



Ghent University Botanical Garden

## THE **Magnoliaceae**

*Liriodendron* L.

*Magnolia* L.

**VEGETATIVE KEY TO SPECIES IN CULTIVATION**

**Jan De Langhe**

(1 October 2014 - 28 May 2015)

## Vegetative identification key.

### Introduction:

This key is based on vegetative characteristics, and therefore also of use when flowers and fruits are absent.

- Use a 10x hand lens to evaluate stipular scars, buds and pubescence in general.
- Look at the entire plant. Young specimens, shade, and strong shoots give an atypical view.
- Beware of hybridisation, especially with plants raised from seed other than wild origin.

**Taxa treated in this key: see page 10.**

**Questionable/frequently misapplied names: see page 10.**

**Names referred to synonymy: see page 11.**

### References:

- JDL herbarium
- living specimens, in various arboreta, botanic gardens and collections
- literature:

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[Plantentuin Universiteit Gent](#)

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KEY TO GENERA

Lamina broader than long AND apex truncate to widely V-shaped. .... *Liriodendron*

Lamina longer than broad AND apex obtuse to acuminate, or emarginate to bi-lobed. *Magnolia*

genus *Liriodendron*:

Emerging foliage green AND lamina LS pubescent on midvein and secondary veins, papillae absent (10x LENS). .... *L. tulipifera*

Emerging foliage coppery to dark brown AND lamina LS glabrous on midvein and secondary veins, papillae present (10x LENS). .... *L. chinensis*

genus *Magnolia*:

KEY TO GROUPS:

- 01 a Plant deciduous. .... 02
  - b Plant evergreen. .... 06
- 02 a Lamina base predominantly (sub-)cordate to auriculate. .... **GROUP A1** see page 3
  - b Lamina base cuneate to rounded. .... 03
- 03 a Lamina LS secondary veins >15/side. .... **GROUP A2** see page 3
  - b Lamina LS secondary veins predominantly ≤15/side. .... 04
- 04 a Petiole stipular scar 1/2-4/5 petiole length. .... **GROUP A3** see page 4
  - b Petiole stipular scar ≤1/2 petiole length. .... 05
- 05 a Lamina predominantly obovate or oblanceolate to obovate. .... **GROUP A4** see page 4
  - b Lamina elliptic, or variable from ovate to obovate and elliptic. .... **GROUP A5** see page 5
- 06 a Petiole stipular scar ≥2/3 petiole length at least in part of leaves. .... **GROUP B1** see page 6
  - b Petiole stipular scar <1/2 petiole length. .... 07
- 07 a Petiole stipular scar >5 mm, at least in part of the leaves. .... **GROUP B2** see page 6
  - b Petiole stipular scar ≤5 mm or indiscernible. .... 08

- 08 a Lamina LS tertiary vein pattern obscure, even with 10× LENS. .... **GROUP B3** see page 7  
 b Lamina LS tertiary vein pattern reticulate and clearly visible with 10× LENS. .... 09
- 09 a Lamina LS midvein glabrous or pubescent with whitish to greyish hairs (10× LENS). ..... **GROUP B4** see page 8  
 .....  
 b Lamina LS midvein pubescent with yellowish brown to rusty hairs (10× LENS). ..... **GROUP B5** see page 9  
 .....

**GROUP A**  
 Plant deciduous:

**GROUP A1**  
 Lamina base (sub-)cordate to auriculate:

- Terminal bud glabrous (10× LENS). Lamina LS green to greyish green. .... ***M. fraserii***
- Lamina midvein length 25-40(-60) cm. .... ***M. fraserii* var. *fraserii***
  - Lamina midvein length predominantly ≤25 cm. .... ***M. fraserii* var. *pyramidata***
- Terminal bud pubescent (10× LENS). Lamina LS whitish to glaucous green. .... ***M. macrophylla***
- Fruit 10-15 cm long, carpels >70. .... ***M. macrophylla* var. *dealbata***
  - Fruit 3-10 cm long, carpels >50. .... ***M. macrophylla* var. *macrophylla***
  - Fruit 4-5 cm long, carpels <50. .... ***M. macrophylla* var. *ashei***

