Index seminum

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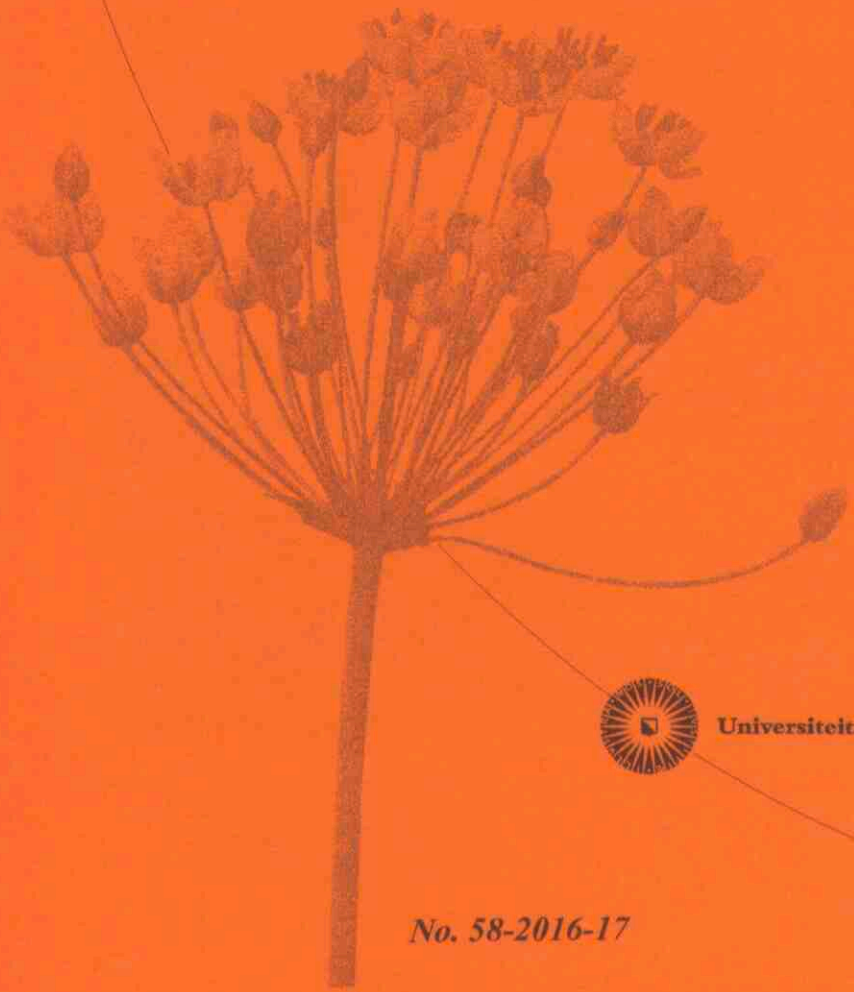
Utrecht University
Botanic Gardens
The Netherlands



Universiteit Utrecht

No. 58-2016-17

Utrecht University Botanic Gardens

P.O. Box 80.162
3508 TD Utrecht
The Netherlands

Index Seminum No. 58 - 2016-17

Internet Orders: **http://botgard.bio.uu.nl**
(including many pictures)

In response to the Convention on Biological Diversity (**CBD**), the Utrecht University Botanic Gardens supplies seeds and other plant material in accordance with the Code of Conduct for Botanic Gardens and similar collections. We are **IPEN**-member (**I**nternational **P**lant **E**xchange **N**etwork) and can exchange material with other IPEN-members without bi-lateral agreements
For a list of current IPEN-members check the web-site of BGCI (**B**otanic **G**ardens **C**onservation **I**nternational).
http://www.bgci.org/resources/History_of_IPEN/

Non IPEN-members have to return the "*Agreement on the supply of living plant material for non-commercial purposes leaving the International Plant Exchange Network (IPEN version 2b)*" which must be signed by **authorized staff**. This agreement can be made valid for 1, 3 or 5 years and is printed on the back-side of the order form.

