Yunnan, Jade Dragon Snow Mts., Lijiang, ca.  
3000 m / Chemnitz 2018
141. *Polystichum rigens* Tagawa ✨
142. *Polystichum setiferum* (Forssk.) T.Moore ex Woyn. ✨
143. *Polystichum setigerum* (C.Presl) C.Presl ✨



144. *Polystichum tripteron* (Kunze) C.Presl ✨  
Z, Russia

## PTERIDACEAE

145. *Adiantum venustum* D.Don ✨

## THELYPTERIDACEAE

146. *Phegopteris connectilis* (Michx.) Watt ✨ EE-0-TU-A-2021-1681  
Z, Estonia, Tartu County, Pühaste, 2018
147. *Phegopteris decursive-pinnata* (H.C.Hall) Fée ✨

## WOODSIACEAE

148. *Woodsia obtusa* (Spreng.) Torr. ✨

## ANTHOPHYTA / MONOCOTYLEDONAE

### AMARYLLIDACEAE

149. *Allium acuminatum* Hook.  
150. *Allium amethystinum* Tausch  
151. *Allium atropurpureum* Waldst. & Kit.  
152. *Allium auctum* Omelczuk UA-0-TU-2007-0451-1  
Z, Ukraine, Tauria, Aju-Dag, 1980  
153. *Allium carinatum* subsp. *pulchellum* (Regel) Bonnier & Layens  
154. *Allium cernuum* Roth  
155. *Allium chloranthum* Boiss.  
156. *Allium cristophii* Trautv.  
157. *Allium farreri* Stearn  
158. *Allium flavum* L.  
159. *Allium grande* Lipsky  
Z, Russia, Dagestan, Mahatshkala  
160. *Allium hymenorhizum* Ledeb.  
161. *Allium insubricum* Boiss. & Reut.  
162. *Allium karataviense* Regel  
163. *Allium ledebourianum* Schult. & Schult.f.  
164. *Allium lenkoranicum* Misch. ex Grossh.  
165. *Allium lipskyanum* Vved.  
166. *Allium loratum* Baker  
167. *Allium lycaonicum* Siehe ex Hayek  
168. *Allium macedonicum* Zahar.  
169. *Allium orientale* Boiss.  
170. *Allium pskemense* B.Fedtsch.  
171. *Allium rosenbachianum* Regel  
172. *Allium sarawschanicum* Regel

173. *Allium schoenoprasum* L. EE-0-TU-A-2016-1091  
Z, Estonia, Saare county, Mullutu, 2015
174. *Allium sphaerocephalon* subsp. *trachypus* (Boiss. & Spruner) K.Richt.
175. *Allium stipitatum* Regel
176. *Allium strictum* Schrad.
177. *Allium tschimganicum* B.Fedtsch.
178. *Allium unifolium* Kellogg
179. *Allium wallichii* Kunth
180. *Allium woronowii* Miscz. ex Grossh.
181. *Allium zebdanense* Boiss. & Noë
182. *Narcissus rupicola* Dufour
183. *Nectaroscordum tripedale* (Trautv.) Traub

### ARACEAE

184. *Anthurium gracile* (Rudge) Lindl.  
Z, French Guiana
185. *Anthurium schlechtendalii* Kunth
186. *Arisaema amurense* Maxim. ✨
187. *Arisaema flavum* (Forssk.) Schott ✨
188. *Arum italicum* subsp. *albispathum* (Steven) Prime ✨
189. *Arum maculatum* L. ✨
190. *Arum orientale* M.Bieb. ✨
191. *Symplocarpus renifolius* Schott ex Tzvelev ✨ RU-0-TU-1987-0076-1  
Z, Russia, Sakhalin Reg., Lyutoga R., 1987

### ARECACEAE

192. *Chamaedorea oblongata* Mart.
193. *Ptychosperma elegans* (R.Br.) Blume
194. *Sabal minor* (Jacq.) Pers.
195. *Serenoa repens* (W.Bartram) Small

### ASPARAGACEAE

196. *Anthericum liliago* L.
197. *Anthericum ramosum* L. FR-0-P-2012g408  
Z, Fraissinet de Fourques, Lozère, l'Hom 1049m.  
France / Paris Mus 2018
198. *Asparagus maritimus* (L.) Mill.
199. *Asparagus tenuifolius* Lam.  
Z, Italia, Campriano/Monteroni d'Arbia / Siena 2006
200. *Barnardia japonica* (Thunb.) Schult. & Schult.f.
201. *Bellevalia paradoxa* (Fisch. & C.A.Mey.) Boiss.
202. *Bellevalia pycnantha* (K.Koch) Losinsk.
203. *Brodiaea californica* Lindl.

204. *Camassia leichtlinii* (Baker) S.Watson subsp. *leichtlinii* 'Semiplena'
205. *Camassia leichtlinii* (Baker) S.Watson subsp. *leichtlinii*
206. *Camassia leichtlinii* subsp. *suksdorfii* (Greenm.) Gould 'Alba'
207. *Chlorophytum filipendulum* subsp. *amaniense* XX-0-AMD-A2838  
(Engl.) Nordal & A.D.Poulsen
208. *Dichelostemma congestum* (Sm.) Kunth
209. *Galtonia candicans* (Baker) Decne.
210. *Hosta longipes* var. *gracillima* (F.Maek.) N.Fujita
211. *Hyacinthoides non-scripta* (L.) Chouard ex Rothm.
212. *Maianthemum racemosum* (L.) Link
213. *Maianthemum stellatum* (L.) Link
214. *Muscari anatolicum* Cowley & Özhatay
215. *Muscari azureum* Fenzl
216. *Muscari coeleste* Fomin
217. *Muscari latifolium* J.Kirk
218. *Ornithogalum arcuatum* Steven
219. *Ornithogalum lanceolatum* Labill.
220. *Ornithogalum platyphyllum* Boiss.
221. *Paradisea liliastrum* (L.) Bertol.
222. *Polygonatum biflorum* (Walter) Elliott ✱
223. *Polygonatum odoratum* var. *pluriflorum* (Miq.) Ohwi
224. *Polygonatum prattii* Baker
225. *Scilla litardierei* Breistr.
226. *Scilla mischtschenkoana* Grossh.

### **ASPHODELACEAE**

227. *Eremurus fuscus* (O.Fedtsch.) Vved.
228. *Eremurus himalaicus* Baker
229. *Eremurus robustus* (Regel) Regel
230. *Eremurus ×isabellinus* P.Vilm.
231. *Hemerocallis middendorffii* Trautv. & C.A.Mey. RU-0-TU-1994-0129-1  
Z, Russia, Habarovsk Reg., Sichote-Alin Mts., Udomi,  
1987

### **BROMELIACEAE**

232. *Acanthostachys strobilacea* (Schult. & Schult.f.) Klotzsch
233. *Aechmea bracteata* (Sw.) Griseb.
234. *Aechmea cariocae* L.B.Sm.

