



Index seminum

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Index Seminum

*Utrecht University
Botanic Gardens
The Netherlands*



Universiteit Utrecht

No. 48-2006

UNIVERSITEITSBIBLIOTHEEK UTRECHT



4216 3596

Utrecht University Botanic Gardens

P.O. Box 80.162
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The Netherlands

Index Seminum No. 48 - 2006

Internet Orders: <http://botgard.bio.uu.nl/collection/>
(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** (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>, and
http://www.bgci.org/files/2/795/pen_gardenList12_05.doc

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, 2007** 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).

Staff

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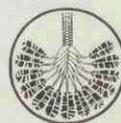
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Web Site: <http://www.bio.uu.nl/bottuinen/natuurbescherming/home.html>



Technical staff

Wiert Nieuman

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Hortulanus Utrecht

N.R. Stolwijk and W. Wildschut

Technical staff Doorn

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. 48-2006 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]
- selected woodland plants (*Arisaema*, *Asarum* & *Trillium*) [EG]
- *Penstemon* [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 analised 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

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

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 abbreviation 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 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.

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Aceraceae

1	2 G	xx0u-1900ZG00968	<i>Acer maximowiczianum</i> Miq.
2	2 G	xx0u-1900ZG00997	<i>Acer micranthum</i> Siebold & Zucc.
3	2 G	xx0u-1978RD00724	<i>Acer triflorum</i> Kom.

Agavaceae

4	2 G	xx0u-1973GR00695	<i>Phormium tenax</i> J.R. & G.Forst.
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Annonaceae

5	3 Z	us0u-1983GR00360	<i>Annona glabra</i> L. United States: Florida , Sebastian River, 3 Km. W. of Wabasso. Coll.: Stolze, R.G.
6	3 G	xx0u-1976GR00116	<i>Annona montana</i> Macfad.
7	3 G	bi0u-1983GR00169	<i>Annona muricata</i> L. Burundi , Bujumbura.

Apiaceae

8	2 G	xx0u-1969BL00242	<i>Olymposciadium caespitosum</i> (J.E.Sm.) Wolff
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Aquifoliaceae

9	2 G	xx0u-1961RD00653	<i>Ilex pedunculosa</i> var. <i>pedunculosa</i> Miq.
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Araceae

10	2 G	xx0u-1974GR00662	<i>Aglaonema commutatum</i> Schott var. <i>commutatum</i>
11	2 G	xx0u-1974GR00663	<i>Aglaonema commutatum</i> var. <i>elegans</i> (Engl.) Nicolson
12	3 Z	cn0u-1989BL00077	<i>Arisaema ciliatum</i> var. <i>liubaense</i> Gusman & Gouda China: Sichuan , Liuba Alt.: 3600 m. Coll.: Teune, C. 369 14/09/1981
13	2 Z	cn0u-2001BL00109	<i>Arisaema consanguineum</i> Schott China , San-ba. Coll.: A Exp.-'94 China (A.G.S.) 2036
14	2 G	xx0u-1984BL00036	<i>Arisaema flavum</i> subsp. <i>abbreviatum</i>
15	2 G	xx0u-1998BL00062	<i>Arisaema jacquemontii</i> Blume

Araceae (cont.)

- | | | | |
|----|-----|------------------|--|
| 16 | 2 Z | in0u-1997BL00004 | Arisaema tortuosum (Wall.) Schott India:
Uttar Pradesh , Kumaon area, NE Himalaya
Alt.: 1500 -2800 m. Coll.: Chadwell, Chris
et al. CC-1760 |
| 17 | 2 Z | us0u-1998BL00681 | Arisaema triphyllum (L.) Schott United
States: Masachusetts , Hadley |
| 18 | 2 G | xx0u-1973GR00134 | Culcasia striolata Engl. |

