



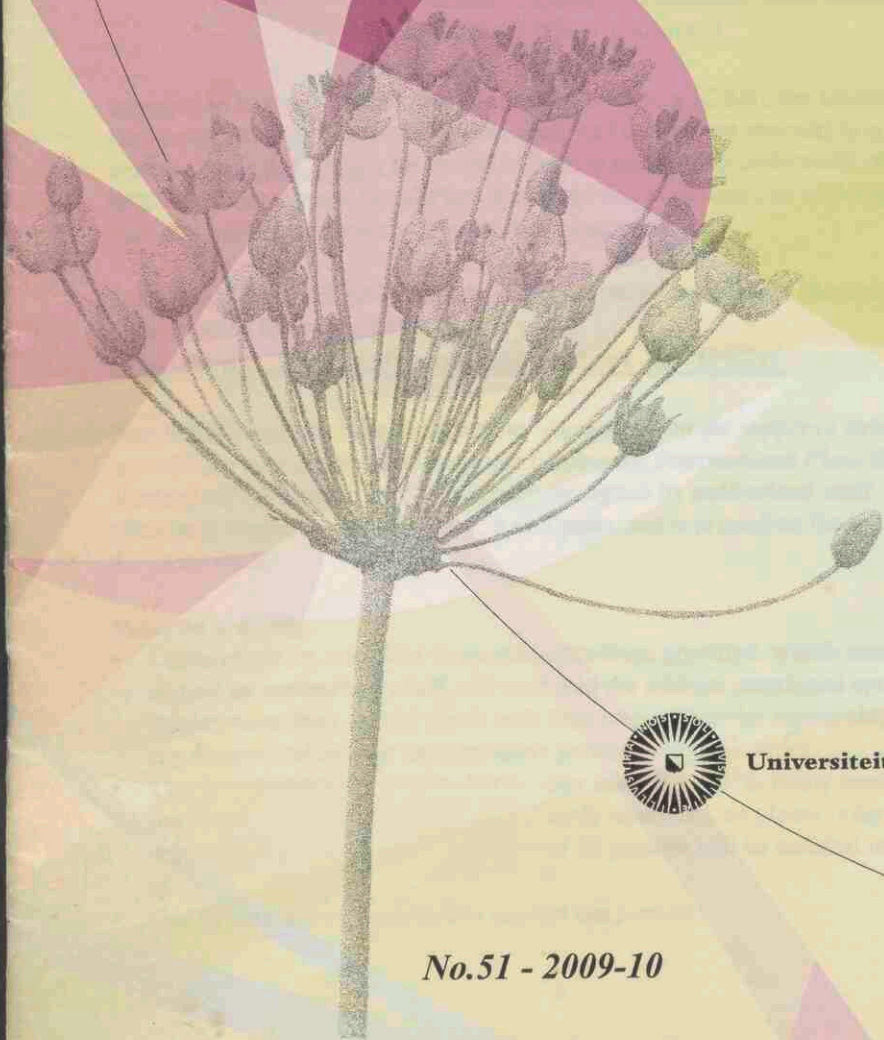
# Index seminarum

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Botanische Tuinen Utrecht [www.botanischetuinen.uu.nl](http://www.botanischetuinen.uu.nl)

# *Index Seminum*

*Utrecht University  
Botanic Gardens  
The Netherlands*



Universiteit Utrecht

*No.51 - 2009-10*

UNIVERSITEITSBIBLIOTHEEK UTRECHT



4216 3703

# *Utrecht University*

## *Botanic Gardens*

P.O. Box 80.162  
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The Netherlands

### *Index Seminum No. 51 - 2009-10*

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

For a list of current IPEN-members check the web-site of BGCI (Botanic Gardens Conservation International).

[http://www.bgci.org/resources/History\\_of\\_IPEN/](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, 2010**. 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.
- Our Fax no. is +31 30 2535177 (do not use e-mail).

## Staff

### General Department:

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Nico.R. Stolwijk and Wim Wildschut

### Gardens location

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

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

### 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. **51-2009-10** 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
- \* 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" 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 & 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 (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 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.

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

### Source of illustrations used:

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

Aceraceae

- 10 1. 2G *Acer maximowiczianum* Miq.  
[IPEN xx0u-1900ZG00968] \*2009
- 10 2. 2G *Acer micranthum* Siebold & Zucc.  
[IPEN xx0u-1978RD00987] \*2009
- 2 3. 2G *Acer tataricum* subsp. *ginnala* (Maxim.) Wesm.  
[IPEN xx0u-1900ZG00987] \*2009
- 8 4. 2G *Acer triflorum* Kom.  
[IPEN xx0u-1978RD00724] \*2009

Apiaceae

- 2 5. 2G *Astrantia trifida* G.F.Hoffm.  
[IPEN xx0u-1970BL00073] \*2009

Aquifoliaceae

- 8 6. 2G *Ilex pedunculosa* var. *pedunculosa* Miq.  
[IPEN xx0u-1961RD00653] \*2009

Araceae

- 19 7. 3W *Arisaema ciliatum* var. *liubaense* Gusman & Gouda  
[IPEN cn0u-1989BL00077] China: Sichuan , Liuba Alt.: 3600  
m. Coll.: Teune, C. 369 14/09/1981 \*2008
- 15 8. 2Z *Arisaema flavum* var. *flavum*  
[IPEN in0u-2000BL01126] India: Himachal Pradesh , Upper  
Kulu Valley (from Manali) Alt.: 2200 m. Coll.: Chadwell, C. et  
al. 92/853 \*2008

Aristolochiaceae

- 7 9. 2W *Aristolochia trilobata* L.  
[IPEN gf0u-1992GR00904] French Guiana , Saül. Coll.: Mori,  
S. 22351 \*2007
- 9 10. 2G *Saruma henryi* Oliv.  
[IPEN xx0u-1998ZS01035] \*2009

