

THE CONVULVULACEAE OF MALAYSIA, V¹⁾

by

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Key to the genera.

(See the Index to the genera at the end of this key).

- 1a. Parasitic plants with filiform, twining stems, leafless or with minute pale scales. Flowers small, in clusters or short racemes; corolla mostly with 5 episepalous fimbriate scales inside (*Cuscutae* Hall. f.) **1. Cuscuta**
- b. Non-parasitic plants with green leaves 2
- 2a. Pollen spinulose (*Echinoconiae* Hall.f.) 18
- b. Pollen not spinulose (*Psiloconiae* Hall.f.) 3
- 3a. Ovary deeply 2-lobed; styles 2, inserted between the lobes (gynobasic). Flowers small, solitary in the leaf-axils. Corolla deeply 5-lobed. Small creeping herbs; leaves kidney-shaped or orbicular-cordate **2. Dichondra**
- b. Ovary not deeply 2-lobed, style not gynobasic 4
- 4a. Stigma 1, sessile, conical or semiglobular, 5—10-rayed. Corolla-lobes bifid. Ovary 1-celled. Fruit fleshy or woody, indehiscent. Woody climbers or erect shrubs **7. Erycibe**
- b. Style or styles present, well-developed 5
- 5a. Outer 3 or all of the sepals much enlarged in fruit, patent, scarious, reticulately nerved, falling off with the fruit. Flowers small, in racemes or panicles. Corolla limb subentire or lobed. Style 1, entire or bifid. Woody or herbaceous twiners **6. Porana**
- b. Sepals either enlarged in fruit or not so, remaining attached to the pedicel after the dehiscence of the fruit 6
- 6a. Styles 2, free or partly united below 7
- b. Style 1, entire, or with 2 very short branches, covered by the stigmas 9
- 7a. Styles 2, free 8

¹⁾ Part I in *Blumea* III, 1 (1938) p. 62—94; part II in *Blumea* III, 2 (1939) p. 267—371; part III in *Blumea* III, 3 (1940) p. 481—582; part IV in *Blumea* V, 2 (1943) p. 339—411.

- b. Styles partly united below; stigmas globular to peltate; ovary hairy. Flowers in pedunculate cymes in the leaf-axils. Midpetaline areas of corolla pilose outside. High climbers **4. Bonamia**
- 8a. Each of the 2 styles forked and with 2 filiform or slightly clavate stigmas. Corolla limb nearly entire. Bracts not accrescent in fruit. Small herbaceous plants, never twining **3. Evolvulus**
- b. Each of the 2 styles with a peltate, lobed and kidney-shaped stigma. Corolla limb deeply 5-lobed. Bracts much enlarged in fruit, scarious. Large woody climbers **5. Neuropeltis**
- 9a. Corolla limb entire or slightly lobed 10
- b. Corolla limb distinctly 5-lobed, the lobes bifid, the tube fleshy, ± cylindrical. Inflorescences pedunculate, few-flowered. Stigmas globose **15. Decalobanthus**
- 10a. Sepals enclosed by two large bracts. Corolla campanulate to funnel-shaped with slightly lobed limb. Stigmas oblong or elliptic, complanate **11. Calystegia**
- b. Sepals not enclosed by bracts 11
- 11a. Hairs on stems and leaves stellate, with 3 or more rays. Flowers in axillary cymes. Corolla campanulate to funnel-shaped, with slightly lobed or subentire limb, blue, lilac, pink or rarely white. Stigmas elliptic or oblong, complanate, rarely linear or globose. Leaf base cordate or truncate, never hastate or sagittate **8. Jacquemontia**
- b. Hairs not stellate (or wanting) 12
- 12a. Outer sepals acute or acuminate, much longer and broader than the inner ones. Stems not alate 13
- b. Outer sepals not longer and broader than the inner ones and at the same time acute or acuminate 15
- 13a. Outer sepals decurrent on the pedicel. Corolla white. Ovary glabrous. Stigmas globular to oblong. Valves of capsule silvery white and shining inside. Leaves oblong, narrowed towards the base **9. Aniseia**
- b. Outer sepals not decurrent on the pedicel 14
- 14a. Corolla glabrous or nearly so, pale blue, lilac or white. Ovary glabrous. Stigmas elliptic or filiform. *See 8. Jacquemontia.*
- b. Midpetaline areas of corolla pilose outside. Corolla white or cream-coloured, with or without a purple centre. Ovary hairy. Stigmas ovate-oblong, complanate **12. Shutereia**
- 15a. Stigmas filiform or elliptic 16
- b. Stigmas globular 17
- 16a. Stigmas elliptic. Corolla pale blue or lilac. Leaf base truncate, rounded or slightly cordate. *See 8. Jacquemontia.*
- b. Stigmas filiform. Corolla white or pink. Leaf base mostly hastate or sagittate **10. Convolvulus**
- 17a. Capsule circumscissile; upper part of epicarp separating from lower part and from endocarp. Corolla white or pale yellow without purple centre. Stems terete or winged **14. Operculina**
- b. Capsule opening by 4 valves or more or less irregularly dehiscent.

- Corolla white, pale or bright yellow, sometimes with a purple centre.
Stems not winged 13. *Merremia*
- 18a. Corolla tubular, campanulate, funnel-shaped or salver-shaped 20
- b. Corolla broadly or narrowly urceolate, at the base narrowed or not narrowed into a short tube 19
- 19a. Corolla actinomorphic, urceolate, not narrowed at the base. Stamens shorter than corolla. Filaments dilated at their base into a concave scale, arched over the ovary 18. *Lepistemon*
- b. Corolla \pm zygomorphous, narrowly urceolate, at the base narrowed into a short tube. Stamens longer than corolla. Filaments not dilated into a concave scale 17. *Mina*
- 20a. Calyx in fruiting stage much enlarged, completely enclosing the ripe fruit. Leaf blades with minute black dots (glands) beneath 19. *Stictocardia*
- b. Calyx enlarged or not enlarged in fruit, not completely enclosing the ripe fruit. Leaf blades without black dots beneath 21
- 21a. Fruit a thin-walled capsule opening by valves or irregularly dehiscent. Herbaceous or rarely woody twining or prostrate, rarely erect plants. Corolla mostly glabrous outside 16. *Ipomoea*
- b. Fruit fleshy or leathery, often purple, red or yellowish, globose or ellipsoid. Woody twiners. Corolla outside mostly with hairy midpetaline areas 20. *Argyreia*

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1) This genus will be treated in a special monograph.