Notes on ordering:

Correspondents are asked to use the order-form provided, **which must be signed by authorised staff,** and send it to the address mentioned upon it. Furthermore, they should check with their own authorities concerning import-regulations and include any necessary permits with their order.

The first distribution will be shortly after **March 1, 2017.** Many seeds of limited amount will be out of stock shortly afterward, so please order before this date. Requests, with a maximum of 25 packets will be handled in sequence of entry.

Staff

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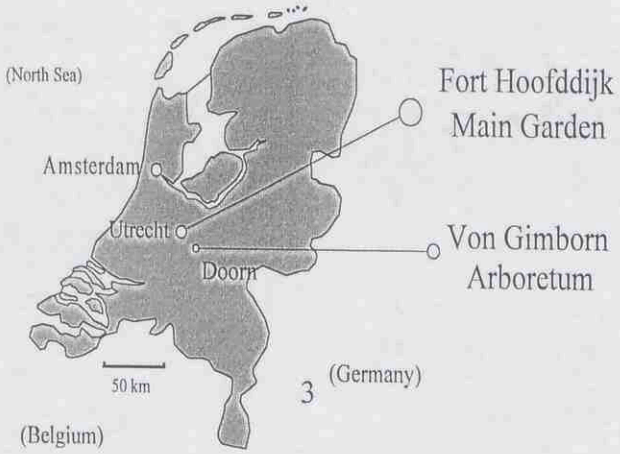
Garden location

- Utrecht: Fort Hoofddijk (University Centre)

Further (collecting) gardeners for Utrecht: G.E. Bruinenberg, I. van Capel, A. Jacobs, W. Jansen, A.A. Jongerius, R. Koops, , H.W.M. Noordman and B. Valstar.

Situation and climate:

Geographical position of the Main Garden ..... 52° 06' N : 5°11' E
Altitude ..... 2 m above sea level
Geopgraphical position of the Von Gimborn Arboretum ..... 52° 00' N : 5°20'E
Altitude .....3 m above sea level
Mean daily minimum of the coldest month.....- 0,6°C
Mean daily maximum of the warmest month.....+21,6°C
Highest temperature .....+36,8°C *
Lowest temperature .....-24,8°C *
Average rainfall .....803 mm



From the Curator's Department

With the presentation of this Index Seminum No. **58-2016-17** we take the opportunity, as usual, to inform you on the latest developments in Utrecht University Botanic Gardens.
In general, the activities of the curators are divided in the following main groups:

- Hans Persoon [HP]: Systematic Garden, Theme Garden, Central Route and student courses.
- Eric Gouda [EG]: Greenhouse Collections (focal point: Neotropical Collections) and the Rock Garden

Specializations:
In the framework of the National Plant Collection (NP), Utrecht University Botanic Gardens are maintaining specializations on the following groups and taxa:

- Flora of the Neotropics: [EG] Flora of the Guianas, with special emphasis on:
  Bromeliaceae *Orchidaceae* *Costaceae*

- *Annonaceae* (Research Collection) [EG]
- *Cecropiaceae* **[EG]**
- *Rhipsalis* **[EG]**
- *Aeonium*[EG]
- Alpines [EG]
- *Penstemon* [EG]
- *Eriogonum* **[EG]**
- selected woodland plants (*Arisaema*, *Asarum*, & *Trillium*) [EG]

These specializations are given extra attention regarding verification, nomenclature, wild source material, etc.
We are especially interested in material from natural sources of the groups and taxa mentioned above. We seek cooperation with gardens with identical specializations. If you are interested, please contact us and we will provide additional information.

***Bromeliaceae*:**
Study and devellopment in the *Bromeliaceae* collection has several focus points. In the first place the *Bromeliaceae* research project for the "Flora of the Guianas" and for the Flora of Ecuador: we try to grow all possible species from this area. Beside this, the *Tillandsioideae* collection (as Subfamily of the *Bromeliaceae*) is part of the National Plant Collection (NP). The genus *Tillandsia* of the Andian countries (especially Bolivia & Equador) has a special attention because of the various taxonomic problems on species level in these areas. To increase the general knowledge about the recognised genera in the Family we try to grow representatives from all genera. It is evident that our Bromeliaceae Collections will increase dramatically in both size and quality.