Asteraceae

- 7 11. 2W *Achillea odorata* L.  
[IPEN fr0u-1967BL00147] France , E.Pyrenees, Llo. Alt.:  
1400 m. \*2009
- 1 12. 2W *Antennaria dioica* var. *dioica*  
[IPEN at0u-1984BL00074] Austria , S.Tirol, Ahrntal, Kasern,  
Tal oberhalb Trinkstein, Alt.: 1850 m. \*2009
- 1 13. 2W *Aster alpinus* L.  
[IPEN fr0u-1962BL00274] France , without locality. \*2009
- 9 14. 2Z *Aster pyrenaicus* Desf. ex DC.  
[IPEN fr0u-2002BL00804] France, Dept. Haut Pyrenees ,  
Centre d'Ecologie, Montagnarde, Gabas Coll.: Ern,H. 7249  
\*2009
- 6 15. 1Z *Berkheya purpurea* Benth., Hook.f. & Mast.  
[IPEN za0u-2005BL01021] South Africa , Drakensberge  
\*2009
- 11 16. 2W *Leontopodium alpinum* subsp. *alpinum* Cass.  
[IPEN it0u-2002BL01271] Italy, Alps , Dolomites, Canazei -  
Arabba, Passo di Pordoi. Alt.: 2400 m. Coll.: Gouda, E.J.  
2002-32 04/08/2002 \*2009
- 1 17. 2W *Leontopodium alpinum* subsp. *alpinum* Cass.  
[IPEN de0u-1965BL00167] Germany , without locality. \*2009
- 11 18. 2G *Raoulia subsericea* J.D.Hook.  
[IPEN xx0u-1978BL00425] \*2008
- 1 19. 2W *Solidago virgaurea* subsp. *virgaurea*  
[IPEN fi0u-1990BL00036] Finland , Koillismaa Taivalkoski,  
Hanhela; coll.: 88-08-27 \*2009
- 13 20. 2Z *Townsendia incana* Nutt.  
[IPEN us0wurz-02-47-K-10] United States: Utah, Emery Co. ,  
San Rafael Swell Alt.: 2080 m. \*2009

Berberidaceae

- 16 21. 1W *Diphylleia cymosa* Michx.  
[IPEN us0u-2001BL00058] United States: North Carolina ,  
Haywood County, Pisgah Nat. Forest, State Highway 215,  
shade. Alt.: 1000 m. 14/09/2000 \*2009
- 13 22. 2G *Jeffersonia diphylla* (L.) Pers.  
[IPEN xx0u-2000BL00886] \*2009

## Betulaceae

- 11 23. 2W *Betula lenta* subsp. *lenta*  
 [IPEN ca0u-1986RD00002] Canada: Ontario , Niagara Reg.,  
 Louth Tp., only verified population in Canada, steep slope  
 above Lake Ontario; 1985. Alt.: 88 m. \*2007

## Brassicaceae

- 9 24. 2W *Cardamine kitaibelii* Bech.  
 [IPEN at0u-1998BL00976] Austria , Coll.: Zetterlund, H.  
 (Göteborg) 90 \*2009
- 3 25. 1W *Hesperis matronalis* L.  
 [IPEN at0u-2008BL00147] Austria: Salzburg(erland) , Puch  
 bei Hallein, Schloss Urstein S 200 m Alt.: 440 m. Coll.: Johann  
 Peter Gruber 06/2007 \*2009
- 7 26. 1W *Pachyphragma macrophyllum* (Hoffm.) N.Busch  
 [IPEN xx0u-1998BL00720] Caucasus , NW. \*2007

## Bromeliaceae

- 3 27. 3Z *Aechmea aquilega* (Salisb.) Griseb.  
 [IPEN xx0u-1998GR00809] Dominican Republic , \*2009
- 5 28. 2W *Aechmea aquilega* var. *aquilega*  
 [IPEN sr1u-1999GR00107] Suriname , Parimaribo (Suriname  
 Riv.). Coll.: Gouda, E.J. 99-41 1999 \*2009
- 5 29. 3Z *Aechmea bromeliifolia* var. *albobracteata* Philcox  
 [IPEN xx0u-1997GR00626] \*2009
- 7 30. 3Z *Aechmea caudata* cf. *f. albiflora* W. Weber & Röth  
 [IPEN br0u-2004GR00485] Brazil , Coll.: Kuzma \*2009
- 5 31. 3W *Aechmea coelestis* var. *coelestis*  
 [IPEN br0u-1997GR00639] Brazil , Rio de Janeiro,  
 Teresopolis. Coll.: Leme, E. 1922 \*2008
- 6 32. 3W *Aechmea distichantha* var. *schlumbergeri*  
 [IPEN ar0u-2005GR01554] Argentina , \*2009
- 5 33. 3G *Aechmea fraseri* Baker  
 [IPEN xx0u-2006GR01609] \*2008
- 4 34. 3G *Aechmea mexicana* Baker  
 [IPEN xx0u-1999GR00789] \*2009
- 7 35. 3W *Aechmea nudicaulis* var. *nudicaulis*  
 [IPEN ve0u-2005GR01419] Venezuela , N. Venezuela Coll.:  
 Peter Bak s..n. 2003 \*2009



Bromeliaceae (cont.)

- 5 36. 2Z *Aechmea nudicaulis* var. *nudicaulis*  
 [IPEN br0u-1996GR00653] Brazil: Bahia , Mun. Camaca,  
 Estrada BR101, 2 km S Camaca, "mata higrofila" with Cacao.  
 Epiphyt Coll.: Leuenberger et all. 3096 23/04/1983 \*2009
- 1 37. 3Z *Aechmea nudicaulis* var. *nudicaulis*  
 [IPEN ve0u-2005GR00895] Venezuela , \*2009
- 10 38. 3G *Aechmea strobilina* (Beurling) L.B.Sm. & Read  
 [IPEN xx0u-1997GR00056] \*2009
- 3 39. 3G *Billbergia brasiliensis* L.B.Sm.  
 [IPEN xx0u-1997GR00500] \*2009
- 7 40. 3G *Billbergia pallidiflora* Liebm.  
 [IPEN xx0u-1999GR00805] \*2009
- 6 41. 3W *Billbergia zebrina* (Hernert) Lindl.  
 [IPEN br0u-1996GR01181] Brazil: Rio de Janeiro , Rio de  
 Janeiro City, Tijuca National Park Alt.: 500 m. Coll.: Leme, E.  
 128 05/1981 \*2009
- 13 42. 3W *Dyckia ferox* Mez  
 [IPEN py0u-1997GR00647] Paraguay , Dept. Cordillera, hills  
 W of Tobati Alt.: 450 m. Coll.: Till, W. 6050 09/02/1991  
 \*2009
- 3 43. 2G *Dyckia velascana* Mez  
 [IPEN xx0u-1990GR00444] \*2009
- 15 44. 3W *Edmundoa lindenii* var. *rosea* (E.Morren) Leme  
 [IPEN br0u-2000GR00727] Brazil: Santa Catarina ,  
 Municipality of Florianopolis, from Ilha de Santa Catarina.  
 Backup \*2009
- 45. 3G *Fosterella penduliflora* (C.H.Wright) L.B.Sm.  
 [IPEN xx0u-2007GR01025] \*2009
- 6 46. 3G *Fosterella rojasii* (L.B.Sm.) L.B.Sm.  
 [IPEN xx0u-2007GR01026] \*2009
- 4 47. 3Z *Fosterella rusbyi* (Mez) L.B.Sm.  
 [IPEN bo0u-2000GR01112] Bolivia , La Paz, Puente de  
 Coripata Alt.: 1150 m. \*2009
- 10 48. 3Z *Guzmania fusispica* Mez & Sodiro  
 [IPEN ec0u-2004GR01099] Ecuador , Hacienda Selva negra,  
 road to Quito Coll.: Rauh, W. 34472 \*2009
- 3 49. 3G *Guzmania monostachia* var. *alba* Ariza-Julia  
 [IPEN xx0frp-17793] \*2009
- 6 50. 2G *Guzmania wittmackii* (André) André ex Mez  
 [IPEN xx0u-1996GR01170] \*2009

Bromeliaceae (cont.)