### **COLCHICACEAE**

235. *Colchicum szovitsii* Fisch. & C.A.Mey.
236. *Disporum uniflorum* Baker
237. *Disporum viridescens* (Maxim.) Nakai

## COMMELINACEAE

- 238. *Commelina dianthifolia* Redouté
- 239. *Tradescantia spathacea* Sw.
- 240. *Tradescantia Andersoniana* Group

## COSTACEAE

- 241. *Costus dubius* (Afzel.) K.Schum. XX-O-AMD-19780085
- 242. *Costus megalobracteata* K.Schum.
- 243. *Tapeinochilos spectabilis* K.Schum.

## CYPERACEAE

- 244. *Carex* 'Majken'
- 245. *Carex bohemica* Schreb.
- 246. *Kyllinga brevifolia* Rottb.

## DIOSCOREACEAE

- 247. *Dioscorea caucasica* Lipsky

## IRIDACEAE

- 248. *Iris bloudowii* Ledeb.
- 249. *Iris latifolia* (Mill.) Voss
- 250. *Iris pseudacorus* L.
- 251. *Iris schachtii* Markgr.
- 252. *Iris tectorum* Maxim. 'Alba'
- 253. *Iris zenaidae* (Vved.) F.O.Khass. & Rakhimova  
Z, Kyrgyzstan, Fergana mts., Kugart valley
- 254. ×*Pardancanda norrisii* L.W.Lenz

## IXIOLIRIACEAE

- 255. *Ixiolirion tataricum* (Pall.) Schult. & Schult.f.

## JUNCACEAE

- 256. *Juncus inflexus* L.  
Z, Estonia, Ida-Viru county
- 257. *Luzula luzuloides* (Lam.) Dandy & Wilmott EE-0-TU-A-2019-1728  
Z, Estonia, Tartu county, Järvelja, 2018

## LILIACEAE

- 258. *Cardiocrinum cordatum* var. *glehnii* (F.Schmidt) H.Hara RU-0-TU-2005-0237-1  
Z, Russia, Sachalin I., Holmsk, 1987
- 259. *Cardiocrinum giganteum* (Wall.) Makino
- 260. *Fritillaria graeca* subsp. *thessala* (Boiss.) Rix

261. *Fritillaria kurdica* Boiss. & Noë  
 262. *Fritillaria michailovskyi* Fomin  
 263. *Fritillaria montana* Hoppe ex W.D.J.Koch  
 264. *Fritillaria orientalis* Adam  
 265. *Fritillaria pallidiflora* Schrenk ex Fisch. & C.A.Mey.  
 266. *Fritillaria pontica* Wahlenb.  
 267. *Fritillaria ruthenica* Wikst.  
 268. *Fritillaria sewerzowii* Regel  
 269. *Fritillaria usuriensis* Maxim.  
 270. *Fritillaria whittallii* Baker  
 271. *Lilium amabile* Palib.  
 272. *Lilium bulbiferum* var. *croceum* (Chaix) Pers.  
 273. *Lilium leucanthum* (Baker) Baker XX-0-FB-6490  
 274. *Lilium pumilum* Redouté  
 275. *Lilium regale* E.H.Wilson XX-0-HOH-SYS-3806-2020  
 276. *Prosartes smithii* (Hook.) Utech, Shinwari & Kawano  
 277. *Tulipa celsiana* DC.  
 278. *Tulipa karabachensis* Grossh.  
 279. *Tulipa tarda* Stapf  
 280. *Tulipa urumiensis* Stapf

### MELANTHIACEAE

281. *Anticlea elegans* (Pursh) Rydb.  
 282. *Paris quadrifolia* L.  
 283. *Veratrum californicum* Durand  
 284. *Veratrum lobelianum* Bernh.  
 Z, Russia, Krasnodar Krai, Kr Poljana, Atšišho Mts.  
 285. *Veratrum nigrum* L.  
 Z, Russia, Altai Rep., Chemal, 1995

### MUSACEAE

286. *Musa ×paradisiaca* L.

### POACEAE

287. *Cenchrus americanus* (L.) Morrone 'Okashana'  
 288. *Chrysopogon gryllus* (L.) Trin.  
 289. *Cinna latifolia* (Trevir.) Griseb.  
 290. *Coix lacryma-jobi* L.  
 291. *Cynosurus cristatus* L.  
 292. *Eragrostis spectabilis* (Pursh) Steud.  
 293. *Festuca amethystina* L.  
 294. *Festuca glauca* Vill. 'Auslese'

295. *Festuca trachyphylla* (Hackel) Krajina EE-0-TU-A-2024-0865  
Z, inland sandy plain, Maardu, Harju county, N  
Estonia 59.466863, 24.932310 / Tallinn 2022
296. *Hystrix patula* Moench  
Z, USA, MI, Ingham county, 42°43'N 84°27'W 253  
m, Mesic Southern Forest / East Lansing 2016
297. *Koeleria glauca* (Schrad.) DC. EE-0-TU-2008-0438-1  
Z, Estonia, Võru county, Piusa, 2011
298. *Koeleria vallesiana* (Honck.) Bertol. ex Schult.
299. *Phleum phleoides* (L.) H.Karst. EE-0-TU-A-2015-0617  
Z, Estonia, Saare county, Nasva, Loode tammik, 2012
300. *Poa badensis* Haenke ex Willd.
301. *Sorghastrum nutans* Nash
302. *Sorghum bicolor* (L.) Moench XX-0-HOH-SYS-16593
303. *Stipa joannis* Čelak.
304. *Stipa pennata* L.

### **TOFIELDIACEAE**

305. *Tofieldia calyculata* (L.) Wahlenb.

### **ZINGIBERACEAE**

306. *Globba marantina* L. XX-0-STUTZ-002519

### **ANTHOPHYTA / EUDICOTYLEDONAE**

### **ACANTHACEAE**

307. *Megaskepasma erythrochlamys* Lindau

### **AIZOACEAE**

308. *Cleretum bellidiforme* (Burm.f.) G.D.Rowley XX-0-BR-1992131133
309. *Tetragonia tetragonoides* (Pall.) Kuntze XX-0-BRNU-2017-00196

### **AMARANTHACEAE**

310. *Amaranthus aureus* F.Dietr. XX-0-CLA-1206
311. *Amaranthus caudatus* L. XX-0-HOH-SYS-10854
312. *Celosia argentea* L. XX-0-HAL-788
313. *Celosia trigyna* L. XX-0-TAL-20081003
314. *Dysphania botrys* (L.) Mosyakin & Clemants
315. *Dysphania schraderiana* (Schult.) Mosyakin & Clemants
316. *Gomphrena globosa* L.
317. *Gomphrena haageana* Klotzsch
318. *Gomphrena serrata* L.
319. *Hablitzia tamnoides* M.Bieb.

320. *Teloxys aristata* (L.) Moq.

## APIACEAE

321. *Angelica gigas* Nakai

322. *Astrantia major* L.

323. *Athamanta cretensis* L.

324. *Bifora radians* M.Bieb.

