



Index seminarum

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Index Seminum

*Utrecht University
Botanic Gardens
The Netherlands*



Universiteit Utrecht

No. 45-2003

UNIVERSITEITSBIBLIOTHEEK UTRECHT



4216 3661

Utrecht University Botanic Gardens

P.O. Box 80.162
3508 TD Utrecht
The Netherlands

<http://www.bio.uu.nl/botgard/>

Index Seminum No. 45 - 2003

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 (International Plant Exchange Network) and can exchange material with other IPEN-members without bi-lateral agreements

The current IPEN-members are Listed at <http://www.biologie.uni-ulm.de/verband/cbd/list.html>.

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.
- Only requests, with a maximum of 25 packets, reaching us before **March 1, 2004** will be handled in sequence of entry.
- **Order-forms which will reach us after that date will not be handled!**
- Our Fax no. is +31 30 2535177 (do not use e-mail).
- Internet Orders: <http://botgard.bio.uu.nl/seedlist/>

Staff

General Department:

Ing. Arie Oudijk, *A.Oudijk@bio.uu.nl*
General Director
Drs. Akkie J. Joosse, *A.J.Joosse@bio.uu.nl*
Communications Officer
Mrs. Ceciel Sillevius *C.Sillevis@bio.uu.nl*
Secretary

Curators' Department:

Drs. Hans Persoon *H.Persoon@bio.uu.nl*
Curator and Deputy Director
Drs. Eric J. Gouda *E.J.Gouda@bio.uu.nl*
Curator
Mr. Lennart Everts *M.L.Everts@bio.uu.nl*
Assistant
Dr. Piet C. de Jong *PCdeJong@arbor.demon.nl*
Guest Staff Member

Educational Department:

Drs. Nick.A.J.Meijdam *N.A.J.Meijdam@bio.uu.nl*
Education officer
Ir. Ruth C. de Visser-de Jonge, *R.C.deVisser@bio.uu.nl*
Coordinator Theme Garden Project

B.G.C.I. - The Netherlands

Drs. Bert J.W. van den Wollenberg
L.J.W.vandenWollenberg@bio.uu.nl
Web Site: <http://www.bio.uu.nl/botgard/bgci.htg/regoff.htm>



Gardens location

- Utrecht: Fort Hoofddijk (University Centre)
- Doorn: Von Gimborn Arboretum

Situation and climate:

Geographical position of the Main Garden	52° 06' N : 5° 11' E
Altitude	2 m above sea level
Geographical 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

*Monitored since 1849



From the Curator's Department

With the presentation of this Index Seminum No. 45-2003 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]: Arboretum, Systematic Garden, Theme Garden
- 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*
- Broad-leaved hardy trees and shrubs: [HP]
Aceraceae *Betulaceae* *Ericaceae*
Euonymus *Laburnum* *Magnolia*
Oleaceae (esp.: *Fraxinus* and *Syringa*)
- *Annonaceae* (Research Collection) [EG]
- Conifers (esp. *Tsuga*) [HP]
- Alpines [EG]
- *Crassulaceae* (Research Collection) [EG]
- selected woodland plants (*Arisaema*, *Asarum* & *Trillium*) [EG]
- *Penstemon* [EG]
- *Lecanopteris* [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.

Aceraceae:

The research within the *Aceraceae* Project will take place in a number of phases and we wish to thank the following organisations for their cooperation:

- * Dutch Botanic Gardens Foundation
- * The Maple Society
- * IUCN-SCC Temperate Broadleaved Trees Specialist Group
- * Botanic Gardens Conservation International (BGCI)
- * Regional Office of BGCI at Utrecht
- * Professional Growers of *Aceraceae* and the Keeper of the "Aceretum", Mr. D.M. v. Gelderen (Fa. C.Esveld) at Boskoop.

One of the goals will be the production of a survey of taxa of *Aceraceae*, currently considered threatened (IUCN Conservation Categories) present in the Western Botanic Gardens.

This list will be analysed and completed with the threatened species native to Temperate Asia. Special emphasis will be put on specimens of recorded wild origin, In this respect we kindly request the help and support of our Chinese colleagues.