- 13 51. 3W *Hechtia carlsoniae* Burt-Utley & J.F.Utley  
[IPEN mx0u-1996GR00536] Mexico , Guerrero, near Iguala  
(type locality). \*2009
- 8 52. 2G *Orthophytum sanctum* L.B.Sm.  
[IPEN xx0u-1992GR01144] \*2009
- 8 53. 3W *Pitcairnia altensteinii* (Link, Klotzsch & Otto) Lem.  
[IPEN ve0u-2006GR01032] Venezuela , N.-Venezuela,  
rancher station National Park Henri Pittier near Aragua and  
Carabobo \*2009
- 6 54. 3W *Pitcairnia aureobrunnea* Rauh  
[IPEN ec1u-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 \*2009
- 6 55. 3W *Pitcairnia caricifolia* Mart.ex Schult.f.  
[IPEN ve0u-2005GR01552] Venezuela , Ilu (weide) Tepui  
\*2009
- 2 56. 3G *Pitcairnia echinata* Hook.f.  
[IPEN xx0u-2004GR00680] \*2009
- 5 57. 3Z *Pitcairnia flammea* var. *glabrior* L.B.Sm.  
[IPEN br0u-2001GR00086] Brazil , Teresopolis \*2007
- 6 58. 3W *Pitcairnia flammea* var. *roezlii* (E.Morr.) L.B.Sm.  
[IPEN br0u-2000GR00771] Brazil: Guanabara , Rio de Janeiro  
City Coll.: Leme, E. s.n. \*2008
- 6 59. 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 \*2009
- 3 60. 3Z *Pitcairnia heterophylla* (Lindl.) Beer  
[IPEN ec0u-2001GR00065] Ecuador: Prov. Esmeraldas. ,  
Lita-San Lorenzo \*2008
- 10 61. 3Z *Pitcairnia hitchcockiana* L.B.Sm.  
[IPEN ec0u-2006GR01008] Ecuador , Mera Alt.: 1300 m.  
Coll.: Fläschendräger, A. s.n. 20/04/1995 \*2009
- 3 62. 3Z *Pitcairnia imbricata* (Brongn.) Regel  
[IPEN gt0u-2005GR00894] Guatemala , 20 km from  
Guatemala City towards el Rancho Alt.: 800 m. Coll.:  
Radtke/Moldenhauer 183 \*2009
- 6 63. 3W *Pitcairnia integrifolia* Ker Gawl.  
[IPEN tt1u-1993GR00746] Trinidad and Tobago: Trinidad,  
Mt. Benedict, on sandy slope. Alt.: 250 m. Coll.: Maas, P.J.M.  
et al. 8141 \*2009



Bromeliaceae (cont.)

- 9 64. 3Z *Pitcairnia longissimiflora* Ibisch, R.Vasquez & E.Gross  
 [IPEN bo0b-2890200] Bolivia: Dept Cochabamba , Prov.  
 Chapaie, Parque Nacional Carrusco Alt.: 300 m. Coll.:  
 T.Kromer 8664 \*2009
- 5 65. 3W *Pitcairnia paniculata* (Ruiz & Pav.) Ruiz & Pav.  
 [IPEN xx0u-2005GR01560] Peru , Tarapoto - Moyobamba  
 Alt.: 700 m. Coll.: Peter Bak s.n. 09/2003 \*2009
- 3 66. 3W *Pitcairnia villetaensis* Rauh  
 [IPEN co0u-2000GR00646] Colombia , Bogota - Villeta Alt.:  
 900 m. Coll.: Rauh, W. 37089 \*2009
- 1 67. 3G *Pitcairnia xanthocalyx* Mart.  
 [IPEN xx0u-1997GR00501] \*2009
- 6 68. 3W *Puya floccosa* (Linden) E.Morren  
 [IPEN ve0u-2008GR01403] \*2009
- 2 69. 3G *Puya mirabilis* (Mez) L.B.Sm.  
 [IPEN xx0u-2001GR00867] \*2009
- 16 70. 2W *Quesnelia quesneliana* (Brongn.) L.B.Sm.  
 [IPEN br0u-1998GR01185] Brazil, Estado Rio de Janeiro,  
 Mun. Petropolis, along the BR-040 from Rio de Janeiro to  
 Petropolis, about 10 km SW of Petropolis, epiphytic; 22 Feb  
 1989. Alt.: 20 m. Coll.: Till, W. 4095 \*2009
- 11 71. 3Z *Racinaea insularis* (Mez) M.A.Spencer & L.B.Sm.  
 [IPEN ec0u-2000GR00640] Ecuador: Galápagos , Coll.: Rauh,  
 W. 34230 1979 \*2009
- 6 72. 3W *Tillandsia caliginosa* W.Till  
 [IPEN ar0u-1997GR00635] Argentina, without details; 1986  
 Leuenb. \*2009
- 6 73. 3W *Tillandsia caliginosa* W.Till  
 [IPEN bo0u-1998GR01073] Bolivia, near Cochabamba or  
 Sucre?; nov.1989. Coll.: Gouda, C.S. s.n. \*2009
- 8 74. 3W *Tillandsia capillaris* Ruiz & Pav.  
 [IPEN bo0u-1996GR01251] Bolivia: Prov. Tarija , S Tarija.  
 Alt.: 2000 m. Coll.: Gouda, C.S. 96-35 11/1996 \*2009
- 5 75. 3W *Tillandsia capillaris* Ruiz & Pav.  
 [IPEN bo0u-1996GR00012] Bolivia: Prov. Santa Cruz , road  
 from Samaipata to Comarapa km 351, 70 km from Samaipata.  
 Coll.: Gouda, E.J. 95-52 12/1995 \*2008

Bromeliaceae (cont.)