325. *Bupleurum aureum* Fisch. ex Hoffm.

RU-0-TU-1992-0001-2

Z, Russia, Altai Mts., Edigan, 800 m, 51.08N 86.30E,  
1992

326. *Bupleurum longifolium* L.

Z, Bannans Doubs / Paris Mus 2007

327. *Cenolophium denudatum* (Fisch. ex Hornem.) Tutin

328. *Chaerophyllum aureum* L.

Z, Germany, Hesse Oberes Kinzigtal, Herolz, am  
Osthang, 290 m / Marburg 2002

329. *Chaerophyllum coloratum* L.

AL-0-IB-017506

Z, W/AL-Bicaj / Innsbruck 2022

330. *Coriandrum sativum* L.

331. *Eryngium agavifolium* Griseb.

332. *Eryngium alpinum* L.

333. *Eryngium amethystinum* L.

SI-0-LJU-N-016-21

334. *Eryngium campestre* L.

335. *Eryngium giganteum* M.Bieb.

336. *Ferula assa-foetida* L.

337. *Laserpitium latifolium* L.

338. *Lomatium grayi* (J.M.Coult. & Rose) J.M.Coult. & Rose

339. *Meum athamanticum* Jacq.

340. *Molopospermum peloponnesiacum* (L.) W.D.J.Koch

341. *Oenanthe silaifolia* Bieb.

XX-0-KIEL-2014 1131 - 80 - 54

342. *Orlaya grandiflora* (L.) Hoffm.

343. *Pimpinella rhodantha* Boiss.

XX-0-MW-2017-65

344. *Prangos trifida* (Mill.) Herrnst. & Heyn

345. *Scaligeria tripartita* (Kalen.) Tamamsch.

Z, Georgia, Reg.Ratscha, 1600m. / München 2006

346. *Scandix pecten-veneris* L.

XX-0-NGOET-3498

347. *Sison amomum* L.

Z, Cansano (AQ), 830 m / Eufemia 2023

348. *Taenidia integerrima* (L.) Drude

Z, Oka co.Deux-Montages / Montreal 2006

349. *Trachymene pilosa* Sm.

XX-0-BRAUN-7205063

350. *Zizia aurea* (L.) W.D.J.Koch

US-0-DR-013209

## APOCYNACEAE

- 351. *Amsonia tabernaemontana* Walter
- 352. *Asclepias curassavica* L.
- 353. *Rauvolfia serpentina* (L.) Benth. ex Kurz

## ARALIACEAE

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

## ARISTOLOCHIACEAE

- 355. *Aristolochia clematitis* L.
- 356. *Aristolochia littoralis* Parodi
- 357. *Aristolochia trilobata* L.
- 358. *Saruma henryi* Oliv.

## ASTERACEAE

- 359. *Achyrrachaena mollis* Schauer XX-0-MJG-19--47920
- 360. *Acmella oleracea* (L.) R.K.Jansen
- 361. *Ageratum houstonianum* Mill. XX-0-CLA-9907
- 362. *Anacyclus pyrethrum* (L.) Lag.
- 363. *Arctotis venusta* Norl.
- 364. *Atractylis cancellata* L. PT-0-MJG-199802602  
Z, PRT: Algarve (Via do Infante, ao km 298) / Mainz  
2022
- 365. *Berlandiera lyrata* Benth. XX-0-BERN-2004/310 G S
- 366. *Brachyscome iberidifolia* Benth. XX-0-STGAL-10141
- 367. *Carpesium cernuum* L.
- 368. *Carpesium macrocephalum* Franch. & Sav.
- 369. *Carthamus lanatus* L.
- 370. *Carthamus tinctorius* L.
- 371. *Catananche caerulea* L. FR-0-P-2019g029  
Z, France, Fraissinet de Fourques ,834 m. / Paris Mus  
2020
- 372. *Centaurea benedicta* (L.) L.
- 373. *Centaurea macrocephala* Muss.Puschk. ex Willd.
- 374. *Centratherum punctatum* Cass.
- 375. *Cirsium pannonicum* (L.f.) Link  
Z, Komarów-Osada / Warsaw 2019
- 376. *Coreopsis tripteris* L.
- 377. *Cosmos bipinnatus* Cav.
- 378. *Cosmos sulphureus* Cav.



379. *Crepis rubra* L. XX-0-BERN-2006/462
380. *Crupina vulgaris* Pers. ex Cass. RO-0-IAGB20121424W
381. *Dimorphotheca pluvialis* (L.) Moench XX-0-HAL-1194
382. *Dimorphotheca sinuata* DC. XX-0-NCY-20100078G
383. *Echinops ritro* subsp. *ruthenicus* (Bieb.) Nyman 'Platinum Blue'
384. *Eutrochium fistulosum* (Barratt) E.E.Lamont  
Z, South Hadley, MA, 42.270728 -72.587672 35m /  
South Hadley 2018
385. *Flaveria trinervia* (Spreng.) C.Mohr
386. *Geropogon hybridus* (L.) Sch.Bip.
387. *Glebionis carinata* (Schousb.) Tzvelev
388. *Glebionis coronaria* (L.) Cass. ex Spach MT-0-P-2018g145  
Z, Malte, Mellieha triq toni pace 111 m. / Paris Mus  
2024
389. *Helenium amarum* (Raf.) H.Rock
390. *Helenium aromaticum* (Hook.) L.H.Bailey
391. *Helenium puberulum* DC. xx-0-DR-004255
392. *Hieracium murorum* L. (coll.) EE-0-TU-A-2015-0706  
Z, Estonia, Põlva county, Valgesoo, 2014
393. *Iva xanthifolia* Nutt. XX-0-CLA-3650
394. *Kalimeris incisa* (Fisch.) DC.
395. *Layia platyglossa* (Fisch. & C.A.Mey.) A.Gray
396. *Leibnitzia anandria* (L.) Turcz. XX-0-KL-2012/1286
397. *Ligularia* 'The Rocket'
398. *Ligularia alpigena* Pojark.  
Z, Tadžikistan:Pamiir,Badachschan, 1400-4400m /  
Reykjavik 2010
399. *Ligularia fischeri* Turcz.
400. *Lindheimera texana* A.Gray & Engelm.
401. *Lonas annua* (L.) Vines & Druce
402. *Madia elegans* D.Don
403. *Madia sativa* Molina
404. *Mantiscalca salmantica* (L.) Briq. & Cavill. FR-0-P-2019g158
405. *Melampodium divaricatum* (Rich.) DC.
406. *Noticastrum diffusum* (Pers.) Cabrera AR-0-B-1210497  
Z, AR: Provinz Buenos Aires; südlich Sierra de Tandil,  
Tandil / Hamburg 2022
407. *Onopordum acanthium* L.
408. *Osteospermum vaillantii* (Decne.) Norl. xx-0-DR-009468
409. *Parasenecio hastatus* (L.) H.Koyama