Aristolochiaceae

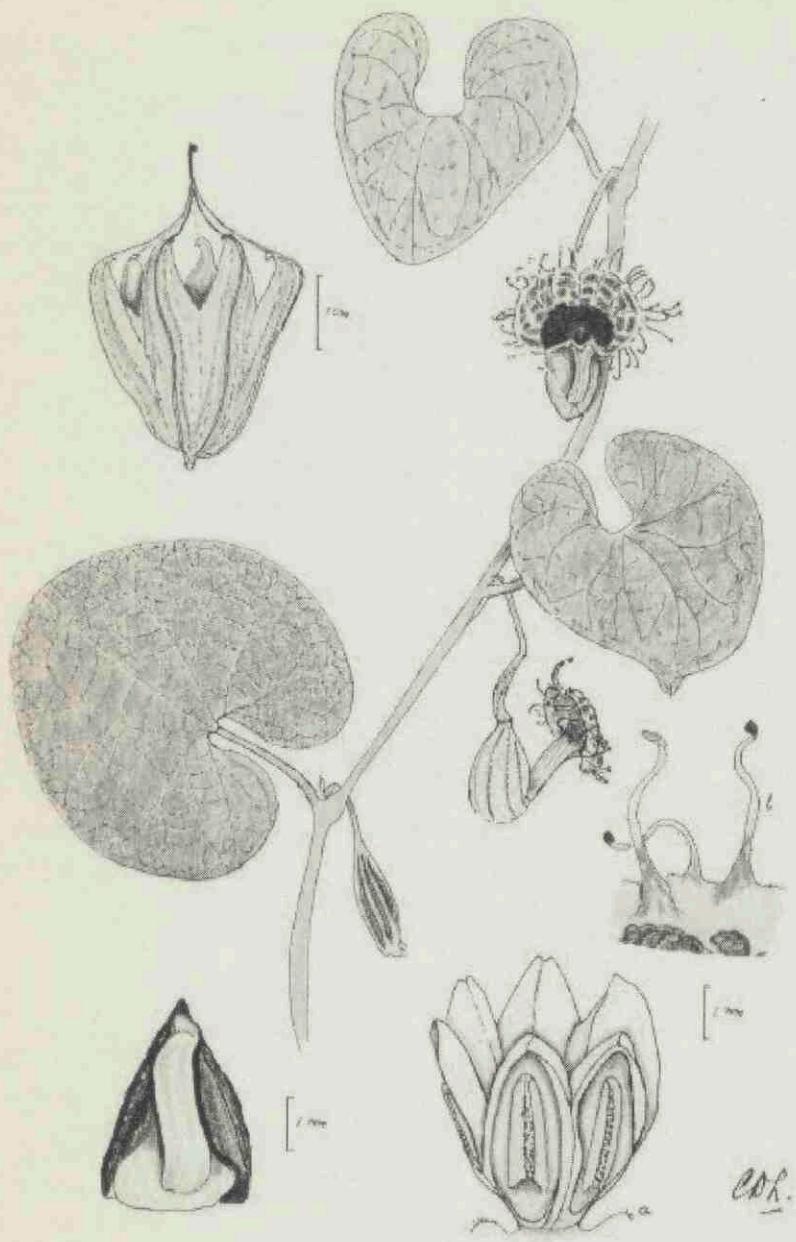
- | | | | |
|----|-----|------------------|--|
| 19 | 2 G | xx0u-1992GR01149 | Aristolochia fimbriata Cham. |
| 20 | 2 Z | sv0u-1992GR00988 | Aristolochia littoralis Parodi El Salvador ,
Acajutla. |
| 21 | 2 Z | gf0u-1992GR00904 | Aristolochia trilobata L. French Guiana ,
Saül. Coll.: Mori, S. 22351 |

Asclepiadaceae

- | | | | |
|----|-----|------------------|--------------------------|
| 22 | 2 G | xx0u-1994GR01740 | Araujia sericifera Brot. |
|----|-----|------------------|--------------------------|

Asteraceae

- | | | | |
|----|-----|------------------|---|
| 23 | 1 Z | ma0u-1999BL00914 | Andryala agardhii Haenseler ex DC.
Morocco , C Altas, road Midelt - Guercif,
Jbel Gaberaal; 1988. Alt.: 2200 m. |
| 24 | 2 Z | fr0u-1962BL00274 | Aster alpinus L. France , without locality. |
| 25 | 1 Z | ch0u-2002BL00283 | Aster amellus L. Switzerland , Kanton
Graubunden, Sagogn. Alt.: 750 m. |
| 26 | 2 Z | fr0u-2002BL00804 | Aster pyrenaeus Desf. ex DC. France,
Hautes-Pyrenees , Centre d'Ecologie,
Montagnarde, Gabas Coll.: Ern,H. 7249 |
| 27 | 1 Z | za0u-2005BL01021 | Berkheya purpurea Benth., Hook.f. & Mast.
South Africa , Drakensberge |
| 28 | 2 G | xx0u-2003BL00104 | Ericameria nauseosa (Pall. ex Pursh)
G.L.Nesom & G.I.Baird |
| 29 | 2 Z | it0u-2002BL01310 | Leontopodium alpinum subsp. alpinum
Cass. Italy: Dolomites , Canazei - Caprile,
Mnt. Marmolada. Alt.: 2000 m. Coll.:
Gouda,E.J. 2002-69 07/08/2002 |



Aristolochia fimbriata Cham. (Aristolochiaceae)

Asteraceae (cont.)

- 30 2 G xx0u-1992BL00809 Leontopodium alpinum subsp. nivale (Ten.) Tutin
31 2 G xx0u-1993BL00014 Parthenium integrifolium L.

Berberidaceae

- 32 1 Z us0u-2001BL00058 Diphylleia cymosa Michx. United States:
North Carolina , Haywood County, Pisgah
Nat. Forest, State Highway 215, shade. Alt.:
1000 m. 14/09/2000

Boraginaceae

- 33 2 Z it0u-2001BL00715 Onosma echooides L. Italy , Bosco di S.
Antonio, Majella (Aq). Alt.: 1500 m.

Brassicaceae

- 34 2 Z ch0u-1964BL00214 Alyssoides utriculata (L.) Medik.
Switzerland , near Martigny, during
excursion; 1958.
35 0 Z fr0u-2002BL00663 Biscutella laevigata L. France , Dept.
Hérault, Ferrieres-les Verrières sur la D1E -
Garrigue.
36 1 Z xx0u-1998BL00720 Pachyphragma macrophyllum (Hoffm.)
N.Busch Caucasus , NW. Caucasus.

Bromeliaceae

- 37 2 Z sr1u-1999GR00107 Aechmea aquilega (Salisb.) Griseb. var.
aquilega Suriname , Parimaribo (Suriname
Riv.). Coll.: Gouda,E.J. 99-41
38 3 Z xx0u-1997gr00626 Aechmea bromeliifolia var. albobracteata
Philcox
39 3 Z br0u-1997GR00639 Aechmea coelestis (K.Koch) E.Morren var.
coelestis Brazil , Rio de Janeiro,
Teresópolis. Coll.: Leme, E. 1922
40 0 Z br0u-2000GR00776 Aechmea lingulata (L.) Baker Brazil, Estdo.
Bahia. Coll.: Leme, E. s.n.