Bromeliaceae:

Study and development in the *Bromeliaceae* collection has several focus points. In the first place the *Bromeliaceae* research project for the "Flora of the Guianas": 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 & Ecuador) 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

Explanation of provenance codes of the plants:

- W**= Accession of wild source
Z= from a wild source plant in cultivation.
G= Garden origin.

All seeds are harvested in the garden or in the arboretum.

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:

- 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)

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 abbreviation of our garden (**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 is always possible to trace back its origin.

Source of illustrations used:

From colour illustrations made by the late Dr. C.D. Laros, Utrecht University Botanic Gardens.

This Index Seminum is printed on BIOTOP[®] (recycled, chlorine-free) paper.

Aceraceae

1. 2 G XX 0U1900ZG00997 *Acer micranthum* Siebold & Zucc.
2. 2 G XX 0U1978RD00966 *Acer nipponicum* H.Hara .
3. 2 G XX 0U1978RD00724 *Acer triflorum* Kom.

Amaranthaceae

4. 2 W EC0U1974GR00319 *Pleuropetalum darwinii* Hook.f. ; Ecuador:
Galápagos , Santa Cruz. Coll.: Werff,H.v.d.
178. 04/1974.

Annonaceae

5. 3 G XX 0U1994GR01614 *Artabotrys hexapetalus* (L.f.) Bhandari.

Apiaceae

6. 2 W AT0U1998ZS00172 *Eryngium campestre* L. ; Austria ,
Niederösterreich, Weinviertel, Retz,
Weingarten. 300 m. Alt. Coll.: Mag. Dr.
Wolfgang Leopoldinger . 09/1997.
7. 2 G XX 0U1969BL00242 *Olymposciadium caespitosum* (J.E.Sm.)
Wolff.

Aquifoliaceae

8. 2 G XX 0U1961RD00653 *Ilex pedunculosa* var. *pedunculosa* Miq.

Araceae

9. 2 Z NPOU1986BL00395 *Arisaema ciliatum* var. *liubaense* Gusman & Gouda ; Nepal , no further details!. 1600 m. Alt. Coll.: Schilling,A.D. s.n.
10. 2 W CN0U1989BL00077 *Arisaema ciliatum* var. *liubaense* Gusman & Gouda ; China: Sichuan , Liuba. 3600 m. Alt. Coll.: Teune,C. 369. 14/09/1981.
11. 2 G XX 0U1971BL00337 *Arisaema flavum* (Forssk.) Schott.
12. 2 G XX 0U1984BL00036 *Arisaema flavum* (Forssk.) Schott.
13. 2 G XX 0U1988BL00107 *Arisaema nanum* Nakai.
14. 2 W GROU1973BL00133 *Biarum tenuifolium* var. *abbreviatum* (Schott) Engl. ; Greece , Parnassos Mts. 1200 m. Alt. Coll.: H.'t Hart (also HTH). 03/09/1973.
15. 2 G XX 0U1968GR00913 *Nephtytis afzelii* Schott.

