

Index Seminar 2009/10



Burgers' Zoo, Arnhem

Botanic Garden of
the Delft University
of Technology



and

**Please note: this is our last printed seed list!
We will continue next year with electronic seed lists only.**

**Botanic Garden, Biotechnology Dept.,
Delft University of Technology
Julianalaan 67
NL-2628 BC DELFT
The Netherlands**

Tel.: +31 (0)15 278 2356

Fax: +31 (0)15 278 2355

email: botanischetuin@tudelft.nl

www.botanischetuin.tudelft.nl

email for desiderata:
curators-office-botanic-garden@tudelft.nl

Director: drs. ing. Bob Ursem
Curator: drs. Bert van den Wollenberg
Head Gardening: Erwin Kluver
Education: drs. Bertus van der Meijden
Gerard van der Veen

Seed collecting & cleaning:

Astrid Aarssen
Erwin Kluver
Hans Meinema
Carel Oberman
Marjorie Rethans
René van Winden

**Burgers' Bush & Zoo
Antoon van Hooffplein 1
NL-6816 SH Arnhem
Netherlands**

+31 (0)26 442 45 34

info@burgerszoo.nl (Not for desiderata!)

www.burgerszoo.nl

Seed collecting & cleaning:

Ernst Kamphuis

Index Seminar 2009/10
Botanic Garden, Biotechnology Dept.,
Delft University of Technology
&
Index Seminar 2009/10,
Burgers' Bush & Zoo

Final notice:

this is our last printed seed list!

Please provide your email address, and we will send the next seed list by email. No printed seed lists will be sent to you after this one.

Send your email address to: curators-office-botanic-garden@tudelft.nl

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Important notes for ordering

Phytosanitary regulations:

EU: All seed can be sent to addresses in the EU.

Applications from other countries: Certain seed is banned by some countries and it is essential that applicants contact their Plant Health Department to check what can be imported into their country. We consider it the applicant's responsibility to ensure that they are aware of the permits and restrictions that apply to them.

Further information on data used in the seed list

1. Origin codes used :

- G garden origin
- K commercial nursery origin
- U unknown origin, wild origin suspected, but data missing
- S seeds of wild origin plants, cultivated in the garden

2. Explanation of the structure of the IPEN numbers used:

The IPEN number consists of 4 parts, e.g. IPEN XX-0-DELF-954000070:

- ▶ XX: XX is used seeds of plants of non-wild origin. In case of wild collected plants, or plants of known wild origin, the 2-character country code is used (ISO 2-alpha, see <http://www.unc.edu/~rowlett/units/codes/country.htm>, e.g. NL.
- ▶ 0 (or 1): if restrictions apply: "0"=NO, "1"=YES.
- ▶ acronym for Delft (see www.bgci.org/garden_search.php)
- ▶ accession number in Delft (for more information)

Global seed list search system:

By including an agreed code word in your electronic seed list and putting it on your website, you join the global seed list search. The agreed code word is ebgconsortiumindexseminumyear, so for this 2009/2010 season it is ebgconsortiumindexseminum2010.

In this way you assist the global seed search. If you look for a particular, hard-to-find plant species, then now you can search all seed lists on the internet, e.g. by using Google, and type: ebgconsortiumindexseminum2008 "Chamaerops humilis".

If we all do this, we all also benefit from it! It is easy, and it's free. More information on how the system works is available at: www.plantnetwork.org/ebg/ (courtesy Matthew Jebb, Glasnevin BG).

News from Delft Botanic Gardens

Collections check-up

Delft Botanic Garden specialises on 16 plant groups: Cannaceae, Cercidiphyllaceae, Costaceae, Eucommiaceae, Hamamelidaceae, Heliconiaceae, Lavandula, Marantaceae, Menispermaceae, Musaceae, Myristicaceae, Platanaceae, Stelitziaceae, Theaceae, Thymelaeaceae (new), and Zingiberaceae. In August 2009, the independent Collections Committee of the Dutch National Plant Collection Foundation examined 11 of these for the periodic quality check. Following their findings, we have initiated improvement of the nomenclature of the Zingiberales, using the Kew World Checklist website as a reference (<http://apps.kew.org/wcsp/>). Cannaceae and Costaceae nomenclature are now completely in accordance with the Kew website, and identifications by P.J.M. & H. Maas have been recorded.

Angiosperm Phylogeny Group

(<http://www.mobot.org/MOBOT/Research/APweb/welcome.html>)

We aim to implement APG-III for our nomenclature. This process has not been completed as yet, although some changes have been made after APG-II. The 10 botanic gardens using Atlantis software currently jointly await the moment when the Cronquist phylogenetic tree can be replaced by the new APG-III tree automatically.