Bromeliaceae (cont.)

41	3 Z	br0u-1997GR00638	<i>Aechmea lingulata</i> (L.) Baker Brazil, Bahia, near Milagres. Coll.: Helmut & Lieselotte Hromadnik (Kritzendorf, Austria)
42	3 G	xx0u-1999GR00789	<i>Aechmea mexicana</i> Baker
43	2 Z	br0u-1996GR00653	<i>Aechmea nudicaulis</i> (L.) Griseb. var. <i>nudicaulis</i> Brazil , Bahia, Mun. Camaca, Estrada BR101, 2 km S Camaca, mata higrofila"" with Cacao. Epiphyt Coll.: Leuenberger et all. 3096 23/04/1983
44	3 G	xx0u-1997GR00056	<i>Aechmea strobilina</i> (Beurling) L.B.Sm. & read
45	3 Z	gf0u-2001GR01168	<i>Araeococcus flagellifolius</i> Harms French Guiana , Montagne de Kaw, ca PK 35 Coll.: Moonen, J.(FG) 290 2001
46	0 G	xx0y-1998GR01199	<i>Billbergia alfonsi-joannis</i> Reitz
47	3 G	xx0u-1997GR00493	<i>Billbergia brasiliensis</i> L.B.Sm.
48	0 Z	gf0u2005GR01542	<i>Billbergia violacea</i> Beer French Guiana , Coll.: Moonen, J.(FG) s.n.
49	3 Z	br0u-1996GR01181	<i>Billbergia zebrina</i> (Hernert) Lindl. Brazil: Rio de Janeiro , Rio de Janeiro City, Tijuca National Park Alt.: 500 m. Coll.: Leme, E. 128 05/1981
50	0 G	xx0u-1998GR00819	<i>Hohenbergia penduliflora</i> (A.Richard) Mez
51	3 Z	br0u-2000GR00771	<i>Pitcairnia flammea</i> var. <i>roezlii</i> (E.Morr.) L.B.Sm. Brazil: Guanabara , Rio de Janeiro City Coll.: Leme, E. s.n.
52	3 G	xx0u-2001GR00867	<i>Puya mirabilis</i> (Mez) L.B.Sm.
53	3 Z	xx0u-2005GR01565	<i>Racinaea spiculosa</i> (Griseb.) Spencer & L.B.Sm. var. <i>spiculosa</i> Kazula mountains
54	3 G	xx0u-2005GR01564	<i>Racinaea spiculosa</i> var. <i>ustulata</i> (Reitz) L.B.Sm.
55	3 Z	mx0u-2004GR01125	<i>Tillandsia heterophylla</i> E.Morren Mexico, without further locality (Tropiflora 1992)
56	3 G	xx0u-2004GR01126	<i>Tillandsia viridiflora</i> (Beer) Baker
57	3 G	xx0u-1999GR00775	<i>Ursulaea macvaughii</i> (L.B.Sm.) R.W.Read & H.U.Baensch
58	0 Z	hn1u-2005GR01420	<i>Werauhia gladioliflora</i> (Wendland) J.R.Grant Honduras , Coll.: Maas, P.J.M. et al. s.n.

Cactaceae

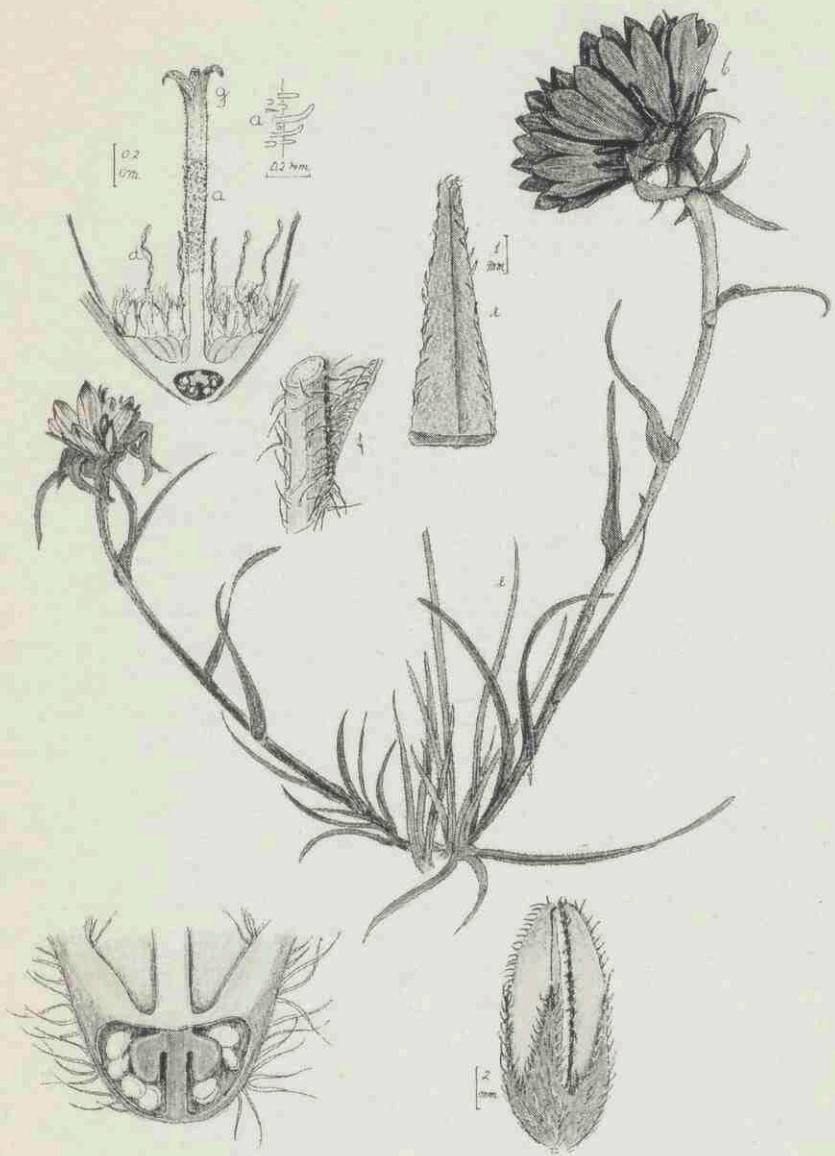
- | | | | |
|----|-----|------------------|---|
| 59 | 3 G | xx0u-1980GR00414 | Rhipsalis baccifera (J. Mill.) Stearn |
| 60 | 0 Z | ec0u-1996GR00807 | Rhipsalis micrantha (Kunth) DC. Ecuador ,
without details. |