Aristolochiaceae

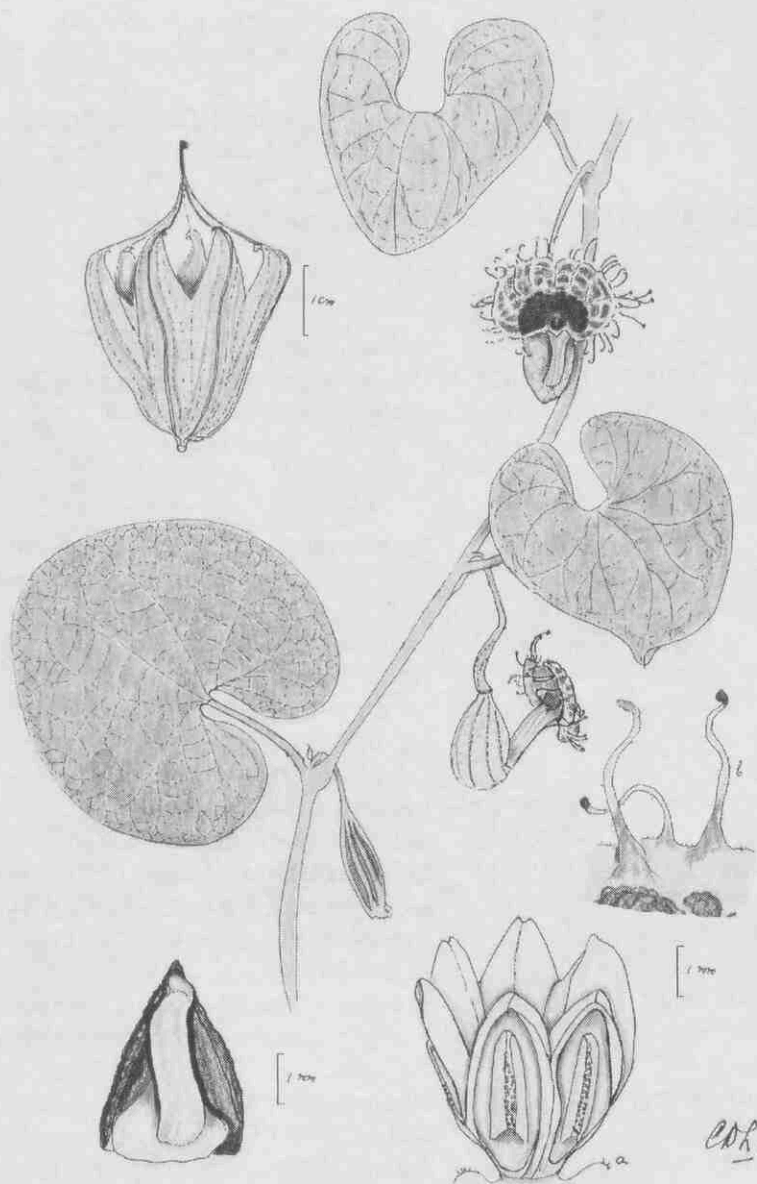
16. 2 G XX 0U1992GR01149 *Aristolochia fimbriata* Cham.

Asteraceae

17. 1 W IT0U2003BL00046 *Hieracium intybaceum* All. ; Italy , La Thuile, V. Breuil. 2200 m. Alt.
18. 2 W DE0U1965BL00167 *Leontopodium alpinum* subsp. *alpinum* Cass. ; Germany: W.Germany , without locality.
19. 1 G XX 0U1992BL00809 *Leontopodium alpinum* subsp. *nivale* (Ten.) Tutin.
20. 2 W MX0U1990ZE00538 *Sanvitalia procumbens* Lam. ; Mexico: México State , Km.26, carretera Jolalpan-Axochiapa, Morelos.
21. 2 W XX 0U1975ZS00023 *Silphium integrifolium* Michx. , no further data!. 1960.

Berberidaceae

22. 1 G XX 0U1997BL00254 *Jeffersonia diphylla* (L.) Pers.



Aristolochia fimbriata Cham. (Aristolochiaceae)

Boraginaceae

23. 2 W SE0U1991ZE01573 *Asperugo procumbens* L. ; Sweden, Angermanland, Tasjo Parish, Hoting railway stn.
24. 1 W RO0U2002BL00291 *Echium russicum* J.F.Gmelin ; Romania, Distr. Mures, Zau de Campie. Coll.: Sanraian, M.
25. 1 G XX 0U1993BL00099 *Moltkia petraea* (Tratt.) Griseb.

Brassicaceae

26. 2 G XX 0U1991ZE00646 *Brassica nigra* (L.) W.D.J.Koch.
27. 2 W ES0U1972ZE02073 *Crambe hispanica* var. *glabrata* (DC.) Coss.; Spain , no other data available.