This means that you may still encounter some inconsistencies in families and their circumscription used. The software developer DeventIT (<http://www.deventit.nl/>, select “Atlantis Botanic Garden” bottom left) is currently testing the conversion.

Internet access to database

The collections of tree Dutch botanic gardens, viz. The Hortus Botanicus of Amsterdam, the Botanic Garden of Delft University of Technology, and Utrecht University Botanic Gardens are now jointly or individually searchable through the Thematis Botanic Portal (<http://www.thematis.nl/botanicportal/>). The botanic gardens collections currently searchable through the Thematis Botanic Portal are all documented using Atlantis Botanic Garden software. However, this is not a requirement, other database systems can also make use of Thematis to provide database access via the internet.

Convention on Biological Diversity

In response to the Convention on Biological Diversity (CBD), we supply seeds and other plant material only in accordance with the Code of Conduct for Botanic Gardens.

We use the IPEN Code of Conduct with regards to seeds exchange for non-commercial use. IPEN membership allows exchange with other IPEN-members without bi-lateral agreements. For a list of current IPEN-members check the web-site of Botanic Gardens Conservation International (BGCI) at www.bgci.org/resources/ipen.

**Index Seminarum 2009/10 Part 1:
Botanic Garden, Biotechnology Dept.,
Delft University of Technology**

Apiaceae

- 1 G *Angelica archangelica* [IPEN XX-0-DELFT-2003V18058]
- 2 G *Conium maculatum* [IPEN XX-0-DELFT-2005V18043]

Apocynaceae

- 3 G *Alyxia ruscifolia* [IPEN XX-0-DELFT-932470047]
- 4 G *Rauvolfia canescens* [IPEN XX-0-DELFT-582470006]
- 5 G *Rauvolfia serpentina* [IPEN XX-0-DELFT-2002GR03058]
- 6 U *Rauvolfia vomitoria* [IPEN XX-0-DELFT-822470004]

Araceae

- 7 G *Alocasia odora* [IPEN XX-0-DELFT-2009GR0093]
- 8 K *Anthurium bakeri* [IPEN XX-0-DELFT-912300070]
- 9 G *Anthurium veitchii* [IPEN XX-0-DELFT-982300083]
- 10 G *Nepenthes afzelii* [IPEN XX-0-DELFT-982300052]
- 11 G *Nepenthes poissonii* [IPEN XX-0-DELFT-792300022]
- 12 G *Zantedeschia elliottiana* [IPEN XX-0-DELFT-952300081]

Areaceae

- 13 U *Sabal minor* [IPEN XX-0-DELFT-002100012]

Asteraceae

- 14 G *Aster alpinus* [IPEN XX-0-DELFT-2007-0264]
- 15 K *Aster ericoides* [IPEN XX-0-DELFT-2000V01165]
- 16 G *Carthamus lanatus* [IPEN XX-0-DELFT-2007-0572]
- 17 G *Cynara cardunculus* [IPEN XX-0-DELFT-1997V18039]
- 18 G *Hieracium pilosella* [IPEN XX-0-DELFT-1986V18034]
- 19 G *Senecio petasites* [IPEN XX-0-DELFT-2001KPS178]
- 20 K *Stevia rebaudiana* [IPEN XX-0-DELFT-2009GR0118]

Brassicaceae

21 G *Camelina sativa* [IPEN XX-0-FRIBG-100035]

Campanulaceae

22 G *Campanula latifolia* [IPEN XX-0-DELFF-802760009]

Cannaceae

23 G *Canna indica* [IPEN XX-0-DELFF-2008KPS0553]

Caprifoliaceae

24 K *Lonicera caprifolium* [IPEN XX-0-DELFF-2000V29063]

Caryophyllaceae

25 G *Dianthus carthusianorum* [IPEN XX-0-DELFF-2003V12018]

Commelinaceae

26 G *Palisota bracteosa* [IPEN XX-0-DELFF-1978GR01001]

Costaceae

27 S *Costus dubius* [IPEN XX-0-DELFF-1997GR03151]

Crassulaceae

28 G *Chiastophyllum oppositifolium* [IPEN XX-0-DELFF-2007-0140]

Cunoniaceae

29 G *Davidsonia pruriens* [IPEN XX-0-DELFF-871200001]

Cyperaceae

30 K *Cyperus haspan* [IPEN XX-0-DELFF-2005GR01015]

31 U *Kyllinga monocephala* [IPEN XX-0-DELFF-002000007]

Erythroxylaceae

32 U *Erythroxylon coca* [IPEN XX-0-DELFF-001340001]

Euphorbiaceae

- 33 G *Phyllanthus acidissimus* [IPEN XX-0-DELFF-931470087]