- 10 76. 3W *Tillandsia complanata* Bentham  
[IPEN ve0u-2000GR00757] Venezuela, Merida. Alt.: 2300 m.  
Coll.: Frank Hase (Bochum, Germany) s.n. \*2009
- 14 77. 3W *Tillandsia extensa* Mez  
[IPEN pe1heid-130109] Peru , Cochabamba, on the ground  
Alt.: 3400 m. Coll.: Rauh, W. 20559 27/08/1967 \*2009
- 9 78. 3W *Tillandsia extensa* Mez  
[IPEN pe1heid-130095] Peru , Valley de Rio Sauce, Puente  
Popoyan Alt.: 500 m. Coll.: Rauh, W. 20242 07/1967 \*2009
- 15 79. 3G *Tillandsia oerstediana* L.B.Sm.  
[IPEN xx0u-2005GR01563] \*2009
- 8 80. 3W *Tillandsia polystachia* (L.) L.  
[IPEN gt0u-1998GR00904] Guatemala , Zacatepequez, valley  
of Antigua Alt.: 800 m. 1992 \*2009
- 4 81. 3W *Tillandsia polystachia* (L.) L.  
[IPEN mq0u-2006GR01059] Martinique , \*2008
- 4 82. 3Z *Tillandsia schiedeana* Steud.  
[IPEN mx0u-1996GR01215] Mexico, without locality. \*2009
- 3 83. 2W *Tillandsia schiedeana* Steud.  
[IPEN hn0u-1994GR02192] Honduras , without locality.  
\*2008
- 7 84. 3G *Tillandsia viridiflora* (Beer) Baker  
[IPEN xx0u-2004GR01126] \*2009
- 0 85. 3G *Ursulaea macvaughii* (L.B.Sm.) R.W.Read & H.U.Baensch  
[IPEN xx0u-1999GR00775] \*2007
- 7 86. 3G *Vriesea saundersii* (Carr.) E.Morr. ex Mez  
[IPEN xx0u-2006GR01612] \*2009
- 14 87. 3W *Werauhia notata* (L.B.Sm. & Pittendrigh) J.R.Grant  
[IPEN cr0u-2006GR01558] Costa Rica , Coll.: Gouda, E.J.  
06-25 05/08/2006 \*2009

Campanulaceae

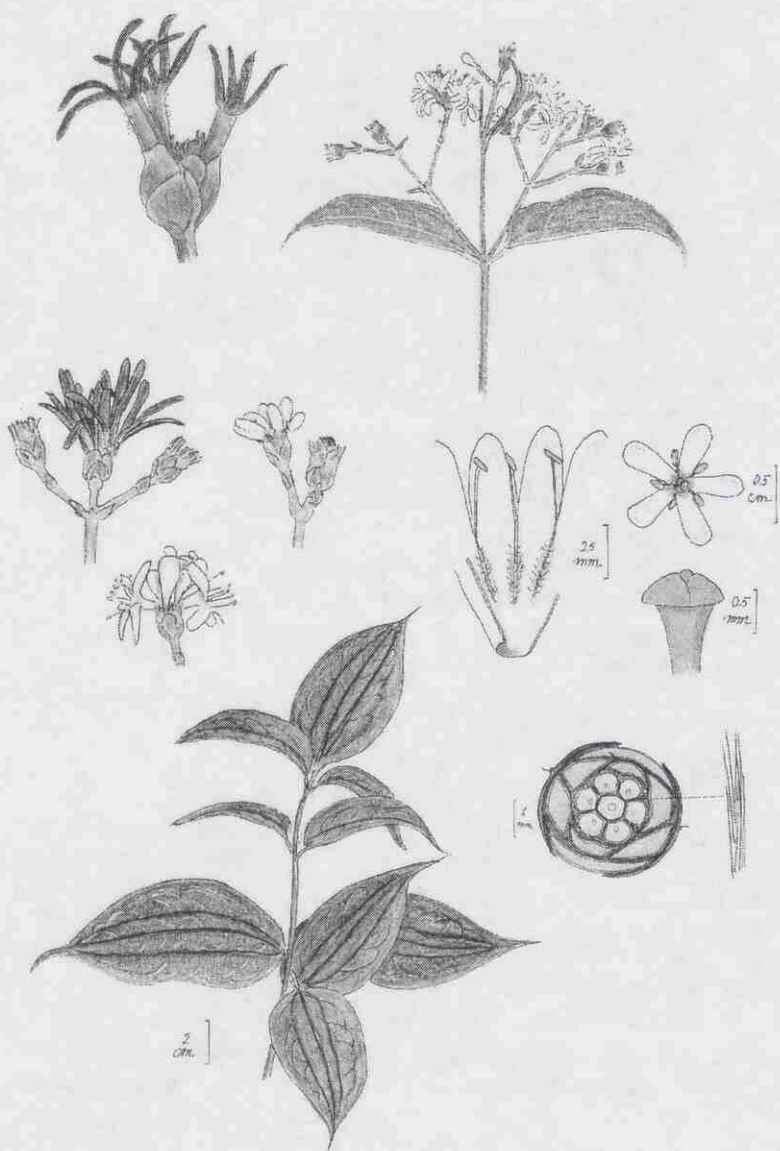
- 4 88. 2W *Campanula barbata* L.  
[IPEN it0u-2008BL00377] Italy , Timelsjoch pass on border  
with Austria Alt.: 2150 m. Coll.: Gouda, E.J. 07-13 11/08/2007  
\*2009

Campanulaceae (cont.)