Bromeliaceae

28. 2 W SR1U1999GR00107 *Aechmea aquilega* var. *aquilega* ; Suriname: Surinam , Suriname, Parimaribo (Suriname Riv.).. Coll.: Gouda,E.J. 99-41.
29. 2 Z BR1U1996GR00653 *Aechmea nudicaulis* var. *nudicaulis* (L.) Griseb. ; Brazil , Bahia, Mun. Camaca, Estrada BR101, 2 km S Camaca, mata higrofila with Cacao. Epiphyt. Coll.: Leuenberger et all. 3096. 23/04/1983.
30. 2 G XX 0U1996GR00630 *Aechmea penduliflora* Andre.
31. 3 G XX 0U1998GR00469 *Billbergia viridiflora* H.Wendland .
32. 2 W BR1U1996GR01181 *Billbergia zebrina* (Hernert) Lindl. ; Brazil: Rio de Janeiro , Rio de Janeiro City, Tijuca National Park. 500 m. Alt. Coll.: Leme,E. 128. 05/1981.
33. 3 W AN0U1994GR00869 *Pitcairnia angustifolia* Soland. ; Netherlands Antilles: Saba , Saba, West coast, halfway the 'ladder' near Ladder Bay.
34. 3 W VE1U2001GR00854 *Pitcairnia grafii* Rauh ; Venezuela , E Tachira, SW of El Capacho, down to San Antonio. 1000 m. Alt. Coll.: Graf, H. Venezuela s.n. (R64680). 27/02/1993.
35. 3 W XX 1U1996GR00618 *Portea leptantha* Harms Brazil, Estado de Pernambuco.. Coll.: Leme,E. 1453.

Campanulaceae

36. 2 W DE0U1990BL00946 *Edraianthus graminifolius* (L.) A.DC.;
Germany: E.Germany , Kröchtendorff.
37. 2 W FR0U1994ZE00502 *Wahlenbergia hederacea* (L.) Rchb.; France,
Orne, Lonlay l'Abbaye, La Lande Pourrie.
38. 2 G XX 0U1958ZE02196 *Wahlenbergia lobelioides* (L.f.) A.DC.

Capparaceae

39. 2 W BO1U1999GR00209 *Cleome viridiflora* Schreber ; Bolivia,
Bolivia, I. Vargas C., C. Specht, F. Chispe.
Coll.: Maas,P.J.M. et all. 8803.

Caprifoliaceae

40. 2 G XX 0U1985RD00389 *Heptacodium miconioides* Rehder.

Caryophyllaceae

41. 2 W FR0U1997ZE00126 *Arenaria serpyllifolia* subsp. *serpyllifolia* L.;
France , Chenôve.
42. 2 G XX 0U1983BL00090 *Dianthus knappii* (Pant.) Asch. & Kanitz ex
Borbás.
43. 2 W FR0U1993BL00776 *Dianthus sylvestris* Wulfen ; France:
Pyrenees , Aude, Montagne de Tauch. Coll.:
Bellotte, W.
44. 2 Z BG0U1988ZE00031 *Lychnis coronaria* (L.) Desr. in Lam.;
Bulgaria , no further details!
45. 2 W SI0U1994BL00089 *Silene saxifraga* L. ; Slovenia , Steiner Alpe,
Grintovec, ascent from Ceska Koca to
Grintovec. 1500- 2000 m. Alt. Coll.:
F.Steffan & Th.Ster . 08/1992.

Celastraceae

46. 2 G XX 0U1980RD00222 *Euonymus bungeanus* var. *bungeanus*
Maxim.

Clusiaceae

47. 2 W NO0U1991ZS00527 *Hypericum maculatum* Crantz ; Norway, Oslo, Nordmarka, Skjærsoelva. 310 m. Alt. 09/09/1990.
48. 2 G XX 0U1973BL00111 *Hypericum orientale* L.

Commelinaceae

49. 2 W DE0U1991ZE00816 *Commelina communis* L. ; Germany: E.Germany , Berckenbrück, Fürstenwalde.
50. 2 W US0U1991ZS00825 *Tradescantia ohiensis* Raf. ; United States: Pennsylvania , grounds Bowman's Hill Wildflower Preserve.

