



Fig. 49. Labels from type specimens of *Cryptocarya moschata* Nees & Martius collected by Sellow s.n. (1375). A. From LE; B. From KIEL; C. From L-0246991; D. From HAL-101917; E. From K; F. From L-0246990; G. From E-109558; H. From K; I. From US-00811475; J. From CGE. (Acronyms follow Holmgren *et al.*, 1990).

8. *Cryptocarya riedeliana* P.L.R. de Moraes, sp. nov.

Holotype: Brazil. Rio de Janeiro, Corcovado, 8 Sep. 1867 (fl., fr.), A.F.M. Glaziou 1516 [BR-837725!, photo in UEC!; isotypes (only flowering specimens): B-10000927!, BR-868666!, BR-868699!, C!, IAN-93355!, NY! (3 sheets), P-00221220 (photo in UEC!), RB (ex BR!), U (photo in UEC!)]. Fig. 50; Plate XI B (cf. Appendix 13.5).

A *Cryptocarya moschata* Nees & Martius et speciebus proximis petiolis plerumque non canaliculatis et crassioribus, tepalis angustioribus, tubo floris breviori et angustiori, staminibus androeciorum serierum I et II brevioribus (quia filamenta minora), staminibus serierum androeciorum III maioribus (quia filamenta maiora), fructibus stricte prolatis, maioribus, manifeste costulatis, tubo accrescenti tenui instructis differt.

Differs from *Cryptocarya moschata* Nees & Martius and related species in the petioles mostly acanaliculate and thicker, tepals narrower, flower tube shorter and narrower, stamens of androecial whorls I and II smaller due to filaments smaller, stamens of androecial whorl III larger due to filaments larger, fruits strictly prolate, larger, manifestly ribbed, with the accrescent tube thinner.

Etymology - The name of this species is proposed in honour of Ludwig Riedel, German botanist who lived in Brazil in the XIXth century and was a member of the Langsdorff Expedition.

Illustrations - Vattimo-Gil (1957, Fig. 7, habit and fruit), Vattimo-Gil (1966a, Fig. 213-221, flower pieces), Quinet & Andreatta (2002, Fig. 3 D1-D5, leaf and flower pieces).

Vernacular names - Canela-branca, canela-murici, canela-noz-moscada, nosca-moscada-do-brasil, nox-moscado-do-brasil, noz-moscada, noz-moscada-do-brasil.

Description - Trees up to 28 m tall, trunk cylindrical, DBH 5-32.8 cm, bark dark brown to brown-grayish, rough, rugose, with lenticels (Fig. 51 A-B). Branches terete, dark brown to grayish, with lenticels. Branchlets 5 cm below terminal bud c. 2.0-4.8 mm in diam., rather thick, somewhat shining, smooth to sulcate or longitudinally striate, glabrous, light to dark brown or red-brown, initially angular or terete from the beginning; terminal buds ovoid, minute, densely yellowish tomentose, with short, appressed hairs. Petioles long, mostly stout, 12.0-29.0 mm long, 1.0-3.3 mm thick, slightly to canaliculate or acanaliculate to flattish above, roundish below, glabrous, rugose, dark (dried). Leaves alternate, narrow elliptical to lanceolate, 6.0-17.2 cm long, 1.5-4.6 cm broad, coriaceous to rigid-coriaceous (Fig. 51 C-D), mostly glabrous on both surfaces, some specimens sparsely glabrescent below, tip mostly acute to short acuminate, base usually acute to obtuse, margin flat and hardly recurved, sclerified; above shining, poorly to densely prominulously reticulate; beneath paler, rather dull, papillae inconspicuous; midrib impressed to level above, prominulous towards the base, prominulous to prominent towards the base below, secondary veins erect-patent (5-8 per side), arcuate towards margin, inconspicuous to prominulous above, prominulous below; tertiary venation prominulous and densely reticulate below; venation pattern camptodromous-brochidodromous. Inflorescences (Fig. 50 A) axillary and subterminal, panicles, few to many-flowered, 0.8-1.7 mm in diam. at

the base, 1.8-8.0 cm long, lax to dense, sparse to mostly densely yellowish or rusty-tomentellous, with \pm short, \pm appressed and \pm ascending hairs; peduncles short to long; bracts and bracteoles minute, ovate, densely yellowish-tomentelous, deciduous to sub-persistent. *Flower buds* and *flowers* yellow (Fig. 51), densely yellowish or rusty-tomentellous, c. 3.3-4.2 mm long, 1.5-2.86 mm in diam. at apex, tube urceolate, 1.1-1.4 mm long, 0.7-1.25 mm in diam.; pedicels tomentose, 0.53-0.75 mm long; tepals equal to subequal, 1.7-2.4 mm long, 0.9-1.0 mm broad, concave, ovate-elliptical, tip acute to rounded, pilose within; stamens included; stamens of whorls I and II introrse, incurved, 0.96-1.4 mm long ($\bar{X} = 1.21 \pm 0.14$ mm; $N = 12$), anthers sparse pilose or ciliate, ovate, 0.48-0.81 mm long ($\bar{X} = 0.68 \pm 0.09$ mm; $N = 13$), 0.36-0.46 mm broad ($\bar{X} = 0.41 \pm 0.04$ mm; $N = 8$), connectives prolonged beyond the large sporangia, tip obtuse to truncate, filaments pilose, as long or shorter than anthers, adnate to tepals; stamens of whorl III lateral to extrorse-lateral, rather erect, 1.14-1.89 mm long ($\bar{X} = 1.44 \pm 0.27$ mm; $N = 9$), anthers narrow-ovate, sparse pilose, 0.62-1.05 mm long ($\bar{X} = 0.78 \pm 0.15$ mm; $N = 9$), 0.32-0.35 mm broad ($\bar{X} = 0.34 \pm 0.01$ mm; $N = 4$), connectives truncate, prolonged beyond the large sporangia, filaments rather thick, equal or longer than anthers, pilose; glands subglobose, sagittate, 0.44-0.87 mm long ($\bar{X} = 0.62 \pm 0.15$ mm; $N = 12$), c. 0.37 mm broad, pedicel thick and long, pilose, rather distant from the filaments; staminodes relatively small, ovate-acute, sagittate, 0.8-0.9 mm long, c. 0.35 mm broad, tip and abaxial side pilose, stalks conspicuous, relatively short, stout, pilose; gynoecium immersed in the tube, glabrous, c. 2.9 mm long, ovary ellipsoid, c. 0.9 mm long, c. 0.35 mm in diam., gradually merging into the about 1.9 mm long style with small, discoid stigma. *Mature fruits* yellow, orange, or green (Fig. 50 K, 51 E). *Mature fresh fruits* (with the accrescent flower tube) from a tree of Serra da Estrela, RJ, 2.5-3.95 cm long ($\bar{X} = 3.22 \pm 0.37$ cm; $N = 24$), 1.68-2.3 cm broad ($\bar{X} = 1.99 \pm 0.17$ cm; $N = 24$). The diaspores from the former fruits are 2.24-3.56 cm long ($\bar{X} = 2.95 \pm 0.34$ cm; $N = 24$), 1.32-1.82 cm broad ($\bar{X} = 1.59 \pm 0.14$ cm; $N = 24$). Dried fruits from herbarium specimens, ellipsoid, many-ribbed, 1.96-3.28 cm long ($\bar{X} = 2.51 \pm 0.26$ cm; $N = 39$), 1.34-2.56 cm broad ($\bar{X} = 1.63 \pm 0.20$ cm; $N = 39$); flesh portion originated from the accrescent flower tube usually thin.

Phenology - Flowering material in March, and July to October. Immature fruits in February, April to June, and November; mature fruits in March, and June to October.

Distribution and habitat (Fig. 53) - Species only known from few collections of Bahia, Espírito Santo, and Rio de Janeiro in the Ombrophilous Dense Forest, from 35 to 1100 m altitude.

Comments - Until now, in most herbaria, *Cryptocarya riedeliana* was identified as *C. moschata* Nees & Martius or *C. aschersoniana* Mez. I decided to separate it from these species mainly because it looks distinct, but also because it has a clearly different field aspect. The key character to distinguish *C. riedeliana* from both *C. moschata* and *C. aschersoniana* is the combination of its leaves coriaceous to rigid-coriaceous, above shining and mostly poorly reticulate, beneath paler, rather dull, with papillae inconspicuous, midrib impressed to level

above, prominulous towards the base, prominulous to prominent towards the base below, petioles long and stout, nearly always acanaliculate, flowers with tepals narrower, flower tube shorter and narrower, stamens of androecial whorls I and II smaller due to filaments smaller, stamens of androecial whorl III larger due to filaments larger, and fruits strictly prolate, larger, manifestly ribbed. None of these features by itself would warrant specific recognition, but their constant combination makes *C. riedeliana* quite distinct. The bark of the here recognised new species is dark brown to brown-grayish, rough, rugose, with lenticels, without flaking. This, together with the slightly different phenology, sets *C. riedeliana* apart from its congenics.

Specimens examined - 48 (listed in appendix 13.3).