**GROUP A2**  
 Lamina LS secondary veins >15/side:

- 01 a Lamina apex predominantly bi-lobed. .... ***M. officinalis* var. *biloba***  
 b Lamina apex acute to (slightly) emarginate. .... 02
- 02 a Lamina LS pubescent with rusty hairs (10× LENS). .... ***M. rostrata***  
 b Lamina LS glabrescent or pubescent with whitish hairs (10× LENS). .... 03
- 03 a Lamina apex predominantly truncate to emarginate. .... ***M. officinalis***  
 b Lamina apex acute to obtuse. .... 04
- 04 a Lamina predominantly: with largest width in the middle, apex acute and base attenuate to cuneate. .... ***M. tripetala***  
 b Lamina predominantly: with largest width in or above the middle, apex acute to obtuse and base cuneate to obtuse. .... ***M. obovata***

**GROUP A3**

Petiole stipular scar 1/2-4/5 petiole length:

- 01 a Lamina LS silvery glaucous. .... ***M. virginiana***
- b Lamina LS glaucous to yellowish-greenish glaucous. .... 02
- 02 a Petiole stipular scar predominantly <2/3 petiole length. .... 03
- b Petiole stipular scar very long:  $\geq 4/5$  petiole length. .... 04
- 03 a Youngest shoot internodes and petiole glabrous, lamina LS glabrous or inconspicuously puberulent (10× LENS), bruised leaf with lemon- or anise-like scent. .... ***M. salicifolia***
- b Youngest shoot internodes, petiole and lamina LS pubescent with long silky hairs (10× LENS), bruised leaf without such scent. .... ***M. sinensis***
- 04 a Lamina LS predominantly pubescent with rusty hairs (10× LENS). .... ***M. globosa***
- b Lamina LS pubescent with beige to yellowish hairs (10× LENS). .... ***M. wilsonii***

**GROUP A4**

Petiole stipular scar  $\leq 1/2$  petiole length.  
Lamina predominantly obovate or oblanceolate to obovate:

- 01 a Lamina base rounded, LS venation and petiole appressed pubescent with brownish and whitish hairs (10× LENS). .... ***M. sieboldii***
- b Lamina base cuneate, LS venation and petiole glabrescent or pubescent with whitish hairs (10× LENS). .... 02
- 02 a Lamina LS secondary veins 13-15/side. .... ***M. sargentiana* var. *robusta***
  - Lamina L/W  $>2/1$  or  $\pm 2/1$ . .... ***M. sargentiana* var. *sargentiana***
  - Lamina L/W  $<2/1$ . .... ***M. sargentiana* var. *robusta***
- b Lamina LS secondary veins  $<13$ /side. .... 03
- 03 a Lamina LS tertiary veins elevated to strongly elevated (10× LENS). .... 04
- b Lamina LS tertiary veins not or slightly elevated (10× LENS). .... 05
- 04 a Lamina US strongly reticulate, LS tertiary veins predominantly percurrent. .... ***M. kobus***
- b Lamina US secondary veins impressed and less strong reticulation, LS tertiary veins not or only a few percurrent. .... ***M. zenii***
- 05 a Lamina oblanceolate, L/W  $>2/1$ . Petiole  $\leq 1$  cm. .... ***M. stellata***
- b Lamina obovate L/W  $<2/1$ . Petiole 1-3 cm. .... 06

- 06 a Lamina LS reticulation weak with tertiary vein areoles between two secondary veins relatively large, not or slightly visible, in +/- 5 rows (10× LENS). ..... *M. denudata*
- b Lamina LS reticulation strong with tertiary vein areoles between two secondary veins relatively small, obvious and numerous, in +/- 10 rows (10× LENS). ..... 07
- 07 a Lamina base always cuneate to (sub-)attenuate. .... *M. dawsoniana*
- b Lamina base cuneate to broadly cuneate and (sub-)obtuse. .... *M. sprengeri*
- Lamina narrowly obovate to obovate [flower creamy white]. .... *M. sprengeri* var. *elongata*
  - Lamina obovate to broadly obovate [flower pink]. .... *M. sprengeri* var. *sprengeri*

**GROUP A5**

Petiole stipular scar  $\leq 1/2$  petiole length.  
Lamina elliptic, or variable from ovate to obovate and elliptic:

