



***Meliosma* Blume (Sabiaceae)**

VEGETATIVE KEY TO SPECIES IN CULTIVATION

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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 check leaf margin incisions, pubescence and venation pattern in general.
- Look at the entire plant. Avoid young specimens, shade- and strong shoots as these give an atypical view.
- Beware of hybridisation, especially with plants raised from seed other than wild origin.

Abbreviations used in this key:

- **L/W** = length/width
- **LS** = lower surface
- **US** = upper surface

Taxa treated in this key: see page 3.

Synonymy: see page 3.

References:

- JDL herbarium and [illustrations](#)
- living specimens, in various arboreta, botanic gardens and collections
- literature:

Bean, W.J. - (1981) - *Meliosma* in Trees and Shrubs hardy in the British Isles II, p. 725-729.

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Guo, L. & Brach, R.R. - () - *Meliosma* in Flora of China Vol. 12, p. 32-42. And [online edition](#) accessed 2022-10-31.

Grimshaw, J. & Bayton, R. - (208) - *Meliosma* in New Trees in Cultivation, p. 516-518.

Krüssmann, G. - (1977) - *Meliosma* in Handbuch der laubgehölze, Vol. 2, p. 316-317.

Morales, J.F. - (2013) - Sinopsis del género *Meliosma* (Sabiaceae) en México y Centroamérica in Phytoneuron 2013-82, 86 pages.

Rehder, A. - (1940) - *Meliosma* in Manual of cultivated trees and shrubs hardy in North America, p. 594-595.

van Beusekom, C.F. (1971) - Revision of *Meliosma* (Sabiaceae), section Lorenzanea excepted, living and fossil, geography and phylogeny - in Blumea 19, No 3, p.355-529.

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[Arboretum Wespelaar](#)

01	a Leaf pinnately compound.	02
	b Leaf simple.	04
02	a Leaf length 40-70(more) cm. Leaflet LS secondary vein axils without hairy domatia (10x LENS).	<i>M. veitchiorum</i>
	b Leaf length 20-45 cm. Leaflet LS secondary vein axils with hairy domatia evident.	.....	03
03	a Articulation between leaf rachis and terminal petiolule evident (10x LENS).	....	<i>M. beaniana</i>
	b Articulation between leaf rachis and terminal petiolule absent.	.....	<i>M. oldhamii</i>
04	a Lamina secondary veins numerous, predominantly 15-20(more)/side, at least in part of the foliage.	.....	05
	b Lamina secondary veins predominantly ≤15/side.	.....	09
05	a Lamina margin in apical half predominantly with 0-4 bristly teeth between 2 secondary veins (10x LENS).	.....	<i>M. dilleniifolia</i>
	b Lamina margin in apical half predominantly without or with 0-1 bristly tooth between 2 secondary veins.	.....	06
06	a Lamina base attenuate (or cuneate to attenuate).	.....	07
	b Lamina base obtuse to (broadly) cuneate, often oblique.	.....	08
07	a Lamina LS secondary vein axils with hairy domatia evident (10x LENS).	.....	<i>M. cuneifolia</i>
	b Lamina LS secondary vein axils without, or in part with <u>tiny</u> hairy domatia.	....	<i>M. flexuosa</i>
08	a Foliage US dark green. Lamina large: at least up to 36 × 15 cm, with a petiole up to 6 cm. Bark brown, exfoliating orange-yellow.	.....	<i>M. aff. myriantha</i>
	b Foliage US mid-green. Lamina clearly smaller: up to 25 × 10 cm and petiole <4 cm. Bark grey brown, +/- smooth.	.....	<i>M. myriantha</i>
09	a Plant deciduous, leaves rather thin and soft.	.....	10
	b Plant evergreen, leaves rather leathery and rigid.	.....	12
10	a Lamina broadly obovate, US secondary veins not or slightly impressed.	.....	<i>M. parviflora</i>
	b Lamina elliptic to obovate, US secondary veins (strongly) impressed.	.....	11
11	a Lamina LS secondary vein axils with large hairy domatia evident (10x LENS).	....	<i>M. tenuis</i>
	b Lamina LS secondary vein axils without, or in part with <u>tiny</u> hairy domatia.	....	<i>M. flexuosa</i>
12	a Petiole 2-7 cm, slender and glabrous. Lamina LS secondary vein axils without hairy domatia (10x LENS).	.....	<i>M. dumicola</i>
	b Petiole clearly <2 cm, rather thick and pubescent to glabrescent. Lamina LS secondary vein axils with hairy domatia evident.	.....	13
13	a Pulvinus thickly appressed hairy. Lamina base long attenuate.	.....	<i>M. yunnanensis</i>
	b Pulvinus pubescent with +/- ascending hairs. Lamina base cuneate.	.....	<i>M. dentata</i>

Taxa treated in this identification key.

M. beaniana
M. cuneifolia
M. dentata
M. dilleniifolia
M. dumicola
M. flexuosa
M. myriantha

M. aff. myriantha
M. oldhamii
M. parviflora
M. tenuis
M. yunnanensis
M. veitchiorum

Taxa referred to synonymy in this identification key (taxonomy fide [POWO](#)).

M. dilleniifolia subsp. *cuneifolia* = *M. cuneifolia*
M. dilleniifolia subsp. *flexuosa* = *M. flexuosa*
M. dilleniifolia subsp. *tenuis* = *M. tenuis*
M. lepidota subsp. *dumicola* = *M. dumicola*
M. pendens = *M. flexuosa*

M. pungens Hort. and *M. simplicifolia* subsp. *pungens* Hort.

Plants in Cornish collections under the former names, with leathery, but smaller and dentate obovate leaves belong to *M. yunnanensis*.

M. rigida Hort. and *M. simplicifolia* subsp. *rigida* Hort.

A plant at Tregrehan Garden, originally under the former name, with flaking bark and large leaves, resembles *M. dilleniifolia* and *M. myriantha* in foliage, it did not produce flowers yet and belongs probably to the latter fide Frits van Beusekom (pers. comments 29 October 2022). Hence the tentative name *M. aff. myriantha*.