410. *Pentanema squarrosus* (L.) D.Gut.Larr., Santos-Vicente, Anderb., E.Rico & M.Mart.Ort.  
Z, Valle di S. Spirito – Fara San Martino (CH), 750 m /  
Lama 2022
411. *Plagius flosculosus* (L.) Alavi & Heywood FR-0-P-2013g136
412. *Porophyllum ruderale* (Jacq.) Cass.
413. *Porophyllum tagetoides* (Kunth) DC. XX-0-Z-20190117
414. *Prenanthes purpurea* L. CH0Z-20130952  
Z, Switzerland, Alt St. Johann SG, Churfirsten, 1500m.  
/ Zürich Univ 2014
415. *Ratibida pinnata* (Vent.) Barnhart
416. *Rhagadiolus stellatus* (L.) Gaertn. XX-0-HAL-1220
417. *Rhodanthe humboldtiana* (Gaudich.) Paul G.Wilson
418. *Rudbeckia amplexicaulis* Vahl
419. *Rudbeckia triloba* L.
420. *Sanvitalia procumbens* Lam. XX-0-IAGB198310362G
421. *Saussurea riederi* Herder
422. *Schkuhria pinnata* (Lam.) Kuntze
423. *Senecio arenarius* Thunb. ZA-0-PLZEN-1082-20-30  
Z, Republic of South Africa, Western Cape, Piketberg  
/ Plzen 2022
424. *Silphium integrifolium* Michx.
425. *Silphium perfoliatum* L.
426. *Silybum marianum* (L.) Gaertn.
427. *Solidago caesia* L.  
Z, Oka co. Deux-Montages / Montreal 2006
428. *Solidago ptarmicoides* (Torr. & A.Gray) B.Boivin
429. *Solidago rigida* L.
430. *Syneilesis aconitifolia* (Bunge) Maxim. XX-0-HBG-2016-F-282
431. *Tagetes lucida* Cav. xx-0-DR-004236
432. *Tagetes tenuifolia* Cav. xx-0-DR-004235
433. *Thelesperma burridgeanum* S.F.Blake
434. *Thelesperma filifolium* (Hook.) A.Gray XX-0-MJG-199805304
435. *Thymophylla tenuiloba* (DC.) Small
436. *Tithonia rotundifolia* (Mill.) S.F.Blake XX-0-TEBLI-00118
437. *Tolpis barbata* (L.) Gaertn.
438. *Tridax trilobata* (Cav.) Hemsl.
439. *Verbesina alata* L. XX-0-MJG-199707710
440. *Verbesina alternifolia* (L.) Britton ex Kearney
441. *Verbesina encelioides* Benth. & Hook.f. ex A.Gray XX-0-MJG-199801004
442. *Volutaria muricata* (L.) Maire XX-0-DR-013809
443. *Xanthisma texanum* DC.
444. *Xerochrysum bracteatum* (Vent.) Tzvelev XX-0-Z-20170958

445. *Zinnia angustifolia* Kunth MX-O-DR-004230  
 446. *Zinnia haageana* Regel  
 447. *Zinnia peruviana* (L.) L.
- BALSAMINACEAE**
448. *Impatiens balfourii* Hook.f.
- BASELLACEAE**
449. *Basella alba* L. 'Rosebud'  
 450. *Basella alba* L. 'Rubra'
- BERBERIDACEAE**
451. *Caulophyllum robustum* Maxim. ✱ RU-O-TU-1984-0002-1  
 Z, Russia, Primorsk Reg., 1985  
 452. *Caulophyllum thalictroides* (L.) Michx.
- BIGNONIACEAE**
453. *Incarvillea mairei* (H.Lév.) Grierson  
 454. *Incarvillea olgae* Regel
- BORAGINACEAE**
455. *Borago officinalis* L.  
 456. *Cynoglossum amabile* Stapf & J.R.Drumm. XX-O-Z-20230284  
 457. *Omphalodes linifolia* (L.) Moench
- BRASSICACEAE**
458. *Alliaria petiolata* (M.Bieb.) Cavara & Grande EE-O-TU-A-2022-0636  
 Z, Estonia, Saare county, Abruksa Island, 2020  
 459. *Alyssoides utriculata* (L.) Medik.  
 460. *Clypeola jonthlaspi* L.  
 461. *Cochlearia officinalis* L.  
 462. *Conringia orientalis* (L.) Dumort.  
 463. *Crambe cordifolia* Steven  
 464. *Fibigia clypeata* (L.) Medik. TR-O-M-2010/2484  
 Z, Turkey, Bolkar Dag / Plzen 2020  
 465. *Iberis amara* L.  
 466. *Matthiola longipetala* subsp. *bicornis* (Sibth. & Sm.) P.W.Ball  
 467. *Odontarrhena argentea* (All.) Ledeb.
- CAMPANULACEAE**
468. *Campanula bellidifolia* Adams  
 469. *Campanula erinus* L. IT-O-SIENA-00190  
 470. *Campanula hofmannii* (Pantan.) Greuter & Burdet

471. *Codonopsis clematidea* (Schrenk) C.B.Clarke XX-0-TEBLI-01614  
 472. *Codonopsis lanceolata* (Siebold & Zucc.) Benth. & Hook.f. ex Trautv.  
 473. *Codonopsis pilosula* (Franch.) Nannf.  
 474. *Edraianthus graminifolius* (L.) A.DC.  
 475. *Legousia falcata* (Ten.) Fritsch ex Janch.  
 476. *Lithotoma axillaris* (Lindl.) E.B.Knox  
 477. *Lobelia inflata* L.  
 478. *Lobelia siphilitica* L.  
 479. *Phyteuma orbiculare* L. XX-0-PORTY-21015  
 480. *Platycodon grandiflorus* (Jacq.) A.DC. Astra Series  
 481. *Triodanis perfoliata* (L.) Nieuwl.  
 Z, USA: Massachusetts, Hampden county, Holyoke  
 Community College, Parking Lot K, 136 m,  
 42.198373 -72.651153 (WGS84) / Northampton  
 2024  
 482. *Wahlenbergia lobelioides* (L.f.) Link  
 483. *Wahlenbergia multicaulis* Benth. AU-0-PLZEN-0444-11-50

## CANNABACEAE

484. *Celtis tenuifolia* Nutt.  
 Z, Shale Barren, WV / Elimäki 2018

## CAPRIFOLIACEAE

485. *Centranthus angustifolius* (Mill.) DC.  
 486. *Centranthus calcitrapae* (L.) Dufr.  
 487. *Centranthus macrosiphon* Boiss. XX-0-HAL-1238  
 488. *Fedia cornucopiae* (L.) Gaertn.  
 489. *Lomelosia caucasica* (M.Bieb.) Greuter & Burdet XX-0-LZ-AW-94-1998  
 490. *Lomelosia prolifera* (L.) Greuter & Burdet  
 491. *Lomelosia stellata* (L.) Raf.  
 492. *Patrinia gibbosa* Maxim.  
 493. *Patrinia monandra* C.B.Clarke  
 494. *Pterocephalus plumosus* (L.) Coulter  
 495. *Scabiosa atropurpurea* L. XX-0-KL-2012/1376  
 496. *Succisella inflexa* (Kluk) Beck  
 497. *Triosteum himalayanum* Wall.  
 498. *Valeriana alliariifolia* Vahl  
 Z, Russia, Krasnodar Krai, Kr Poljana, Atšišho Mts.  
 499. *Valeriana phu* L.  
 500. *Zabelia biflora* (Turcz.) Makino  
 501. *Zabelia tyaihyoni* (Nakai) Hisauchi & Hara