- 15 89. 2W *Campanula incurva* Aucher. ex A.DC.  
[IPEN gr0u-2000BL01032] Greece , Magnisia: Tsangarada.  
\*2007
- 7 90. 2Z *Campanula primulifolia* Brot.  
[IPEN pt0u-1997BL00455] Portugal , Algarve, Serra de  
Monchique, Perna de Negra; 94-08-00 \*2009
- 6 91. 2Z *Campanula sibirica* L.  
[IPEN ru0bern-2001/228] Armenia , Caucasus \*2009
- 10 92. 2W *Campanula takesimana* Nakai  
[IPEN kr0u-1992BL01300] South Korea , Ullung Isl.,  
Chonbu-ri \*2009
- 6 93. 2W *Campanula takesimana* Nakai  
[IPEN kr0u-1998BL00925] South Korea , To-Dong,  
Ullung-Gun, Kyongsang Pukto. Alt.: 150 m. \*2009
- 8 94. 1W *Campanula thyrsoidea* L.  
[IPEN it0u-2004BL00944] Italy , Monte Faverghera, Belluno  
(BL) Alt.: 1500 m. \*2007
- 1 95. 1G *Campanula thyrsoidea* L.  
[IPEN xx0ramb-206925] \*2009
- 15 96. 1W *Campanula versicolor* Andr.  
[IPEN gr0u-2007BL01006] Greece: Peloponesos , Mt Menalo,  
Alt.: 1600 m. Coll.: Marijn vd Brink en KeesJan van Zwiene  
s.n. 2006 \*2009
- 3 97. 2G *Edraianthus tenuifolius* (Waldst. & Kit.) A.DC.  
[IPEN xx0u-1998BL01370] \*2009
- 8 98. 1W *Lobelia cardinalis* L.  
[IPEN us0u-2006ZE01427] United States: New Jersey , Sussex  
Co. Sparta Turnpike, Sparta Mountain 20/09/2005 \*2008
- 5 99. 1W *Lobelia siphilitica* L.  
[IPEN us0u-2006BL00742] United States: Michigan, Clinton  
county , S Shrub-Carr, Rose Lake Fen 2-track Alt.: 256 m.  
\*2009
- 3 100. 2G *Phyteuma scheuchzeri* All.  
[IPEN xx0u-1999BL00256] \*2009

Caprifoliaceae

- 7 — 101. 2G *Heptacodium miconioides* Rehder  
[IPEN xx0u-1985RD00389] \*2009



*Heptacodium miconioides* Rehder (Caprifoliaceae)



Caryophyllaceae

- 4 102. 2W *Dianthus plumarius* L.  
[IPEN sk0u-1977BL00186] Slovakia, Montes Malá  
Fatra-Slovacia Septentrionalis, Alt.: 600 -1700 m. \*2009
- 4 103. 1W *Dianthus superbus* subsp. *superbus*  
[IPEN at0u-2008BL00148] Austria: Salzburg(erland) , Grödig,  
Fürstenbrunn E, Glaneigg casle NW Alt.: 435 m. Coll.: Günter  
08/2007 \*2009
- 10 104. 2W *Drypis spinosa* L.  
[IPEN sl0u-1998BL00808] Slovenia , Trnovski Gozd  
(Ternovaner Wald), Adovscina, Aufstieg von der Zavetisce  
Bavcerja Zum M.Gora. Alt.: 1000 -1200 m. Coll.: Steffan, F.  
09/1997 \*2007
- 1 105. 1W *Gypsophila repens* L.  
[IPEN it0u-2002BL01316] Italy, Alps , Dolomites, Canazei -  
Caprile, Mnt. Marmolada. Alt.: 1650 m. Coll.: Gouda, E.J.  
2002-75 09/08/2002 \*2009
- 1 106. 2W *Gypsophila repens* L.  
[IPEN it0u-2002BL01308] Italy, Alps , Dolomites, Canazei -  
Caprile, Mnt. Marmolada. Alt.: 1850 m. Coll.: Gouda, E.J.  
2002-67 07/08/2002 \*2009
- 2 107. 1W *Lychnis flos-jovis* (L.) Desr.  
[IPEN it0u-2007BL00773] Italy , Epinel, Lessert Alt.: 1300 m.  
\*2008
- 2 108. 2W *Silene saxifraga* L.  
[IPEN si0u-1994BL00089] Slovenia , Steiner Alpe, Grintovec,  
ascent from Ceska Koca to Grintovec Alt.: 1500 -2200 m.  
Coll.: Steffan, F. & Th. Ster 08/1992 \*2009

Celastraceae

- 4 109. 2W *Euonymus alatus* var. *alatus*  
[IPEN jp0u-1991RD00617] Japan , Gunma Pref.,  
Tanbari-shitsugen, Minakami Town. \*2009
- 5 110. 3W *Euonymus atropurpureus* Jacq.  
[IPEN us0u-1980RD00469] United States: Kentucky , Union  
County. Coll.: Shacklette, H.T. 1979 \*2009
- 7 111. 2G *Euonymus cornutus* var. *quincuecornutus* (Comber) Blakelock  
[IPEN xx0u-2003RD01696] \*2009
- 3 112. 3G *Euonymus hamiltonianus* var. *sieboldianus* (Blume) Kom.  
[IPEN xx0u-1978RD00258] \*2009

Celastraceae (cont.)

- 13 113. 2W *Euonymus macropterus* Rupr.  
[IPEN jp0u-1986RD00034] Japan: Honshu , Yamanashi  
Prefecture, area around Oshino-Mura village, near Mt. Fuji.  
Alt.: 95 -1000 m. \*2009
- 6 114. 2W *Euonymus oxyphyllus* Miq.  
[IPEN jp0u-1986RD00213] Japan: Honshu , Kuriyama Mura,  
Fukushima Prefecture, roadside verge, Alt.: 500 m. \*2009
- 7 115. 2G *Euonymus sachalinensis* (F.Schmidt) Maxim.  
[IPEN xx0u-1991RD01554] \*2009

Crassulaceae

- 11 116. 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 \*2009
- 9 117. 3W *Sedum obtusifolium* C.A.Mey.  
[IPEN tr0u-1993BL00010] Turkey , Prov. Bolu, 20 km S. of  
Gerede,, W. of the road to Kizilcahaman. Alt.: 1350 m. Coll.:  
Alpinar, K. & H.'t Hart 33 \*2009
- 4 118. 2W *Sempervivum tectorum* subsp. *alpinum* (Griseb. & Sch.) Wettst.  
[IPEN xx0u-1962BL00246] \*2009
- 14 119. 2W *Sempervivum zeleborei* Schott  
[IPEN bg0u-1978BL00340] Bulgaria , Rila Mts. \*2009

Cyclanthaceae

- 4 120. 2G *Carludovica palmata* Ruiz & Pav.  
[IPEN xx0u-1968GR00859] \*2009

Dipsacaceae

- 4 121. 2W *Scabiosa cinerea* subsp. *cinerea* Lapeyr. ex Lam.  
[IPEN it0u-1994BL00090] Italy , Puglia, Promontorio del  
Gargano, NE Coast, ca. 2 km. ESE Coppo dei Fossi, Macchie  
Alt.: 150 -200 m. Coll.: Gigerl, P. 09/1992 \*2009
- 1 122. 1W *Succisa pratensis* Moench  
[IPEN at0u-2008BL00149] Austria: Salzburg(erland) , Wals S,  
Untere Langwiesen, Latschenwirt NE, Krüzersberg W Alt.:  
570 m. Coll.: Günter 08/2007 \*2009



