

MALPIGHIACEAE

BY

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- p. 198 Change 7. *Banisteria* Juss. (non Linn.) to 7. **Banisteriopsis** C.B. Robinson in Small. The proposals to conserve *Banisteria* in the sense of Juss. or of H.B.K. have been rejected on the ground, that the name *Banisteriopsis* has been accepted in several modern flora's. Taxon 16: 74-76, 472-474. 1967, and 17: 464. 1968.
- p. 199 Change 1. *Banisteria lucida* Rich. to 1. **Banisteriopsis lucida** (L.C. Rich.) Small, N. Am. Fl. 25: 133. 1910.
- p. 201 Change 2. *Banisteria leptocarpa* Benth., to 2. **Banisteriopsis leptocarpa** (Benth.) R.O. Williams, Fl. Trinidad & Tobago 1. 131. 1929.
- p. 220 Insert this key to *Bunchosia*:
1. a. Leaves glabrous on both surfaces 2. **B. nitida** (Jacq.) L. C. Rich.
 - b. Leaves sericeous beneath 2
 2. a. Racemes at the end of short, 2-leaved branchlets. Leaves 9 cm long and 5 cm wide, slightly rhomboid 3. **B. mollis** Benth.
 - b. Racemes axillary 3
 3. a. 2(—3) large glands near the leaf-base, next to the costa; leaves pale green, densely silky beneath 4. **B. argentea** (Jacq.) DC.
 - b. 6—14 glandular dots 1 cm from the margin; leaves sparingly sericeous .. 1. **B. glandulifera** (Jacq.) Kunth

p. 223 Insert the descriptions of:

3. **Bunchosia mollis** Benth., London J. Bot. 7: 127. 1848; Niedenzu l.c.: 670.

Shrub or small tree, young parts golden-villous; (arms of hairs at an obtuse angle, 300—600 μ , 20—40 μ thick, feet 50—250 μ long, 22—35 μ thick with 4 appendages 15—100 μ long). Stipules hardly 1 mm long. Petioles villous, up to 4 mm long. Leaves membranaceous, glabrescent above, densely golden- or silvery-tomentose beneath, elliptic or elliptic-lanceolate, up to 9 cm long and 5 cm wide, acute to shortly acuminate, base acute; secondary veins 5—6 pairs, impressed above, prominulous beneath. Racemes densely villous, 4—7 cm long, 10-flowered; bracts and bracteoles (linear-) lanceolate, 3 resp. 2 mm long, with one gland. Flowers 18 mm in diam., pedicels up to 6 mm long; sepals rounded-ovate, puberulous outside, exceeding by 1—2 mm the c. 3 mm long, oblong, connate glands; petals yellow, glandular only at base, lacero-dentate, 4—6 mm long, with 2—3 mm long claw; stamens exserted for 1 mm, filaments connate up to half of their length, connective basally much shorter than the 1 mm long anthers, apically with a thickened, roundish or somewhat hooked appendix; ovary glabrous, 3- or 2-locular, almost globose; style up to twice as long as the ovary.

Distribution: Venezuela, Guyana.

(Guyana, Pirarara, Schomburgk I 742, type).

Wilhelmina Mts. (BW 7042, fl. May).

4. **Bunchosia argentea** (Jacq.) DC., Prodr. 1: 582. 1824; Niedenzu l.c.: 661; — *Malpighia argentea* Jacq., Fragm. Bot. 186, tab. 83. 1800—1809.

Small tree or shrub, young parts and inflorescence densely appressed-pubescent (arms of hairs 200—300 μ long, 20—30 in diam., wall 1—2 μ thick, feet almost wanting). Stipules triangular, 1 mm long. Petioles sericeous, canaliculate above, 5—8 mm long. Leaves membranaceous, densely sericeous on both surfaces, later glabrous above, ovate or oblong, up to 16 cm long and 9 cm wide, shortly acuminate, obtuse or acute at base, margin slightly revolute; veins slightly prominulous above, costa and secondary veins (6—7 pairs) prominent beneath, 2(—3) glands 1—2 cm above the base next to the costa. Racemes 14—16-flowered; bracts and bracteoles broadly ovate, acute, 2—3 mm long, often with one gland.