## CARYOPHYLLACEAE

502. *Atocion armeria* (L.) Raf.
503. *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 Univ 2020
504. *Atocion lerchenfeldianum* (Baumg.) M.Popp BG-0-REYK-2003/001  
Z, Bulgaria, Pirin, Rila, Rhodopy / München 2020
505. *Dianthus armeria* L.
506. *Dianthus pavonius* Tausch
507. *Gypsophila elegans* M.Bieb.
508. *Gypsophila vaccaria* (L.) Sm.
509. *Petrorhagia prolifera* (L.) P.W.Ball & Heywood
510. *Saponaria calabrica* Guss. XX-0-DR-002075
511. *Silene borysthenica* (Gruner) Walters RO-0-CLA-4124  
Z, RO, Marea Neagră, Tuzla, 44°00'N 28°39'E / Cluj-  
Napoca Univ 2021
512. *Silene bupleuroides* L.
513. *Silene catholica* (L.) W.T.Aiton IT-0-CAME 2014/294  
Z, Italy, Marche region Valle dei Grilli, 400m, wood /  
Camerino 2015
514. *Silene chalcedonica* (L.) E.H.L.Krause
515. *Silene coeli-rosa* (L.) Godr.
516. *Silene flos-jovis* (L.) Greuter & Burdet
517. *Silene mexicana* Moc. & Sessé ex Otth XX-0-TEBLI-00668
518. *Silene noctiflora* L. EE-0-TU-A-2020-0257  
Z, Estonia, Hiiu county, Kopa, 2017
519. *Silene regia* Sims
520. *Silene tatarica* (L.) Pers.  
Z, LT, the local area Liškiava, Varėna district / Siauliai  
2021

## CISTACEAE

521. *Helianthemum nummularium* (L.) Mill. EE-0-TU-2008-0071-1  
Z, Estonia, Hiiu county, Kassari, Sääretirp, 2008

## CLEOMACEAE

522. *Cleome gynandra* L. UG-0-GIESS-2019-M-620  
Z, Uganda, Irmgard Jordan / Giessen 2021
523. *Cleome trachysperma* (Torr. & A.Gray) Pax & K.Hoffm.
524. *Cleome violacea* L.

## CONVOLVULACEAE

525. *Argyreia nervosa* (Burm. fil.) Bojer XX-0-MJG-200303402  
526. *Ipomoea coccinea* L.  
527. *Ipomoea purpurea* (L.) Roth

## CUCURBITACEAE

528. *Cyclanthera pedata* (L.) Schrad. XX-0-JENA-7574324

## ERICACEAE

529. *Erica spiculifolia* Salisb.

## EUPHORBIACEAE

530. *Euphorbia lathyris* L. DE-0-BREMR-XXXX/4744  
531. *Euphorbia marginata* Pursh

## FABACEAE

532. *Amorpha nana* Nutt.  
533. *Caragana pygmaea* (L.) DC.  
534. *Cicer arietinum* L.  
535. *Coronilla scorpioides* (L.) W.D.J.Koch XX-0-MJG-19--45270  
536. *Desmodium canadense* (L.) DC.  
537. *Glycine max* (L.) Merr. XX-0-LZ-AN-142-1970  
538. *Halimodendron halodendron* (Pall.) Voss  
539. *Kummerowia stipulacea* (Maxim.) Makino  
540. *Lablab purpureus* (L.) Sweet  
541. *Lathyrus aphaca* L. XX-0-ULM-1998-F-32  
542. *Lathyrus chloranthus* Boiss.  
543. *Lathyrus montanus* Bernh.  
544. *Lathyrus niger* (L.) Bernh.  
545. *Lathyrus sphaericus* Retz. XX-0-AJUDA-20.274  
546. *Lupinus nanus* Douglas ex Benth. XX-0-HAL-4142  
547. *Medicago arabica* (L.) Huds.  
548. *Medicago polymorpha* L.  
Z, Chemin de l'Evolution, Parc Floral, 12e, Paris, île-  
de-France / Paris 2022  
549. *Melilotus officinalis* (L.) Lam.  
550. *Phaseolus coccineus* L.  
551. *Rhynchosia pyramidalis* (Lam.) Urb. XX-0-M-P/0011 2011 207  
552. *Scorpiurus muricatus* L. XX-0-DATH-3157  
553. *Tara spinosa* (Molina) Britton & Rose  
554. *Tetragonolobus purpureus* Moench

555. *Trifolium angustifolium* L.  
Z, Armissan (11) alt. 74 m. / Paris Mus 2014
556. *Trifolium fragiferum* L. EE-0-TU-A-2015-0625  
Z, Estonia, Saare county, Kasti, 2012
557. *Trifolium incarnatum* L.
558. *Trifolium lupinaster* L.
559. *Trigonella caerulea* (L.) Ser.
560. *Trigonella foenum-graecum* L. XX-0-CLA-1616

### **GENTIANACEAE**

561. *Centaurium erythraea* Rafn  
Z, Cimetière du Père-Lachaise, 20e, Paris, Île-de-France / Paris 2022
562. *Gentiana asclepiadea* L.
563. *Gentiana cruciata* L. EE-0-TU-A-2021-1786  
Z, Estonia, Pärnu county, Esivere, Uisu terrace, 2016
564. *Gentiana lutea* L.

### **GERANIACEAE**

565. *Erodium moschatum* (L.) L'Hér.

### **HAMAMELIDACEAE**

566. *Hamamelis virginiana* L.

### **HIPPOCASTANACEAE**

567. *Aesculus glabra* Willd. ❄️

### **HYDRANGEACEAE**

568. *Deinanthë bifida* Maxim.
569. *Kirengeshoma palmata* Yatabe

### **HYPERICACEAE**

570. *Hypericum ascyron* L.
571. *Hypericum elegans* Stephan ex Willd.