Crassulaceae

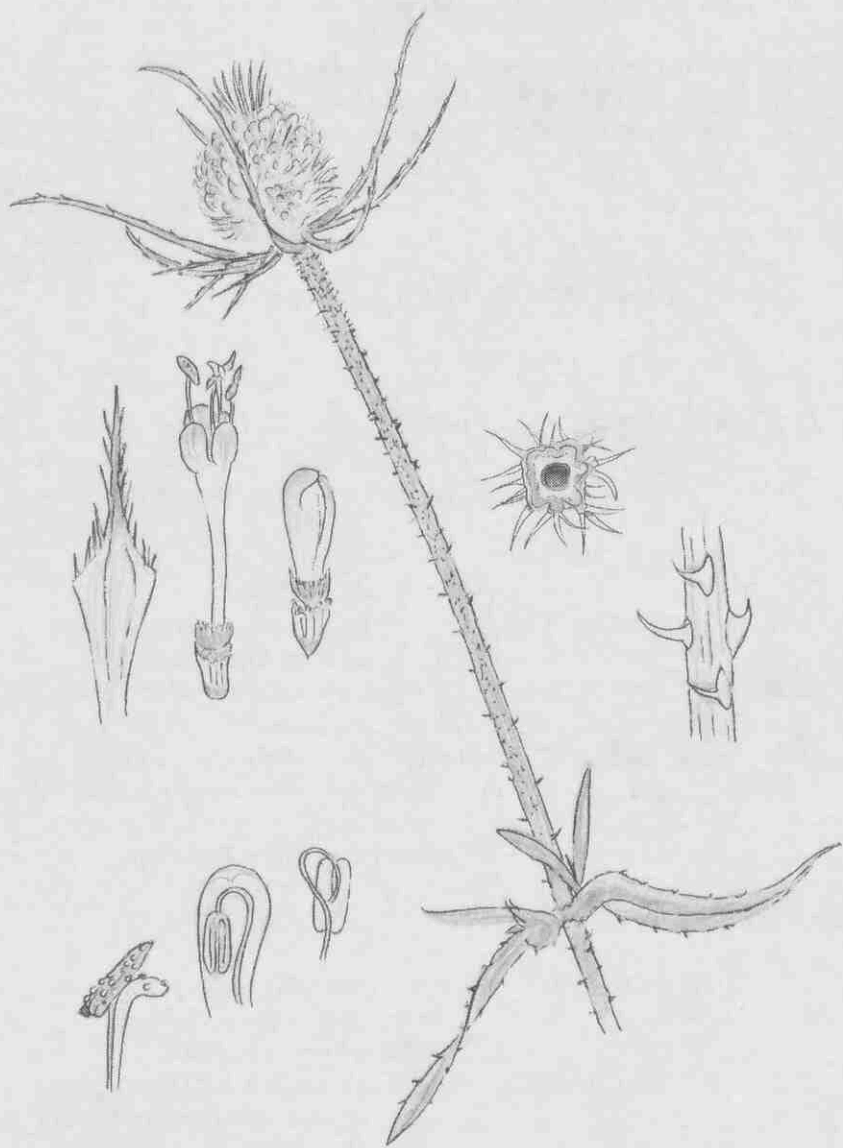
51. 2 G XX 0U1977BL00079 *Chiastophyllum oppositifolium* (Ledeb. ex Nordm.) Berger.
52. 2 W XX 0U1962BL00246 *Sempervivum tectorum* subsp. *alpinum* (Griseb. & Sch.) Wettst.

Cucurbitaceae

53. 2 G XX 0U1954ZE02380 *Ecballium elaterium* (L.) A.Rich.

Dipsacaceae

54. 1 G XX 0U2000BL00619 *Cephalaria alpina* (L.) Schrad. ex Roem. & Schult.
55. 2 W CH0U1991ZE00259 *Dipsacus fullonum* L. ; Switzerland, Reinach, Reinacherheide. 280 m. Alt.
56. 2 W IT0U1994BL00090 *Scabiosa cinerea* subsp. *cinerea* Lapeyr. ex Lam. ; Italy , Puglia, Promontorio del Gargano, NE Coast, ca. 2 km. ESE Coppo dei Fossi, Macchie. 150 - 200 m. Alt. Coll.: P.Gigerl, . 09/1992.



Dipsacus fullonum L. (Dipsacaceae)

Ericaceae

57. 2 G XX 0U1900ZG00184 *Enkianthus cernuus* var. *rubens* (Maxim.) Makino.
58. 2 G XX 0U1900ZG01222 *Kalmia latifolia* L.
59. 2 G XX 0U1900ZG00097 *Rhododendron canadense* (L.) Torr.
60. 2 G XX 0U1900ZG01146 *Zenobia pulverulenta* (W.Bartram ex Willd.) Pollard.

Erythroxylaceae

61. 2 G XX 0U1968GR00714 *Erythroxylum coca* Lam.