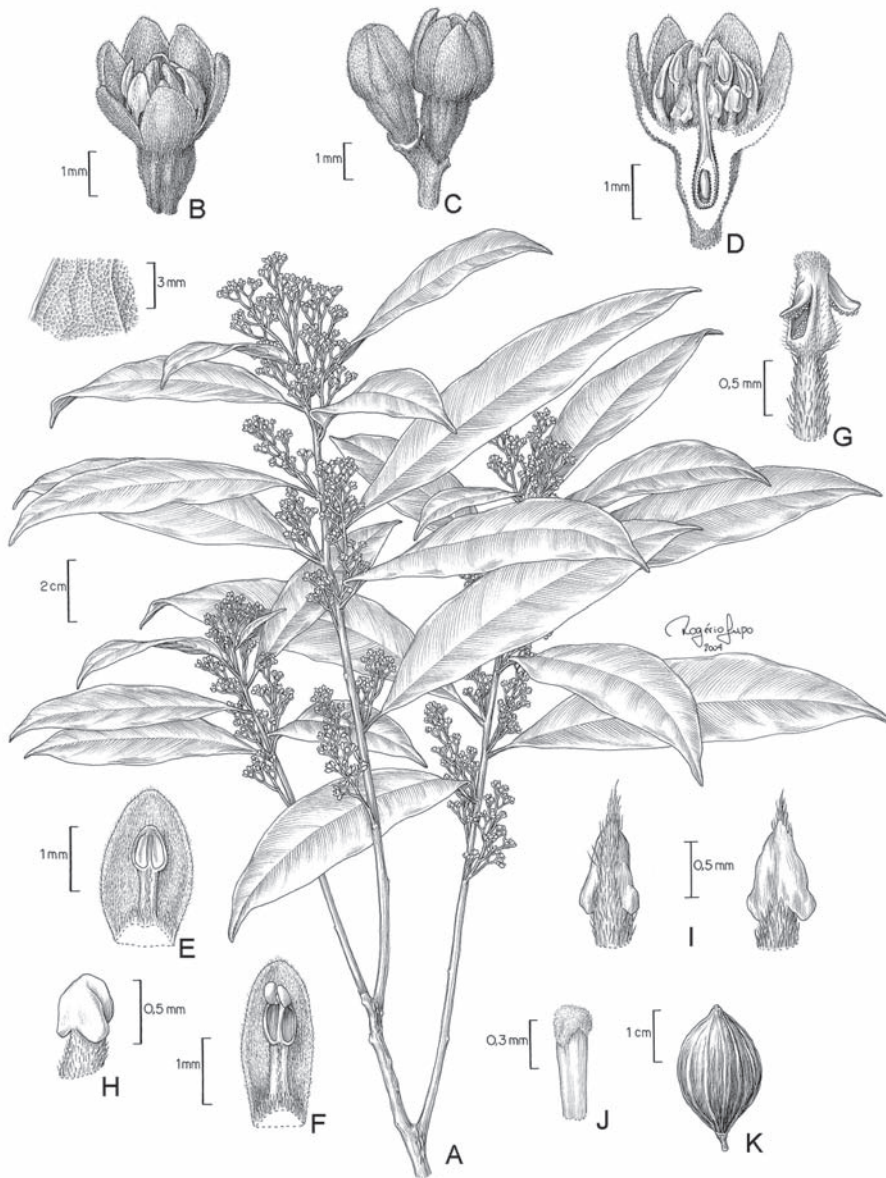


Fig. 50. *Cryptocarya riedeliana* P.L.R. de Moraes (habitus and floral parts: from Duarte 7991). A. Habitus; B, D. Flowers; C. Flower bud; E. Stamen of whorl I; F. Stamen of whorl II; G. Stamen of whorl III; H. Gland; I. Staminodes; J. Detail of style and stigma; K. Fruit (from Moraes 2465).

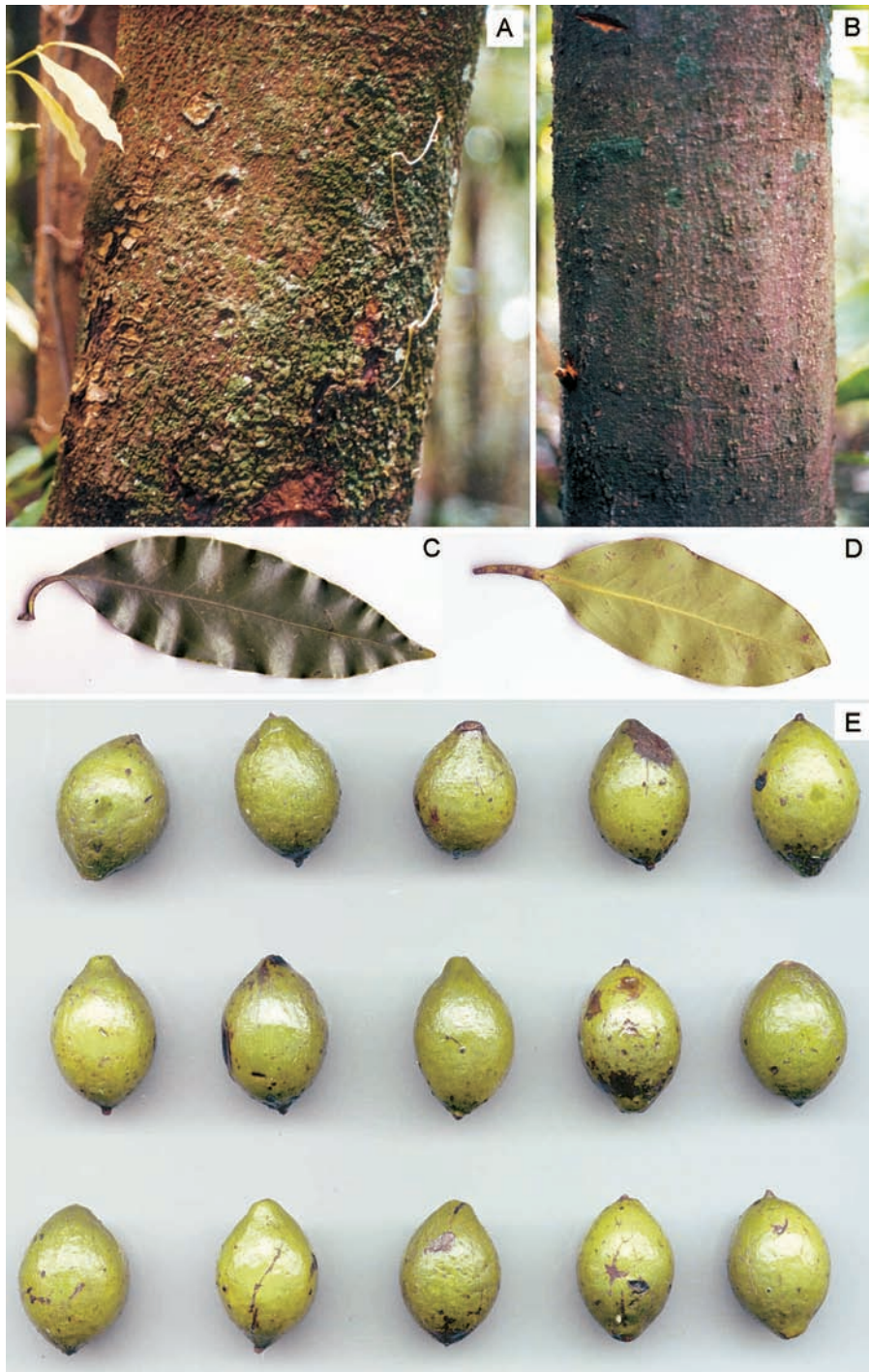


Fig. 51. *Cryptocarya riedeliana* P.L.R. de Moraes. A-B. Barks; C-D. Detail of leaves; E. Fruits collected at Serra da Estrela, Petrópolis, RJ, June 2001. (Photographs by author).

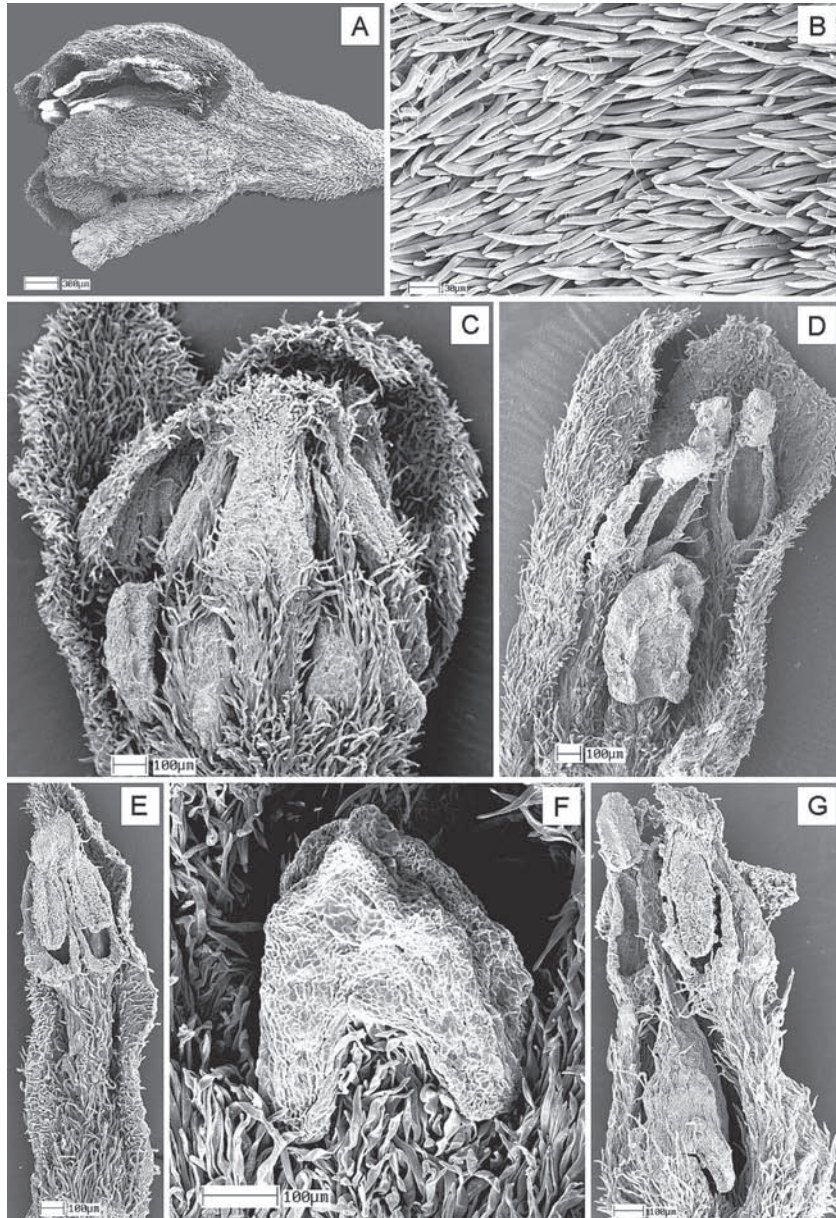


Fig. 52. SEM micrographs of flowers of *Cryptocarya riedeliana* P.L.R. de Moraes. A. Flower bud (from *Glaziou 1516*, C); B. External indument (from *Duarte 7991*, RB); C. Longitudinal section of flower bud (from *Duarte 7991*, RB); D. Adaxial side of stamens of the androecial whorls I and II, introrses, and gland (from *Glaziou 1516*, C); E. Adaxial side of stamen of androecial whorl I (from *Duarte 4990*, RB); F. Adaxial side of gland (from *Duarte 7991*, RB); G. Abaxial/lateral sides of stamens of the androecial whorl III, lateral-extrorses, and staminode (from *Duarte 4990*, RB). (Photomicrographs by author).