***Arisaema*:**
The last few years we have been very active with this group, increasing the number of wild collected species in the collection. Some areas, like the Peat Garden, have been improved to grow more Arisaemas. International contact with various *Arisaema* (*Araceae*) specialists caused considerable improvement of the collection.

Last but not least, the living collections have been enriched this year. Many new accessions from natural sources replaced accessions from cultivated origin, as part of the long-term collection strategy to replace plants of cultivated origin for wild-collected stock.

Codes used

Verification:
The seeds in this list have been taken from verified plants and only if we were reasonably sure that cross-pollination with related species would be unlikely.
Verification codes used:
0= not been determined by any authority;
1= determined by comparison with other named plants;
2= determined by a taxonomist or other competent person;
3= determined by a specialist (taxonomist working on that group)

Explanation of provenance codes of the plants:

W= Accession of wild source (treat as 'Z' because the donor plant is cultivated in our B.G., except W*, which is wild collected seed, distributed as such.)
Z= from a wild source plant in cultivation.
G= Garden origin.

IPEN-Number:
The first two positions are the iso-code of the country of origin. xx means: country of origin unknown.
The next position is a digit meaning: special restrictions (1) or not (0).
The next position is the abbrevation of the garden introducing the material in IPEN (in this seed-list only u).
The rest consists of the internal accession number:

The first four digits of it indicate the year of registration, (1900 = unknown year of entry).
The next two characters are coding for the garden location or specific group of plants: **GR**=Green houses; **BL**=Rock Garden; **ZG**=Orig. Von Gimborn Arboretum; **RD**=Woody Plants; **SL**= Seedlist only; **ZE**=Annuals and Biennials; **ZS** and **ZB**= Perennials.
The other five digits are a sequence number within a year.

The IPEN-number as a whole stays attached to the accession, wherever it may go, so that it it allways possible to trace back its origin.

The * at the end of the description is followed by the seed-list collecting year.

Agavaceae

1. 2G Doryanthes palmeri A.W.Hill
[IPEN xx0u-1973GR00602] *2013

Apiaceae

2. 1W Eryngium yuccifolium Michx.
[IPEN us0u-2002BL00542] United States, Michigan , Ingham county, MSU Prairie Planting, naturalized area, dry. , Alt.: 256 m. 04/10/2001 *2015

3. 2G Olymposciadium caespitosum (J.E.Sm.) Wolff
[IPEN xx0u-1969BL00242] *2016

Araceae

4. 3W Arisaema ciliatum var. liubaense Gusman & Gouda
[IPEN cn0u-1989BL00077] China, China South-Central, Sichuan , Liuba , Alt.: 3600 m. , Coll.: Teune, C. 369 14/09/1981 *2014

5. 2G Arisaema ciliatum var. liubaense Gusman & Gouda
[IPEN xx0u-1987BL00172] *2015

6. 2Z Arisaema consanguineum Schott
[IPEN cn0u-2001BL00109] China , San-ba. , Coll.: A Exp.-'94 China (A.G.S.) 2036 *2015

7. 2G Arisaema tortuosum (Wall.) Schott
[IPEN xx0u-1997BL00427] *2015

8. 2W Pinellia ternata (Thunb.) Breit.
[IPEN kr0u-1996BL00736] S Korea, Pilye Medicinal Spring, Mt. Sorak, Inje-Gun, Kangwon-Do. *2016

Arecaceae

9. 1G Chamaerops humilis var. humilis
[IPEN xx0u-1975GR00337] *2016

Aristolochiaceae

10. 2Z Aristolochia littoralis Parodi
[IPEN sv0u-1992GR00988] El Salvador , Acajutla. *2016