- 01 a Lamina base (obliquely) cuneate to attenuate or decurrent. .... *M. liliiflora*
- b Lamina base more variable, cuneate to rounded at least in part of leaves. .... 02
- 02 a Lamina LS secondary veins 13-15/side. .... *M. sargentiana* var. *robusta*
- b Lamina LS secondary veins  $\leq 13$ /side. .... 03
- 03 a Lamina LS tertiary vein network pattern obscured even with 10× LENS. .... *M. decidua*
- b Lamina LS tertiary vein network pattern at least visible with 10× LENS. .... 04
- 04 a Lamina LS secondary veins not or slightly elevated, bruised leaf with lemon- or anise-like scent. .... *M. salicifolia*
- b Lamina LS secondary veins clearly elevated, bruised leaf without such scent. .... 05
- 05 a Petiole length variable, 30-50 mm, at least in part of the leaves. .... 06
- b Petiole predominantly  $\leq 25$  mm. .... 07
- 06 a Lamina L/W predominantly  $>2/1$ , texture thick, (sub-)coriaceous. .... *M. campbellii*
- Youngest shoot internodes glabrous. .... *M. campbellii* var. *campbellii*
  - Youngest shoot internodes pubescent. .... *M. campbellii* var. *mollicomata*
- b Lamina L/W predominantly  $<2/1$ , texture thin, membranaceous. .... *M. acuminata*
- Current and previous year shoot glabrous (10× LENS). .... *M. acuminata* var. *acuminata*
  - Current and previous year shoot pubescent (10× LENS). .... *M. acuminata* var. *subcordata*
- 07 a Lamina US secondary and tertiary veins conspicuously impressed. .... *M. kobus*
- b Lamina US secondary veins and tertiary veins not to slightly impressed. .... 08
- 08 a Lamina LS secondary veins  $<9$ /side, apex (sub-)obtuse to acute. .... *M. cylindrica*
- b Lamina LS secondary veins  $>10$ /side, apex acute to acuminate. .... *M. biondii*

**GROUP B**

Plant evergreen, leaves present on current year and on second year shoot.

**GROUP B1**

Petiole stipular scar  $\geq 2/3$  petiole length:

- 01 a Lamina LS secondary veins not or slightly elevated, tertiary veins not or slightly visible to the naked eye. .... *M. virginiana*
- b Lamina LS secondary veins strongly elevated, tertiary veins visible to the naked eye. .. 02
- 02 a Petiole >5 cm. Lamina thick, apex obtuse, base rounded. .... *M. delavayi*
- b Petiole <5 cm. Lamina thin, apex acuminate to caudate, base (broadly) cuneate.  
    ..... *M. champaca*

**GROUP B2**

Petiole stipular scar >5 mm, at least in part of the leaves:

- 01 a Lamina LS surface pubescent (10× LENS). .... 02
- b Lamina LS surface glabrous (10× LENS). .... 06
- 02 a Lamina LS glaucous (at least initially). .... *M. floribunda*
- b Lamina LS green or brown. .... 03
- 03 a Lamina LS secondary veins 15-20/side. .... *M. lanuginosa*
- b Lamina LS secondary veins <15/side. .... 04
- 05 a Lamina texture leathery, US secondary venation not impressed. .... *M. kwangtungensis*
- b Lamina texture papery, US secondary venation impressed. .... *M. odora*
- 06 a Lamina large 20-30 × 10-13 cm. .... *M. grandis*
- b Lamina smaller, width predominantly <10 cm. .... 07
- 07 a Lamina LS glaucous green. .... *M. sapaensis*
- b Lamina LS green. .... 08
- 08 a Lamina LS secondary vein forks and tertiary venation completely obscured and even not visible with a 10× LENS. .... *M. forrestii*
- b Lamina LS secondary vein forks and tertiary venation visible, at least in part with a 10 × LENS. .... 09

- 09 a Lamina US tertiary venation and vein areoles obscured (10× LENS). ..... 10  
 b Lamina US tertiary venation and vein areoles clearly visible (10× LENS). .....11
- 10 a Lamina LS tertiary venation and vein areoles slightly visible to obscured (10× LENS).  
 ..... *M. duclouxii*  
 b Lamina LS tertiary venation and vein areoles clearly visible (10× LENS). ..... *M. hookeri*
- 11 a Lamina apex acute to abruptly short acuminate [peduncles slender, pendulous]. *M. conifera*  
 b Lamina apex +/- gradually acuminate to caudate [peduncles thick, spreading]. ... *M. insignis*