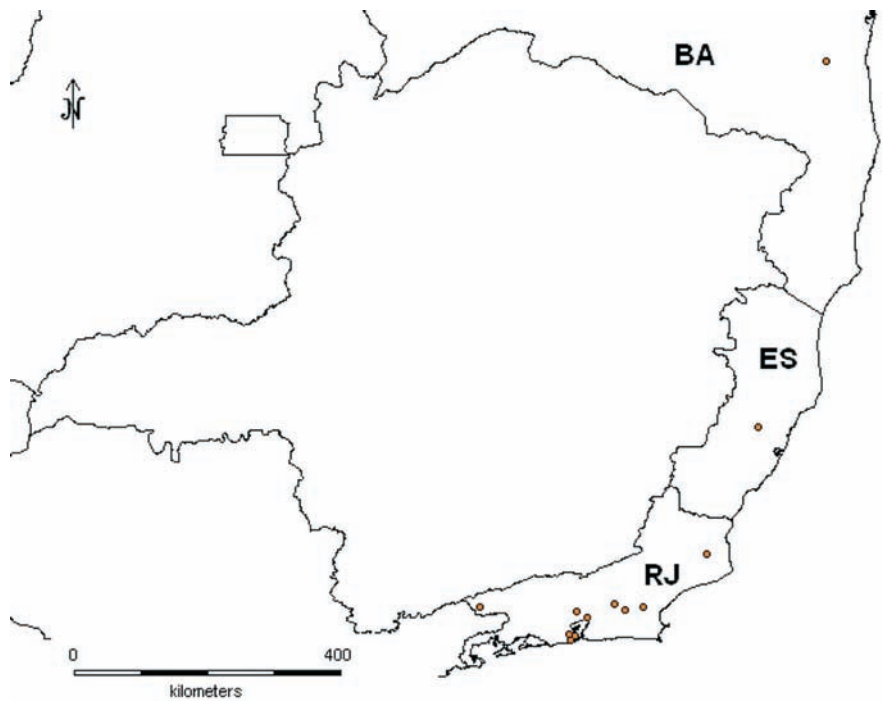


Fig. 53. Distribution of *Cryptocarya riedeliana* P.L.R. de Moraes.

9. *Cryptocarya saligna* Mez

Jahrb. Königl. Bot. Gart. Berlin 5: 13 (1889). – Lectotype (designated by Moraes, 2005a): Brazil. Rio de Janeiro, “loco non indicato”, “Alto Macahé de Nova Friburgo” (fide Glaziou, 1910), s.d. (19 Dec. 1881, see discussion) (fl.), *A.F.M. Glaziou 14205* [C!, photo in UEC! (lectotype designated by Kostermans, 1937: B[†], F Neg. No. 3847!); isolectotypes: BR-868700! (photo in UEC!), F-647868! (type fragment from B[†], photo in UEC!), G (negatives in UEC!), K! (cibachrome in UEC!), IAN-93770! (photo in UEC!), LE (photo in UEC!), MO-1580358! (photo in UEC!), NY-00355049! (photo in UEC!), P-00221787 (photo in UEC!), S (photo and photocopy in UEC!), U (right-hand specimen, photo in UEC!), US-2546803 (photo in UEC!), US-00099523 (photo in UEC!)]. Plate XII A (cf. Appendix 13.5).

= *Cryptocarya longistyla* Mez, in P. Taubert's *Plantae Glaziovianae novae vel minus cognitae*, *Bot. Jahrb. Syst.* 17: 518 (1893). – Lectotype (designated by Moraes, 2005a): Brazil. Rio de Janeiro, Nova Friburgo, “in Monte Alto Macahé”, Jan. (18 Jan. 1892; see discussion) (fl.), *A.F.M. Glaziou 19801* [C!, sheet with the label of “Herbarium Eug. Warming”, with handwriting notes of “19801”, “Rio de Janeiro, Alto Macahé de Nova Friburgo”, and “18 Jan. 1892”, plus scale with number 22066; F Neg. No. 22066!; photocopy and photo in UEC! (Holotype: B[†]); isolectotypes: C! (photocopy and photo in UEC!), F-620002! (type fragment from B[†], photo in UEC!), G (2 sheets, negatives in UEC!), IAN-93772! (photo in UEC!), K! (cibachrome in UEC!), LE (photo in UEC!), MO-1580357! (photo in UEC!), MO-1671013!, NY-00355042! (photo in UEC!), NY-00355043!, NY-00355044! (photo in UEC!), OUPR-8924! (photo in UEC!), P-00221217 (photo in UEC!), R-30933!, RB-48685! (2 sheets, photos in UEC!), U (left-hand specimen, photo in UEC!), U-0017930!, US-00099507 (photo in UEC!), US-00099508 (photo in UEC!)]. Plate XII B (cf. Appendix 13.5).

Illustrations - Vattimo-Gil (1956, Estampa 1 – fruiting habit; 1957, Fig. 5, habit and fruit), Vattimo-Gil (1959, Estampa 1, Fig. 8, fruit; Fig. 9, leaf), Vattimo-Gil (1966a, Fig. 209-212, flower pieces), Vattimo-Gil (1966b, Fig. 1-11, flower pieces; 56, leaf; 57, 60, fruits), Coe-Teixeira (1965, táb. I, Fig. 2, leaf and flower pieces, leaf and fruit), Moraes (2003, pr. 3, L, flowering habit; M-N, flower and stamen of androecial whorl I; O, fruit).

Vernacular names - Anhuvinha-branca, canela-ameixa, canela-bosta, canela-gosmenta, canela-oiti, canela-sassafráz, canela-sebosa, canelinha, tabucuva-preta.

Description - *Trees* up to 30 m tall, trunk cylindrical, frequently multistemmed, DBH 9.96-146.74 cm (\bar{X} = 41.02 ± 29.78 cm; N = 61), bark grayish, smooth to rugose, with lenticels (Fig. 54 A-C). *Branches* terete, gray or dark brown, with longitudinal lenticels. *Branchlets* 5 cm below terminal bud c. 1.2-2.4 mm in diam., light yellowish to brownish to grayish, initially angular from the beginning, sub-cylindrical towards the base, smooth or sulcate or striate, glabrous or glabrescent or pubescent with ± short, ± appressed hairs. *Petioles* 5.0-10.5 mm long, 1.2-1.6 mm thick, canaliculate, roundish below, glabrous to glabrescent towards the base. *Leaves* alternate, narrow-elliptical to elliptic-lanceolate to obovate, 2.6-12.1 cm long, 0.9-4.7 cm broad, chartaceous to rigid-chartaceous (Fig. 55 A-F); young leaves sparse pubescent on both surfaces, whereas mature leaves are usually glabrous on both surfaces, but rarely glabrescent mainly on the midrib below, tip acute to acuminate to caudate-acuminate (short to long), base acute to attenuate, revolute, margin flat to slightly recurved, sclerified; above somewhat shining,