Fabaceae

62. 2 W FR0U1972ZE02110 *Lathyrus clymenum* L. ; France: Pyrenees, East part, Roussillon, Corniche catalane: Port-Vendres, Banyuls, Cerbère, on coastal cliffs.
63. 2 Z IT0U1971ZE00834 *Lathyrus odoratus* L. ; Italy: Sicilia , no other details available!
64. 2 W UA0U1987ZS00040 *Lathyrus tuberosus* L. ; Ukranian SSR: Krym , Tauria, no further data!
65. 2 W SI0U1996ZS00317 *Securigera varia* (L.) Lassen ; Slovenia, Vel'ká Fatra, Plesovica.
66. 1 W HU0U1999BL00727 *Tetragonolobus maritimus* (L.) Roth; Hungary , Magyarország, Kishunság between Duna R. and Tisza R. near Tatászentgyörgy and Orgovány.

Gentianaceae

67. 2 W DE0U1997ZE00357 *Centaurium erythraea* subsp. *erythraea*; Germany: W.Germany , Nordrhein Westfalen, Lengerich. 1995.
68. 2 W US0U1983BL00287 *Gentiana affinis* Griseb. ; United States: Oregon , no other details available!. 1982.

Geraniaceae

69. 2 W JPOU1987BL00423 *Geranium soboliferum* Kom. ; Japan, Oshino-muro, near Mnt. Fuji. 95- 1000 m. Alt.

Gesneriaceae

70. 2 G XX 0U1966BL00054 *Haberlea rhodopensis* Friv.
71. 2 Z MK0U1982BL00132 *Ramonda nathaliae* Pancic & Petrovic; Macedonia , Titov Veles. 230 m. Alt. 1981.

Iridaceae

72. 2 G XX 0U1977BL00409 *Iris magnifica* Vved.
73. 2 Z BG0U1995BL00180 *Iris sintenisii* subsp. *sintenisii* Janka; Bulgaria , Eastern Sredna Gora Mts. Coll.: Sterz.
74. 2 G XX 0U1991GR00557 x *Pardancanda norrisii* L.W.Lenz.

Juncaceae

75. 2 Z CA0U1993BL00754 *Juncus ensifolius* Wikstr. ; Canada: British Columbia , Kookeney Lake, Dandspit. Coll.: Böhnert s.n.

Lamiaceae

76. 2 W AT0U2002BL00202 *Ajuga pyramidalis* L. ; Austria , Salzburg, Thumarsbach E t km, alpine pasture, greywacke. 1800 m. Alt. Coll.: Mayr, A. . 08/2001.
77. 2 Z TR0U1994BL00415 *Scutellaria diffusa* Benth. ; Turkey , Prov. Hatay, Amanus- mts. (Gavur Daglari), Atik. Coll.: Ern,H. 6923.

Liliaceae

78. 2 Z BG0U1989BL00114 *Allium flavum* subsp. *flavum* L.; Bulgaria, Coll.: Cytotax 24913.
79. 2 G XX 0U1972GR00215 *Arthropodium cirrhatum* (G.Forst.) R.Br.
80. 2 W SR0U1980GR00248 *Bomarea edulis* (Tussac) Herb. ; Suriname: Surinam , Kabelebo area, along Barieba Creek. Coll.: Lindeman,J.C. & A.R.A.Görts 455.
81. 1 Z HR0U1978BL00091 *Lilium martagon* var. *cattaniae* Vis.; Croatia, Brokovo. 1962.
82. 2 W NL0U1964BL00700 *Narthecium ossifragum* (L.) Huds.; Netherlands: Drenthe , near Eelde. 1964.
83. 2 W GR0U1968BL00137 *Ornithogalum sphaerocarpum* A.Kern.; Greece: Kriti , no other details available! Coll.: Gradstein,S.& Smittenberg s.n.. 1967.
84. 2 W IT0U1977BL00282 *Tofieldia calyculata* (L.) Wahlenb. ; Italy, Ven Jul. near Platisensis,. 650 m. Alt. Coll.: Cytotax. coll.in Yug. 16606. 1976.
85. 2 G XX 0U1996GR01138 *Tulbaghia simmleri* Beauverd.
86. 2 G XX 0U1965BL00271 *Veratrum nigrum* L.