## Ericaceae

- 11 123. 2G *Enkianthus cernuus* var. *rubens* (Maxim.) Makino  
[IPEN xx0u-1900ZG00184] \*2009
- 4 124. 2G *Kalmia latifolia* L.  
[IPEN xx0u-1900ZG01222] \*2009

## Fabaceae

- 2 125. 1W *Dorycnium hirsutum* (L.) Ser.  
[IPEN it0u-2003BL01367] Italy, Altopiano delle Manie (SV).  
Alt.: 300 m. 14/07/1999 \*2009
- 3 126. 1W *Dorycnium pentaphyllum* subsp. *pentaphyllum*  
[IPEN it0u-2001BL00098] Italy, Südtirol, Bozen SE, Tiers N,  
Völsegg, Trockenhang. Alt.: 1200 m. 06/2000 \*2009
- 2 127. 1Z *Tetragonolobus maritimus* (L.) Roth  
[IPEN hu0u-1999BL00727A] Hungary, Magyarország,  
Kishunság between Duna R. and Tisza R. near  
Tatászentgyörgy and Orgovány \*2009

## Gentianaceae

- 6 128. 2G *Gentiana triflora* Pall.  
[IPEN xx0u-1996BL00905] \*2008

## Geraniaceae

- 13 129. 1Z *Geranium swatense* Schonbeck-Temesy  
[IPEN pk0u-1999BL00369] Pakistan, NW Frontier Prov. Swat  
Div., Gabral-Tal. Alt.: 2600 m. \*2009
- 5 130. 2Z *Geranium swatense* Schonbeck-Temesy  
[IPEN pk0u-1998BL00788] Pakistan, without details. \*2009
- 24 131. 1Z *Pelargonium endlicherianum* Fenzl  
[IPEN tr0u-1984BL00082] Turkey: Turkey-in-Europe, SE  
Denizli, Kazikbeli, Alt.: 1200 m. 1972 \*2009

## Gesneriaceae

- 10 132. 2G *Haberlea rhodopensis* Friv.  
[IPEN xx0u-1966BL00054] \*2009

Globulariaceae

- 2 133. 2Z *Globularia cordifolia* L.  
 [IPEN at0u-1995BL00195] Austria , Niederösterreich,  
 Eichkogel. Alt.: 230 -350 m. \*2009

Iridaceae

- 5 134. 2W *Iris ensata* Thunb.  
 [IPEN kr0u-1994BL00073] Korea, Republic of: Cheju Do  
 (Quelpaert Isl.) , Mt. Halla. Alt.: 1100 m. \*2008
- 6 135. 1W *Iris foetidissima* L.  
 [IPEN fr0u-1999BL00576] France , Finistere,  
 Mouelan-sur-Mer, Pointe de Kerhermen. Alt.: 10 m. \*2008
- 4 136. 2W *Iris lutescens* Lam.  
 [IPEN at0u-1964BL00083] Austria , \*2009
- 8 137. 2Z *Iris sintenisii* subsp. *sintenisii* Janka  
 [IPEN bg0u-1995BL00180] Bulgaria , Eastern Sredna Gora  
 Mts Coll.: Sterz \*2009
- 2 138. 2W *Iris spuria* subsp. *spuria*  
 [IPEN cs0u-1964BL00020] Czechoslovakia , without details.  
 \*2009
- 6 139. 1Z *Iris spuria* subsp. *sogdiana* (Bunge) Mathew  
 [IPEN ru0u-1982BL00251] Russian Federation: Asiatic Russia  
 exact location not known 1981 \*2009

Juncaceae

- 2 140. 1W *Luzula nivea* (L.) DC.  
 [IPEN it0u-2003BL02015] Italy: Toscana , Monti Pisani,  
 Santallago (PI) Alt.: 800 m. \*2009

Lamiaceae

- 0 141. 1W *Horminum pyrenaicum* L.  
 [IPEN it0u-2005BL01310] Italy: Dolomites , Marmolada Alt.:  
 1500 m. Coll.: Gouda, E.J. 05-04 09/07/2005 \*2009
- 2 142. 1W *Nepeta nuda* L.  
 [IPEN hu0u-2000BL00489] Hungary, Magyarország, Csobánc  
 (Volcanic hill). \*2009

Lamiaceae (cont.)

- 10 143. 2Z *Nepeta podostachys* Benth.  
[IPEN pk0b--2607983] Pakistan , NW frontier Province, Swat  
Division, Ushu valey Alt.: 3000 m. Coll.: Em/Prelaz 7579  
\*2009
- 3 144. 1W *Prunella laciniata* (L.) L.  
[IPEN fr0u-2007BL00907] France , Curley N04/0473 2004  
\*2009
- 145. 1W *Salvia pratensis* L.  
[IPEN it0u-2002BL01298] Italy, Alps , Dolomites, Canazei -  
Caprile, Mnt. Marmolada. Alt.: 1600 m. Coll.: Gouda, E.J.  
2002-57 07/08/2002 \*2009
- 10 146. 2W *Scutellaria indica* var. *parvifolia* (Mak.) Mak.  
[IPEN jp0u-2006BL00251] Japan , Hayama Kanagawa pref.  
Alt.: 170 m. Coll.: Michael Guess, Setagaya, Tokyo JP s.n.  
2005 \*2009
- 1 147. 2W *Thymus pulegioides* L.  
[IPEN ch0u-1964BL00054] Switzerland , no further details !  
Coll.: Kliphuis, Dr. E. 1963 \*2009

Liliaceae

- 148. 1W *Asphodelus ramosus* L.  
[IPEN fr0u-2001BL00156] France , Sèvres (Deux),  
Saint-Maurice La Fougereuse, 'Bois d'Anjou'. \*2009
- 7 149. 1W *Camassia scilloides* (Raf.) Cory  
[IPEN us0u-1987BL00430] United States: Pennsylvania ,  
Pennsylvania, Wildflower Preserve. \*2009
- 17 150. 1W *Lilium sargentiae* E.H.Wilson  
[IPEN cn0u-2002BL01491] China: Yunnan , \*2008
- 3 151. 2W *Maianthemum racemosum* (L.) Link  
[IPEN us0u-1999BL00238] United States: Michigan , Ingham  
County, Mesic S Forest; 98-09-23. Alt.: 265 m. \*2009
- 6 152. 2U *Paris quadrifolia* L.  
[IPEN xx0u-2007BL00933] \*2009
- 2 153. 2G *Veratrum nigrum* L.  
[IPEN xx0u-1965BL00271] \*2008
- 12 154. 2Z *Veratrum oxysepalum* Turcz.  
[IPEN cn0u-1997BL01048] China , S-Chekiang. \*2008

