

MAGNOLIA SPECIES IN CULTIVATION AND SOME NEW HYBRIDS

Philippe de Spoelberch

NDV at Von Gimborn arboretum

24 April 2014

Subgenus Magnolia

Section *Magnolia*: *M. grandiflora*, *virginiana*, *schiedeana*, *tamaulipana*

Section *Gwillimia*:

Subsection *Gwillimia* *M. delavayi* (*henryi*)

Subsection *Blumania* (all subtropical)

Section *Talauma* (55 species, none hardy)

Subsection *Talauma* (31 species: Central America)

Subsection *Dugandiodendron* (14 species: Colombia and Venezuela)

Subsection *Cubense* (10 species: Cuba, Haïti, Rep. Dominican, Porto Rico)

Section *Manglietia* (35 sp.): *M. conifera*, *decidua*, *insignis*, *fordiana*, *yuyuanensis*

Section *Kmeria* (3 species from South East Asia, none are hardy)

Section *Rhytidospermum*

Subsection *Rhytidospermum*: *M. tripetala*, *obovata*, *officinalis*, *rostrata*

Subsection *Oyama*: *M. sieboldii*, *sinensis*, *wilsonii*, *globosa*

Section *Auriculata*: *M. fraseri*, - *var. pyramidata*

Section *Macrophylla*: *M. macrophylla*, - *var. ashei*, - *var. dealbata*

Subgenus Yulania

Section Yulania

Subsection Yulania (China, Japan and Korea)

1 - *campbellii*, *sprengeri*, - *var. elongata*, *dawsoniana*, *sargentiana*

2 - *denudata*, *liliiflora*, *cylindrica*,

3 - *kobus*, *stellata*, *salicifolia*

4 - *amoena*, *biondii*, *zenii*

Subsection Tulipastrum: *acuminata* , - *var. subcordata*

Section Michelia

Subsection Michelia: *cavaleriei*, *var. platypetala*, *laevifolia*, *doltsopa*, *ernestii*, *foveolata*, *maudiae*,

Subsection Elmerrilia (6 sp., Philippines, Indonesia)

Subsection Maingola (11 sp. India, Vietnam, Borneo etc)

Subsection Aromadendron (5 species, Sumatra Borneo)

Subgenus Gymnopodium

Section Gymnopodium: *M. nitida*, *lotungensis*

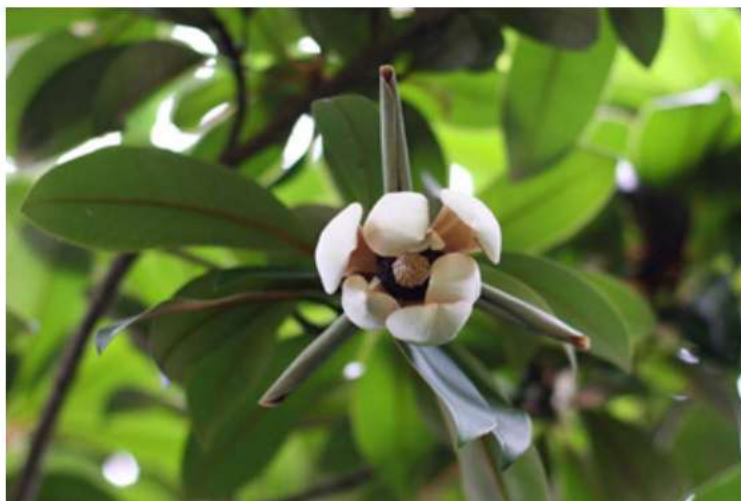
Section Manglietiastrum: (One species, Yunnan)



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MEMBER SPOTLIGHT

Ethan Guthrie

*M. KWANGTUNGENSIS*

Ethan, Greenhouse and Nursery Manager at Smithgall Woodland Garden, hosted our recent annual meeting in Athens, Georgia. Meet Ethan and see what draws him to the world of magnolias, including his favorite -- *M. kwangtungensis*.

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▣ Cultivar description in Magnolia Society International

Angustifolia

[*M. virginiana*], cv. (Page, Page's Prodr. p. 21. 1817, Southampton, England), as *M. glauca* cv. *Angustifolia*. 'Willow'. See cv. *salicifolia* (Bosse, 1841), with similar description.

Angustifolia Glabrata

[*M. grandiflora*], cv. (Schelle in Beissner et al., handb. Der Laubholz-Benennung 100, 1903), nomen nudum.

Anilou

[*M. acuminata* x *M. 'Elizabeth'*] cv. (*Magnolia* 40(1) [Issue 77]: 20-21, 2005) This upright tree bears erect flowers that open with the leaves; outer tepals have green shades but are not sepaloid; young flowers are very green (RHS 143) depending on stage; mature flowers are deep yellow (RHS 7D) on the outside and sulphur yellow (RHS 6D) within; outer whorl of tepals has a green blotch; tepals are broadly obovate and 10-12cm (3.94-4.72in) long and 5.5cm (2.16in) wide; stamens are yellow with soft pinkish filaments; gynoecium is green with soft yellow stigmas; bloom period is longer than a month; hybridized by Dr. August Kehr, raised, selected, named and registered (November 9, 2004) by Koen Camelbeke and Philippe de Spoelberch of Arboretum Wespelaar, Belgium. Name and description of this plant previously published by Camelbeke, K. 2004 *Jaarboek Belgische Dendrologische Vereniging* 2003:40.