### **LAMIACEAE**

572. *Amethystea caerulea* L.
573. *Caryopteris divaricata* Maxim.
574. *Dracocephalum moldavica* L.
575. *Dracocephalum renati* Emb.
576. *Elsholtzia ciliata* (Thunb.) Hyl.
577. *Lallemantia canescens* (L.) Fisch. & C.A.Mey.
578. *Lavandula multifida* L. XX-0-MB-1964/1133

579. *Leonurus japonicus* Houtt.  
580. *Marrubium incanum* Desr.  
Z, Italy, Campo Imperatore, 1250 m. / L'Aquila 2003  
581. *Monarda citriodora* Cerv. ex Lag. XX-0-KL-2019/4448  
582. *Monarda punctata* L. US-0-DR-009003  
Z, USA / Krakow Pharm 2021  
583. *Monardella odoratissima* Benth.  
584. *Nepeta nervosa* Royle ex Benth.  
585. *Nepeta sibirica* L.  
586. *Nepeta stewartiana* Diels CN-0-MB-1998/99  
Z, CN, Yunnan, S of Zhongdian 3215m. / Marburg  
2020  
587. *Ocimum tenuiflorum* L.  
588. *Perilla frutescens* (L.) Britton  
589. *Phlomis russeliana* (Sims) Lag. ex Benth.  
590. *Phlomoides tuberosa* (L.) Moench  
591. *Prunella grandiflora* subsp. *pyrenaica* (Gren. & Godr.) XX-0-HBG-A0-F-1958  
A.Bolòs & O.Bolòs  
Z, FR: Ost-Pyrenäen / Hamburg 2015  
592. *Salvia argentea* L.  
593. *Salvia coccinea* Buc'hoz ex Etl.  
594. *Salvia hispanica* L.  
595. *Salvia lyrata* L.  
596. *Salvia nemorosa* L. DE-0-HAL-221993\_1  
Z, DE, Sachsen-Anhalt, Mùcheln/ Wettin / Halle 2023  
597. *Salvia patens* Cav.  
598. *Salvia roemeriana* Scheele  
599. *Salvia sclarea* L.  
600. *Salvia verticillata* L.  
601. *Salvia viridis* L. XX-0-IAGBXXXX9841G  
602. *Scutellaria baicalensis* Georgi  
603. *Teucrium botrys* L.  
604. *Teucrium canadense* L.  
605. *Teucrium lucidum* L.  
606. *Ziziphora capitata* L. XX-0-MJG-190069490

## LAURACEAE

607. *Lindera benzoin* (L.) Blume

## LINDERNIACEAE

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



## LOASACEAE

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

## MALVACEAE

610. *Abutilon indicum* (L.) Sweet XX-0-HOH-SYS-K-3924  
611. *Alcea rugosa* Alef.  
612. *Althaea cannabina* L.  
613. *Althaea officinalis* L.  
614. *Anoda cristata* (L.) Schltld.  
615. *Gossypium arboreum* L.  
616. *Hibiscus trionum* L.  
617. *Kitaibela vitifolia* Willd.  
618. *Lavatera trimestris* L. PT-0-DR-006281  
619. *Malope trifida* Cav.  
620. *Modiola caroliniana* (L.) G.Don  
621. *Napaea dioica* L.  
622. *Sida hermaphrodita* (L.) Rusby  
623. *Sidalcea oregana* (Nutt. ex Torr. & A.Gray) A.Gray

## MARTYNIACEAE

624. *Proboscidea louisianica* (Mill.) Thell. XX-0-UDE-14-37-8-0

## MELASTOMATACEAE

625. *Medinilla speciosa* (Reinw. ex Bl.) Bl. xx-0-DR-004755

## MELIACEAE

626. *Cipadessa baccifera* (Roth) Miq. PT-0-HOH-SYS-K-15423  
627. *Turraea heterophylla* Sm.

## MENISPERMACEAE

628. *Menispermum dauricum* DC.

## MYRTACEAE

629. *Psidium cattleianum* Sabine

## NYCTAGINACEAE

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

## ONAGRACEAE

631. *Chamaenerion dodonaei* (Vill.) Schur  
632. *Clarkia breweri* (A.Gray) Greene XX-0-TEBLI-00880  
633. *Epilobium densiflorum* (Lindl.) Hoch & P.H.Raven XX-0-MJG-190045180

634. *Oenothera laciniata* Hill  
Z, Japan, Tsukuba Division / Ibaraki 2022

635. *Oenothera rosea* L'Hér. ex Aiton

### **PAEONIACEAE**

636. *Paeonia humilis* Retz.

637. *Paeonia lactiflora* Pall.

638. *Paeonia mascula* (L.) Mill.

639. *Paeonia mlokosewitschii* Lomakin

640. *Paeonia obovata* Maxim.

641. *Paeonia peregrina* Miller

642. *Paeonia rockii* (S.G.Haw & Lauener) T.Hong & J.J.Li ex D.Y.Hong

643. *Paeonia veitchii* Lynch

644. *Paeonia wendelboi* Rukšāns & Zetterl.

### **PAPAVERACEAE**

645. *Argemone grandiflora* Sweet

646. *Argemone mexicana* L.

XX-0-IAGB20099898G

647. *Capnoides sempervirens* (L.) Borkh.

US-0-BR-19871844

Z, USA, Michigan, Marquette Co. / Frankfurt 2023

648. *Dicranostigma leptopodium* Karelin & Kirilow

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

650. *Glaucium flavum* Crantz

651. *Macleaya microcarpa* (Maxim.) Fedde

652. *Meconopsis* (Fertile Blue Group) 'Lingholm'

### **PASSIFLORACEAE**

653. *Passiflora arizonica* (Killip) D.H.Goldman

MX-0-STUTZ-00 5351

654. *Passiflora foetida* L.

655. *Passiflora morifolia* Mast.

XX-0-STUTB-1491-0

656. *Passiflora suberosa* L.

XX-0-AJUDA-19.454

### **PENTHORACEAE**

657. *Penthorum sedoides* L.

### **PHRYMACEAE**

658. *Phryma leptostachya* var. *asiatica* H.Hara

659. *Phryma leptostachya* L.

XX-0-GZU-00 703400

### **PHYTOLACCACEAE**

660. *Phytolacca americana* L.

XX-0-ROST-2012-F-5149

661. *Rivina humilis* L.

XX-0-STGAL-16639

## PLANTAGINACEAE

662. *Anarrhinum corsicum* Jord. & Fourr.  
663. *Antirrhinum siculum* Mill.  
Z, Syracus, (Sicile, Italie) / Paris Mus 2014  
664. *Digitalis ferruginea* subsp. *schischkinii* (Ivan.) Werner  
665. *Digitalis lanata* Ehrh.  
666. *Digitalis obscura* L. XX-0-LZ-S-94-2014  
667. *Digitalis thapsi* L. 'Spanish Peaks'  
668. *Digitalis viridiflora* Lindl. BG-0-GB-2001-1082  
669. *Linaria genistifolia* (L.) Mill. XX-0-MfG-199700709  
670. *Penstemon comarrhenus* A.Gray XX-0-TEBLI-00399  
671. *Plantago aristata* Michx.  
672. *Plantago camtschatica* Link  
Z, near Chernayatino village / Vladivostok 2013  
673. *Veronica porphyriana* Pavlov  
674. *Veronica spicata* L. EE-0-TU-2009-0269-1  
Z, Estonia, Tallinn, Aegna Island, 2009

## POLEMONIACEAE

675. *Collomia grandiflora* Douglas ex Lindl.  
676. *Navarretia squarrosa* (Eschsch.) Hook. & Arn.