rather poorly reticulate; beneath paler, dull, with papillae inconspicuous, often glaucous; midrib impressed to level or slightly depressed above, prominent below, secondary veins (4-14 per side) patent, arcuate, poorly reticulate to slightly raised above, poorly to slightly salient below; tertiary venation poorly to prominulously reticulate below; venation pattern camptodromous-brochidodromous. *Inflorescences* green, glaucous, axillary, thyrso-paniculate, pyramidal, many-flowered, 0.8-1.3 mm in diam. at the base, 2.0-11.0 cm long, lax, either sparsely pubescent to densely pubescent, with \pm short, \pm appressed hairs, or glabrescent to glabrous, usually shorter than leaves; peduncles glabrous to glabrescent or pubescent; bracteoles minute, ovate, yellowish pilose, deciduous to sub-persistent. *Flower buds* green to greenish. *Flowers* green to light yellow, or cream to cream-greenish, glabrous to glabrescent (Fig. 56 A) or slightly to densely yellowish or rusty-tomentellous, with \pm short, \pm appressed hairs, pruinose, (2.0-)2.4-3.3(-4.13) mm long, 1.2-1.73(-2.0) mm in diam. at apex; tube cylindrical to obconical-sub-urceolate, glabrous within, (0.7-)0.9-1.35(-1.6) mm long, (0.5-)0.64-0.9(-1.1) mm in diam.; pedicels sparsely to densely tomentellous, (0.3-)0.77-1.3(-1.55) mm long; tepals (Fig. 56 B) subequal, erect-patent, (0.6-)0.83-1.31(-1.5) mm long (\bar{X} = 1.05 \pm 0.15 mm; N = 10), 0.43-0.77 mm broad (\bar{X} = 0.62 \pm 0.12 mm; N = 9), concave, incurved at apex, narrowly ovate to ovate-elliptical, roundish to acutish, margin and within hirsute; stamens included to exerted; stamens of whorls I and II introrse, 0.48-0.76 mm long (\bar{X} = 0.63 \pm 0.09; N = 10), anthers glabrous, broadly ovate, 0.21-0.54 mm long (\bar{X} = 0.41 \pm 0.29 mm; N = 19), 0.26-0.59 mm broad (\bar{X} = 0.40 \pm 0.09 mm; N = 16), connectives papillose, slightly prolonged beyond the large sporangia, tip acutish to obtuse, filaments as long as or shorter than anthers, glabrescent to densely hirsute, adnate to the tepals (Fig. 56 C); stamens of whorl III lateral, 0.73-1.04 mm long (\bar{X} = 0.84 \pm 0.08 mm; N = 16), anthers glabrous, narrowly ovate, 0.36-0.66 mm long (\bar{X} = 0.52 \pm 0.07 mm; N = 21), 0.22-0.37 mm broad (\bar{X} = 0.29 \pm 0.04 mm; N = 12), connectives thick, obtuse, strongly protruding beyond the large sporangia, filaments as long, nearly as broad, densely hirsute (Fig. 56 D); glands small, globose, 0.27-0.49 mm long (\bar{X} = 0.34 \pm 0.05 mm; N = 18), 0.22-0.46 mm broad (\bar{X} = 0.33 \pm 0.08 mm; N = 18), sub-sessile to shortly pedicelled (Fig. 56 F); staminodes narrowly sagittate, glabrous, 0.4-0.75 mm long (\bar{X} = 0.58 \pm 0.11 mm; N = 13), 0.22-0.32 mm broad (\bar{X} = 0.25 \pm 0.04 mm; N = 4), stalks very short, pilose (Fig. 56 E); gynoecium exerted, c. 1.4-2.35(-2.5) mm long (\bar{X} = 1.83 \pm 0.28 mm; N = 13), glabrous, ovary ellipsoid, c. 0.55-0.87(-1.0) mm long (\bar{X} = 0.69 \pm 0.08 mm; N = 13), 0.27-0.54 mm in diam. (\bar{X} = 0.36 \pm 0.06 mm; N = 14), gradually merging into the cylindrical-conical, gradually narrowed, towards top very slender, glabrous, 0.87-1.6 mm long (\bar{X} = 1.15 \pm 0.25 mm; N = 13) style with minute, truncate stigma (Fig. 56 G). *Immature fruits* green (Fig. 57 A) with pericarp slightly ribbed. *Fruits* yellow to orange-yellowish, or orange, or orange-greenish, or red, relatively large, ellipsoid to pyriform, smooth, c. 1.47-4.94(-5.5) cm long (\bar{X} = 3.26 \pm 0.53 cm; N = 373), c. (0.87-)0.95-2.84(-3.0) cm in diam. (\bar{X} = 1.92 \pm 0.32 cm; N = 373) (Fig. 9 N, 57 B); flesh portion originated from the accrescent flower tube thin.

Phenology - Flowering material from August to January, with only one collection in May, main flowering time October to November. Fruiting material throughout the year, but mainly immature fruits. Mature fruits mostly from September to

December. Several collections with both flowers and fruits in September and October.

Distribution and habitat (Fig. 58) - Species only known from southeast Brazil, mainly collected in the Ombrophilous Dense Forest, but also in Semi-deciduous forests of Minas Gerais, from sea level (?) – 150 m to 700-1125 m altitude. Low frequency in the Atlantic Rain Forest, but several populations in the state of São Paulo at Pariqüera-Açu, E.E. de Juréia-Itatins, P.E. da Cantareira, and P.E. da Serra do Mar, Nucleus Picinguaba, at a relatively high density of adult forest patches.

Uses - Agripino *et al.* (2004) demonstrated that extracts from the leaves of *C. saligna*, collected at E.E. Juréia-Itatins, SP, have limited antimicrobial and DNA-damaging properties. Rolim & Chiarello (2004) reported that *C. saligna* is also used as a shade tree for cocoa in the cabruca system in the state of Espírito Santo.

Comments - *Cryptocarya saligna* is recognised by its usually narrow-elliptic, discolored leaves, often glaucous on the lower surface, nearly glabrous, flowers with gynoecium exserted. Collections from Linhares, ES, and Caratinga, MG, present glabrescent leaves on the lower surface, mainly on the midrib. In São Paulo state, populations of the northern coastal region have fruits that are larger and more reddish than those from the southern coast that are orange.

Specimens examined - 127 (listed in appendix 13.3).



Fig. 54. Appearance of barks of *Cryptocarya saligna* Mez. A. Multistemmed tree from Pariçüera-Açu, SP; B. Reserva Natural da CVRD, Linhares, ES; C. Detail of bark from A. (Photographs by author).

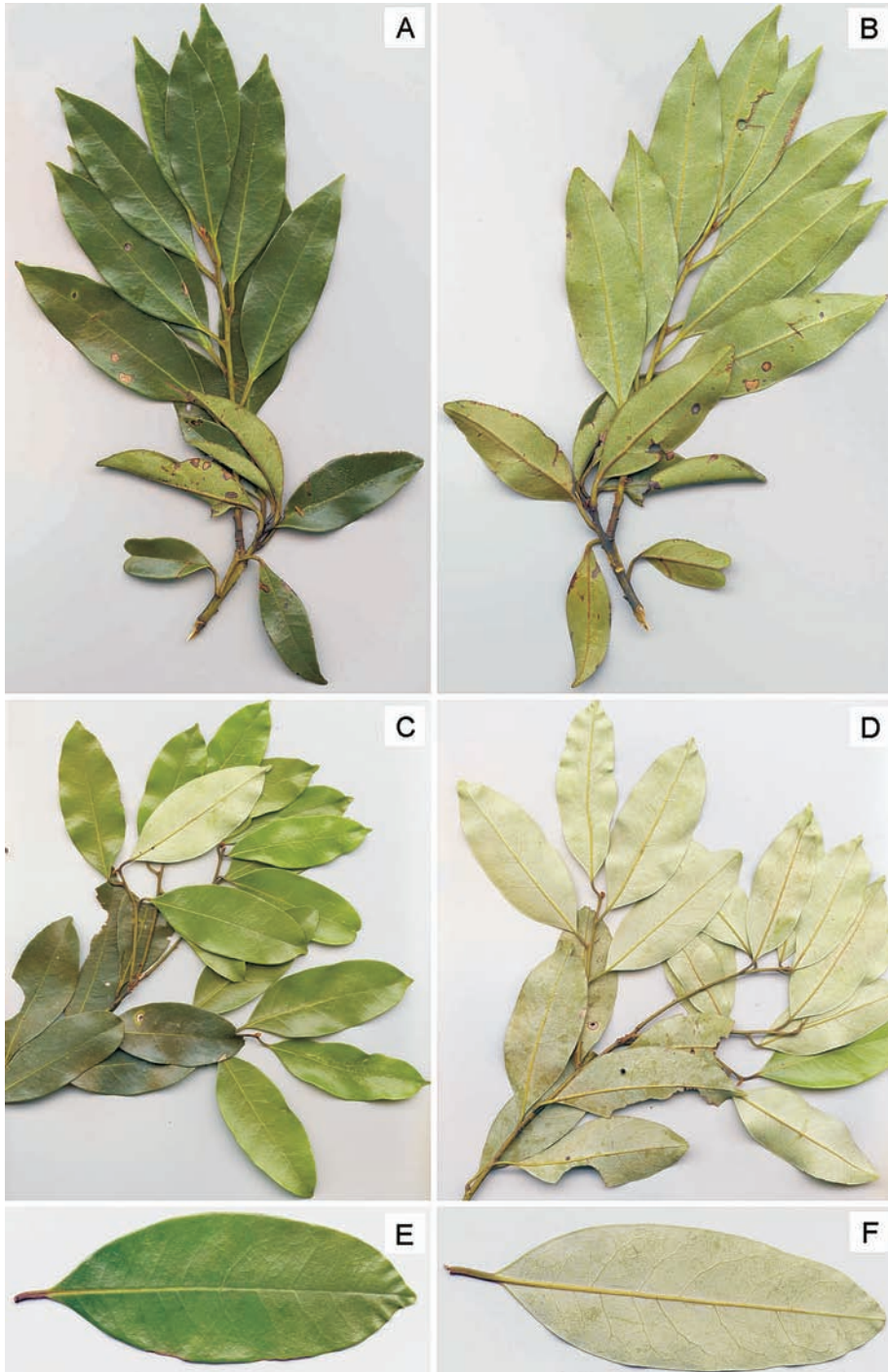


Fig. 55. *Cryptocarya saligna* Mez. A-B. Branches collected at Serra da Estrela, Petrópolis, RJ; C-D. Branches collected at Pariçüera-Açu, SP; E-F. Detail of leaves. (Photographs by author).