**GROUP B3**

Petiole stipular scar ≤5 mm or indiscernible.  
 Lamina LS tertiary vein network pattern obscure, even with 10× LENS:

- 01 a Petiole with stipular scar well developed, 2-5 mm (10× LENS). ..... 02  
 b Petiole with stipular scar indiscernible, <2 mm (10× LENS). ..... 04
- 02 a Petiole 2-6 mm. Lamina LS at least initially densely pubescent with rusty hairs (10× LENS). ..... *M. figo*  
 - Flower white to yellowish. .... *M. figo* var. *figo*  
 - Flower purplish. .... *M. figo* var. *crassipes*  
 b Petiole 6-20 mm. Lamina LS glabrescent or slightly pubescent with rusty hairs (10× LENS). ..... 03
- 03 a Lamina L/W ≥5/1. .... *M. yuyuanensis*  
 b Lamina L/W 2/1-4/1. .... *M. fordiana*
- 04 a Plant at least in part (shoot, bud, petiole or lamina LS midvein) pubescent with brown to rusty hairs. .... 05  
 b Plant glabrous (10× LENS). ..... 06
- 05 a Current year shoot very slender Ø ≤2 mm. Lamina thin leathery, 6-14 × 2-3 cm, apex acute to acuminate. .... *M. compressa*  
 b Current year shoot slender Ø 3-4 mm. Lamina leathery 7-18 × 3-5 cm, apex acute to short acuminate. .... *M. martini*
- 06 a Lamina LS secondary vein end curving, often visible with 10× LENS. .... *M. nitida*  
 b Lamina LS secondary vein end obscured, not or slightly visible with 10× LENS. .... 07
- 07 a Lamina midvein length 10-20 cm, apex point sharp. .... *M. yunnanensis*  
 b Lamina midvein length ≤12(-14) cm, apex point obtuse to sharp. .... *M. lotungensis*



GROUP B4

Petiole stipular scar  $\leq 5$  mm or indiscernible  
Lamina LS tertiary vein pattern reticulate and clearly visible with 10 $\times$  LENS.  
Lamina LS midvein glabrous or pubescent with whitish to greyish hairs (10 $\times$  LENS):

- 01 a Petiole scar obvious, predominantly 2-5 mm. .... 02  
b Petiole scar small or indiscernible, <2 mm. .... 04
- 02 a Secondary veins 16-23/side. Lamina LS pubescent with long spreading hairs (10 $\times$  LENS).  
..... *M. lanuginosa*  
b Secondary veins <15/side. Lamina LS +/- glabrous to minutely pubescent with short  
appressed hairs. .... 03
- 03 a Lamina base broadly cuneate to rounded, US finely appressed pubescent (10 $\times$  LENS)  
and secondary veins impressed. .... *M. doltsopa*  
b Lamina base broadly cuneate to cuneate, US glabrous (10 $\times$  LENS) and secondary veins  
not impressed to slightly elevated. .... *M. ernestii*
- 04 a Bud completely pubescent with rusty hairs. .... 05  
b Bud (almost) glabrous or pubescent with whitish hairs. .... 07
- 05 a Current year shoot thick,  $\emptyset$  5-10 mm. Lamina base attenuate to cuneate, rarely  
subrounded. .... *M. grandiflora*  
b Current year shoot slender,  $\emptyset$  2-4 mm. Lamina base broadly cuneate to obtuse or  
subcordate. .... 06
- 06 a Lamina width 6-11 cm. .... *M. foveolata*  
b Lamina width predominantly <7 cm. .... *M. platypetala*
- 07 a Lamina LS finely reticulate, with secondary and tertiary veins almost equally thick (10 $\times$   
LENS). .... *M. cathcartii*  
b Lamina LS secondary veins clearly visible and clearly thicker than tertiary venation (10 $\times$   
LENS). .... 08
- 08 a Lamina US +/- rugose to bullate with secondary veins strongly impressed, LS tertiary  
venation slightly visible (10 $\times$  LENS). .... *M. chapensis*  
b Lamina US not rugose with secondary veins not or slightly impressed, LS tertiary  
venation very reticulate (10 $\times$  LENS). .... 09
- 09 a Shoot youngest internodes glabrous. Lamina LS tertiary vein areoles between 2  
secondary veins in +/- 10 rows (10 $\times$  LENS). .... *M. maudiae*  
b Shoot pubescent with +/- long silky hairs. Lamina LS tertiary vein areoles between 2  
secondary veins in +/- 20 rows (10 $\times$  LENS). .... *M. tamaulipana*