Lythraceae

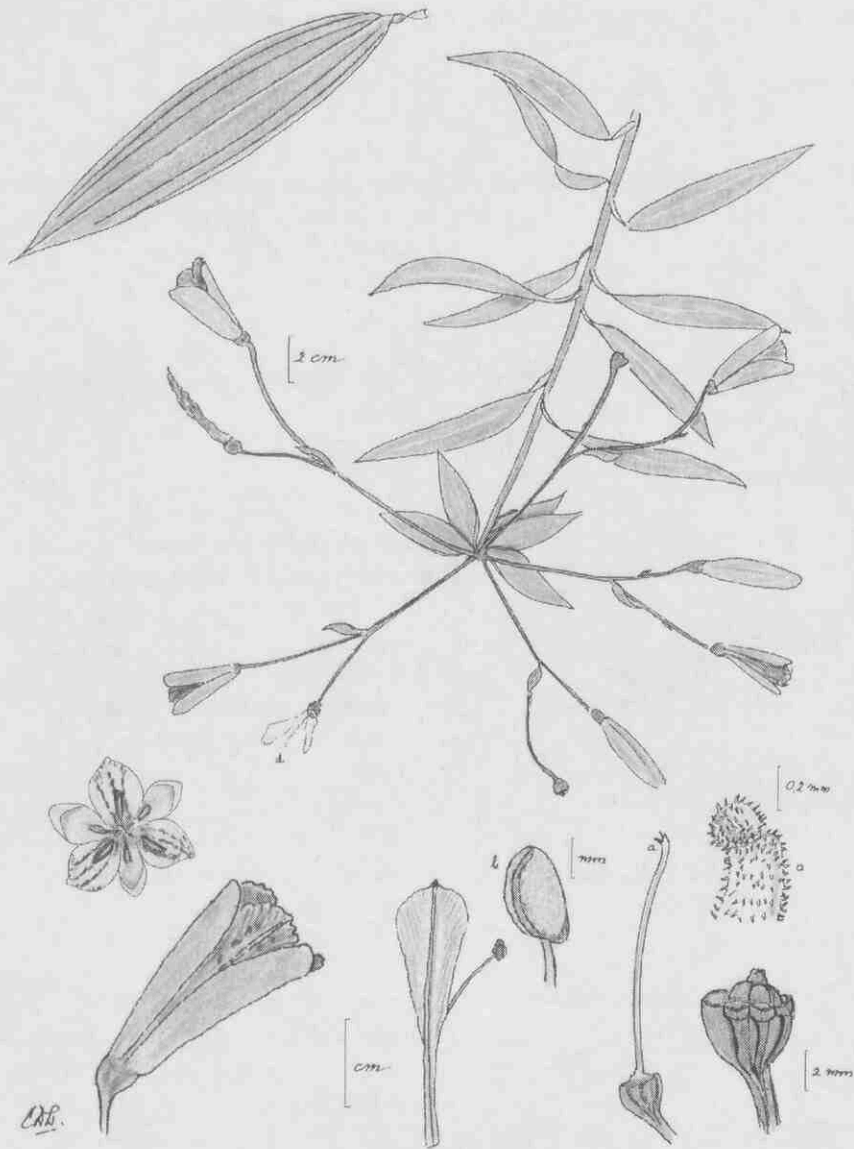
87. 2 W DE0U1990ZE00952 *Lythrum hyssopifolia* L. ; Germany: E.Germany , Kreiss Prensleu, Güstow.

Magnoliaceae

88. 2 G XX 0U1900ZG00099 *Liriodendron tulipifera* L.
89. 2 G XX 0U1965RD00047 *Magnolia tripetala* (L.) L.
90. 2 G XX 0U1900ZG01144 *Magnolia virginiana* L.

Malvaceae

91. 2 W DE0U1983ZE00353 *Malva neglecta* Wallr. ; Germany: E.Germany , Kreiss Oschersleben, Wulferstedt. 1982.
92. 2 G XX 0U1968GR01510 *Pavonia praemorsa* (L.f.) Willd.



Bomarea edulis (Tussac) Herb. (Liliaceae)

Myrsinaceae

93. 2 G XX 0U1974GR00008 *Ardisia solanacea* Roxb.