Campanulaceae

- | | | | |
|----|-----|------------------|--|
| 61 | 2 Z | gr0u-2000BL01032 | Campanula incurva Aucher. ex A.DC.
Greece , Magnisia: Tsangarada. |
| 62 | 2 Z | pt0u-1995BL01040 | Campanula rapunculus L. Portugal ,
Coimbra (Baleia, 93-07-15). |
| 63 | 2 Z | kr0u-1998BL00925 | Campanula takesimana Nakai South Korea,
To-Dong, Ullung-Gun, Kyongsang Pukto.
Alt.: 150 m. |
| 64 | 1 Z | it0u-2004BL00944 | Campanula thrysoides L. Italy , Monte
Faverghera, Belluno (BL) Alt.: 1500 m. |
| 65 | 2 Z | de0u-1990BL00946 | Edraianthus graminifolius (L.) A.DC.
Germany: E.Germany , Kröchtendorff |
| 66 | 0 Z | pr1u-2005GR01163 | Lobelia portoricensis Urb. Puerto Rico ,
Coll.: Christenhusz, Maarten s.n. |
| 67 | 1 G | xx0u-2005BL00091 | Michauxia campanuloides L'Hér. ex Aiton |
| 68 | 2 G | xx0u-1999BL00256 | Phyteuma scheuchzeri All. |

Cannaceae

- | | | | |
|----|-----|------------------|---|
| 69 | 0 Z | jm1u-2005GR01154 | Canna coccinea Mill. Jamaica , Mandeville,
Marshall's Pen Coll.: Christenhusz, Maarten
s.n. |
| 70 | 3 Z | pe0u-1976GR00106 | Canna paniculata Ruiz & Pav. Peru, dept.
Huanuco, Puente Durand,herb. 5 m, fls.
red/orange; 76-03-22 Alt.: 1000 m. Coll.:
Plowman,T. & Kennedy,H. 5700 |
| 71 | 2 Z | ec0u-1980GR00287 | Canna tuerckheimii F.Kräenzl. 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 |



Edraianthus graminifolius (L.) A.DC. (*Campanulaceae*)

Capparaceae

- 72 0 Z gt0u-2006GR00839 Cleome serrata Jacq. Guatemala , Prov. Alta Verapaz, from Rocjá Pontilá along Rio Kixpur Alt.: 180 m.
- 73 2 G xx0u-1972GR00202 Steriphoma cinnabarinum Gilg. ex Briquet

Caprifoliaceae

- 74 2 G xx0u-1985RD00389 Heptacodium miconoides Rehder

Caricaceae

- 75 0 G xx0u-1990GR00584 Carica goudotiana (Tr. & Planch.) Solms-Laub.

Caryophyllaceae

- 76 2 Z at0u-1991BL01115 Dianthus arenarius subsp. borussicus Vierh. Austria , no other details available!
- 77 2 Z ro0u-1994BL00068 Dianthus serotinus Waldst. & Kit. Romania , Muntele Scarita- Belioara - Distr. Alba.
- 78 2 Z fr0u-1994BL01124 Dianthus subacaulis Vill. subsp. subacaulis France, Herault, Felines-Minervois
- 79 2 Z si0u-1998BL00808 Drypis spinosa L. Slovenia , Trnovski Gozd (Ternovaner Wald), Adovscina, Aufstieg von der Zavetisce Bavcerja Zum M.Gora. Alt.: 1000 -1200 m. Coll.: Steffan, F. 09/1997
- 80 2 G xx0u-1971BL00245 Saponaria caespitosa DC.
- 81 2 Z si0u-1994BL00089 Silene saxifraga L. Slovenia , Steiner Alpe, Grintovec, ascent from Ceska Koca to Grintovec Alt.: 1500 -2200 m. Coll.: Steffan, F. & Th. Ster 08/1992