GROUP B5

Petiole stipular scar  $\leq 5$  mm or indiscernible  
Lamina LS tertiary vein pattern reticulate and clearly visible with 10 $\times$  LENS.  
Lamina LS midvein pubescent with yellowish brown to rusty hairs (10 $\times$  LENS):

- 01 a Lamina LS orange brown to shimmering coppery. .... 02  
b Lamina LS greyish green to glaucous green. .... 04
- 02 a Lamina midvein length  $\leq 10$  cm AND petiole +/- 5 mm. .... *M. laevifolia*  
b Lamina midvein length 10-25 cm, AND/OR petiole 15-35 mm. .... 03
- 03 a Current year shoot thick,  $\emptyset$  5-10 mm. Lamina base attenuate to cuneate, rarely subrounded. .... *M. grandiflora*  
b Current year shoot slender,  $\emptyset$  2-4 mm. Lamina base broadly cuneate to obtuse or subcordate. .... *M. foveolata*
- 04 a Current year shoot at least initially +/- densely pubescent to the naked eye, with long spreading hairs (10 $\times$  LENS). .... 05  
b Current year shoot glabrous, OR minutely pubescent with short appressed hairs, slightly visible to the naked eye (10 $\times$  LENS). .... 06
- 05 a Lamina L/W predominantly +/- 3/1, largest width 8 cm. Pubescence on petiole, lamina LS midvein and bud dense. .... *M. calcicola*  
b Lamina L/W predominantly 2(-3)/1, largest width 8-11 cm. Pubescence on petiole, lamina LS midvein and bud initially dense but soon sparse or +/- glabrescent. .... *M. fulva*
- 06 a Lamina +/- papery, LS (glaucous-)green. .... *M. sphaerantha*  
b Lamina leathery, LS glaucous. .... 07
- 07 a Lamina obovate, elliptic-obovate or rhombic. .... *M. macclurei*  
b Lamina elliptic to oblong. .... 08
- 08 a Lamina width 6-11 cm. .... *M. foveolata*  
b Lamina width predominantly <7 cm. .... *M. platypetala*

## Taxa treated in this identification key.

*Liriodendron chinense*  
*Liriodendron tulipifera*

*Magnolia acuminata*  
- var. *acuminata*  
- var. *subcordata*  
*Magnolia biondii*  
*Magnolia calcicola*  
*Magnolia campbellii*  
- var. *campbellii*  
- var. *mollicomata*  
*Magnolia cathartii*  
*Magnolia champaca*  
*Magnolia chapensis*  
*Magnolia compressa*  
*Magnolia conifera*  
*Magnolia cylindrica*  
*Magnolia dawsoniana*  
*Magnolia decidua*  
*Magnolia delavayi*  
*Magnolia denudata*  
*Magnolia doltsopa*  
*Magnolia duclouxii*  
*Magnolia ernestii*  
*Magnolia figo*  
- var. *crassipes*  
- var. *figo*  
*Magnolia floribunda*  
*Magnolia fordiana*  
*Magnolia forrestii*  
*Magnolia foveolata*  
*Magnolia fraseri*  
- var. *fraseri*  
- var. *pyramidata*  
*Magnolia fulva*  
*Magnolia globosa*  
*Magnolia grandiflora*  
*Magnolia grandis*  
*Magnolia hookeri*  
*Magnolia insignis*