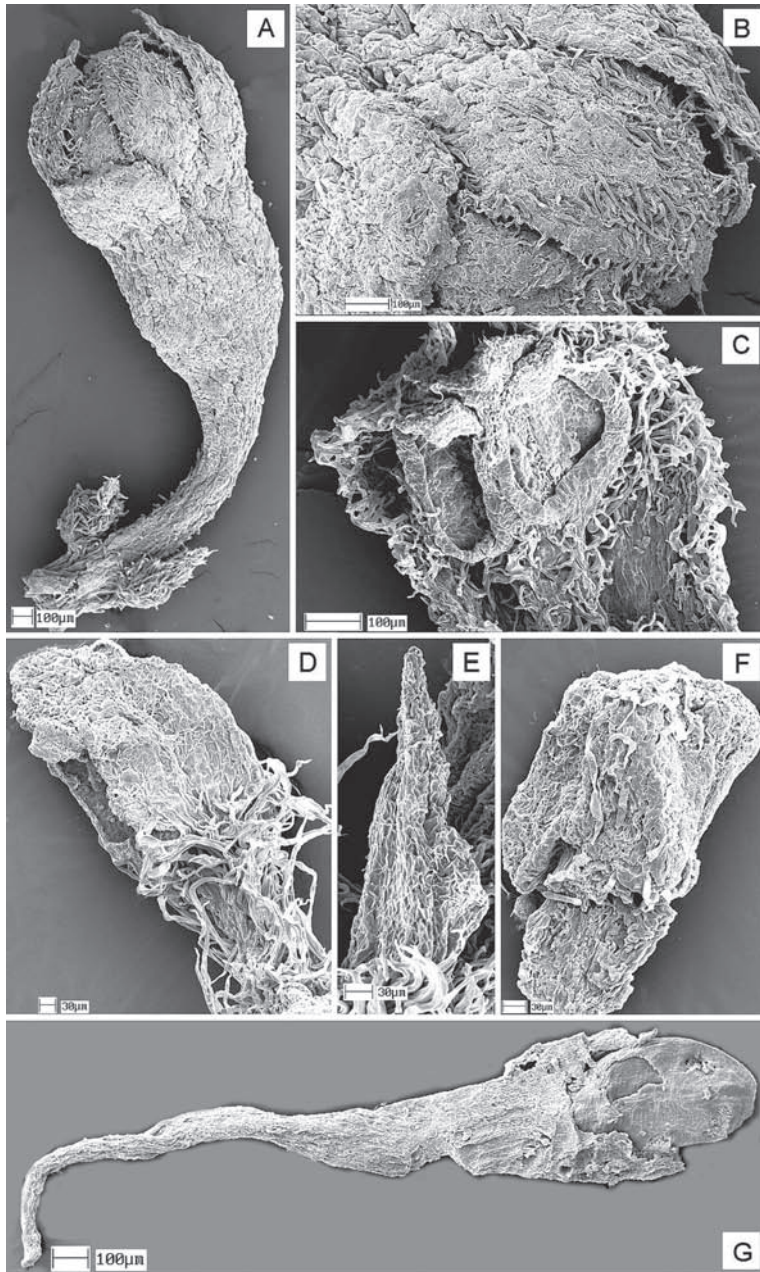


Fig. 56. SEM micrographs of flowers of *Cryptocarya saligna* Mez.
 A. Flower bud (from *Glaziou 14205*, IAN); B. Detail of external indument
 (from *Glaziou 14205*, IAN); C. Adaxial side of stamen of the androecial
 whorl I, introrse (from *Glaziou 19801*, RB); D. Adaxial side of stamen of
 the androecial whorl III, lateral-extrorse (from *Glaziou 19801*, RB);
 E. Staminode (from *Glaziou 19801*, RB); F. Gland (from *Glaziou 14205*,
 IAN); G. Gynoecium (from *Glaziou 14205*, IAN).
 (Photomicrographs by author).



Fig. 57. *Cryptocarya saligna* Mez. A. Unripe fruits collected at Serra da Estrela, Petrópolis, RJ, in June 2001; B. Ripe fruits collected at Pariquera-Açu, SP, in October 2000. (Photographs by author).

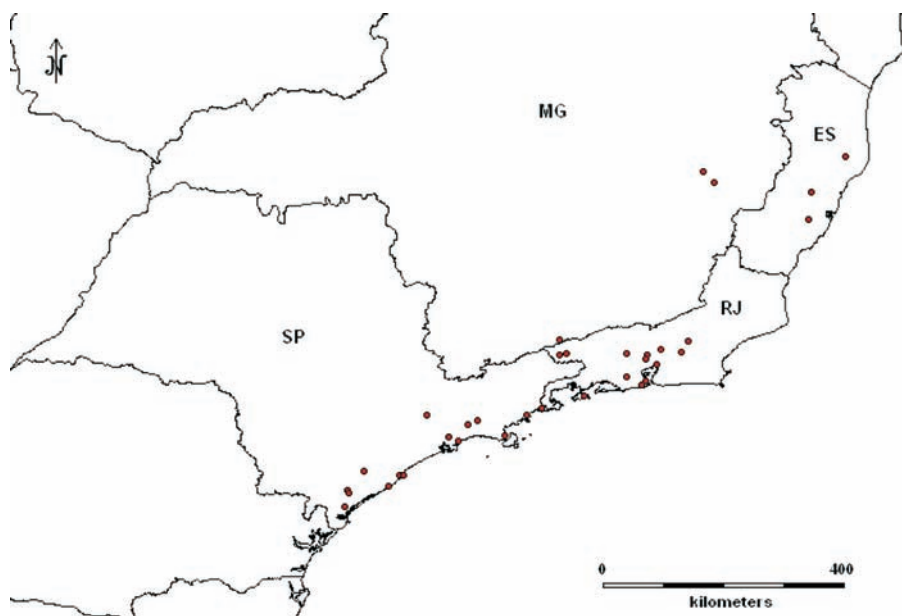


Fig. 58. Distribution of *Cryptocarya saligna* Mez.

10. *Cryptocarya sellowiana* P.L.R. de Moraes sp. nov.

Holotype: Brazil. Minas Gerais, Santa Bárbara, Represa de Peti, 23 Apr. 1992 (fr.), A.T. Oliveira Filho et al. s.n. (ESAL-13252!; isotype: UEC-142307!). Fig. 59; Plate XIII B (cf. Appendix 13.5).

Ab omnibus speciebus *Cryptocaryae* ex regione Neotropica foliorum indumento, laminis infra pilis longis, ± erectis vestitis, petiolis supra profunde canaliculatis, pilis longis ± appressis, ± ascendentibus, pedunculis tomentosis, longis, ± ascendentibus instructis, fructibus laevibus, pilosis, frustis floralibus apicem versus persistentibus differt.

Differs from other species of Neotropical *Cryptocarya* in the indument of leaves, abaxially covered with long, ± erect straight hairs, petioles deeply canaliculate above, covered with long, ± appressed, ± ascending hairs, peduncles tomentose, with long, ± ascending hairs, fruits smooth, pilose, with remnant of flower pieces at apex.

Etymology - This species is named in honour of Friedrich Sellow, Prussian botanist who lived in Brazil from 1814 to 1831.

Vernacular name - Canela-pião.

Description - *Trees* 9-12 m tall, trunk cylindrical, DBH 12.7 cm, bark rough. *Branches* terete, brownish, with longitudinal lenticels, glabrous. *Branchlets* 5 cm below terminal bud c. 1.6-2.6 mm in diam., light brownish, initially slightly angular to flat from the beginning, slightly striate, with longitudinal lenticels, sparse pubescent to glabrescent towards the base, with long, ± appressed and ± ascending hairs; terminal buds minute, ovoid, tomentose, completely covered by yellowish, long, ascending hairs. *Petioles* 8.2-9.8 mm long, 1.3-1.7 mm thick, deeply canaliculate above, roundish below, glabrescent to sparse pubescent, with long, ± appressed and ± ascending hairs. *Leaves* alternate, lanceolate to obovate, 8.1-12.4 cm long, 3.3-4.2 cm broad, chartaceous to stiffly chartaceous, glabrescent above, pubescent below, with long, ± erect straight hairs, tip obtuse or rounded to short acuminate, base acute, margin flat to slightly recurved, sclerified; above somewhat shining, prominulous reticulate; beneath paler, with papillae conspicuous; midrib prominulous above, prominent below, secondary veins patent (6-10 per side), prominulous above, prominent below; tertiary venation rather lax, prominulously reticulate below; venation pattern camptodromous-brochidodromous. *Inflorescences* unknown, however, remnant peduncles are axillary, subterminal, 1.0-1.3 mm in diam. at the base, long, tomentose, with long, ± ascending hairs. Remnant of *flowers* from fruits indicate they are completely covered by yellowish, ± long, ± ascending hairs. *Fruits* black, globose, c. 2.2 cm long, c. 1.77 cm in diam., smooth, with remnant of flower pieces at apex.

Phenology - Flowering period unknown. Fruiting material in April, June and August.

Distribution and habitat (Fig. 60) - Species only known from the type and two other collections from the region of Rio Piracicaba, MG, c. 20 to 30 km distant from each other, in Semi-deciduous forests, c. 620-730 m altitude.

Uses - Unknown at present.

Comments - *Cryptocarya sellowiana* is a locally distinctive taxon, seemingly close related to *C. mandioccana*. In contrast to all the other species, it is easily recognised by its leaves abaxially covered with long, ± erect straight hairs, petioles deeply canaliculate above, covered with long, ± appressed ± ascending hairs, peduncles tomentose, with long, ± ascending hairs. In fruiting material it is possible to sort the species apart, because its mature fruits are smooth, and still hairy, with remnant of flower pieces at apex. The species could be considered a local variation of *C. mandioccana* so further study is needed to clarify the intraspecific relationships within this new species.

Specimens examined - 3 (cf. in appendix 13.3).