Magnoliaceae

- 4 155. 2G *Magnolia kobus* var. *kobus*  
[IPEN xx0u-1985RD00237] South Korea , Chollipo Arb., from  
exceptionally heavy flowered and fruited tree \*2009
- 11 156. 2W *Magnolia sieboldii* K.Koch  
[IPEN kr0u-1985RD00188] South Korea , Suweon, Mt.  
Kwanak. 1984 \*2009
- 7 157. 2G *Magnolia tripetala* (L.) L.  
[IPEN xx0u-1965RD00047] \*2009
- 9 158. 2G *Magnolia virginiana* L.  
[IPEN xx0u-1900ZG01144] \*2009

Menispermaceae

- 7 159. 2W *Cocculus trilobus* (Thunb.) DC.  
[IPEN tw0u-1980GR00388] Taiwan , approx. S top (Coast)  
Coll.: Kramer, K.U. 7928 1980 \*2008

Papaveraceae

- 6 160. 1G *Meconopsis betonicifolia* 'Alba' Franch.  
[IPEN xx0u-2003BL01541] \*2008
- 5 161. 2G *Meconopsis betonicifolia* Franch.  
[IPEN xx0u-1964BL00209] \*2009

Pinaceae

- 13 162. 2G *Pseudolarix amabilis* (A.Nelson) Rehder  
[IPEN xx0u-1900ZG00915] \*2009

Plumbaginaceae

- 14 163. 1G *Acantholimon ulicinum* subsp. *ulicinum*  
[IPEN xx0u-1990BL01181] \*2009
- 7 164. 2G *Limonium minutum* (L.) Fourr.  
[IPEN xx0u-1984BL00199] \*2009

Poaceae

- 8 165. 1W *Bouteloua gracilis* (Willd. ex Kunth) Lag. ex Griffiths  
[IPEN us0u-2002BL00753] United States: South Dakota ,  
\*2008

Primulaceae

- 12 166. 2G *Dodecatheon conjugens* E. Greene  
[IPEN xx0u-1990BL00120] \*2008
- 11 167. 2W *Dodecatheon pulchellum* subsp. *pulchellum* (Raf.) Merr.  
[IPEN us0u-1983BL00281] United States: Oregon , N.W. 1982  
\*2009
- 9 168. 2G *Primula vialii* Delavay ex Franch.  
[IPEN xx0u-2001BL00060] \*2009

Ranunculaceae

- 3 169. 2W *Aconitum lycoctonum* subsp. *vulparia* (Rchb.) Nyman  
[IPEN fr0u-1979BL00015] France , Ain mountains (Praffion -  
Jura Francais), 78-11-01. Alt.: 1350 m. \*2009
- 1 170. 2Z *Aquilegia vulgaris* subsp. *vulgaris*  
[IPEN fr0u-1995BL00209] France , Basses-Pyrenees., Pic du  
Ger. \*2009
- 3 171. 2W *Trollius europaeus* subsp. *europaeus*  
[IPEN fr0u-1979BL00236] France , (Hautes Pirenees)  
Gavarnie, on humid meadow. \*2009

Rhamnaceae

- 11 172. 2W *Rhamnella franguloides* (Maxim.) Weberb.  
[IPEN kr0u-1983RD00218] South Korea , Cholla-Namdo, Mt.  
Paegyang, near White Sheet Temple \*2009

Rosaceae

- 2 173. 2W *Geum coccineum* Sibth. & Sm.  
[IPEN bg0u-1976BL00116] Bulgaria , Vitoscha Mts. \*2009
- 174. 2Z *Geum pyrenaicum* Mill.  
[IPEN fr0u-1997BL01115] Pyrenees, without details. \*2009
- 175. 2W *Potentilla recta* L.  
[IPEN yu0u-1977BL00298] Servia, Lovac, mountain meadow  
Alt.: 1100 m. Coll.: Cytotax. coll.in Yug. 17398 1975 \*2009



Sciadopityaceae

- 10 176. 2G *Sciadopitys verticillata* (Thunb. ex Murray) Siebold & Zucc.  
[IPEN xx0u-1900ZG01861] \*2009

Scrophulariaceae

- 3 177. 1W *Asarina erubescens* (D.Don) Pennell  
[IPEN bo0u-2005GR01250] Bolivia: Prov. Santa Cruz ,  
direction of Samaipata, near Ayacucho Coll.: Gouda, C.S. s.n.  
\*2009
- 6 178. 2W *Digitalis ferruginea* L.  
[IPEN gr0u-2006BL00502] Greece: Peloponesos , Mt. Killini  
\*2009
- 6 179. 2Z *Digitalis ferruginea* subsp. *ferruginea*  
[IPEN tr0u-2000BL00393] Turkey , N.-Anatolia, Bithynia:  
Ala-Dag, Kartalkaya 10 km before ski station. Alt.: 1600 m.  
\*2009
- 1 180. 1W *Digitalis grandiflora* Mill.  
[IPEN fr0u-1999BL00255] France, Jura, Chateau vilain;  
98-09-04. Alt.: 650 m. \*2009
- 2 181. 2G *Digitalis parviflora* Jacq.  
[IPEN xx0u-2000BL00573] \*2008
- 7 182. 2W *Digitalis viridiflora* Lindl.  
[IPEN bg0u-2002BL01044] Bulgaria , Eastern Rodopi. Alt.:  
1700 m. 25503 2002 \*2009
- 3 183. 2G *Mimulus cardinalis* Douglas  
[IPEN xx0u-1977BL00141] \*2009
- 5 184. 2W *Penstemon alpinus* Torr.  
[IPEN us0u-1996BL00291] United States: Colorado , Jefferson  
County. Alt.: 2300 m. \*2009
- 4 185. 1W *Penstemon barbatus* (Cav.) Roth  
[IPEN us0u-1996BL00222] United States: Oregon , \*2009
- 12 186. 2W *Penstemon campanulatus* Willd.  
[IPEN mx0u-2005BL00272] Mexico , just below the summit  
of Cerro Potosi Alt.: 3800 m. pcha 148 \*2009
- 2 187. 2W *Penstemon digitalis* Nutt.  
[IPEN us0u-1995BL01112] United States: Michigan, Ingham  
county , roadbank above seep Alt.: 259 m. \*2009
- 10 188. 2Z *Penstemon linarioides* subsp. *coloradoensis* (A.Nelson) Keck  
[IPEN us0u-2006BL00852] United States: Colorado , La Plata  
County \*2009



Scrophulariaceae (cont.)