11. 2W Aristolochia trilobata L.
[IPEN gf0u-1992GR00904] French Guiana , Saül. Coll.: Mori, S. 22351 *2016

Asclepiadaceae

12. 2W Vincetoxicum hirundinaria Medik.
[IPEN ch0u-1964BL00042] Switzerland , Tessin, Val Verzasca. , Coll.: Kliphuis, Dr. E. s.n. 1964 *2016

Asteraceae

13. 1Z Berkheya cirsiifolia (DC.) Roessler
[IPEN ZA-0-IB-008865] South Africa *2015

14. 1Z Berkheya purpurea Benth., Hook.f. & Mast.
[IPEN za0u-2005BL01021] South Africa , Drakensberge *2013

15. 1W Cynara cardunculus L.
[IPEN it0u-2001BL00758] Italy, Sicilia 1994 *2015

Begoniaceae

16. 2W Begonia glabra Aubl.
[IPEN pa0u-2004GR00872] Panama , Fortuna , Alt.: 1000 m. , Coll.: Maas, P.J.M. et al. s.n. 25/05/2004 *2016

Betulaceae

17. 2W Alnus viridis subsp. suaveolens (Req.) P.W.Ball
[IPEN ch0u-1997BL00840] Switzerland , Groubunden, Morteratsch. , Alt.: 1920 m. *2016

18. 2W Betula lenta subsp. lenta L.
[IPEN ca0u-1986RD00002] Canada, Ontario , Niagara Reg., Louth Tp., only verified population in Canada, steep slope above Lake Ontario; 1985. Alt.: 88 m. *2015

Brassicaceae

19. 1W Pachyphragma macrophyllum (Hoffm.) N.Busch
[IPEN xx0u-1998BL00720] Caucasus , NW. *2016

Bromeliaceae

20. 3W Aechmea angustifolia Poepp. & Endl.
[IPEN ec0u-2012GR00300] Ecuador , Alt.: 1154 m. , Coll.: Jan Verkade *2016

21. 3W Aechmea aquilega var. aquilega
[IPEN sr1u-1999GR00107] Suriname , Parimaribo (Suriname Riv.). , Coll.: Gouda, E.J. 99-41 1999 *2016

22. 3Z Aechmea bromeliifolia (Rudge) Baker
[IPEN br0rott-20030214] Brazil *2016

23. 3Z Aechmea coelestis var. coelestis
[IPEN br0u-2004GR00485] Brazil , Coll.: Kuzma *2016

24. 3G Aechmea lueddemanniana (K.Koch) Mez
[IPEN xx0b-1184074] *2016

25. 3Z Aechmea recurvata var. recurvata
[IPEN py0u-2009GR00781] Paraguay , Alto Parana, Itabo *2016

Bromeliaceae (cont.)

26. 3Z Aechmea recurvata var. recurvata
[IPEN py0u-2009GR00305] Paraguay , Alto Parana, Itabo *2016

27. 3W Aechmea setigera Martius ex Schultes f.
[IPEN gf0u-1998GR00682] French Guiana, Mataroni (Timeberg); 98-03-23 , Coll.: Moonen, J.(FG) 201 *2016

28. 2G Billbergia brasiliensis L.B.Sm.
[IPEN xx0u-2007GR00347] *2016

29. 3W Goudaea aff. chrysostachys (E. Morren) W. Till & Barfuss
[IPEN ec0u-2008GR01062] Ecuador, Prov. Morona-Santiago , N of Tres Ranchos, road to Paraiso , Alt.: 1140 m. , Coll.: E.J.Gouda, J.Manzanares & B.Patterson 08-43 01/04/2008 *2016

30. 3W Guzmania musaica var. musaica
[IPEN co0u-2013GR00780] Colombia, Dept. Cauca, Valle del Cauca , Buenaventura, El Valle del Chucheros, near Bahia Malaga , Alt.: 0 m. , Coll.: Maas, P.J.M. et al. 10511 27/10/2013 *2016