Flowers 12—15 mm in diam.; pedicels 5—10 mm long; sepals 0.5—1 mm exceeding the 10 oblong-ovoid glands; petals yellow, 5—6 mm long, with a 1—2 mm long claw, the fifth petal with glandular-fimbriate margin, obovate, 4 mm long; anthers obovoid, resupinate, 1—6 mm long, protruding beyond the base of the faintly purple, subobovoid connective; ovary 2-loculate, sericeous, ovoid-globose; styles free or almost connate. Drupe globose-ovoid, sericeous.

Distribution: Venezuela, Colombia and Brazil (Mato Grosso).

Only one sterile collection is known from Suriname. W. of mouth of Coppename R. in forest on edge of ridge towards swamp forest (Lindeman 5648).

p. 224 Replace the key to *Byrsonima* by the following:

1. a. Leaves densely reticulate; secondary and tertiary veins parallel, forming nearly rectangular areoles. Stipules very large, more than 2 cm long, membranaceous, deciduous 9. **B. stipulacea** (Juss.) Niedenzu
- b. Leaves reticulate; secondary and tertiary veins not parallel. Stipules smaller, up to 1 cm long, coriaceous, persistent 2
2. a. Leaves very densely greyish-velutinous or lanuginose beneath 3
- b. Leaves reddish-sericeous or velutinous beneath, soon glabrescent or entirely glabrous 4
3. a. Leaves up to 14 cm long and 8 cm wide. Stipules 3—5 mm long. Racemes 3—8 cm long 4. **B. cydoniifolia** Juss.
- b. Leaves up to 35 cm long and 20 cm wide. Stipules 5—12 mm long. Racemes 10—25 cm long 5. **B. verbascifolia** (L.) L.C. Rich.
4. a. Leaves sessile, base subcordate to obtuse 7. **B. coccolobifolia** Kunth
- b. Leaves petiolate, base broadly cuneate to acute 5
5. a. Leaves broadly elliptic, rotundate, or broadly obovate 1. **B. crassifolia** (L.) L.C. Rich.
- b. Leaves elliptic, obovate, narrowly elliptic, or narrowly obovate 6

6. *a.* Leaves narrowly elliptic or elliptic 7
b. Leaves narrowly obovate or obovate 10
 7. *a.* Leaves glabrous, 4—7 cm long, often folded 10. ***B. eugeniifolia*** Sandw.
b. Young leaves sericeous or pilose beneath, adult leaves glabrescent, 6—18 cm long, not folded 8
 8. *a.* Leaves narrowly elliptic or lanceolate. Petals yellow. Anther-cells without hornlets at the top 2. ***B. coriacea*** (Sw.) Kunth
b. Leaves elliptic. Petals white or pink. Anther-cells with hornlets at the top 9
 9. *a.* Leaves acute or acuminate. Bracts linear, 4—5 mm long. Ovary sericeous 3. ***B. aerugo*** Sagot
b. Leaves obtusely acute. Bracts triangular, 2—3 mm long. Ovary glabrous 11. ***B. gymnocalycina*** Juss.
 10. *a.* Leaves chartaceous, margin flat. Ovary sericeous except at the base 8. ***B. obversa*** Miq.
b. Leaves coriaceous, margin revolute. Ovary glabrous .. 11
 11. *a.* Flower bud 2—3 mm long. Anther-cells glabrous, elliptic, pendulous from the cordate connectives, without hornlets at the top 6. ***B. densa*** (Poir.) DC.
b. Flower bud 5—7 mm long. Anther-cells sericeous, linear, with hornlets at the top .. 11. ***B. gymnocalycina*** Juss.

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10. ***Byrsonima eugeniifolia*** Sandw., Kew Bull. 1935:315; Kramer & Van Donselaar, Proc. Kon. Ned. Akad. Wetensch. Ser. C 71:512. 1968.