Anilour

Ann

[*M. liliiflora*, *M. stellata*], cv. (Dudley & Kosar, *Morris Arb. Bull.* 19: 28, Figs. 1, 4. 1968), Early blooming, flowers small, 2-4 in. in diameter, buds red-purple (RHS 71A) at the base to (RHS 70B) at the apex, flowers erect at anthesis, tepals 6-8, subulate-obovate, 1-2 1/2 in. long, 1/2-3/4 in. wide, erect, outside red-purple (RHS 71B) to purple (RHS75A-75D), inside purple (RHS75D), stamens 50-60, red-purple (RHS 71A-71B). A sterile triploid. U. S. Natl. Arb. #28344. (*M. liliiflora* cv. *Nigra* x *M. stellata*).

Ann Rosse

[*M. denudata*, *M. sargentiana*], cv. *Magnolia* 20(1) [ISSUE 37]: 15, 1984. 'A tree with large chalice-shaped flowers, 7-8 inches across, with 9 tepals which are white with a pink flush, deepening to red at the base (Treseder, *Magnolia* p. 148).' (*M. denudata* x *M. sargentiana* var *robusta*)

▣ Cultivar list and origin by Luc De Jonge (653 taxa)

NAME	PARENTS	REGISTERED	YEAR	MEMO
AASHILD KALLEBERG	obovata x sieboldii	Aashild Kalleberg		3 sepals 8-9 petals pure white flowers stamens deep red
ADRAL	soulangeana	Ralph Smith	1964	9 tepals purplish-red outside whitish inside
ADVANCE	soulangeana Burgundy x Vulcan	Vance Hooper		large goblet shaped clear lilac purple upright flowers 9 rounded tepals
AFTER ELIZABETH	soulangeana type	Tom Krenksky	2011	flowers similar soulangeana with distinct purplish red marking outer tepals
AIA	salicifolia W.B. Clarke seedling	Jose Almandoz	2005	
AIKEN COUNTY	virginiana var australis	Chuck Weeks		unusually glossy foliage with silvery underside
ALBA SUPERBA	soulangeana	Van Geest	1966	fragrant creamy white flowers with basal blotches of pink-purple
ALBATROS	cylindrica x veitchii Peter Veitch	Peter Borlase	1985	11 floppy tepals white inside flushed with green towards base outside
ALEX	lennei x sprengeri Diva	Maurice Foster		columnar flowers like soulangeana shaded a good pink at the base
ALEXANDRINA	soulangeana	Cels	1825	9 tepals white flushed rose purple darker purple lines three quarters tepal
ALIXEED	stellata seedling	Bill Briska		light pink stellata upright tepals highly scented
ALLISON	acuminata			old tree in Tolono
ALLSPICE	doltsopa x figo			leathery green leaves fuzzy brown flowerbuds creamy white fragrant &
ALYCIA	J.C. Williams x Vulcan (or Apollo)	Ian Baldick		rich reddish purple
AMABILIS	soulangeana	Baumann nursery	1965	large cream white flowers with minimal pink blush backside tepals
AMBER	Yellow Bird x Brooklynensis	Ian Baldick		large amber colored flowers
AMBROSE CONGREVE	campbellii var alba			claret-red flowers
AMBROSIA	DC4 acumin x brookl Eva Maria x brookl # 14:	Ian Baldick	2004	pointed barium yellow petals shaded green centrally striped beetroot yellow
AMETHYST FLAME	liliiflora x Vulcan siste	Vance Hooper		compact grower violet colouring
ANDRE LEROY	soulangeana		1952	dark pink to purple flowers
ANGEL MIST	officinalis x (obovata x sieboldii) =wieseneri	Dennis Ledvina		12 creamy white tepals that maintain excellent form
ANGELICA	open pol cylindrica x soul Sawada's Pini	Dennis Ledvina		9 round, cup shaped tepals pure white bowl shaped flowers
ANLOU	acuminata x Elizabeth	PdS	2002	9 tepals very green yellow upright tree
ANN	liliiflora Nigra x stellata rosea	Francis De Vos	1955	6-8 tepals red purple at the base paling toward apex
ANN JENKINS	camp x camp mollicomata	Fraser Jenkins		dark purple flowers
ANN ROSSE	demodata x sargentiana robusta		1960	9 pointed tepals pale pink outside pure white within bright red stamens
ANNA	acuminata x sargentiana robusta x 'Vulcan x Apollo' ?	Sven Lennartsson		semi double flower 10-16 tepals overall impression creamy white
ANN'S DELIGHT		?		improved Vulcan a root stock growth
ANTICIPATION	cylindrica open pollinate	August Kehr	1999	white flowers 25.5 cm diameter same parentage as Albatros
ANTJE ZANDEE (cherry lady)	black tulip x deep purple dream	Gotschalk		innen und aussen kirschrot-purpur
ANYA	iolanthe x vulcan or apollo	lawrence NZ		deep red flower shape of sprengeri Diva
APOLLO	liliiflora Nigra x camp mol Lanard	Felix Jury		large star shaped deep rose pink flowers
APRICOT BRANDY (pink)	acuminata F.M. x sprengeri Diva	Phil Savage		upright peach colored flowers pink at the base flushing to creamy yellow at the tips
ARABIAN NIGHTS	sayonara x vulcan	Stuart Robertson	2000	
ARCHALIE	demodata x soul Grace Mc Dade			huge heavy textured white flowers
ARCHANGEL	sprengeri Diva x soulangeana Brozzon	Phil Savage		flowers creamy ivory base with red lavender flaring streaking green tints
ARCTIC STAR	woodsman x toro	Jedvina Klein	2013	
ARNOLD DANCE	sargentiana robusta x camp mollicomata	Burmoose		large rich pink flowers
ASIAN ARTISTRY	demodata x sprengeri Diva			9-12 tepals white inside stained deeper red-purple base tepals fragrance of Diva tree like grow
ATHENE	soul Lennei Alba x Mark Jur	Felix Jury		white with unusual violet pink base