Celastraceae

- 82 2 Z jp0u-1991RD00617 Euonymus alatus (Thunb. ex Murray)
Siebold var. alatus Japan , Gunma Pref.,
Tanbari-shitsugen, Minakami Town.
- 83 2 Z ca0u-1990RD00214 Euonymus atropurpureus Jacq. Canada:
Ontario , Essex Co., Malden Tp., roadside.
Alt.: 176 m.
- 84 2 Z se0u-1984RD00125 Euonymus europaeus L. Sweden , Ln.
Lenstad, Öland.
- 85 2 Z jp0u-1986RD00034 Euonymus macropterus Rupr. Japan:
Honshu , Yamanashi Prefecture, area around
Oshino-Mura village, near Mt. Fuji. Alt.: 95
-1000 m.
- 86 2 G xx0u-1979RD00118 Euonymus oxyphyllus Miq.

Clusiaceae

- 87 2 G xx0u-2005BL01002 Hypericum mitchellianum Rydb.

Costaceae

- 88 3 G xx0u-1979GR00023 Costus dubius (Afzel.) K.Schum.
- 89 3 Z pe0u-1984GR00286 Monocostus uniflorus (Poepp. ex
O.G.Peters.) Maas Peru , Dept. San Martin,
Road Tarapoto - Chasuta, km 28, on
calcareous rocks along the road, Alt.: 200 m.
Coll.: Maas, P.J.M. et al. 6017

Crassulaceae

- 90 3 Z ma0u-1992HR32295 Sedum dasypHYLLUM L. Morocco , Coll.: H.'t
Hart (also HTH) 50.107
- 91 3 Z tr0u-1993BL00010 Sedum obtusifolium C.A.Mey. Turkey ,
Prov. Bolu, 20 km S. of Gerede,, W. of the
road to Kizilcahaman. Alt.: 1350 m. Coll.:
Alpinar,K. & H.'t Hart 33

Ericaceae

- | | | | |
|----|-----|------------------|---|
| 92 | 2 G | xx0u-1900ZG00184 | Enkianthus cernuus var. rubens (Maxim.)
Makino |
| 93 | 2 G | xx0u-1900ZG00034 | Kalmia angustifolia L. |
| 94 | 2 G | xx0u-1900ZG01222 | Kalmia latifolia L. |
| 95 | 2 G | xx0u-1900ZG00097 | Rhododendron canadense (L.) Torr. |
| 96 | 2 G | xx0u-1900ZG01146 | Zenobia pulverulenta (W.Bartram ex Willd.)
Pollard |

Fabaceae

- | | | | |
|-----|-----|------------------|---|
| 97 | 2 Z | gr0u-1997BL00716 | Anthyllis hermanniae L. Greece: Kriti ,
Akrotiri Peninsula, Stavros, near the beach. |
| 98 | 1 Z | it0u-2003BL01367 | Dorycnium hirsutum (L.) Ser. Italy ,
Altopiano delle Manie (SV). Alt.: 300 m.
14/07/1999 |
| 99 | 1 Z | fr0u-1991BL00416 | Hippocrepis comosa L. France , Torpes,
talus de route, sol cacaire. Alt.: 250 m. |
| 100 | 0 G | xx0u-2002GR00521 | Kennedia rubicunda (Schneev.) Vent. |
| 101 | 2 Z | fr0u-1972ZE02110 | Lathyrus clymenum L. France: Pyrenees ,
East part, Roussillon, Corniche catalane:
Port-Vendres, Banyuls, Cerbère, on coastal
cliffs. |

Gentianaceae

- | | | | |
|-----|-----|------------------|--|
| 102 | 2 Z | us0u-1983BL00287 | Gentiana affinis Griseb. United States:
Oregon , no other details available! 1982 |
| 103 | 2 Z | at0u-1995BL00118 | Gentiana asclepiadea L. Austria , Tirol,
Steinberg near Achensee, Guffert, zw.
Stubachalm und der Strasse. Alt.: 1200 m.
05/10/1994 |

Geraniaceae

- | | | | |
|-----|-----|------------------|---|
| 104 | 2 Z | jp0u1987BL00423 | Geranium soboliferum Kom. Japan ,
Oshino-muro, near Mnt. Fuji Alt.: 95 -1000
m. |
| 105 | 0 Z | tr0u-1984BL00082 | Pelargonium endlicherianum Fenzl Turkey:
Turkey-in-Europe , SE Denizli, Kazikbeli,
Alt.: 1200 m. 1972 |

Gesneriaceae

106	2 G	xx0u-1965BL00453	Ramonda myconi (L.) Rchb.
107	2 Z	mk0u-1982BL00132	Ramonda nathaliae Pancic & Petrovic Macedonia , Titov Veles Alt.: 230 m. 1981
108	2 G	xx0u-2005BL00376	Rehmannia piasezkii Maxim.
109	0 G	xx0u-1986GR00050	Rhynchoglossum notonianum (Wall.) B.L.Burtt

Hydrangeaceae

110	2 U	xx0u-2000BL00755	Deinanthe bifida Maxim.
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Iridaceae

111	2 Z	us0u-1996BL00959	Iris hartwegii Baker United States: California , Humbold Co., N of Eureka, Prairie Creek Redwoods State Park, Fern Canyon. Alt.: 40 m.
112	2 Z	bg0u-1995BL00180	Iris sintenisii subsp. sintenisii Janka Bulgaria , Eastern Sredna Gora Mts Coll.: Sterz
113	2 Z	cs0u-1964BL00020	Iris spuria L. subsp. spuria Czechoslovakia , without details.
114	1 G	xx0u-2001BL00988	Iris tectorum Maxim.
115	2 G	xx0u-1991GR00557	x Pardancanda norrisii L.W.Lenz