*Magnolia kobus*  
*Magnolia kwangtungensis*  
*Magnolia laevifolia*  
*Magnolia lanuginosa*  
*Magnolia liliiflora*  
*Magnolia lotungensis*  
*Magnolia macclurei*  
*Magnolia macrophylla*  
- var. *ashei*  
- var. *dealbata*  
- var. *macrophylla*  
*Magnolia martini*  
*Magnolia maudiae*  
*Magnolia nitida*  
*Magnolia obovata*  
*Magnolia odora*  
*Magnolia officinalis*  
- var. *biloba*  
- var. *officinalis*  
*Magnolia platypetala*  
*Magnolia rostrata*  
*Magnolia salicifolia*  
*Magnolia sapaensis*  
*Magnolia sargentiana*  
- var. *robusta*  
- var. *sargentiana*  
*Magnolia sieboldii*  
*Magnolia sinensis*  
*Magnolia sphaerantha*  
*Magnolia sprengeri*  
- var. *elongata*  
- var. *sprengeri*  
*Magnolia stellata*  
*Magnolia tamaulipana*  
*Magnolia tripetala*  
*Magnolia virginiana*  
*Magnolia wilsonii*  
*Magnolia yunnanensis*  
*Magnolia yuyuanensis*  
*Magnolia zenii*

## Questionable/misapplied names in this identification key.

*Magnolia* and *Liriodendron* hybrids are strictly excluded, these and their clones are too numerous to cover in this work.

*Magnolia amoena* is difficult to separate from *M. zenii* fide Richard Figlar. Plants under the name of the former in collections are of questionable identity and not included here, or are another species like *M. biondii*.

*M. lotungensis* and *M. yunnanensis* are kept apart here for the time being. Richard Figlar cannot find a reliable difference between the two taxa in all the plants he has seen and thinks they are one species with the seemingly more variable *M. lotungensis* being only more cold hardy.

Distinguishing the infraspecific taxa of *M. figo*, *M. fraseri* and *M. macrophylla* is quite a challenge and no reliable vegetative characters are known to Richard Figlar, nor to me.

*M. chevaleriei* seen in collections is *M. insignis*.  
*M. ovoidea* seen in collections is *M. fulva*.

## Names referred to synonymy in this identification key.

Houpoëa obovata → **Magnolia obovata**  
 Houpoëa officinalis → **Magnolia officinalis**  
 Houpoëa rostrata → **Magnolia rostrata**

Lirianthe delavayi → **Magnolia delavayi**

Magnolia ashei → **Magnolia macrophylla** subsp. **ashei**  
 Magnolia cavaleriei var. platypetala → **Magnolia platypetala**  
 Magnolia dealbata → **Magnolia macrophylla** subsp. **dealbata**  
 Magnolia dianica → **Magnolia laevifolia**  
 Magnolia elliptilimba → **Magnolia sphaerantha**  
 Magnolia heptapeta → **Magnolia denudata**  
 Magnolia hypoleuca → **Magnolia obovata**  
 Magnolia maudiae var. platypetala → **Magnolia platypetala**  
 Magnolia moto → **Magnolia kwangtungensis**  
 Magnolia pyramidata → **Magnolia fraseri** var. **pyramidata**  
 Magnolia quinquepeta → **Magnolia liliiflora**

Manglietia conifera → **Magnolia conifera**  
 Manglietia decidua → **Magnolia decidua**  
 Manglietia duclouxii → **Magnolia duclouxii**  
 Manglietia fordiana → **Magnolia fordiana**  
 Manglietia forrestii → **Magnolia forrestii**  
 Manglietia grandis → **Magnolia grandis**  
 Manglietia hookeri → **Magnolia hookeri**  
 Manglietia insignis → **Magnolia insignis**  
 Manglietia kwangtungensis → **Magnolia kwangtungensis**  
 Manglietia sapaensis → **Magnolia sapaensis**  
 Manglietia yuyuanensis → **Magnolia yuyuanensis**

Michelia calcicola → **Magnolia fulva** var. **calcicola**  
 Michelia champaca → **Magnolia champaca**