Section Magnolia



Magnolia grandiflora

Needs no introduction

Hardy versatile, happy both in Mediterranean climate (Huntingdon) and maritime climate, possibly on a wall here at Lanhydrock, in the UK.



Magnolia virginiana, vigorous, healthy, adaptable,
From the east coast of North America all the way from Cuba to Massachusetts.
var. australis here at Bellingrath Garden , Mobile, Alabama).



M. virginiana, along water ways , even brackish as here again in Bellingrath Garden, (Alabama) with *Liquidambar styraciflua*. (Note enlarged stump on both)











Magnolia 'Maryland' (*grandiflora* x *virginiana*) - 84689-spi-201



Section Gwillimia

Only one hardy species in Western Europe: *Magnolia delavayi*,

Here in Kunming , Sichuan (at Fragrant Hills)

And in the UK (High Beeches), on a carpet of bluebells (*Hyacinthoides non-scripta*)



And in Ireland, on the occasion of a previous MSI visit (Birr Castle)

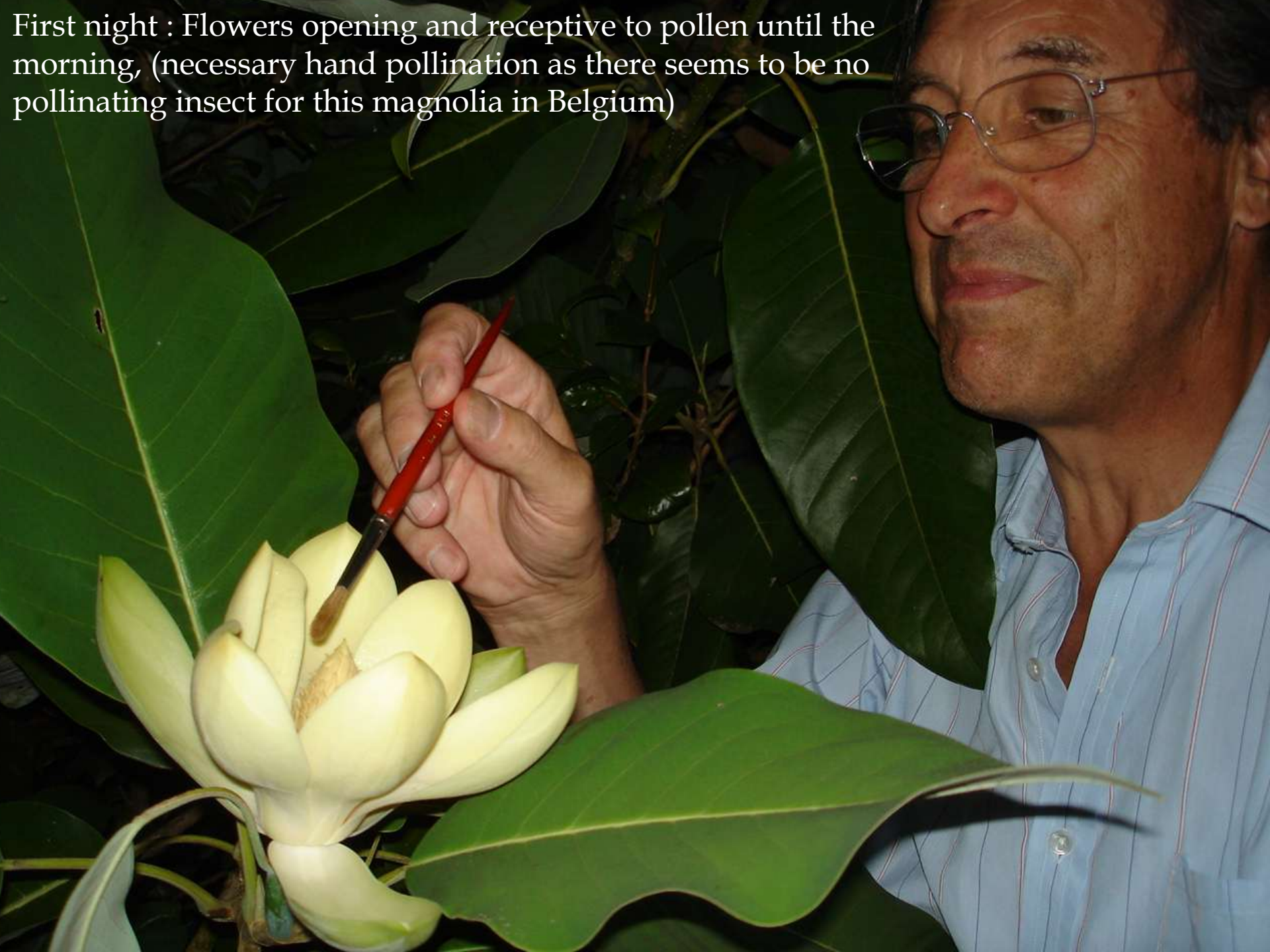








First night : Flowers opening and receptive to pollen until the morning, (necessary hand pollination as there seems to be no pollinating insect for this magnolia in Belgium)



Morning of the second night: pollen collected for fertilizing the next opening flower.



Section Manglietia

Mainly Asiatic plants, from the Himalaya to China, Vietnam, Laos, Borneo. Previously in the genus *Manglietia*, these subtropical plants are now merged into *Magnolia*.

Several species are hardy in zone 7 and 8 :

Magnolia conifera, decidua, insignis, fordiana, yuyuanensis.

There is a lot to play with in this section and *M. insignis* seems particularly promising for the hybridizer.

I would love to see a specialized collection on the Atlantic coast of the UK, France or Northern Spain to hold and evaluate all these new species and their hybrids.

We have one hardy plant in the section at Arboretum Wespelaar: *M. decidua*, the only deciduous member of the section. It has recently flowered at Kunming Botanical Garden. It will be interesting to cross it with other members of the section in particular *M. insignis*.





Magnolia decidua first flowering in cultivation, at
Kunming BG (Photo Sun Wei-Bang)

Magnolia insignis, Zibenshan National Park, Yunnan, coppiced over and over again, but growing strongly





Magnolia insignis (Zibenshan)



Magnolia insignis (Caerhays garden)