- 6 189. 2G *Penstemon pinifolius* E. Greene  
[IPEN xx0u-1969BL00346] \*2009
- 10 190. 2Z *Penstemon strictiformis* Rydb.  
[IPEN us0u-1997BL00959] United States: Colorado, Kenosha  
Pass, Park County. Alt.: 3110 m. \*2008
- 10 191. 1Z *Phygellus aequalis* Harv. ex Hiern  
[IPEN za0u-2004BL01363] South Africa: Free State, Mt.  
Aux-Sources, Witsiehoek Mt. Resort Alt.: 2300 m. Coll.:  
Lesotho-Edinburgh-Gothenburg Botanical Expedition 315  
\*2009

Sterculiaceae

- 2 192. 1G *Abroma augusta* (L.) L.f.  
[IPEN xx0u-1987GR00028] \*2009

Taxaceae

- 8 193. 2G *Torreya nucifera* var. *nucifera* (L.) Siebold & Zucc.  
[IPEN xx0u-1900ZG01293] \*2009

Taxodiaceae

- 6 194. 2G *Cunninghamia lanceolata* (Lamb.) Hook.  
[IPEN xx0u-1900ZG00035] \*2009

Valerianaceae

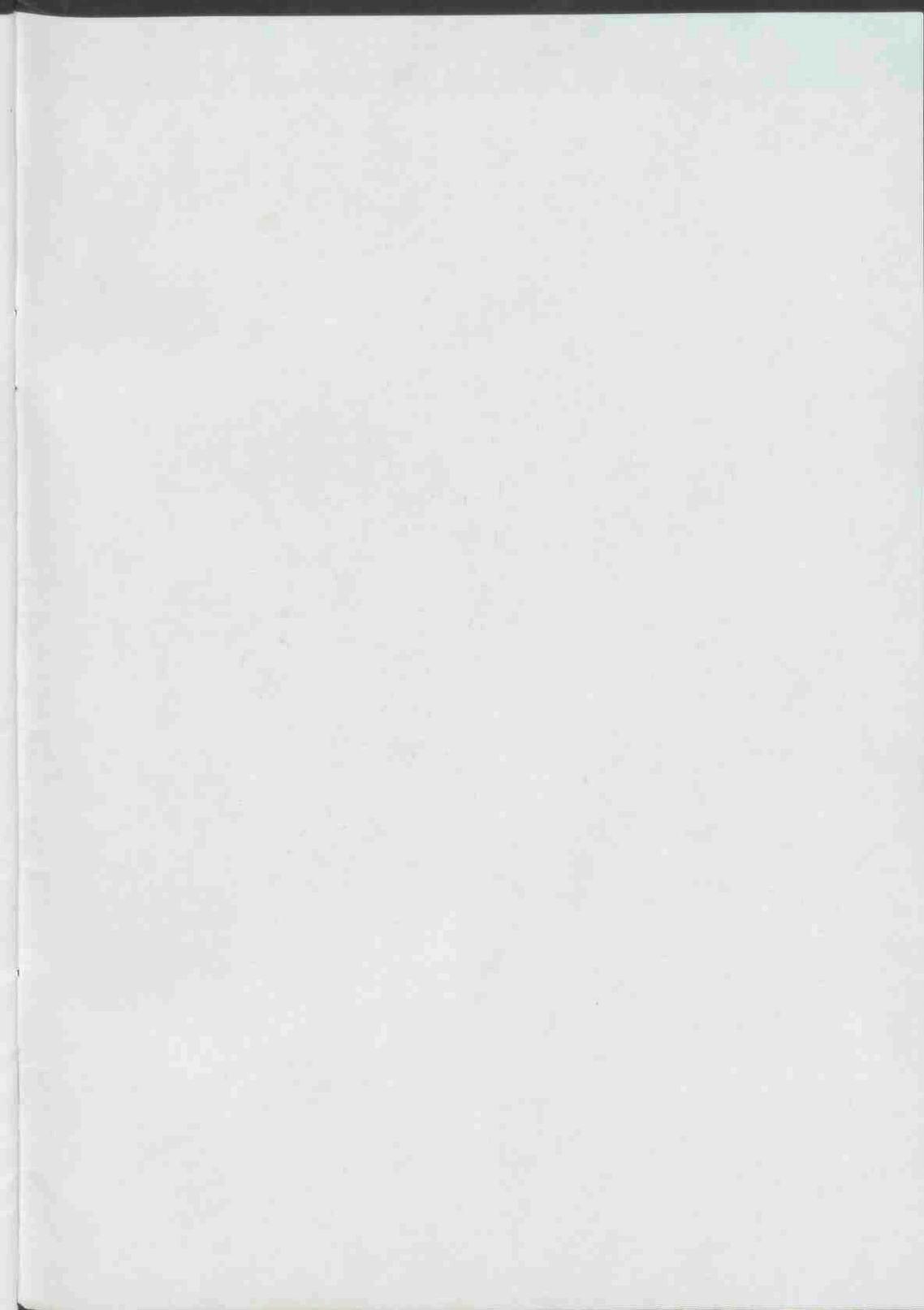
- 1 195. 1G *Patrinia villosa* (Thunb.) Juss.  
[IPEN xx0u-2005BL01368] \*2008

Zamiaceae

- 14 196. 2G *Encephalartos villosus* Lem.  
[IPEN xx0u-1975GR00125] \*2009

Zingiberaceae

- 10 197. 1G *Roscoea humeana* f. *lutea* Cowley  
[IPEN xx0u-2005BL00506] \*2009



100. 100. *Physalis peruviana* L.  
[1793] *Physalis peruviana* L.

101. 101. *Physalis peruviana* L.  
[1793] *Physalis peruviana* L.  
Dios. *Physalis peruviana* L.

102. 102. *Physalis peruviana* L.  
[1793] *Physalis peruviana* L.  
Exp. *Physalis peruviana* L.  
Linn. *Physalis peruviana* L.  
1800

Physalis

103. 103. *Physalis peruviana* L.  
[1793] *Physalis peruviana* L.

Physalis

104. 104. *Physalis peruviana* L.  
[1793] *Physalis peruviana* L.

Physalis

105. 105. *Physalis peruviana* L.  
[1793] *Physalis peruviana* L.

Physalis

106. 106. *Physalis peruviana* L.  
[1793] *Physalis peruviana* L.

Physalis

107. 107. *Physalis peruviana* L.  
[1793] *Physalis peruviana* L.

Physalis

108. 108. *Physalis peruviana* L.  
[1793] *Physalis peruviana* L.