Lamiaceae

116	1 G	xx0u-2001BL00442	Dracocephalum renati Emb.
117	2 Z	bg0u-2002BL01040	Micromeria dalmatica subsp. bulgarica (Velen.) Guinea Bulgaria , Western Rodopi. Alt.: 1250 m. 2002
118	2 Z	pk0u-2001BL00511	Nepeta clarkei Hook.f. Pakistan , NW Frontier Prov., Swat Divis., Ushu-valley. Alt.: 3200 m.
119	1 Z	fr0u-2004BL01518	Nepeta nepetella L. France , Lautaret Alt.: 1600 m.
120	1 Z	gr0u-2000BL01105	Nepeta sibthorpii Benth. Greece , Peloponnes, Nomos Arkadias, Mandinia, Kardara/ Mt.Menaloni. Alt.: 820 m.



x Pardancanda norrisii L.W. Lenz (Iridaceae)

Lamiaceae (cont.)

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|-----|-----|------------------|--|
| 121 | 1 G | xx0u-2003BL01044 | <i>Pycnanthemum pilosum</i> Nutt. |
| 122 | 2 Z | it0u-2006BL00414 | <i>Salvia forskaohlei</i> L. Italy: Prov. Trieste ,
C.O.B. Alt.: 80 m. 12/07/2004 |

Liliaceae

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|-----|-----|------------------|---|
| 123 | 2 G | xx0u-1974GR00709 | <i>Clivia miniata</i> Regel |
| 124 | 0 Z | ec0u-1991GR00305 | <i>Eucharis mastersii</i> Baker Ecuador , Chical |
| 125 | 0 G | xx0u-2006GR00839 | <i>Gloriosa verschuurii</i> Hoog |
| 126 | 1 G | xx0u-1998BL00254 | <i>Helonias bullata</i> L. |
| 127 | 1 Z | hr0u-1978BL00091 | <i>Lilium martagon</i> var. <i>cattaniae</i> Vis. Croatia ,
Brokovo 1962 |
| 128 | 2 Z | nl0u-1964BL00700 | <i>Narthecium ossifragum</i> (L.) Huds.
Netherlands: Prov. Drenthe , near Eelde |
| 129 | 2 G | xx0u-1968GR01546 | <i>Ophiopogon jaburan</i> (Siebold) Lodd. |
| 130 | 2 Z | pt0u-1968BL00134 | <i>Paradisea lusitanica</i> (Cout.) Samp. Portugal
no further details ! Coll.: Smidt,J.de 1269 |
| 131 | 2 G | xx0u-1965BL00228 | <i>Veratrum album</i> L. |
| 132 | 2 G | xx0u-1998BL00774 | <i>Veratrum maackii</i> var. <i>japonicum</i> Regel |
| 133 | 2 G | xx0u-1965BL00271 | <i>Veratrum nigrum</i> L. |
| 134 | 2 Z | cn0u-1997BL01048 | <i>Veratrum oxysepalum</i> Turcz. China,
S-Chekiang. |

Magnoliaceae

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|-----|-----|------------------|--|
| 135 | 2 G | xx0u-1900ZG00099 | <i>Liriodendron tulipifera</i> L. |
| 136 | 2 G | xx0u-1900ZG03460 | <i>Magnolia kobus</i> DC. var. <i>kobus</i> |
| 137 | 2 Z | kr0u-1985RD00188 | <i>Magnolia sieboldii</i> K.Koch South Korea ,
Suweon, Mt. Kwanak. 1984 |
| 138 | 2 G | xx0u-1965RD00047 | <i>Magnolia tripetala</i> (L.) L. |
| 139 | 2 G | xx0u-1900ZG01144 | <i>Magnolia virginiana</i> L. |