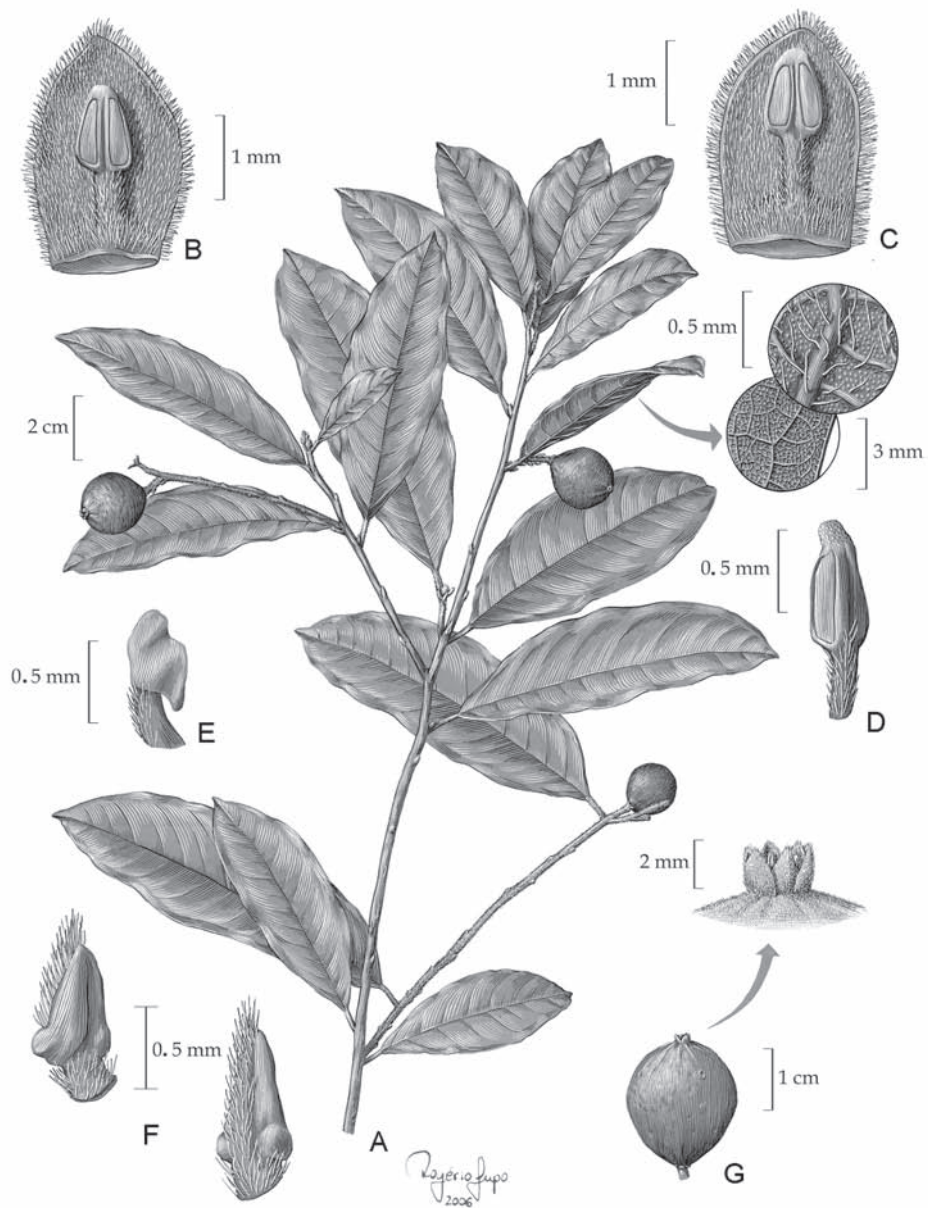


Fig. 59. *Cryptocarya sellowiana* P.L.R. de Moraes. A. Habitus; B. Stamen of whorl I; C. Stamen of whorl II; D. Stamen of whorl III; E. Gland; F. Staminodes; G. Fruit with remnants of flower (from Oliveira Filho et al. s.n., ESAL-13252).



Fig. 60. Distribution of *Cryptocarya sellowiana* P.L.R. de Moraes.

11. *Cryptocarya subcorymbosa* Mez

Arbeiten Königl. Bot. Gart. Breslau 1: 106 (1892). – Lectotype (designated by Moraes, 2005a): Brazil. “in Brasilia, loco ignoto” (Rio de Janeiro, “Alto Macahé de Nova Friburgo” – fide Glaziou, 1910), s.d. (18 Aug. 1890 – in sched.) (young fl.), *A.F.M. Glaziou 18436* [C!, photo in UEC! (Holotype: B[†], photo F Neg. No. 3848!); isolectotypes: BR-880631! (photo in UEC!), F-647869! (Photo F Neg. No. 3848! and fragments! from B[†], photo in UEC!), G (negatives in UEC!), K! (cibachrome in UEC!), LE (photo in UEC!), OUPR-8935! (photo in UEC!), P-00221221 (photo in UEC!), P-00221222 (photo in UEC!), P-00221223 (photo in UEC!), U (photo in UEC!]. Plate XIV B (cf. Appendix 13.5).

= *Cryptocarya minutiflora* Mez, *Bot. Jahrb. Syst.* 30(67): 11 (1902). – Lectotype (designated by Moraes, 2005a): Brazil. “loco non indicato”, “Rio de Janeiro, Alto Macahé de Nova Friburgo – fide Glaziou, 1910”, s.d. (1890/91 – in sched. B; Jun.-Jul. fide Glaziou, 1910) (fl.), *A.F.M. Glaziou 18437* [K!, cibachrome in UEC! (Holotype: B[†], Photo F Neg. No. 3846!); isolectotypes: BR-837724! (photo in UEC!), G (negatives in UEC!), LE (photo in UEC!), P-00221224 (photo in UEC!), P-00221225 (photo in UEC!), P-00221226 (photo in UEC!). Plate XIV A (cf. Appendix 13.5).

Vernacular names - Canela.

Description - *Trees* large (fide Glaziou, 1910), 10-20 m tall, trunk cylindrical, sometimes multistemmed, bark brownish to brownish yellow, rugose, with lenticels, without flakes (Fig. 61). *Branches* terete, dark-brown, with longitudinal lenticels. *Branchlets* 5 cm below terminal bud c. 1.1-3.2 mm in diam., dark-brown, initially subangular to cylindrical from the beginning, smooth, glabrous; terminal buds minute, dense yellowish-tomentellous. *Petioles* thin, 4.6-14.0 mm long, 0.8-1.8 mm thick, deeply canaliculate, roundish below, rugose, glabrous. *Leaves* (Fig. 62) alternate, lanceolate to elliptic-lanceolate or obovate, 3.3-11.3 cm long, 1.0-4.6 cm broad, chartaceous to stiffly chartaceous (seldom coriaceous), tip either short acuminate or sub-rounded, base fairly frequently acute sub-acuminate, margin flat, slightly incurved at base, sclerified; above somewhat shining, glabrous, poorly to prominently reticulate; beneath opaque, glaucescent, with papillae conspicuous, glabrous to almost glabrous, with very sparsely short, appressed hairs mostly along midrib; midrib prominent above, impressed to level towards the base, prominent below, secondary veins (4-10 per side) slightly raised on both surfaces; tertiary venation lax, poorly reticulate above, slightly raised below; venation pattern brochidodromous. *Inflorescences* axillary, paniculate, subcorymbose, pyramidal, many-flowered, 0.7-1.4 mm in diam. at base, 4.2-7.5 cm long, densely ochre-yellow tomentellous, with ± long, ± appressed hairs; peduncles rather short and thin; bracteoles minute, densely tomentose, deciduous. *Flowers* (Fig. 63) whitish (Glaziou, 1910), densely yellowish-tomentellous towards the base, with ± long, ± appressed hairs, c. 3.2-3.9(-5.0) mm long, c. 1.72 mm in diam. at apex, tube cylindrical-urceolate, 1.2-1.4 mm long, c. 1.2 mm in diam.; pedicels short, 0.48-0.64 mm long; tepals equal, 1.35-2.5 mm long, 0.84-1.36 mm broad, concave, ovate, rounded, tip obtuse, involute, pilose within; stamens included; stamens of whorls I and II introrse, 1.0-1.3 mm long ($\bar{X} = 1.16 \pm 0.11$ mm; $N = 6$), anthers glabrous, ovate, 0.54-0.84 mm long ($\bar{X} = 0.66 \pm 0.08$ mm; $N = 15$), 0.35-0.67 mm broad ($\bar{X} = 0.45 \pm 0.08$ mm; $N = 11$), connectives prolonged beyond the large sporangia, tip obtuse, truncate, filaments slender, shorter than anthers, densely pilose, adnate to tepals; stamens of whorl III lateral, 1.0-1.54 mm long ($\bar{X} = 1.32 \pm 0.19$ mm;

$N = 5$), anthers narrow-triangular, pilose, 0.73-0.98 mm long ($\bar{X} = 0.83 \pm 0.08$ mm; $N = 8$), c. 0.35 mm broad, connectives obtuse to truncate, prolonged beyond the large sporangia, filaments rather stout, shorter than anthers, pilose; glands subglobose, 0.34-0.52 mm long ($\bar{X} = 0.46 \pm 0.06$ mm; $N = 9$), 0.3-0.47 mm broad ($\bar{X} = 0.38 \pm 0.06$ mm; $N = 8$), pedicel long, densely pilose, disposed between the base of filaments; staminodes small, cordate-sagittate, 0.45-0.89 mm long ($\bar{X} = 0.71 \pm 0.17$ mm; $N = 5$), 0.35-0.59 mm broad ($\bar{X} = 0.44 \pm 0.10$ mm; $N = 4$), tip and abaxial side pilose, stalk short, pilose; gynoecium immersed in the tube, glabrous, 2.32-2.68 mm long, ovary ellipsoid, 0.81-1.02 mm long, 0.3-0.61 mm in diam., gradually merging into the about 1.41-1.61 mm long style with small, discoid stigma. *Fruits* light green, green-yellowish, yellow, globose to top-shaped, smooth or with vestigial ribs, 1.42-1.9 cm long ($\bar{X} = 1.58 \pm 0.14$ cm; $N = 12$), 1.32-1.94 cm broad ($\bar{X} = 1.54 \pm 0.20$ cm; $N = 12$), often with remnant of tepals (Fig. 64); flesh portion originated from the accrescent flower tube usually thin.

