

Evergreen trees or shrubs or occasionally woody lianas, monoecious or dioecious. Leaves opposite or rarely whorled (not in Australia), exstipulate, simple; lamina with small translucent oil glands, pinnately veined with conspicuous, midrib margins entire or toothed. Inflorescences terminal or axillary, occasionally ramiflorous, in racemes or panicles, or flowers solitary; bracts and bracteoles present or absent. Flowers pedicellate, actinomorphic or sometimes slightly irregular, unisexual; receptacle well developed. Perianth of 1 or more whorls; tepals 8-many, either differentiated into sepals and petals or not or scarcely differentiated, in pairs around an ostiole or irregularly arranged. Male flowers: stamens few to many, regularly arranged in 1–5 (or more) pairs or numerous (to c. 60) and more irregularly arranged; staminal filaments short or absent; anthers basifixed, dehiscing by horizontal or vertical slits; the anther connective sometimes not or sometimes distinctly prolonged and enlarged into an apical appendage. Female flowers often opening after anthesis by upper part falling as calyptra; carpels 4–50(–100+), superior, free; ovary unilocular with a solitary ovule, placentation basal or apical; style single, terminal, unbranched, or absent; stigma \pm sessile. Fruits of separate or less commonly clustered drupes, indehiscent, exposed on an expanded receptacle or surrounded by an hypanthium; drupes \pm smooth.

A family of about 27 genera and 440 species, mainly in tropical and subtropical regions of the Southern Hemisphere. 8 genera (3 endemic) and 26 species (21 endemic) in Australia. Monimiaceae are placed in the Laurales and is related to Lauraceae (widespread) and Hernandiaceae (pantropical) (see Renner *et al.* 2000). Atherospermataceae has in the past been included as a subfamily in Monimiaceae but is retained as distinct here.

Key reference: Whiffin & Foreman (2007).

External resources: accepted names with synonymy & distribution in Australia (APC); author & publication abbreviations (IPNI); mapping (AVH, NVA); nomenclature (APNI, IPNI).

1 HEDYCARYA

Hedycarya J.R.Forst. & G.Forst., Char. Gen. Pl., ed. 2: 127, t. 64 (1776).

Dioecious shrubs or trees. Leaves opposite, entire or toothed, petiolate. Inflorescence terminal or axillary, a panicle with 3–20 flowers, or flowers solitary. Male flowers depressed-cupuliform; tepals usually 8, triangular; stamens usually numerous, on floor and lower walls of receptacle; filaments very short or absent; connective sometimes prolonged and expanded into an appendage; anthers dehiscing outwardly. Female flowers depressed-cupuliform; tepals 6–12, distinct or not; staminodes present or absent; carpels usually numerous; ovary glabrous or pubescent; stigma short and thick. Fruiting receptacle cupuliform to convex, scarcely enlarged. Fruit formed of a loose to tight cluster of small or large drupes.

A genus of about 11 species of the South-West Pacific, particularly New Caledonia. 2 species endemic to eastern Australia: *H. angustifolia*, which is found from south-eastern Queensland to Tasmania, and *H. loxocarya* (Benth.) W.D.Francis, which is confined to north-eastern Queensland.



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² Tasmanian Herbarium, Tasmanian Museum & Art Gallery, Private Bag 4, Hobart, Tasmania 7001, Australia.

Native Mulberry, Australian Mulberry, Austral Mulberry

Hedycarya australasica var. angustifolia (A.Cunn.) A.DC., Prodr. (DC.) 16(2): 673 (1868); H. cunninghamii Tul., Arch. Mus. Hist. Nat. 8: 408 (1855) [as H. Cunninghami], nom. illeg. Hedycarya dentata var. australasica Sond., Linnaea 28: 228 (1856); H. pseudomorus F.Muell., Trans. Philos. Inst. Victoria 2: 63 (1858); H. australasica (Sond.) A.DC., Prodr. (DC.) 16(2): 673 (1868), nom. illeg.

Illustrations: Curtis, The Student's Flora of Tasmania 3: 595, fig. 126 (1963); Stanley & Ross, Flora of South-Eastern Queensland 1: 153, fig. 20, a1-3 (1983); Foreman, Flora of Victoria 3: 29, fig. 2a-c (1996); Harden, Fl. New South Wales 1, rev. edn: 130 (2000); Woolmore et al. (Eds), King Island Flora 59 (2002); Wilson (Ed.), Fl. Australia 2: 68, fig. 14a-d (2007).

Shrubs or small trees, 2-10(-20) m high, often with a number of stout stems arising at or shortly above ground-level; young shoots and inflorescence axes with short scattered antrorse hairs, adult parts glabrous. Leaves opposite, petiolate, often with more than one axillary bud; petiole 15–40 mm long; lamina ovate-elliptical or lanceolate-elliptical, 4-16.5 cm long, (1.5-)2.5-6 cm wide, aromatic when crushed due to numerous and small translucent oil dots, base cuneate to rounded, margin irregularly dentate or serrate with the teeth at first gland-tipped, apex acute or shortly acuminate; adaxial surface dark green, the pinnate and reticulate veins making a coarse yellowish-white network; abaxial surface pale green. Male inflorescence 1.5-2(-3) cm long, branched, 5-16-flowered; pedicels 4-9 mm long, pubescent. Male flowers \pm flattened-cupuliform, 3.5-7 mm diam.; tepals 8(-10), c. 1-1.5 mm long; stamens c. 35-50, filaments very short, connective shortly elongated into a small appendage. Female inflorescence 1.5-2.5 cm long, (1)2-6-flowered; pedicels 3-11 mm long, pubescent. Female flowers \pm flattened-cupuliform, c. 3.5-4.5 mm diam.; tepals 8-10, c. 1-1.5 mm long; carpels 40-50; ovary columnar, glabrous or shortly pubescent; stigma short, \pm conical. Drupes \pm globose, maturing yellow to orange, c. 3.5 mm diam., tightly clustered. Flowering Aug.-Nov.; fruiting Oct.-Apr.

Tas. (KIN); also NSW, Vic. In Tasmania, restricted to King Island in damp and sheltered gullies.

REFERENCES

APC (Australian Plant Census) http://www.chah.gov.au/apc/about-APC.html

APNI (Australian Plant Name Index) http://www.anbg.gov.au/cgi-bin/apni

AVH (Australia's Virtual Herbarium) (Council of Heads of Australasian Herbaria) http://www.anbg.gov.au/avh.html

IPNI (International Plant Name Index) http://www.ipni.org/index.html or http://www.us.ipni.org/index.html

NVA (Natural Values Atlas) (Department of Primary Industries and Water: Hobart) http://www.dpiw.tas.gov.au/inter.nsf/ WebPages/LJEM-6TV6TV?open

Renner SS, Foreman D, Murray D (2000) Timing transantarctic disjunctions in the Atherospermataceae (Laurales): Evidence from coding and noncoding chloroplast sequences. *Systematic Biology* **49** 579–591.

Whiffin T, Foreman D (2007) Monimiaceae. Flora of Australia 2 65-91.

NOTE: Web addresses can and do change: a list of current web addresses will be maintained on the *Flora of Tasmania Online* website [www.tmag.tas.gov.au/floratasmania].

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