31. 3W Pitcairnia aureobrunnea Rauh
[IPEN EC-1-U-2006GR00038] Ecuador, Prov. El Oro , Road Passaje - Catamayo (not main road) , Alt.: 1020 m. , Coll.: E.J.Gouda & J.Manzanares 05-29 23/11/2005 *2016

32. 3W Pitcairnia caricifolia Mart.ex Schult.f.
[IPEN ve0u-2005GR01552] Venezuela , Ilu (weide) Tepui *2016

33. 3W Pitcairnia grafii Rauh
[IPEN ve1heid-102579] Venezuela , E Tachira, SW of El Capacho, down to San Antonio , Alt.: 1000 m. , Coll.: Graf, H. Venezuela s.n. (R64680) 27/02/1993 *2016

Bromeliaceae (cont.)

34. 3Z Pitcairnia hitchcockiana L.B.Sm.
[IPEN EC-0-U--2006GR01008] Ecuador , Mera , Alt.: 1300 m. , Coll.: Fläschendräger, A. s.n. 20/04/1995 *2016

35 . 3Z Pitcairnia imbricata (Brongn.) Regel
[IPEN gt0u-2005GR00894] Guatemala , 20 km from Guatemala City towards el Rancho , Alt.: 800 m. , Coll.: Radtke/Moldenhauer 183 *2016

36. 3Z Racinaea fraseri (Baker) Spencer & L.B.Sm.
[IPEN ec0u-2011GR00563] Ecuador , Coll.: Elly Bak (NL) 1990 *2016

37. 3W Tillandsia caliginosa W.Till
[IPEN bo0u-1998GR01073] Bolivia , near Cochabamba or Sucre?; nov.1989. , Coll.: Gouda, C.S. s.n. *2016

38. 3Z Tillandsia chapalillaensis Ehlers
[IPEN mx0u-1997GR00664] Mexico *2016

39. 3W Tillandsia polystachia (L.) L.
[IPEN mx0u-2007GR01372] Mexico , Cd. Valles to Cd.Maute, Near Gustavo Garmendia 1985 *2016

Cactaceae

40. 3W Rhipsalis baccifera (J.Mill.) Stearn
[IPEN sr1u-1975GR00357] Suriname , no further details! , Coll.: Lindeman,J.C. 09/1975 *2015

41. 1G Rhipsalis baccifera subsp. horrida (Baker) Barthlott
[IPEN xx0er-207-607] *2015

Campanulaceae

42. 2Z Asyneuma canescens (Waldst. & Kit.) Griseb. & Schenk
[IPEN gr0u-2008BL00486] Greece , Mt. Timfrestos *2015

43. 2W Lobelia thapsoidea Schott
[IPEN br1u-2009GR01315] Brazil Southeast, Espirito Santo , Santa Teresa , Coll.: Maas, P.J.M. et al. s.n. 04/05/2009 *2013

Cannaceae

44. 3W Canna paniculata Ruiz & Pav.
[IPEN pe0u-1976GR00106] Peru , dept. Huanuco, Puente Durand,herb. 5 m, fls. red/orange; 76-03-22 , Alt.: 1000 m. , Coll.: Plowman,T. & Kennedy,H. 5700 *2016

45. 2Z Canna tuerckheimii F.Kränzl.
[IPEN cr0u-1975GR-00189] Costa Rica , Costa Rica, San Vito, , Coll.: Plowman,T. 3767a *2016

46. 2W Canna tuerckheimii F.Kränzl.
[IPEN ec0u-1980GR00287] Ecuador , Alluriquin area, between Sto. Domingo de los Colorados and Quito,mountain forest; 80-10-00 , Alt.: 850 m. , Coll.: Maas, P.J.M. et al. 4796 *2016

Capparaceae

47. 2W Cleome viridiflora Schreb.
[IPEN bo1u-1999GR00209] Bolivia , Coll.: Maas, P.J.M. et al. 8803 *2013

Caryophyllaceae

48. 1W Drypis spinosa L.
[IPEN hr0u-2005BL00106] Croatia , Velebit Bot.Garden , Coll.: S. Kovaèiae s.n. 10/09/2002 *2010