Fabaceae

- 34 G *Adenanthera pavonina* [IPEN XX-0-DELFF-851280077]
35 G *Lysiloma thornberi* [IPEN XX-0-DELFF-1994KPS127]
36 G *Neptunia plena* [IPEN XX-0-DELFF-2007GR0417]
37 G *Phaseolus lunatus* [IPEN XX-0-DELFF-2007GR0705]

Hamamelidaceae

- 38 K *Corylopsis glabrescens* [IPEN XX-0-DELFF-1988V07077]
39 K *Corylopsis pauciflora* [IPEN XX-0-DELFF-1980V07006]
40 G *Corylopsis platypetala* [IPEN XX-0-DELFF-1979V07007]
41 K *Corylopsis platypetala* [IPEN XX-0-DELFF-1988V07078]
42 G *Corylopsis sinensis* [IPEN XX-0-DELFF-1980V07010]
43 K *Corylopsis sinensis* [IPEN XX-0-DELFF-1998V07009]
44 K *Corylopsis spicata* [IPEN XX-0-DELFF-1979V07013]
45 G *Corylopsis veitchiana* [IPEN XX-0-DELFF-1981V07014]
46 G *Corylopsis willmottiae* [IPEN XX-0-DELFF-1992V07015]
47 K *Corylopsis willmottiae* [IPEN XX-0-DELFF-1979V07016]
48 G *Distylium myricoides* [IPEN XX-0-DELFF-1984V14018]
49 G *Distylium racemosum* [IPEN XX-0-DELFF-1981V07083]
50 G *Distylium racemosum* [IPEN XX-0-DELFF-2003V14110]
51 K *Distylium racemosum* [IPEN XX-0-DELFF-1976V07019]
52 K *Liquidambar styraciflua* [IPEN XX-0-DELFF-1960V04057]
53 K *Parrotia persica* [IPEN XX-0-DELFF-1976V17061]
54 K *Parrotiopsis jacquemontiana* [IPEN XX-0-DELFF-1979V07062]
55 G *Sycopsis sinensis* [IPEN XX-0-DELFF-1979V07069]

Iridaceae

- 56 G *Dierama pulcherrimum* [IPEN XX-0-DELFF-2005V12095]
57 K *Iris germanica* [IPEN XX-0-DELFF-1985V23006]

Lamiaceae

- 58 G *Leonurus cardiaca* [IPEN XX-0-DELFF-1998V18028]
59 G *Prunella vulgaris* [IPEN XX-0-DELFF-982540056]

- 60 G *Teucrium scorodonia* [IPEN XX-0-DELFF-1975V17035]

Liliaceae

- 61 G *Allium roseum* [IPEN XX-0-DELFF-2008-0065]
 62 G *Allium sativum* [IPEN XX-0-DELFF-1973V18044]
 63 G *Allium sativum* [IPEN XX-0-DELFF-2008-0656]
 64 G *Asphodeline lutea* [IPEN XX-0-DELFF-1984V18018]
 65 K *Fritillaria persica* [IPEN XX-0-DELFF-1991V02068]
 66 K *Littonia modesta* [IPEN XX-0-DELFF-203800168]

Linaceae

- 67 G *Linum usitatissimum* [IPEN XX-0-DELFF-2006V17004]

Malvaceae

- 68 G *Gossypium arboreum* [IPEN XX-0-DELFF-981750003]
 69 G *Gossypium barbadense* [IPEN XX-0-DELFF-2005GR02050]
 70 G *Gossypium barbadense* var. *braziliense* [IPEN XX-0-DELFF-2004GR02049]
 71 G *Gossypium barbadense* var. *darwinii* [IPEN XX-0-DELFF-2006GR02053]
 72 G *Gossypium raimondii* [IPEN XX-0-DELFF-2004GR02032]
 73 S *Gossypium spec.* [IPEN XX-0-DELFF-2001GR02042]
 - Venezuela, no further details
 74 G *Hibiscus cannabinus* [IPEN XX-0-DELFF-2007GR0715]
 75 G *Hibiscus sabdariffa* [IPEN XX-0-DELFF-2007GR0716]
 76 G *Hibiscus sabdariffa* [IPEN XX-0-DELFF-2007GR0681]

Marantaceae

- 77 G *Marantochloa leucantha* [IPEN XX-0-DELFF-024800081]

Meliaceae

- 78 G *Turraea heterophylla* [IPEN XX-0-DELFF-2007GR0108]
 79 G *Turraea heterophylla* [IPEN XX-0-DELFF-961400009]

Myrtaceae

- 80 G *Eugenia uniflora* [IPEN XX-0-DELFF-802220013]
 81 W *Eugenia uniflora* [IPEN XX-0-DELFF-2004GR0369]
 - tropical America , no further details.