Myrtaceae

94. 2 W BR0U1981GR00017 *Psidium cattleianum* Sabine ; Brazil: Rio Grande do Sul , Campos. Coll.: Lindeman, J.C. . 02/1981.

Onagraceae

95. 2 G XX 0U1953ZE00879 *Clarkia purpurea* (Curtis) A.Nelson & J.F.Macbr.

Papaveraceae

96. 2 W SE0U1994ZE00639 *Papaver argemone* L. ; Sweden , Öland, Torslunda parish, Eriksöre, roadside.

Phytolaccaceae

97. 2 Z CA0U1991ZS00782 *Phytolacca americana* L. ; Canada, O.-Canada, no further details!

Pinaceae

98. 2 G XX 0U1900ZG00915 *Pseudolarix amabilis* (A.Nelson) Rehder.

Plumbaginaceae

99. 1 W PK0U1987BL00526 *Bukiniczia cabulica* (Boiss.) Linez.; Pakistan , Gilgit, Hunza, Batura Glacier, N. side. 2920 - 3000 m. Alt. Coll.: Swedish Exp.to Pakistan 18.

Portulacaceae

100. 2 W DE0U1994ZE00508 *Claytonia perfoliata* Donn ex Willd.;
Germany: W.Germany,
Nordrhein-Westfalen, MS/ Handorf,
Baumschulweg, Feld.

Primulaceae

101. 2 W US0U1983BL00281 *Dodecatheon pulchellum* subsp. *pulchellum*
(Raf.) Merr. ; United States: Oregon , N.W..
1982.
102. 2 W SE0U1990ZE00886 *Samolus valerandi* L. ; Sweden , Uppland,
Hållnäs parish.

Ranunculaceae

103. 2 G XX 0U1997BL00285 *Glaucidium palmatum* Sieb. & Zucc.

Rhamnaceae

104. 1 W KR0U1982RD00229 *Hovenia dulcis* Thunb. ; Korea, Republic of:
South Korea , Kangwondo, Mt.
Sorak-National Park. 1981.

Rosaceae

105. 2 W NL0U1994RD00736 *Rosa arvensis* Huds.; Netherlands: Limburg,
Epen, 'onderste bos'. Coll.: Leonieke Kruit.

Saxifragaceae

106. 1 W NL0U2000BL01370 *Parnassia palustris* L. ; Netherlands:
Noord-Holland , Island Texel (SW).. 0- 3 m.
Alt. Coll.: Gouda,E.J. s.n.. 08/2000.

Sciadopityaceae

107. 2 G XX 0U1900ZG01861 *Sciadopitys verticillata* (Thunb. ex Murray)
Siebold & Zucc.

Scrophulariaceae

108. 2 W ES0U1999BL00607 *Digitalis obscura* L. ; Spain , Sierra-Nevada.
1700 m. Alt.
109. 1 W US0U2001BL00590 *Mimulus cardinalis* Dougl. ; United States:
California , Lake Co., E of Mt. St.Helena, S
of Middletown, Hwy.29 at W Mine Rd., 4
km N of the Lake Co. line. 400 m. Alt.
Coll.: Raiche,R. (Berkeley, USA) 015.
09/09/1999.
110. 2 G XX 0U2001BL00445 *Penstemon hirsutus* (L.) Willd.
111. 2 G XX 0U1990BL00057 *Penstemon whippleanus* A.Gray.
112. 2 W JP0U1991ZS00771 *Veronicastrum sibiricum* (L.) Pennell;
Japan, Tokyo Pref., Sakamotoenchi,
Okutama Town..
113. 2 G XX 0U1966BL00018 *Wulfenia carinthiaca* Jacq.

Styracaceae

114. 2 G XX 0U1964RD00305 *Halesia carolina* L.
115. 2 G XX 0U1900ZG01006 *Styrax japonica* Siebold & Zucc.

Symplocaceae

116. 2 G XX 0U1900ZG00909 *Symplocos paniculata* (Thunb. ex Murray).
Miq. .

Taxaceae

117. 1 G XX 0U1972RD00060 *Torreya nucifera* var. *nucifera* (L.) Siebold
& Zucc.

Zingiberaceae

118. 2 G XX 0U1999GR00308 *Hedychium gardnerianum* Roscoe.