Cistaceae

49. 1Z Cistus albanicus E.F.Warb. ex Heywood
[IPEN al0u-2013BL00136] Albania , Burrel , Alt.: 1200 m. *2015 Clusiaceae

50. 1Z Hypericum montbretii Spach
[IPEN GR-0-B-2409692] Greece , Thrakien, Nomos Evrou, Kallithea, Silikat, 900m, leg. , Alt.: 900 m. , Coll.: Raus/Schiers 18706 *2015

Crassulaceae

51. 3W Aeonium arboreum var. rubrolineatum (Svent.) H.-Y.Liu
[IPEN es0u-1992HR31856] Spain, Canary Is., Gomera , Barranco del Agua, along the road from Las Hayas to El Cercado , Alt.: 850 m. , Coll.: Poppendieck 89-7 20/07/1989 *2012

52. 2W Sedum anacampseros L.
[IPEN ch0u-1965BL00396] Switzerland , no further details ! *2016

53. 1W Sedum ewersii Ledeb.
[IPEN in0u-2006BL00191] India, Himachal Pradesh , Borderlands of W.Tibet (from Lahoul), Chandra Valley , Alt.: 4450 m. , Coll.: Chadwell, C. et al. 5288 2005 *2015

54. 2W Sedum stoloniferum S.G.Gmel.
[IPEN ge0u-1977BL00127] Georgia , Abkhazia (Caucasus), Awadchara. *2015

55. 2W Sempervivum tectorum subsp. tectorum
[IPEN fr0u-1987BL00178] France , Lautaret. 1986 *2016

Cupressaceae

56. 2W Cupressus torulosa D.Don
[IPEN np0u-2002RD00103] Nepal , Himalaya. Mustang, Tukuche area, Forest zone. , Coll.: Chadwell, C. et al. 4046 2001 *2011

Fabaceae

57. 1W Dorycnium pentaphyllum subsp. pentaphyllum
[IPEN it0u-2001BL00098] Italy , Südtirol, Bozen SE, Tiers N, Völsegg, Trockenhang. , Alt.: 1200 m. 06/2000 *2016

Geraniaceae

58. 1W Pelargonium alchemilloides (L.) L'Hér.
[IPEN za0u-2011ZS00378] South Africa , Balloch, Balloch Farm (near S border of Lesotho) *2016

Globulariaceae

59. 2Z Globularia cordifolia L.
[IPEN at0u-1995BL00195] Austria , Niederösterreich, Eichkogel. , Alt.: 230 -350 m. *2016

Gunneraceae

60. 1G Gunnera prorepens Hook.f.
[IPEN xx0u-2006BL00950] *2015

Haemodoraceae

61. 1G Wachendorfia thyrsiflora L.
[IPEN xx0u-2009GR00739] *2016

Iridaceae

62. 2Z Gladiolus palustris Gaud.
[IPEN es0u-1996BL01038] Spain , probably from N.Spain, without details. , Coll.: Gouda, C.S. s.n. *2016

63. 2Z Iris orientalis Mill.
[IPEN tr0u-1995BL00188] Turkey, Prov. Samsun, near Ladik. *2015

64. 2Z Iris sintenisii subsp. sintenisii Janka
[IPEN bg0u-1995BL00180] Bulgaria , Eastern Sredna Gora Mts , Coll.: Sterz *2015

65. 2W Iris sintenisii subsp. sintenisii Janka
[IPEN bg0u-2003BL01006] Bulgaria , Black Sea coast, Perla N of Primorsko village. , Alt.: 2 m. *2016

Lamiaceae

66. 1Z Nepeta sibthorpii Benth.
[IPEN gr0u-2000BL01105] Greece , Peloponnes, Nomos Arkadias, Mandinia, Kardara/ Mt.Menalon. , Alt.: 820 m. M 5869 *2014