82 G *Psidium cattleianum* [IPEN XX-0-DELFF-2008GR0189]

Ochnaceae

83 0 *Ochna serrulata* [IPEN XX-0-DELFF-2009GR0126]

Passifloraceae

84 G *Passiflora rubra* [IPEN XX-0-DELFF-932030027]

85 U *Passiflora suberosa* [IPEN XX-0-DELFF-002030003]

Phytolaccaceae

86 G *Petiveria alliacea* [IPEN XX-0-DELFF-728300007]

87 G *Rivina tinctoria* [IPEN XX-0-DELFF-1997GR04008]

88 G *Trichostigma peruviana* [IPEN XX-0-DELFF-808300001]

Pittosporaceae

89 G *Pittosporum crassifolium* [IPEN XX-0-DELFF-1982KPS005]

Poaceae

90 G *Chasmanthium latifolium* [IPEN XX-0-DELFF-2002KPS059]

91 G *Coix lacryma-jobi* [IPEN XX-0-DELFF-2008-0519]

92 G *Lolium temulentum* [IPEN XX-0-FRIBG-1000141]

93 G *Sorghum caffrorum* [IPEN XX-0-DELFF-2008GR0604]

94 G *Stipa tenuissima* [IPEN XX-0-DELFF-2007-0036]

Rosaceae

95 G *Agrimonia eupatoria* [IPEN XX-0-DELFF-781260040]

96 G *Rosa hugonis* [IPEN XX-0-DELFF-2000V21081]

Rubiaceae

97 G *Psychotria maingayi* [IPEN XX-0-DELFF-1971GR01016]

Sapotaceae

98 K *Synsepalum dulcificum* [IPEN XX-0-DELFF-2001GR03002]

Scrophulariaceae

- 99 U *Digitalis purpurea* [IPEN XX-0-DELF-002570014]
100 G *Mimulus guttatus* [IPEN XX-0-DELF-2008-0068]

Solanaceae

- 101 G *Cestrum parqui* [IPEN XX-0-DELF-802560022]
102 G *Mandragora officinarum* [IPEN XX-0-DELF-1973V23001]

Velloziaceae

- 103 G *Talbotia elegans* [IPEN XX-0-DELF-2008-0572]

Verbenaceae

- 104 G *Lippia dulcis* [IPEN XX-0-DELF-2007GR0463]

Zingiberaceae

- 105 G *Hedychium forrestii* [IPEN XX-0-DELF-2006KPS338]
106 G *Hedychium spicatum* [IPEN XX-0-DELF-1982KPS376]

Index Seminum 2009/10, Part 2: Burgers' Bush & Zoo

Burgers' Bush & Zoo specialises on Aristolochiaceae, Costaceae, Dracaena, Ficus, Mangrove plants, & Zingiberaceae.

Acanthaceae

- 107 G *Ruellia solitaria* [IPEN XX-0-BURDI-1999-1010007]
- 108 G *Thunbergia fragrans* [IPEN XX-0-BURDI-ACANT056]

Agavaceae

- 109 G *Agave colorata* [IPEN XX-0-BURDI-2010BZOO0001]
- 110 G *Agave horrida* [IPEN XX-0-BURDI-2010BZOO0002]

Amaranthaceae

- 111 G *Pleuropetalum darwinii* [IPEN XX-0-BURDI-1986-1202-]

Annonaceae

- 112 G *Annona glabra* [IPEN XX-0-BURDI-1987-1017003]

Apocynaceae

- 113 G *Thevetia peruviana* [IPEN XX-0-BURDI-APOCY029]

Arecaceae

- 114 G *Sabal palmetto* [IPEN XX-0-BURDI-2010BZOO0008]

Aristolochiaceae

- 115 G *Aristolochia fimbriata* [IPEN XX-0-BURDI-ARIST003]

Fabaceae

- 116 G *Pithecellobium flexicaule* [IPEN XX-0-BURDI-2010BZOO0006]

