
A taxonomic review of the *Kokoona* and *Lophopetalum* genera (Celastraceae R.Br.) from Southern and South-Eastern Asia and Australia

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Résumé

A taxonomic review of the species, subspecies and synonyms in *Kokoona* and *Lophopetalum* (Celastraceae R.Br.) is presented. It reflects new taxonomic data and geographical distributions of all species in different areas of the world, based on modern studies in different herbaria (BKF, BO, , CDBI, E, HN, IBSC, K, P, KUN, LE, MW, MHA, PE, PNH, SING) and morphological analysis of some characters, especially floral, fruit and seed structures. The new data can be used for further floristic studies in Southern and South-Eastern Asia and Australia.

The main diagnostic characters of *Kokoona* and *Lophopetalum* are: 1) habit – tall trees with decussate leaves; 2) inflorescences many-flowered, axillary, thyrsoïd; 3) ovary trilocular with (4-6)8-18 ovules in each locule; 4) large, many-seeded loculicidally dehiscent capsules with sclereid groups in mesocarp; 5) a large winged seeds with massive embryo and endosperm absent. They grow in lowland rain forests (some species in dryland or peat-swamp and freshwater-swamp forests).

The main diagnostic characters of each genus are summarized below.

Lophopetalum (19 spp.): flowers large, with fimbriate or lamellate petals, stigma obscure, not lobed, disk fleshy, massive, in the form of a broad, 5-angular or 5-lobed platform, seeds with surrounding discoid wing

Kokoona (10 spp.): flowers small, with naked petals, stigma faintly 3-lobed, disk cupular, seeds long winged

Mots-Clés: Keywords: Celastraceae, *Kokoona*, *Lophopetalum*, taxonomic review, morphological analysis, floral structure, fruits structure, seeds structure, Southern Asia, South, Eastern Asia, Australia.

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