## POLYGALACEAE

677. *Polygala comosa* Schkuhr EE-0-TU-A-2022-1518  
Z, Estonia, Tartu county, Pühaste, 2015

## POLYGONACEAE

678. *Fagopyrum esculentum* Moench  
679. *Fagopyrum tataricum* (L.) Gaertn.  
680. *Persicaria orientalis* (L.) Spach  
681. *Pteroxygonum giraldii* Dammer & Diels  
682. *Rheum palmatum* L. CN-0-GIESS-2006-J-304  
Z, China, Shaanxsii, Tai Bai Shan, 2600m / Giessen  
2021  
683. *Rumex sanguineus* L.  
684. *Rumex vesicarius* L.

## PRIMULACEAE

685. *Androsace adfinis* subsp. *brigantiaca* (Jord. & Fourr.) Kress  
686. *Lysimachia davurica* Ledeb.  
687. *Lysimachia sikokiana* Miq.  
688. *Primula elatior* subsp. *pallasii* (Lehm.) W.W.Sm. & Forrest

689. *Primula veris* subsp. *macrocalyx* (Bunge) Lüdi GE-0-BONN-26191

## RANUNCULACEAE

690. *Aconitum hemsleyanum* E.Pritz. 'Red Wine'

691. *Aconitum senanense* var. *isidzuka* (Nakai) Kadota

692. *Actaea asiatica* H.Hara

693. *Actaea rubra* f. *neglecta* (Gillman) B.L.Rob.

694. *Anemone sylvestris* L.

EE-0-TU-2009-0229-1

Z, Estonia, Jõgeva county, Kärde, 2009

695. *Anemonopsis macrophylla* Sieb. & Zucc.

696. *Aquilegia chrysantha* A.Gray

XX-0-NGOET-430

697. *Aquilegia longissima* A.Gray ex S.Watson

698. *Aquilegia oxysepala* Trautv. & C.A.Mey.

699. *Aquilegia vulgaris* L. 'Tower Light Blue'

700. *Aquilegia vulgaris* L. 'Woodside Red'

701. *Beesia calthifolia* (Maxim. ex Oliv.) Ulbr.

702. *Cimicifuga americana* Michx.

703. *Cimicifuga europaea* Schipcz.

704. *Clematis campaniflora* Brot.

705. *Clematis columbiana* (Nutt.) Torr. & Gray

US-0-REYK-2016/003

Z, USA: South Dakota, Peenington county, 2104m. /  
Reykjavik 2021

706. *Clematis fusca* Turcz.

707. *Clematis koreana* Kom.

708. *Clematis ochroleuca* Aiton

709. *Clematis potaninii* Maxim.

710. *Clematis recta* L.

711. *Clematis viorna* L.

712. *Delphinium ajacis* L.

713. *Glaucidium palmatum* Siebold & Zucc. 'Leucanthum'

714. *Glaucidium palmatum* Siebold & Zucc.

715. *Helleborus purpurascens* Waldst. & Kit.

UA-0-TU-1987-0043-1

Z, Ukraine, Transcarpathia, Kolotchava, 1987

716. *Nigella arvensis* L.

DE-0-GIESS-2013-J-28

Z, Deutschland, Vorpommern, Uecker-Randow /  
Giessen 2021

717. *Nigella ciliaris* DC.

IL-0-MJG-199817412

Z, ISR: without locality. 1977. / Mainz 2024

718. *Nigella nigellastrum* (L.) Willk.

XX-0-MJG-19--45700

719. *Nigella orientalis* L.

720. *Nigella sativa* L.

721. *Pulsatilla violacea* Rupr.

722. *Thalictrum rochebruneanum* Franch. & Sav.

XX-0-BRAUN-7433624

723. *Trollius chinensis* subsp. *macropetalus* (Regel) Luferov  
Z, Russia.Primorskiy,Nezhinka River / Göteborg 2013
724. *Trollius chinensis* Bunge  
Z, near the Razdolnoe settlement / Vladivostok 2016

### RESEDACEAE

725. *Reseda alba* L.
726. *Reseda luteola* L.  
Z, Sweden: Skåne län, Simrishamn, Havnen, Revet. /  
Oslo 2022
727. *Reseda odorata* L.
728. *Reseda phyteuma* L.  
Z, SRB: Zlatibor, Užice, Mokra Gora, Beli Rzav gorge,  
580m. / Hjeltestad 2021

### ROSACEAE

729. *Agrimonia procera* Wallr.
730. *Filipendula glaberrima* Nakai
731. *Geum rhodopeum* Stoj. & Stef.
732. *Potentilla thurberi* A.Gray ex Lehm. 'Monarch's Velvet'
733. *Sanguisorba hakusanensis* Makino
734. *Sanguisorba stipulata* var. *riishirensis* (Makino) H.Hara
735. *Sorbus frutescens* McAll.  
Z, CHN:Quinghai,Quinghai Hu / Hjeltestad 2012

### RUBIACEAE

736. *Asperula arvensis* L. XX-0-ULM-2008-F-177
737. *Crucianella angustifolia* L.
738. *Crucianella latifolia* L.
739. *Galium boreale* L. EE-0-TU-2008-0307-1  
Z, Estonia, Lääne county, Virtsu, 2007
740. *Hamelia patens* Jacq.
741. *Richardia brasiliensis* Gomes XX-0-STUTZ-005306

### RUTACEAE

742. *Zanthoxylum americanum* Mill.

### SAPINDACEAE

743. *Cardiospermum halicacabum* L. XX-0-Z-20000551

### SARRACENIACEAE

744. *Sarracenia purpurea* L.

## SAXIFRAGACEAE

745. *Heuchera pulchella* Wooton & Standl.  
746. *Heuchera villosa* Michx.  
747. *Micranthes manchuriensis* (Engl.) Gornall & H. Ohba  
748. *Saxifraga kolenatiana* Regel

## SCROPHULARIACEAE

749. *Alonsoa meridionalis* (L.f.) Kuntze CL-0-TEBLI-02343  
Z, Chile, Valparaíso Region, Santiago - Algarrobo /  
Teplice 2023  
750. *Diascia barberae* Hook.f.  
751. *Verbascum blattaria* f. *albiflorum* (G. Don) House  
752. *Verbascum lanatum* Schrad. AT-0-GZU-16 1240  
753. *Zaluzianskya capensis* (L.) Walp.