Heliconiaceae

- 117 G *Heliconia obscura* [IPEN XX-0-BURDI-2000-0411007]
 118 G *Heliconia stricta* 'Dwarf Jamaican' [IPEN XX-0-BURDI-HELI013]

Lythraceae

- 119 G *Heimia salicifolia* [IPEN XX-0-BURDI-LYTHR033]
 120 G *Lagerstroemia indica* [IPEN XX-0-BURDI-2010BZOO0007]

Malvaceae

- 121 G *Sida rhombifolia* [IPEN XX-0-BURDI-2006-0617016]

Marantaceae

- 122 G *Calathea crotalifera* [IPEN XX-0-BURDI-1999-0111003]

Melastomataceae

- 123 G *Gravesia guttata* [IPEN XX-0-BURDI-2006-0914003]

Meliaceae

- 124 G *Turraea heterophylla* [IPEN XX-0-BURDI-1986-1216205]

Passifloraceae

- 125 G *Passiflora serrata* var. *digitata* [IPEN XX-0-BURDI-2001-0612003]

Zingiberaceae

- 126 G *Etilingera elatior* [IPEN XX-0-BURDI-1998-0826013]
 127 G *Hedychium bousigonianum* [IPEN XX-0-BURDI-2001-0727002]
 128 G *Hedychium coronarium* var. *urophyllum* [IPEN XX-0-BURDI-2001-0727003]
 129 G *Hedychium cylindricum* [IPEN XX-0-BURDI-2001-0727004]
 130 G *Hedychium densiflorum* [IPEN XX-0-BURDI-2010BZOO0003]
 131 G *Hedychium hasseltii* [IPEN XX-0-BURDI-2001-0725005]
 132 G *Hedychium horsfieldii* [IPEN XX-0-BURDI-2010BZOO0004]
 133 G *Hedychium muluense* [IPEN XX-0-BURDI-1998-0220001]
 134 G *Hedychium spicatum* [IPEN XX-0-BURDI-2010BZOO0005]
 135 G *Hedychium longicornutum* [IPEN XX-0-BURDI-2001-0727006]
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Index Seminum 2009/10 Part 3: name changes, previous list

Name changes for seeds of previous seed list (2008/9), as a result of identifications made by specialist drs. H. Maas.

- 17. G *Canna achiras* [IPEN XX-0-DELF-1982KPS001]= *C. indica*
- 18. G *Canna aurantiaca* [IPEN XX-0-DELF-2004KPS126]= *C. indica*
- 19. G *Canna aurantiaca* [IPEN XX-0-DELF-2001KPS114]= *C. indica*
- 20. G *Canna brasiliensis* [IPEN XX-0-DELF-1998KPS082]= *C. indica*
- 21. G *Canna brasiliensis* [IPEN XX-0-DELF-2005GR04130]= *C. indica*
- 22. G *Canna brasiliensis* [IPEN XX-0-DELF-1981KPS004]= *C. indica*
- 23. W *Canna coccinea* [IPEN XX-0-DELF-1985KPS010]= *C. indica*
- 24. G *Canna edulis* [IPEN XX-0-DELF-1979KPS037]= *C. indica*
- 26. G *Canna humilis* [IPEN XX-0-DELF-1981KPS027]= *C. indica*
- 27. G *Canna iridiflora* [IPEN XX-0-DELF-2005KPS137]= *C. indica*
- 28. G *Canna laeta* [IPEN XX-0-DELF-2005KPS044]= *C. indica*
- 29. G *Canna latifolia* [IPEN XX-0-DELF-1986KPS045]= *C. indica*
- 30. G *Canna lutea* var. *aurantiaca* [IPEN XX-0-DELF-1987KPS048]= *C. indica*
- 31. G *Canna polymorpha* [IPEN XX-0-DELF-1987KPS051]= *C. indica*
- 32. G *Canna variabilis* [IPEN XX-0-DELF-1982KPS056]= *C. indica*

- 39. G *Costus lucanusianus* [IPEN XX-0-DELF-2004GR03002]= *C. dubius*

Furthermore, we wish to inform you that *Costus dubius* is the only *Costus* species freely self-sowing in glasshouse cultivation, and will invade adjacent pots with other *Costus* species. We therefore advise to keep *Costus dubius* separate from the other *Costus* species that you may have in your collection.

Please note that only the following *Canna* species are recognised according to the Kew World Checklist (<http://apps.kew.org/wcsp/>):

Canna bangii, *Cc. flaccida*, *glauca*, *indica*, *iridiflora*, *jaegeriana*, *liliflora*, *paniculata*, *pedunculata*, & *tuerckheimii*.