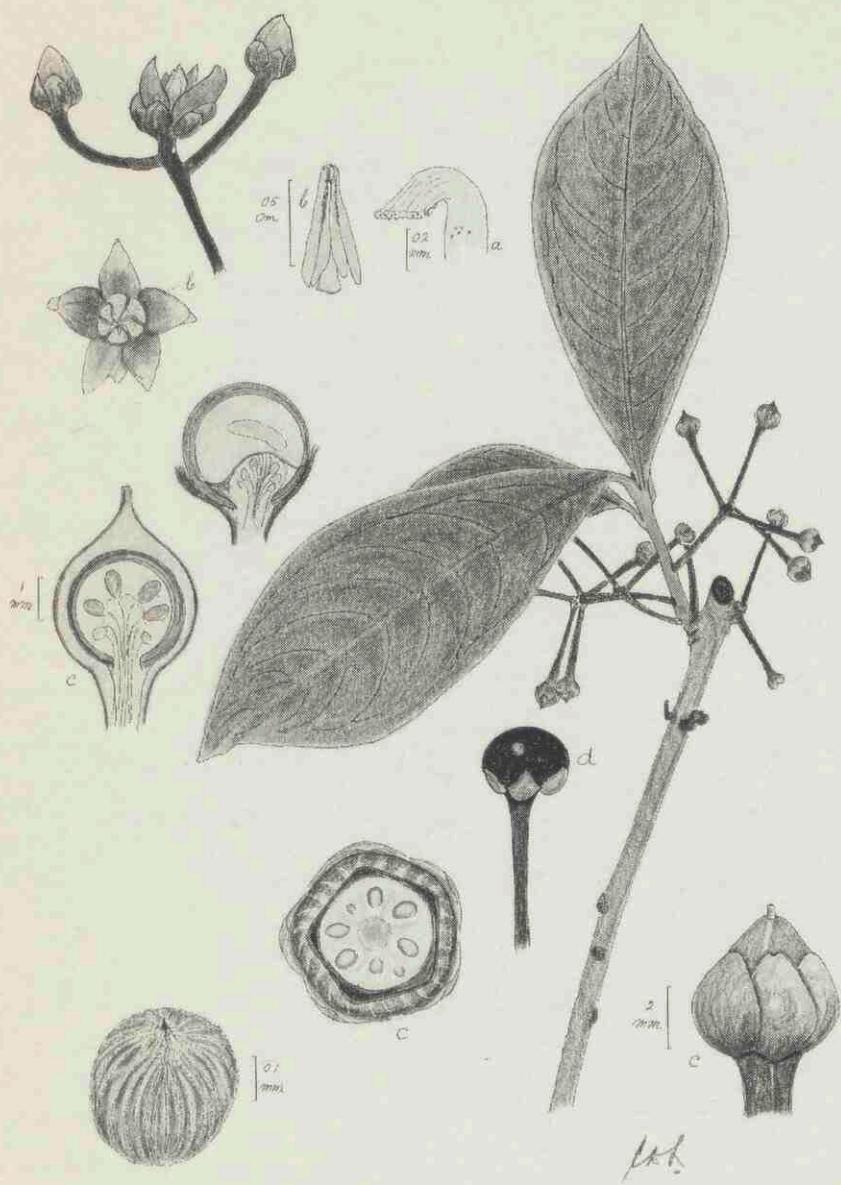
Menispermaceae

- | | | | |
|-----|-----|------------------|---|
| 140 | 2 Z | tw0u-1980GR00388 | <i>Cocculus trilobus</i> (Thunb.) DC. Taiwan,
approx. S top (Coast) Coll.: Kramer, K.U.
7928 1980 |
|-----|-----|------------------|---|

Mimosaceae

- | | | | |
|-----|-----|------------------|--|
| 141 | 2 Z | vi0u-1988GR00056 | <i>Leucaena leucocephala</i> (Lam.) de Wit
Virgin Islands (U.S.): St.Thomas Island, on
top of mountain near airlanding strip. 1967 |
|-----|-----|------------------|--|

			Musaceae
142	1 U	xx0u-1991GR01701	<i>Musa mannii</i> H.Wendl. ex Baker
			Myrsinaceae
143	2 G	xx0u-1974GR00008	<i>Ardisia solanacea</i> Roxb.
			Myrtaceae
144	2 Z	br01-1966GR01501	<i>Eugenia selloi</i> O.Berg Brazil , no further details ! Coll.: Lindeman,J.C. s.n. 1965
			Paeoniaceae
145	2 G	xx0u-1978BL00200	<i>Paeonia mascula</i> (L.) Mill. subsp. <i>mascula</i>
			Passifloraceae
146	0 Z	cr0u-2005GR01066	<i>Passiflora foetida</i> L. Costa Rica , Puntarenas, Savegre, <i>Tectona grandis</i> Plantage bei Cooperativa El Silencio
			Pinaceae
147	2 G	xx0u-1900ZG00915	<i>Pseudolarix amabilis</i> (A.Nelson) Rehder
			Plantaginaceae
148	2 Z	es0u-2004BL00064	<i>Plantago monosperma</i> Pourr. Spain: Prov. Gerona , Pyrenees, near Núria Alt.: 1400 m. Coll.: Gouda,E.J. 03-59 22/07/2003
149	2 Z	es0u-2004BL00059	<i>Plantago sempervirens</i> Crantz Spain , Sierra de Javelambre, near Torrijas Alt.: 1800 m. Coll.: Gouda,E.J. 03-54 22/07/2003
			Plumbaginaceae
150	2 G	xx0u-1964BL00364	<i>Acantholimon glumaceum</i> (Jaub. & Spach) Boiss.



Ardisia solanacea Roxb. (Myrsinaceae)

Plumbaginaceae (cont.)