Magnolia insignis

(Photo Dick Figlar)



Magnolia sieboldii x *M. insignis*
(cross and photo by Dick Figlar)

Section Rhytidospermum

subsectiion Rhytidospermum

Close to the previous subsection (*Manglietia*)
also hybridized with the following (*Oyama*)

Once again many possibilities for good crosses.

Four species, found on two continents !

M. tripetala on the East coast of North America

M. obovata in Asia (China, Korea, Japan)

M. officinalis and *officinalis* var. *biloba* in China

M. rostrata in China



M. tripetala



M. tripetala

Magnolia x thompsoniana
(virginiana x tripetala)
AW 86569-pds-201 –
2008.0601



Magnolia 'Charles Coates'
(sieboldii x tripetala)
AW 84545-hil-202 -



M. 'Charles Coates'

M. tripetala



Magnolia obovata (syn. *hypoleuca*)





M. obovata (syn. *hypoleuca*)





Magnolia officinalis and *officinalis* var. *biloba*

This is a curious association: there is more difference between var. *biloba* and *officinalis* than between *officinalis* and *obovata*

M. officinalis seems intermediate between *obovata* and var. *biloba* and could be a hybrid as mentioned by Dr. Stephen Spongberg. And var. *biloba* would then be the species.

It is most difficult to identify the original geographic distribution as all these magnolias have been largely cultivated the bark being used in traditional Chinese medicine.

Three close taxa and a hybrid compared



obovata

officialis var. biloba

officialis

tripetala

(officialis x obovata) x tripetala



Wind in the leaves of *Magnolia officinalis* (Damao shan)

Magnolia officinalis (Damaoshan, China)







Magnolia officinalis var. *biloba*

In search of a bilobed gigantic *M. wilsonii* ... by crossing it with *M. officinalis* var. *biloba*







Magnolia (wilsonii x officinalis var. biloba) -
05026-pds- 94 - 2011.0424



Magnolia rostrata is of limited hardiness. It survives in Southern UK (Nymans) and thrives on the West coast of Scotland.(Glenarn)





Section Rhytidospermum

Subsection Oyama

Three or Four species, all Asiatic, and closely related:

- *M. sieboldii* (Japan, Korea and Northern China)
- *M. wilsonii* (and *M. sinensis*) in China
- *M. globosa* in the Himalaya

They are charming short lived shrubs, easily crossed with species of the *Rhytidospermum* subsection, and probably *Manglietia* subsection.