67. 1G Salvia apiana Jeps.
[IPEN xx0u-2012ZS00728] *2015

68. 1Z Salvia dichroantha Stapf
[IPEN tr0u-2006BL01620] Turkey KB 119 *2015

69. 2Z Sideritis syriaca L.
[IPEN gr0u-2008BL00498] Greece , Euboea *2014

70. 2W Stachys pradica (Zanted.) Greuter & Pignatti
[IPEN ch0u-1988BL00339] Switzerland , Switzerland, Valais, Gd. St. Bernard. , Alt.: 2300 m. *2014

Liliaceae

71. 1W Allium altaicum Pall.
[IPEN ru0u-1979BL00323] Russian Federation, Altay , S.W.-Siberia, Altai Mts., South facing talus slope above desert steppe, near settlement of Kurai. , Alt.: 2000 -2200 m. *2016

72. 2Z Allium angulosum L.
[IPEN fr0u-1995BL00214]France, Presvosges. *2016

73. 2W Allium senescens L.
[IPEN at0u-1962BL00140] Alps *2016

74. 2W Bomarea edulis (Tussac) Herb.
[IPEN sr0u-1980GR00248] Suriname , Kabelebo area, along Barieba Creek , Coll.: Lindeman,J.C. & A.R.A.G"rts 455 *2016

75. 1G Helonias bullata L.
[IPEN xx0u-1998BL00254] *2015

76. 0G Lilium monadelphum M.Bieb.
[IPEN xx0u-2013BL00790] *2013

77. 2W Polygonatum multiflorum var. ramosum (Döll) Geisenh.
[IPEN be0u-2004BL01043] Belgium , Kortrijk, bij ondergronds kanaaluitgraving , Coll.: Prof. P. Van Der Veken s.n. 19/04/1979 *2016

78. 2W Trillium flexipes Raf.
[IPEN us0u-2008BL01794] United States, Alabama *2015

79. 2U Trillium grandiflorum (Michx.) Salisb.
[IPEN xx0u-2002BL00679] *2014

80. 2G Trillium kurabayashii Freeman
[IPEN xx0u-2000BL00131] *2016

81. 2G Veratrum nigrum L.
[IPEN xx0u-1965BL00271] *2016

82. 2Z Veratrum oxysepalum Turcz.
[IPEN cn0u-1997BL01048] China , S-Chekiang. *2016

Magnoliaceae

83. 1G Magnolia wilsonii (Finet & Gagnep.) Rehder
[IPEN xx0u-2010RD00433] *2016

Malvaceae

84. 1W Lavatera thuringiaca L.
[IPEN ro0u-2015ZS00183] Romania , Near Iasi *2016

Mimosaceae

85. 2W Leucaena leucocephala (Lam.) de Wit
[IPEN vi0u-1988GR00056] Virgin Islands (U.S.), Virgin Is. , St.Thomas Island, on top of mountain near airlanding strip. 1967 *2016

Nartheciaceae

86. 2W Narthecium ossifragum (L.) Huds.
[IPEN nl0u-1964BL00700] Netherlands, Prov. Drenthe , near Eelde 1964 *2016

Onagraceae

87. 1G Fuchsia boliviana var. boliviana
[IPEN xx0u-2007GR00871] *2013

88. 3W Fuchsia paniculata Lindl.
[IPEN pa0u-1980GR00318] Panama , Chiriqui Mt.wood near Guadeloupe, 2 km N of Cerro Punta. , Alt.: 1800 m. , Coll.: Maas, P.J.M. et al. 4985 21/10/1980 *2014

Paeoniaceae

89. 2Z Paeonia obovata Maxim.
[IPEN cn0u-2009BL01134] China , Coll.: Chen Yi P-114 *2016

Plantaginaceae

90. 2W Veronica spicata subsp. spicata
[IPEN fr0u-2008BL00643] France , Lautaret , Alt.: 2000 m. *2016

Plumbaginaceae

91. 2Z Armeria maritima subsp. andina (Poepp. ex Boiss.) Moore & H.O.Yates
[IPEN ar0m-2002/0912]Argentina South, Santa Cruz , Lago Argentina, Califate, Peninsula Magellanes *2016