**Magnolia biondii** ← Yulania biondii  
**Magnolia calcicola** ← Michelia fulva var. calcicola  
**Magnolia champaca** ← Michelia champaca  
**Magnolia compressa** ← Michelia compressa  
**Magnolia conifera** ← Manglietia conifera  
**Magnolia cylindrica** ← Yulania cylindrica  
**Magnolia dawsoniana** ← Yulania dawsoniana  
**Magnolia decidua** ← Manglietia decidua  
**Magnolia delavayi** ← Lirianthe delavayi  
**Magnolia denudata** ← Yulania denudata  
**Magnolia doltsopa** ← Michelia doltsopa  
**Magnolia duclouxii** ← Manglietia duclouxii  
**Magnolia ernestii** ← Michelia wilsonii  
**Magnolia figo** ← Michelia figo  
**Magnolia floribunda** ← Michelia floribunda  
**Magnolia fordiana** ← Manglietia fordiana  
**Magnolia forrestii** ← Manglietia forrestii  
**Magnolia foveolata** ← Michelia fulgens  
**Magnolia fraseri** var. **pyramidata** ← Magnolia pyramidata  
**Magnolia fulva** ← Michelia fulva  
**Magnolia fulva** var. **calcicola** ← Michelia calcicola  
**Magnolia grandis** ← Manglietia grandis  
**Magnolia hookeri** ← Manglietia hookeri  
**Magnolia insignis** ← Manglietia insignis  
**Magnolia kobus** ← Yulania kobus  
**Magnolia kwangtungensis** ← Magnolia moto  
 ← Manglietia kwangtungensis

Michelia compressa → **Magnolia compressa**  
 Michelia doltsopa → **Magnolia doltsopa**  
 Michelia figo → **Magnolia figo**  
 Michelia floribunda → **Magnolia floribunda**  
 Michelia fulgens → **Magnolia foveolata**  
 Michelia fulva → **Magnolia fulva**  
 Michelia fulva var. calcicola → **Magnolia calcicola**  
 Michelia longistamina → **Magnolia martini**  
 Michelia martini → **Magnolia martini**  
 Michelia maudiae → **Magnolia maudiae**  
 Michelia odora → **Magnolia odora**  
 Michelia platypetala → **Magnolia platypetala**  
 Michelia sphaerantha → **Magnolia sphaerantha**  
 Michelia velutina → **Magnolia lanuginosa**  
 Michelia wilsonii → **Magnolia ernestii**  
 Michelia yunnanensis → **Magnolia laevifolia**

Parackmeria lotungensis → **Magnolia lotungensis**  
 Parackmeria nitida → **Magnolia nitida**  
 Parackmeria yunnanensis → **Magnolia yunnanensis**

Tsoongiodendron odorum → **Magnolia odora**

Yulania biondii → **Magnolia biondii**  
 Yulania cylindrica → **Magnolia cylindrica**  
 Yulania dawsoniana → **Magnolia dawsoniana**  
 Yulania denudata → **Magnolia denudata**  
 Yulania kobus → **Magnolia kobus**  
 Yulania liliiflora → **Magnolia liliiflora**  
 Yulania sprengeri → **Magnolia sprengeri**  
 Yulania stellata → **Magnolia stellata**  
 Yulania zenii → **Magnolia zenii**

**Magnolia laevifolia** ← Magnolia dianica  
 ← Michelia yunnanensis  
**Magnolia lanuginosa** ← Michelia velutina  
**Magnolia liliiflora** ← Yulania liliiflora  
**Magnolia lotungensis** ← Parackmeria lotungensis  
**Magnolia macrophylla** subsp. **ashei** ← Magnolia ashei  
**Magnolia macrophylla** subsp. **dealbata** ← Magnolia dealbata  
**Magnolia martini** ← Michelia longistamina  
 ← Michelia martini  
**Magnolia maudiae** ← Michelia maudiae  
**Magnolia nitida** ← Parackmeria nitida  
**Magnolia obovata** ← Houpoëa obovata  
 ← Magnolia hypoleuca  
**Magnolia odora** ← Michelia odora  
 ← Tsoongiodendron odorum  
**Magnolia officinalis** ← Houpoëa officinalis  
**Magnolia platypetala** ← Magnolia cavaleriei var. platypetala  
 ← Magnolia maudiae var. platypetala  
 ← Michelia platypetala  
**Magnolia rostrata** ← Houpoëa rostrata  
**Magnolia sapaensis** ← Manglietia sapaensis  
**Magnolia sphaerantha** ← Magnolia elliptilimba  
 ← Michelia sphaerantha  
**Magnolia sprengeri** ← Yulania sprengeri  
**Magnolia stellata** ← Yulania stellata  
**Magnolia yunnanensis** ← Parackmeria yunnanensis  
**Magnolia yuyuanensis** ← Manglietia yuyuanensis  
**Magnolia zenii** ← Yulania zenii