NB: *Magnolia sinensis*, is in fact very different from *Magnolia sieboldii*. It has been treated as a variety of *sieboldii* , but it is much closer to *wilsonii*. Flowers and fruit of *sinensis* are identical to those of *wilsonii*; only the leaf and colour of the shoot are in anyway different.



Magnolia wilsonii (horizontal flowers)



Magnolia sieboldii (vertical flowers)



On *M. wilsonii* the one year shoot is dark brown,
On *M. sinensis* the shoot is pale beige



There are numerous inter-specific hybrids between members of both *Oyama* and *Rhytidospermum* subsections.

There are many opportunities for crosses and selections. And they deserve a specialized collection of their own.

M x wieseneri (*obovata x sieboldii*) and *M. 'Nimbus'* (*obovata x virginiana*), should be in every collection. They are among the most scented of magnolias.



M. x wieseneri



M. 'Nimbus'





Magnolia x wieseneri (obovata x sieboldii)





**Magnolia x wieseneri
(original cross)**

**Magnolia x wieseneri 'Aashild Kalleberg'
possibly tripetala hybrid x sieboldii**

Section Auriculata

Magnolia fraseri and *fraseri* var. *pyramidata* are both endemic to the eastern United States. Both will become large trees. They have superficial characteristics in common with *M. macrophylla* (large leaves with auricled base), but are really in very different sections.





Magnolia fraseri (S. Appalachians, South Carolina) –
(Arboretum Wespelaar 03250-wld-203)



Pollen harvested in West Virginia
by Kevin Parris and Jack
Johnston
May 2010





WV FRASERI 5/5 84

Transferred to insignis MGA 355
in the Figlar collection by Kevin
Parris the following evening.