92. 2G Limonium minutum (L.) Fourr.
[IPEN xx0u-1984BL00199] *2011

Polemoniaceae

93. 1W Polemonium pauciflorum S.Watson
[IPEN us0u-2009BL00514] United States, Arizona , Cochise Co. , Alt.: 2073 m. , Coll.: Alan Bradshaw (Alplains) 70095.17 *2014

Polygonaceae

94. 2W Oxyria digyna (L.) J.Hill
[IPEN it0u-2009BL00619] Italy, Valle Urtier , A. Manda , Alt.: 2400 m. *2016

Ranunculaceae

95. 1G Thalictrum rochebrunianum Franch. & Sav.
[IPEN xx0u-2014BL00305] *2016

96. 1K Trautvetteria caroliniensis (Walter) Vail
[IPEN xx0u-2013ZS00595] *2016

Rosaceae

97. 2Z Potentilla gracilis var. flabelliformis (Lehm.) Nutt.
[IPEN us0u-1999BL00564] United States , Rocky Mountains, (1930) without details. *2016

98. 1G Tetraglochin alatum (Gillies ex Hook. & Arn.) Kuntze
[IPEN xx0u-2012BL00026] *2015

Saxifragaceae

99. 1G Peltoboykinia watanabei (Yatabe) Hara
[IPEN xx0u-2002BL00017] *2014

Scrophulariaceae

100. 1W Lophospermum erubescens D.Don
[IPEN bo0u-2005GR01250] Bolivia, Prov. Santa Cruz , direction of Samaipata, near Ayacucho , Coll.: Gouda, C.S. s.n. *2016

101. 2W Digitalis ferruginea L.
[IPEN gr0u-2006BL00502] Greece, Peloponesos , Mt. Killini *2012

102. 2Z Digitalis ferruginea subsp. ferruginea
[IPEN tr0u-2000BL00393] Turkey , N.-Anatolia, Bithynia: Ala-Dag, Kartalkaya 10 km before ski station. , Alt.: 1600 m. *2011

103. 2W Digitalis viridiflora Lindl.
[IPEN bg0u-2002BL01044] Bulgaria , Eastern Rodopi. , Alt.: 1700 m. 25503 2002 *2012

Scrophulariaceae (cont.)

104. 1Z Paulownia elongata S.Y.Hu
[IPEN cn0u-2006RD00581] China , no further details *2015

105. 1W Penstemon cardwellii T.J.Howell
[IPEN us0u-1991BL00700] United States, Oregon Multnomah Co., no further details! , Alt.: 1080 m. *2013

106. 2W Penstemon digitalis Nutt.
[IPEN us0u-1995BL01112] United States, Michigan , Ingham county, roadbank above seep , Alt.: 259 m. *2015

107. 2W Penstemon euglaucus English
[IPEN us0u-1999BL01169] United States, Oregon USA, Oregon, Santiam Pass. *2013

108. 2Z Penstemon tubiflorus Nutt.
[IPEN us0u-2011BL00995] United States, Missouri , Rock Hill *2013

Sterculiaceae

109. 1G Abroma augusta (L.) L.f.
[IPEN xx0u-1987GR00028] *2013

Valerianaceae

110. 1Z Patrinia heterophylla Bunge
[IPEN cn0u-2015BL00536] China, China North-Central, Shaanxi , Qin Ling tnountains, Kaizeping Alt.: 1800 m. HeHeHe 298 *2016

111. 1Z Patrinia scabiosifolia Fisch. ex Link
[IPEN jp0u-2014BL00144] Japan, Hokkaido , Shiraoi-machi, Shiraoi-gun , Coll.: H. Takahashi ea.. 27/07/2000 *2016

Verbenaceae

112. 1G Petrea volubilis L.
[IPEN xx0u-1992GR01111] *2016

113. 2G Phyla nodiflora (Kunth) Green
[IPEN xx0u-2008BL01557] *2013