Phenology - Flowers in June to August (fide Glaziou, 1910). Immature fruits in November. Mature fruits in February and March (Curucutu).

Distribution and habitat (Fig. 65) - So far only known from ten herbarium collections of Rio de Janeiro and São Paulo, in the Upper Montane Ombrophilous Dense Forest, from 950-1300 m altitude (but also from P.E. Serra do Mar, Núcleo Curucutu, SP, alt. 750-850 m, and Serra da Estrela, RJ, alt. c. 150 m; pers. obs.).

Comments - It is here decided to reinstall *Cryptocarya subcorymbosa* as a valid species because it not only looks distinct from *C. moschata* and *C. aschersoniana* in herbarium material, but also because it is clearly different in the field (also different foliar features reported by Petzold, 1907). Its bark lacking flakes, rugose, brownish yellow in combination with petioles deeply canaliculate, leaves usually small, opaque, glaucescent and with papillae conspicuous on lower surface, midrib prominulous above, impressed to level towards the base, prominulous below, secondary veins slightly raised on both surfaces, tertiary venation lax, poorly reticulate above, slightly raised below, venation pattern brochidodromous, inflorescences and flowers densely tomentellous, and mature fruits usually small, globose to top-shaped, smooth with remnant of tepals, make this taxon distinct. Nevertheless, it should be emphasized that the present circumscription encompasses the type specimens of *C. minutiflora* and *C. subcorymbosa*, which are the only known flowering collections, and fruiting specimens of which the vegetative features perfectly matched the pattern found from Glaziou's collections.

Uses - Unknown at present.

Specimens examined - 10 (listed in appendix 13.3).

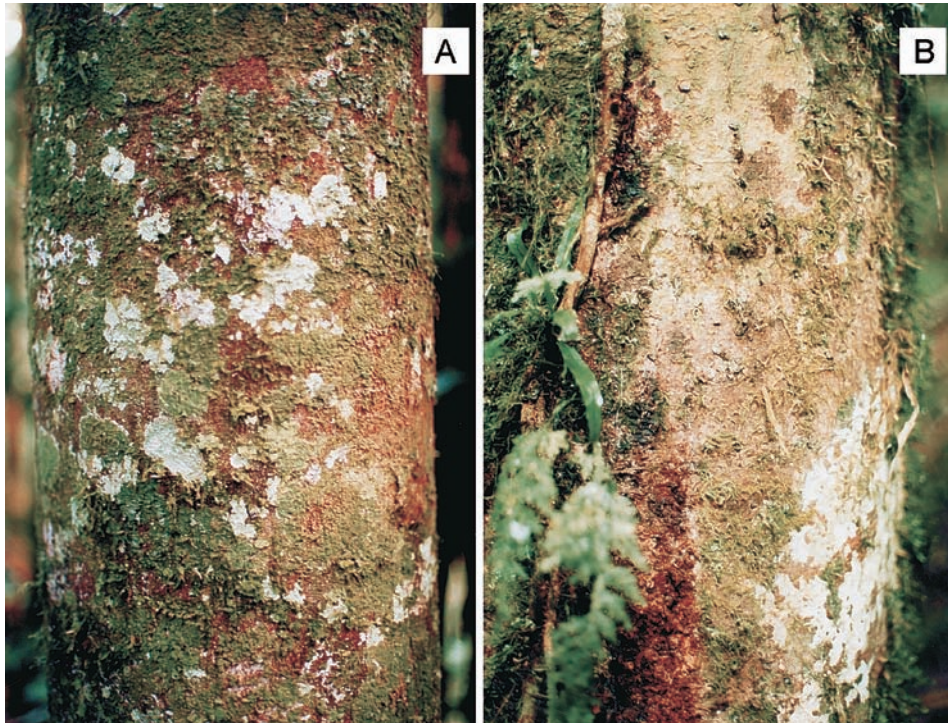


Fig. 61. Appearance of barks of *Cryptocarya subcorymbosa* Mez.
A. Serra da Estrela, Petrópolis, RJ; B. Parque Estadual da Serra do Mar,
Núcleo Cunha-Indaiá. (Photographs by author).

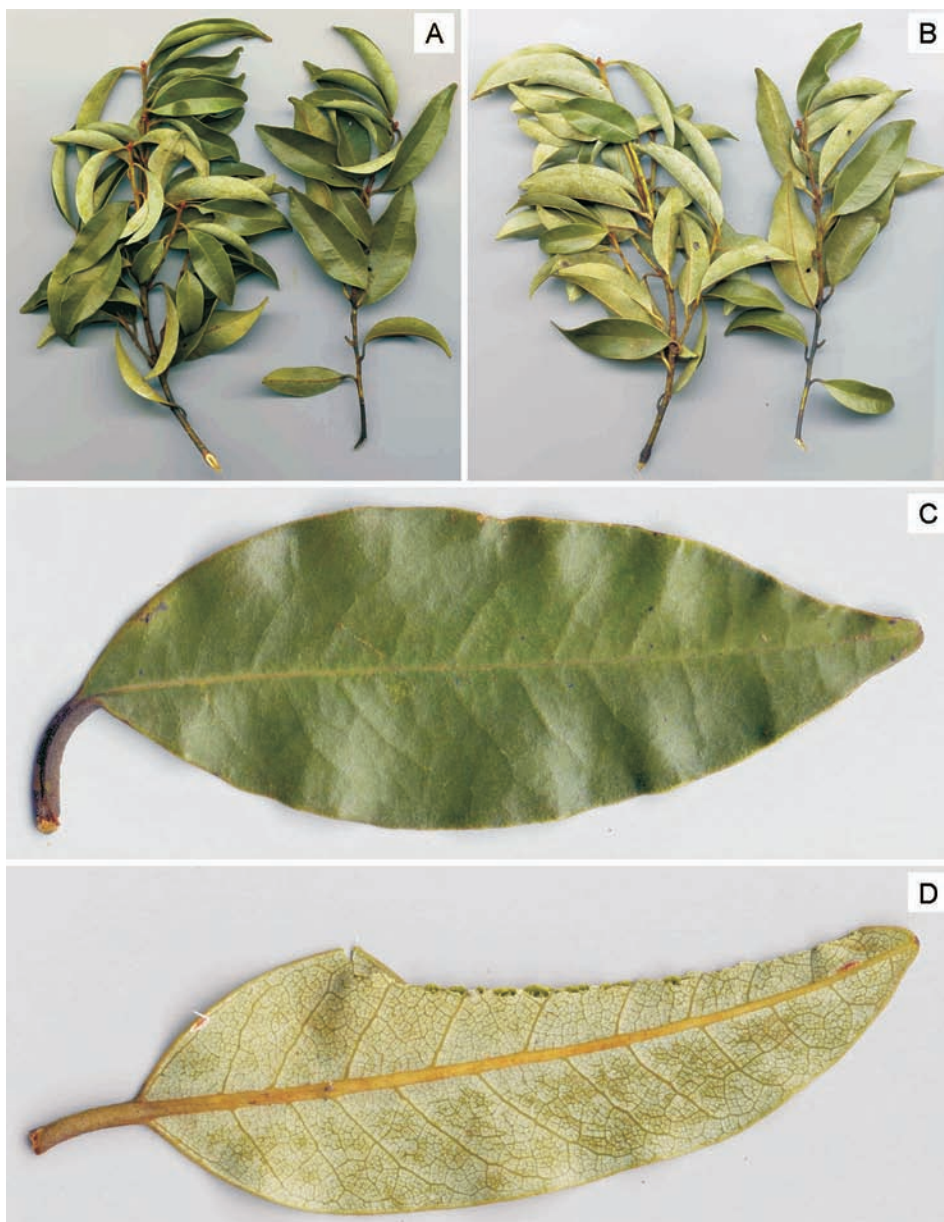


Fig. 62. *Cryptocarya subcorymbosa* Mez. A-B. Branches collected at Serra da Estrela, Petrópolis, RJ; C-D. Detail of leaves. (Photographs by author).