- 151 2 Z fr0u-1977BL00177 *Armeria aliacea* (Cav.) Hoffmigg. & Link
France, Hautes Alpes, Serre Chevalier, (on sand). Alt.: 1550 m.
- 152 1 Z pk0u-1987BL00526 *Bukiniczia cabulica* (Boiss.) Lincz. Pakistan
Gilgit, Hunza, Batura Glacier, N. side Alt.:
2920 -3000 m. Coll.: Swedish Exp.to
Pakistan 18
- Poaceae
- 153 2 G xx0u-1968GR01530 *Setaria palmifolia* (J.G.Koenig) Stapf
- Polygonaceae
- 154 2 G xx0u-2003BL00559 *Eriogonum arborescens* Greene
- 155 1 Z jp0u-2002BL01354 *Polygonum filiforme* Thunb. Japan: Honshu
Tsukuba Medical Plants Research Station.
Alt.: 26 m.
- Ranunculaceae
- 156 2 Z fr0u-1995BL00209 *Aquilegia vulgaris* L. subsp. *vulgaris*
France, Basses-Pyrenees., Pic du Ger.
- 157 2 Z fr0u-1979BL00236 *Trollius europaeus* L. subsp. *europaeus*
France , (Hautes Pirenees) Gavarnie, on
humid meadow.
- 158 2 G xx0u-2001BL00225 *Trollius pumilus* D.Don.
- Rhamnaceae
- 159 2 Z kr0u-1983RD00218 *Rhamnella franguloides* (Maxim.) Weberb.
South Korea, Cholla-Namdo, Mt.
Paegyang, near White Sheet Temple
- Rosaceae
- 160 2 Z xx0u-2004BL00305 *Potentilla eriocarpa* Wall. ex Lehm.
Himalaya , NW. Himalaya Coll.: Chadwell,
Chris et al. 4627 2003
- 161 2 Z nl0u-1994RD00736 *Rosa arvensis* Huds. Netherlands: Prov.
Limburg , Epen, 'onderste bos' Coll.: Kruit,
Leonieke

Rubiaceae

- 162 0 G xx0u-1993GR00238 *Psychotria hirtella* Oliv.

Rutaceae

- 163 1 G xx0u-1980RD00287 *Zanthoxylum piperitum* DC.

Saxifragaceae

- 164 2 Z jp0u-1997BL00485 *Saxifraga cherleroides* var. *rebunshirensis* (Engl.& Irmsch.) Hara Japan , Hokkaido, Mt. Nishi-kumaneschiri-dake, Katoh-gun.
- 165 2 Z si0u-1994BL00098 *Saxifraga hostii* Tausch subsp. *hostii* Slovenia, Jalovec, ascent from Vrsic-Pass. Alt.: 1600 -1750 m.
- 166 1 G xx0u-1987BL00402 *Saxifraga mutata* L.

Sciadopityaceae

- 167 2 G xx0u-1900ZG01861 *Sciadopitys verticillata* (Thunb. ex Murray) Siebold & Zucc.

Scrophulariaceae

- 168 1 Z bo0u-2005GR00521 *Asarina erubescens* (D.Don) Pennell Bolivia: Prov. Santa Cruz , direction of Samaipata, near Ayacucho Coll.: Gouda, C.S. s.n.
- 169 1 Z us0u-2001BL00590 *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 Alt.: 400 m. Coll.: Raiche,R. (Berkeley, USA) 015 09/09/1999
- 170 2 Z us0u-1996BL00291 *Penstemon alpinus* Torr. United States: Colorado , Jefferson County. Alt.: 2300 m.
- 171 2 Z mx0u-2005BL00272 *Penstemon campanulatus* Willd. Mexico , just below the summit of Cerro Potosi Alt.: 3800 m.
- 172 2 Z us0u-1995BL01112 *Penstemon digitalis* Nutt. United States: Ingham county , roadbank above seep Alt.: 259 m.

Scrophulariaceae (cont.)

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|-----|-----|------------------|---|
| 173 | 2 G | xx0u-1969BL00346 | Penstemon pinifolius E.Greene |
| 174 | 2 Z | ca0u-1987BL00414 | Penstemon procerus Douglas ex R.Grahams.lat. Canada: Alberta , Foathills, 1986 |
| 175 | 2 Z | ro0u-2000BL01251 | Veronica bachsenii Heuff. Romania , NW Romania, Apuseni Mts., Podisul Padesului, valley of the Galbena r. near Poiana Florilor; 1995. |
| 176 | 2 Z | jp0u-1991ZS00771 | Veronicastrum sibiricum (L.) Pennell Japan Tokyo Pref. Sakamotoenchi, Okutama town |
| 177 | 2 G | xx0u-1966BL00018 | Wulfenia carinthiaca Jacq. |

Solanaceae

- | | | | |
|-----|-----|------------------|------------------------------------|
| 178 | 2 G | xx0u-1991GR01060 | Cyphomandra betacea (Cav.) Sendtn. |
|-----|-----|------------------|------------------------------------|

Sterculiaceae

- | | | | |
|-----|-----|------------------|--------------------------|
| 179 | 1 G | xx0u-1987GR00028 | Abroma augusta (L.) L.f. |
|-----|-----|------------------|--------------------------|

Styracaceae

- | | | | |
|-----|-----|------------------|---------------------------------|
| 180 | 2 G | xx0u-1964RD00305 | Halesia carolina L. |
| 181 | 2 G | xx0u-1900ZG01006 | Styrax japonica Siebold & Zucc. |

Symplocaceae

- | | | | |
|-----|-----|------------------|--|
| 182 | 2 G | xx0u-1900ZG00909 | Symplocos paniculata (Thunb. ex Murray) Miq. |
|-----|-----|------------------|--|

Taxaceae

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|-----|-----|------------------|---|
| 183 | 1 G | xx0u-1972RD00060 | Torreya nucifera var. nucifera (L.) Siebold & Zucc. |
|-----|-----|------------------|---|

Taxodiaceae

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|-----|-----|------------------|---------------------------------------|
| 184 | 2 G | xx0u-1900ZG01396 | Cunninghamia lanceolata (Lamb.) Hook. |
|-----|-----|------------------|---------------------------------------|

Valerianaceae

- | | | | |
|-----|-----|------------------|-------------------------|
| 185 | 2 G | xx0u-1966BL00455 | Patrinia gibbosa Maxim. |
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