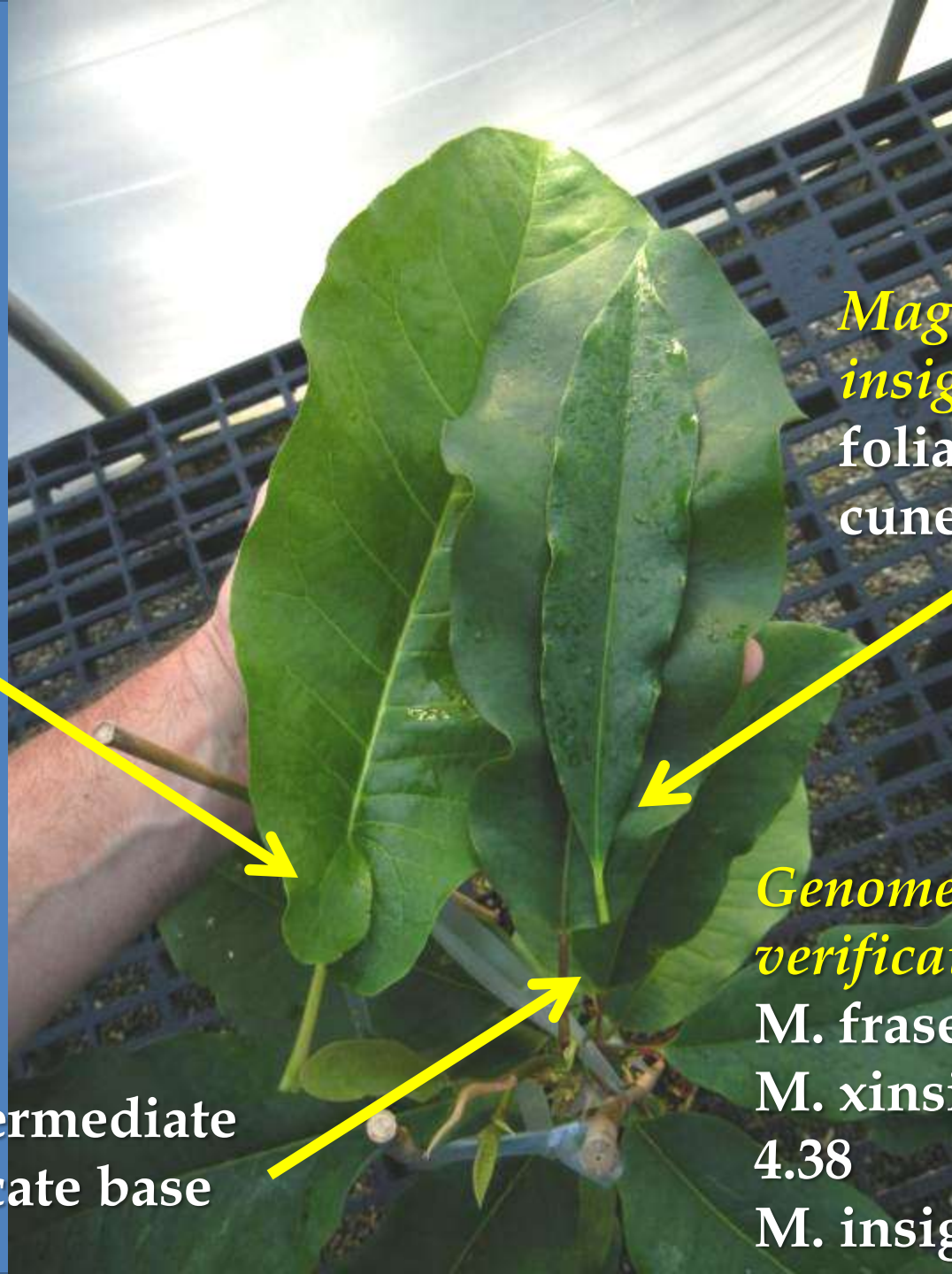


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Magnolia fraseri-

Large,
obovate
foliage w/
auriculate
base



Magnolia insignis- Narrow
foliage w/
cuneate base

Hybrid- intermediate
size w/ truncate base

*Genome size
verification-*

M. fraseri 2C = 3.82

M. xinsigneri 2C =
4.38

M. insignis 2C = 4.87

Section Macrophylla



Magnolia macrophylla, a large tree,

- as an isolated specimen (Henry Foundation, Gladwyn, Pa)
- or as a forest tree (Barnes Arboretum, Philadelphia, Pa)





Magnolia macrophylla



Subgenus Yulania

Section Yulania

subsection Yulania

The subsection *Yulania* contains most of the great early flowering deciduous magnolias which are well known and loved by the horticultural world.

All originate in Asia

They can be listed in four basic groups:

1. *campbellii*, *dawsoniana*, *sargentiana*, *sprengeri*, *sprengeri* var. *elongata*
2. *denudata*, *liliiflora* (and their hybrid *x soulangeana*), *cylindrica*
3. *kobus*, *stellata*, *salicifolia* (the old *Buergeria* group)
4. *amoena*, *biondii*, *zenii* (precocious flowering trees)

1 - *campbellii*, *sprengeri*, *sprengeri* var. *elongata*, *dawsoniana*, *sargentiana*

These are the 5 giant flowered magnolias of the Himalaya and South Western China

Unfortunately the plants in this group are not very hardy In Europe they are mostly grown in the South and West of the British Isles. They should do well on the Atlantic coast of Spain and Portugal.

Magnolia campbellii , is one of the giants of the Himalayas;
A tree in Bhutan (Gante Gompa) has been measured at 4.50 m girth x 25 m height.
There are many variations from west to east: from var. *alba*, to var. *mollicomata*





Magnolia campbellii var. *alba*, 3 000 – 3 200 meters, Bhutan



Magnolia campbellii var. *alba* , with *Rhododendron arboreum* (on the Dochu La, 3200 m, Bhutan)

Magnolia campbellii var. Alba
DochuLa, Bhutan - April 1985 5



Pure whites, late flowering and with 12 large tepals based on *Magnolia campbellii* var. *alba*, *denudata*, *sprengeri* var. *elongata*, *cylindrica* should produce great collections



M. 'Leda' (*campbellii* var. *alba* x 'Pegasus')



Magnolia 'Sybille' ('White Giant' x 'Leda')





Magnolia campbellii Charles Raffill Group



Magnolia campbellii var. *mollicomata* 'Borde Hill' -

Magnolia 'Sara Koe' ('Galaxy' x
mollicomata) - 95046-pds-206 -



Magnolia 'Sara Koe' ('Galaxy' x mollicomata) - 95046-pds-206 -



Magnolia 'Sara Koe' ('Galaxy' x mollicomata) - 95046-pds-206 -



Magnolia 'Hot Lips' (mollicomata x)-
87307-pds-135 - 2000.0404



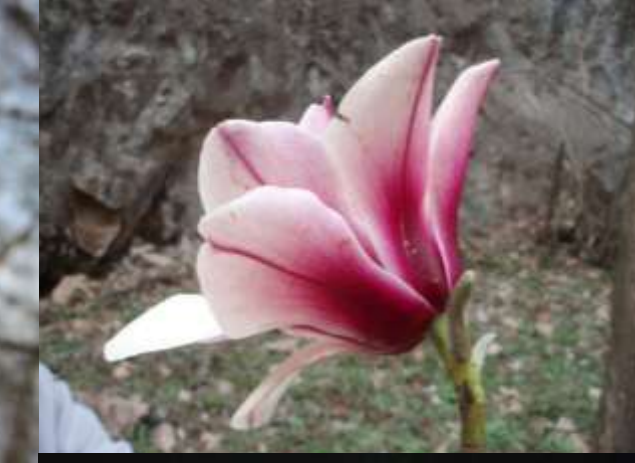
Magnolia 'Hot Lips' (mollicomata x)-
87307-pds-135 - 2000.0404



Magnolia sprengeri was introduced into cultivation by Wilson under Wilson 688. Out of that seed lot came 7 white flowering plants (var. *elongata*) and one extraordinary pink flowered tree which has been given the cultivar name 'Diva'.