Shrub or low tree. Branches subcylindric, slightly sulcate, more or less densely appressed cinereo-pubescent; internodes 1—5 cm long. Stipules ovate, obtuse, 2.5—3.5 mm long, united at the base, indument as on the branches. Petioles appressed-pubescent, 4—7 mm long. Leaves coriaceous, small, when dried often folded, above more or less shining, beneath glaucescent and densely lepidopunctulate, otherwise glabrous, elliptic, 3.5—7.5 cm long and 1.2—2.8 cm wide, shortly acuminate, base cuneate, decurrent; costa very prominent beneath, secondary veins 8—10 to a

side, hardly stronger than the lesser veins, network conspicuous, especially above. Inflorescences simply racemose, 3—10 cm long, in vivo intensely red; rachis angulate and sulcate, densely cinereous- to ferrugineous-pubescent; bracts ovate, obtuse, red to blackish-purple, outside more or less pubescent, 2.5—4 mm long and 1.5—2.5 mm wide; bracteoles similar but smaller. Flowers: pedicels yellow- to ferrugineous-pubescent, 6—10 mm long; sepals ovate-oblong, obtuse, top recurved, ciliate, on both sides towards the middle pubescent or subsericeous, with obovoid, 1.5—2 mm long, flesh-coloured glands; petals white to flesh-coloured, reniform to cordate, 4.5 mm long and 5.5—6.5 mm wide, claw 3.5 mm long; stamens: filaments 2.5 mm long, glabrous except at the base, anthers glabrous, loculi 2 mm long, appendage of the connective 0.25 mm long; torus pilose; ovary glabrous, 1.5 mm in diam.; styles 3.5 mm long. Fruit ovoid-subglobose, 3—3.5 mm in diam..

Distribution: Guyana.

(Guyana, Demerara, Davis 2387, April, type).

Kappel Savanna near Tafelberg (Kramer & Hekkings 2902, fl. fr. Febr.); Sipaliwini Savanna, 300 m alt. (Oldenburger, Norde & Schulz 559, fl. Nov.).

11. ***Byrsonima gymnocalycina*** Juss., Ann. Mus. Paris 18: 304. 1811 and Arch. Mus. Hist. Nat. Paris 3: 304. 1843; Niedenzu, Pflanzenreich 4(141): 696. 1928; Sandw., Kew Bull. 1935. 311; — *Byrsonima ceranthera* Benth., Lond. Journ. Bot. 7: 121. 1848.

Low tree or shrub. Young branches appressed-ferrugineous-pilose, glabrous with age. Stipules acute, outside villous, 2—4 mm long. Petioles ferrugineous-pilose, 0.8—1.5 cm long. Leaves chartaceous to coriaceous, above glabrous and shining, beneath ferrugineous-pilose, especially on the veins, elliptic or obovate, 6—18 cm long and 2—7.5 cm wide, obtusely acute or rarely rounded, base narrowly cuneate to acute, margin revolute; secondary veins 10—15 to a side with parallels between, beneath prominent. Inflorescences compound-racemose, 5—13 cm long; rachis ferrugineous-tomentose; common peduncle very short, branches 2—3-flowered, 2—4 mm long; bracts narrowly triangular, acute, 2—3.5 mm long; bracteoles ovate-triangular, acute, 1—2 mm long. Flowers: pedicels 8—10 mm long; sepals broadly lacinate, obtuse, ferrugineous-pubescent, with or without glands; petals strongly unequal, white to

pink, clawed; anthers yellow, sericeous on inner side, tops ending in cornicles, about $1/3$ — $1/2$ of the length of the loculi; torus pilose; ovary glabrous; styles glabrous. Drupe depressed-globose, 1—2 cm in diam.; endocarp thick, woody, with sharp longitudinal ridges; 3-(or by abortion 2- or 1-) seeded.

Distribution: Venezuela, Trinidad and Guyana.

(Venezuela, Ayres 469, type of *B. gymnocalycina*; Guyana, Schomburgk I 525, type of *B. ceranthera*).

Tafelberg (Maguire 24623, fl. Sept.); Moengo tapoe (Lanjouw & Lindeman 470, fl. Sept.).

Vernacular name: Kasibong (= cheese tree).