## SOLANACEAE

754. *Anisodus stramonifolius* (Wall.) G. Don XX-0-UNKAR-2011-5414  
755. *Browallia americana* L.  
756. *Hyoscyamus albus* L.  
757. *Nicotiana acuminata* (Graham) Hook. XX-0-MJG-190047030  
758. *Nicotiana glutinosa* L.  
759. *Nicotiana knightiana* Goodsp.  
760. *Nicotiana langsdorffii* Weinm.  
761. *Nicotiana mutabilis* Stehmann & Semir  
762. *Nicotiana suaveolens* Lehm.  
763. *Nicotiana sylvestris* Speg.  
764. *Nicotiana tabacum* L. XX-0-ULM-1997-F-750  
765. *Petunia axillaris* (Lam.) Britton, Sterns & Poggenb. xx-0-DR-004104  
766. *Petunia exserta* Stehmann  
767. *Petunia integrifolia* (Hook.) Schinz & Thell.  
768. *Physochlaina orientalis* (M. Bieb.) G. Don  
769. *Salpiglossis sinuata* Ruiz & Pav.  
770. *Schizanthus pinnatus* Ruiz & Pav.  
771. *Solanum abutiloides* (Griseb.) Bitter & Lillo  
772. *Solanum betaceum* Cav. XX-0-BONN-28257

## STAPHYLEACEAE

773. *Staphylea pinnata* L.

## STYRACACEAE

774. *Pterostyrax hispidus* Siebold & Zucc.

## TALINACEAE

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

## URTICACEAE

776. *Urtica cannabina* L.

## VERBENACEAE

777. *Duranta erecta* L.

778. *Lippia dulcis* Trevir.

779. *Verbena bonariensis* L.

## VIOLACEAE

780. *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 Seminarum 2024

Camerino	Orto Botanico "Carmela Cortini" Univ Degli Studi Di Camerino
Chemnitz	Botanischer Garten Chemnitz
Cluj-Napoca Univ	Universitatea De Stiinte Agricole Gradina Agrobotanica
East Lansing	W.J. Beal Botanical Garden Michigan State University
Elimäki	Arboretum Mustila
Eufemia	Giardino Botanico "Daniela Brescia"
Frankfurt	Palmengarten Der Stadt Frankfurt
Giessen	Botanical Garden University Of Justus Liebig
Göteborg	Gothenbourg Botanical Garden
Halle	Botanischer Garten Martin-Luther-Universität
Hamburg	Universität Hamburg Botanischer Garten
Hjellestad	Arboretum & Botanical Garden University Of Bergen
Ibaraki	Res. Center For Med. Plant Resourc. National Inst Of Biomed. Innovation
Innsbruck	Botanical Garden And Alpine Garden Instit Of Botany Univer Of Innsbruck
Krakow Pharm	The Garden Of Medicinal Plants
Lama	Giardino Botanico "Michele Tenore"
L'Aquila	Università degli Studi dell'Aquila Dipt. Di Scienze Ambientali
Mainz	Botanischer Garten Joh.-Gutenberg-Universität
Marburg	Botanischer Garten Philipps Universität Marburg
Montreal	Jardin Botanique De Montreal
München	Botanischer Garten München-Nymphenburg
Northampton	The Botanic Garden Of Smith College
Oslo	University Of Oslo Botanical Garden
Paris	Jardin Botanique De La Ville De Paris
Paris Mus	Museum Nat. D'Histoire Naturelle Dep. Des Jardins Botan. Et Zool.



Plzen	Zoological And Botanical Garden Of The Town Plzen
Reykjavik	Hortus Botanicus Reykjavikensis
Rogow	Rogow Arboretum Warsaw University Of Life Sciences
Siauliai	Botanical Garden Siauliai University
Siena	Orto Botanico Sez. Museo Botanico
South Hadley	Botanic Garden Mount Holyoke College
Zürich Univ	Botanischer Garten Universität Zürich
Tallinn	Tallinn Botanic Garden
Teplice	Teplice Botanical Garden
Warsaw	Hortus Botanicus Acad Sc Poloniae Varsovia
Vladivostok	Botanic Garden Far Eastern Branch Russian Academy Of Sciences

## References

**Brummitt, R.K.** (1992): Vascular Plant Families and Genera. - Royal Botanic Gardens, Kew. 804 p.

**Brummitt, R.K., Powell, C.E.** (1992): Authors of Plant Names. – Royal Botanic Gardens, Kew. 732 p.

**Erhardt, W., Götz, E., Bödeker, N., Seybold, S.** (2008): Der große ZANDER, Enzyklopädie der Pflanzennamen. – Band 2 – Stuttgart, Eugen Ulmer Verlag. – 2103 S.

**Erhardt, W., Götz, E., Bödeker, N., Seybold, S.** (2014): ZANDER, Handwörterbuch der Pflanzennamen. – 19. Auflage. – Stuttgart, Eugen Ulmer Verlag. – 904 S.

**Huxley, A., Griffiths, M., Levy, M.** (1999): The New Royal Horticultural Society Dictionary of Gardening. Vol. 1. – 4. – Macmillan Reference Ltd., London, Basingstoke.

**Krall, H., Kukk, T., jt.** (2007): Eesti taimede määraja. – 2. parand. ja täiend. trükk. – Kirjastus Eesti Loodusfoto. - 447 lk.

**Mabberley, D.J.** (2017): Mabberley's Plant-Book. – 4th ed. – Cambridge University Press. – 1102 p.

**Savisaar, S.** (2004): Eesti sibullilleentsüklopeedia. – Kirjastus Varrak, Tallinn. – 440 lk.

**The Pteridophyte Phylogeny Group** (2016): A community-derived classification for extant lycophytes and ferns. Journal of Systematics and Evolution, 54(6), 563-603. <https://doi.org/10.1111/jse.12229>

**Tutin T.G. et al.** (1968 – 2005): Flora Europaea. Vol. 1. – 5. – Cambridge University Press.

**Walters, S.M. et al.** (1986 – 2000): The European Garden Flora. Vol. 1. – 6. – Cambridge University Press.

<https://www.nordic-baltic-genebanks.org/gringlobal/taxon/taxonomysearch>

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

<https://www.catalogueoflife.org/>

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

<https://wfoplantlist.org/plant-list>

<http://powo.science.kew.org>

<https://www.tropicos.org/name/Search>

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

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

<https://www.rhs.org.uk/plants/search-results>

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

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

**Staff:**

Urmas Kõljalg, Academician, Director up to 30.11.2024  
Sergei Põlme, PhD., Acting Director from 1.12.2024

Ingrid Akkermann  
Olesja Escuer  
Kristine Fenske  
Asako Hakozaki  
Satu Maarit Hiltunen  
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Timo Piirmann  
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Ruth Rüütel  
Janika Sammasto  
Jüri Sild  
Ismet Suleimanov  
Kersti Tambets  
Tiiu Tõnson  
Ebe-Kai Uibo  
Vilma Veldre  
Viktoria Verdan  
Silja Vetevoog

**Address :**

University of Tartu  
Botanical Garden  
38/40 Lai St.  
51005 Tartu  
Estonia

Email : [botaed@ut.ee](mailto:botaed@ut.ee)  
<https://www.natmuseum.ut.ee/>

University of Tartu  
Botanical Garden

38/40 Lai St  
51005 Tartu  
Estonia

email: botaed@ut.ee

Ref. n . . . . .

DESIDERATA 2024


Please indicate your requests, one number per box and forward **before**  
**31. March 2025**

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