As seen from the next slide, there seems to be in the wild, a complete continuum of forms and colours, so that it will be near impossible to set a defining criteria between both taxa (Erland Ejder to RHS Woody Plant Committee 10 April 2012)



All photographs courtesy of Erland Ejder , RHS, April 2012



Magnolia sprengeri 'Copeland Court' - 91229-eis-216 -



**var. sprengeri
85053-eis-216 -**



**Magnolia sprengeri var. sprengeri
84329-esv-207 -**



Magnolia 'Pegasus' (cylindrica x denudata) - 85087-eis-203 -



Magnolia sprengeri var. elongata - 91235-eis-204 -



**Magnolia 'Bjuv'
(cylindrica x)
90033-pds-204 -**



**Magnolia cylindrica
(Holden 87-86, S. Anhui, China)
89474-wld-137 -**



**cylindrica (Arnold
652-90) -
AW - 92021-arn-203**



**Magnolia cylindrica
(Holden 87-86, S. Anhui, China)
89473-wld-134 -**

Magnolia sprengeri var. *elongata* –
Ex Foping Nature reserve, at Morris Arboretum
Photograph by A. Aiello





Magnolia sprengeri var. *elongata*



Magnolia 'David Clulow' x sprengeri var. elongata - 98137-pds- 29 - 2006.0421









Magnolia 'Joli Pompon' ('David Clulow' x *sprengeri* var. *elongata*)



Magnolia 'Joli Pompon' ('David Clulow' x *sprengeri* var. *elongata*)



Magnolia ('David Clulow' x sprengeri var. elongata)
- 98137B -pds- 29



Magnolia ('David Clulow' x sprengeri var. elongata) –
98137B -pds- 29



Magnolia dawsoniana



Magnolia sargentiana



Magnolia dawsoniana



Magnolia sargentiana var. *robusta*



Magnolia 'Purple Breeze' (sargentiana hybrid ?) - 84323-esv-206 -



Magnolia 'Purple Breeze' (sargentiana hybrid ?) - 84323-esv-206 -



Magnolia 'Purple Breeze' (sargentiana hybrid ?) - 84323-esv-206 -

2 - Magnolia denudata, liliiflora (x soulangeana), cylindrica



M. denudata



M. liliiflora



M. x soulangeana



M. cylindrica



Magnolia 'Milky Way' ('Lennei Alba' x 'Mark Jury') - 05289-rut-473 -

Magnolia 'Atlas' ('Mark Jury' x 'Lennei') -
94119-spi-174 -



Magnolia 'Atlas' ('Mark Jury'
x 'Lennei') - 94119-spi-174 -



Deep reds and purples will be in demand. Again evaluation, improvements and conservation will be needed.



Magnolia liliiflora



Magnolia campbellii var. *mollicomata*



Magnolia 'Black Tulip'
('Vulcan' x 'Iolanthe')



Magnolia 'Vulcan'
(*liliiflora* H
x 'Lanarth')



Magnolia 'Black Tulip' ('Vulcan' x 'Iolanthe') - 02412-div-164 -



Magnolia 'Vulcan' (liliiflora x mollicomata 'Lanarth')



Magnolia 'Margaret Helen'
(liliiflora x campbellii mollicomata)
05288-rut-463 - 2014.0401



Magnolia 'Shirazz' (denudata x 'Vulcan') - 08207-bur-164 -



‘(Black Tulip’ x ‘J.C. Williams’)



'(Black Tulip' x 'J.C. Williams')



‘(Black Tulip’ x ‘J.C. Williams’)



2014 AMBITIEUS WESPELAAR TOEKENNING
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ETUM WESPELAAR

Magroha 'AUNE LEITNER'
'Black Tulip' x 'r.c. WILLIAMS'

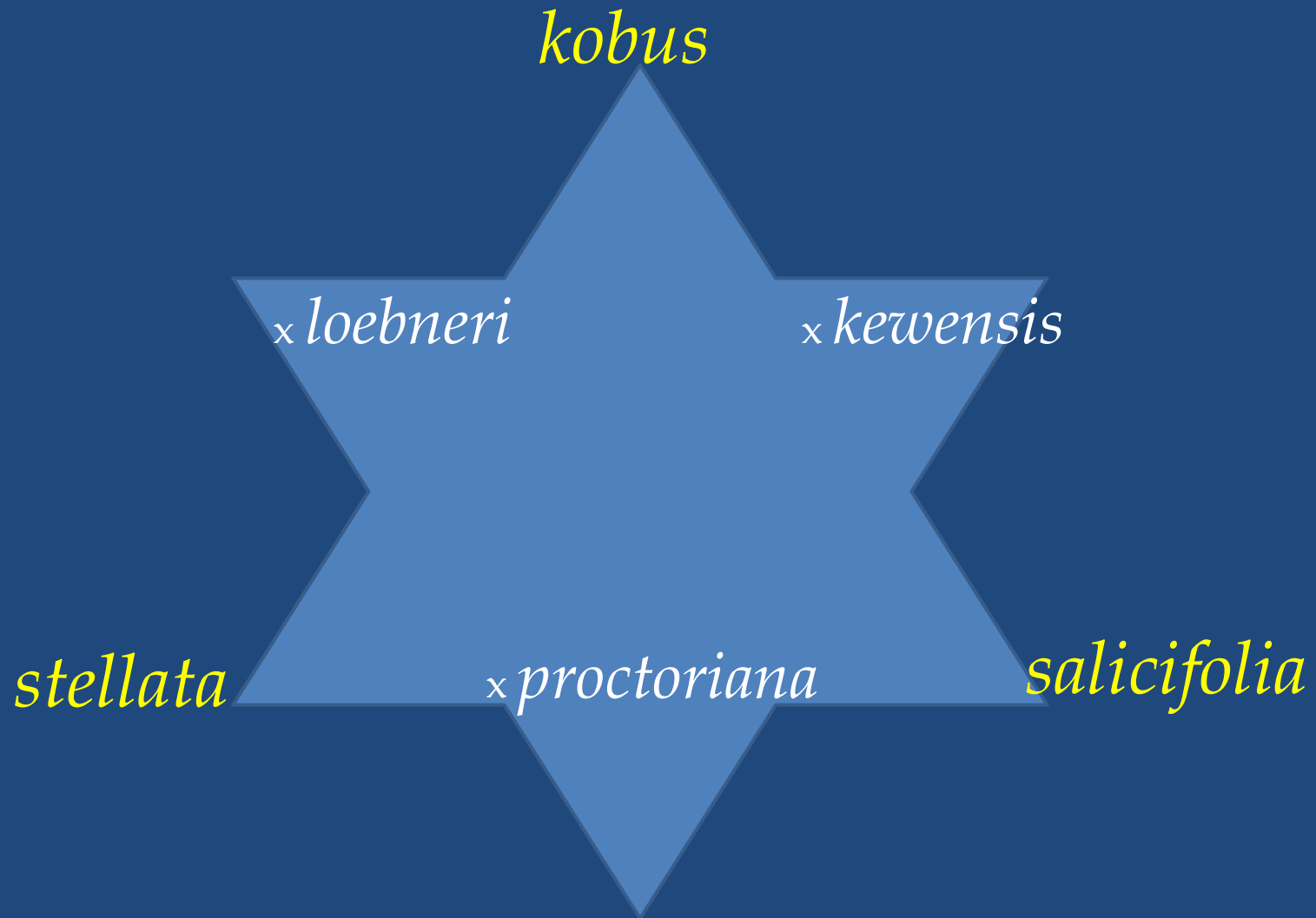




Magnolia 'Strawberry Fields' by Ian Baldick , (New Zealand)
www.sceneoutside.co.nz ('Spectrum' x 'Vulcan')

3 – The Buergeria group

M. kobus, stellata, salicifolia and hybrids





Magnolia kobus



Magnolia stellata

Magnolia salicifolia



Magnolia salicifolia

Magnolia 'Elegance'
('Diva' x 'Waterlily') -
10103-rut-415 -



4 - *Magnolia amoena*, *biondii* and *zenii*

I have placed, for my own convenience, these three species in the fourth group. They are all very precocious flowering trees.

Magnolia biondii, is probably the best known, wonderfully scented.



M. amoena



M. biondii



M. zenii

Subsection Tulipastrum

One species *Magnolia acuminata* and one variety, *var. subcordata*, the only species contributing the yellow colour to hardy deciduous hybrid magnolia





Magnolia acuminata var. *subcordata*



'Lois'

'Butterbowl'

'Maxine Merrill'

'Suntown'

'Green Bee'

'Olivia'

'Daphne'

'Solar Flair'

'Anilou'

'Honey Flower'

**acuminata x
'Miss Honey Bee'**

'Honey Liz'



Magnolia 'Lois' (acuminata x (acuminata x denudata)) - 04390-ru



Magnolia 'Butterbowl' ('Yellow Bird' x 'Sundance') - 95416-pds-268



Magnolia 'Honey Liz' ('Miss Honeybee' x 'Elizabeth') - 03217-rut-268



Magnolia 'Honey Liz' ('Miss Honeybee' x 'Elizabeth') - 03217-rut-268



Magnolia 'Banana Split'



Magnolia 'Daphne'



Magnolia 'Greenbee'



Magnolia 'Olivia'

Section *Michelia*

Subsection *Michelia* :

Magnolia cavaleriei, -var. *platypetala*, *laevifolia*, *doltsopa*, *ernestii*, *foveolata*, *maudiae*

All species in section *Michelia* are evergreen. Few are hardy.

- *Michelia laevifolia* is perfectly hardy and must be planted in full sun,
- *Magnolia maudiae* and *doltsopa* are well established in Cornwall.
- *Magnolia cavaleriei* var. *platypetala* is hardy in Western Canada, in zone 6 and has done well at Bokrijk arboretum!

Magnolia laevifolia





Not too floriferous in woodland conditions



Magnolia cavaleriei var. *platypetala* - Pickens S.C., USA - (Photo Dick Figlar)



Magnolia doltsopa – Caerhays Castle, Cornwall GB - 2008.0323



Magnolia 'Jack Fogg' (*doltsopa* x *figo*)

Subgenus Gynopodium

Magnolia nitida, not hardy
Whereas *M. lotungensis* is
hardy in zone 6.



Magnolia nitida - UK, Cornwall, Caerhaeys C.