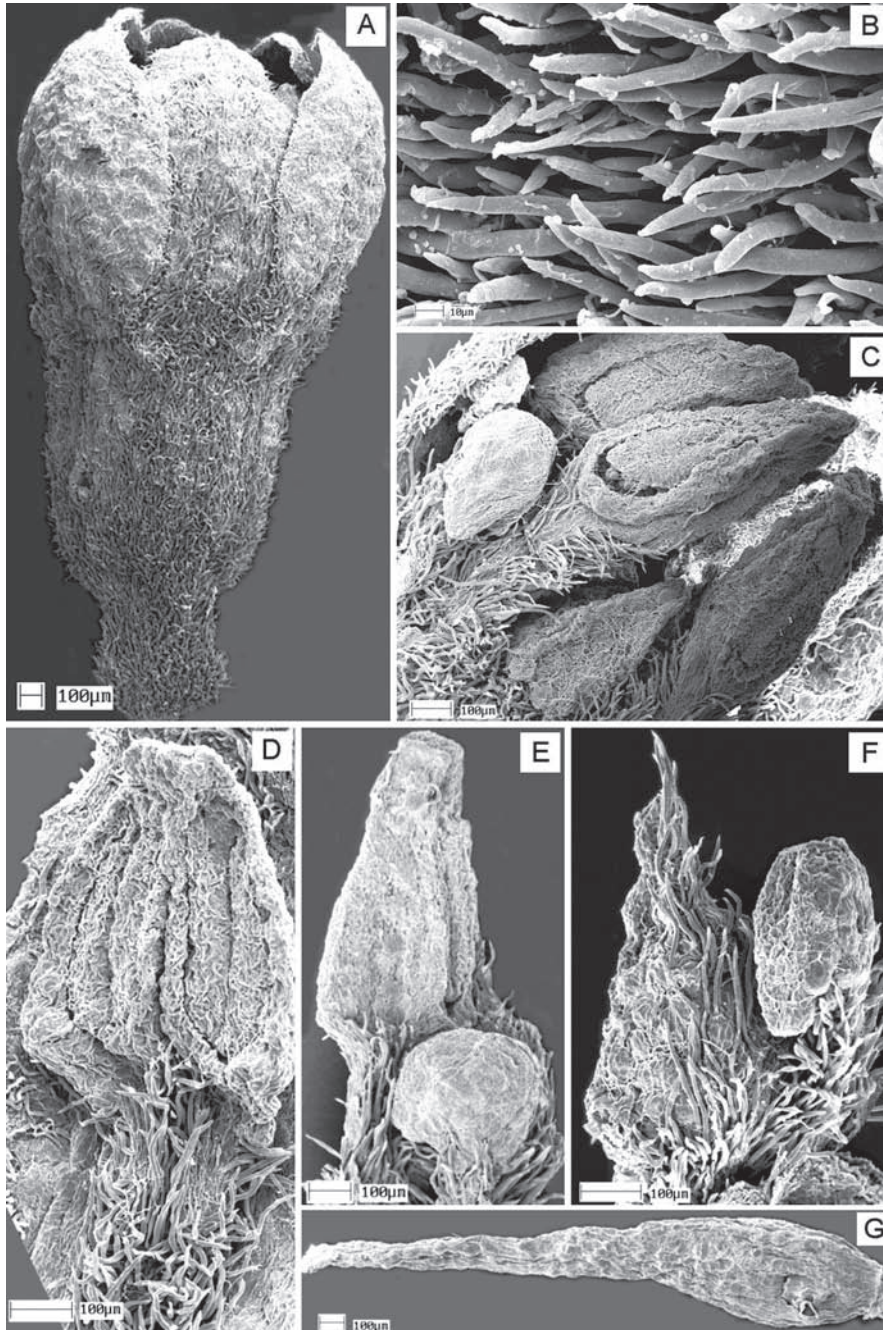


Fig. 63. SEM micrographs of flowers of *Cryptocarya subcorymbosa* Mez.

A. Flower bud; B. External indumenta; C. Longitudinal section of flower;

D. Adaxial side of stamen of the androecial whorl II, introrse;

E. Adaxial side of stamen of the androecial whorl III, lateral-extrorse, and gland;

F. Adaxial side of staminode and gland; G. Gynoecium (from *Glaziou 18436*, OUPR).

(Photomicrographs by author).

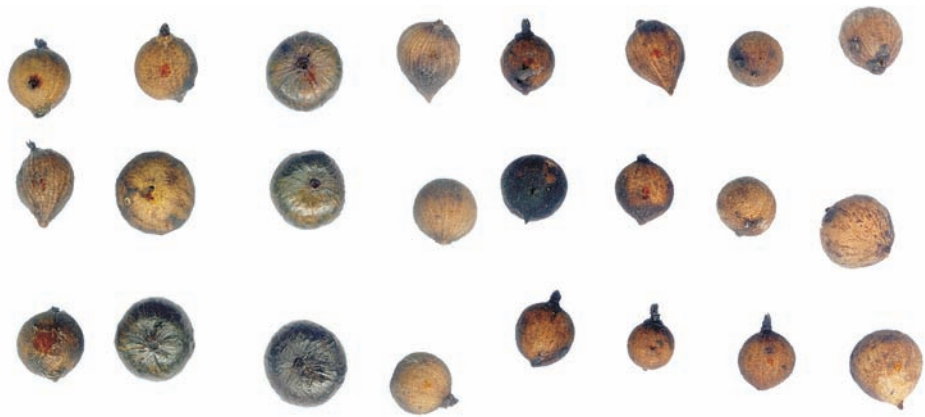


Fig. 64. Fruits and diaspores of *Cryptocarya subcorymbosa* Mez collected at P.E. Serra do Mar, Núcleo Cunha-Indaiá, SP, in February 2002. (Photograph by author).

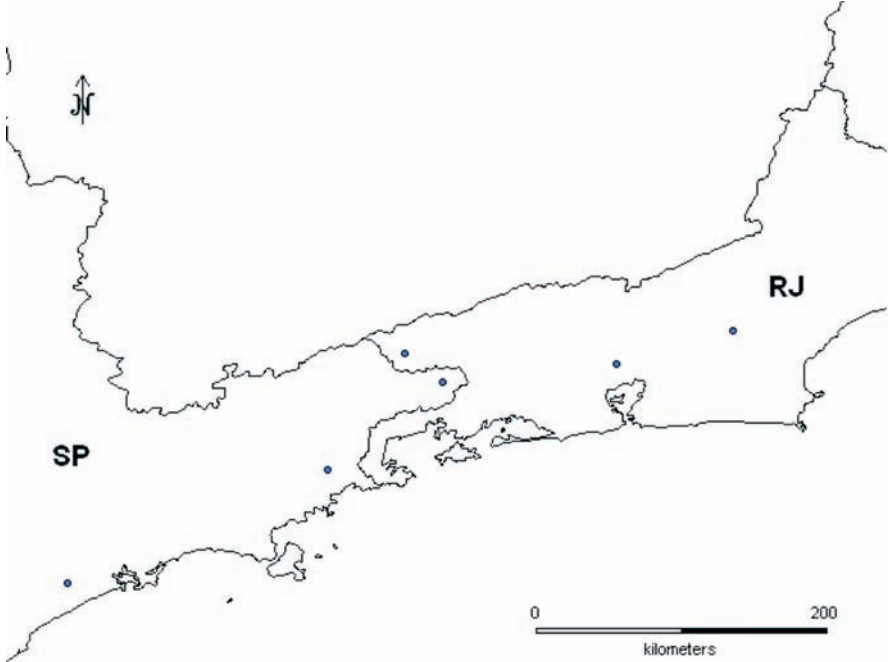


Fig. 65. Distribution of *Cryptocarya subcorymbosa* Mez.

12. *Cryptocarya velloziana* P.L.R. de Moraes sp. nov.

Holotype: Brazil. Espírito Santo, Santa Teresa, Valsugana Velha, Estação Biológica de Santa Lúcia, c. 19°58'S, 40°32'W, alt. 600-900 m, 24 Sep. 1991 (fr.), E. Bausen & M.F. dos Santos 28 (MBML!; isotypes: MO n.v., RB!, SPSF!). Fig. 66; Plate XV A (cf. Appendix 13.5).

Ab omnibus speciebus *Cryptocaryae* ex regione Neotropica foliis apicibus late acutis ad rotundatos, base obtusa, laminis rigido-coriaceis, crassis, glabris supra et infra, petiolis ad 4 mm crassos, quasi-complanatis supra differt.

Differs from other species of Neotropical *Cryptocarya* in the tip of the leaf broadly acute to rounded, base obtuse, leaf laminae rigid-coriaceous, thick, glabrous on both surfaces, petioles up to 4 mm thick, flattish above.

Etymology - This species is named in honour of José Mariano da Conceição Vellozo, author of *Florae Fluminensis*, the work that marks the onset of the study of the Brazilian flora, more specifically that of Rio de Janeiro.

Description - Trees up to 16 m tall, trunk cylindrical, DBH 6-35 cm, bark light chestnut-brown, slightly rugose, with lenticels (Fig. 67). *Branches* terete, shining, relatively smooth, striate, glabrous. *Branchlets* 5 cm below terminal bud c. 2.0-3.9 mm in diam., light yellowish to dark-brown, initially angular from the beginning, smooth to slightly striate to rugose, with longitudinal lenticels, glabrous. *Petioles* 10.0-19.6 mm long, 2.2-4.0 mm thick, acanaliculate and flattish above, roundish below, rugose, glabrous, dark (dried). *Leaves* alternate, broad-ovate, 7.2-24.0 cm long, 4.0-11.7 cm broad, rigid-coriaceous, thickness up to 1.3 mm (measured at the base), glabrous on both surfaces, tip broadly acute to rounded, base obtuse, margin flat to recurved, sclerified; above somewhat shining, prominulous reticulate; beneath paler, with papillae conspicuous; midrib prominulous to impressed to level towards the apex above, prominulous to prominent below, secondary veins patent (6-10 per side), prominulous on both surfaces; tertiary venation lax, prominulous reticulate on both surfaces; venation pattern camptodromous-brochidodromous. *Inflorescences* unknown, however, remnant peduncles are axillary, subterminal, 1.4-2.6 mm in diam. at the base, pubescent, with ± short, ± appressed hairs. *Flowers* unknown. *Immature fruits* green, slightly ribbed. *Mature fruits*, pear-shaped to ellipsoid, c. 3.16-3.46 cm long, 2.34-2.54 cm in diam., smooth.

Phenology - Flowering time so far unknown. Immature fruits in May and September; mature fruits in September.

Distribution and habitat (Fig. 68) - Species only known from few collections of Estação Biológica de Santa Lúcia, occurs in the Ombrophilous Dense Forest, from 600-900 m altitude.

Uses - Unknown at present.

Comments - *Cryptocarya velloziana* is the most distinctive new species in this treatment. It is easily recognised by its rigid-coriaceous and thick leaves, tip broadly acute to rounded, base obtuse; the overall appearance of leaves suggests a relationship with some Brazilian species of *Beilschmiedia*, such as

those of *B. rigida* and *B. linharensis*, but its fruits do not fit the concept of this genus, being typical for *Cryptocarya*. Because of its characteristic leaves, sterile material of *C. velloziana* is not likely to be confused with any other Brazilian *Cryptocarya* species.

Specimens examined - 6 (listed in appendix 13.3).

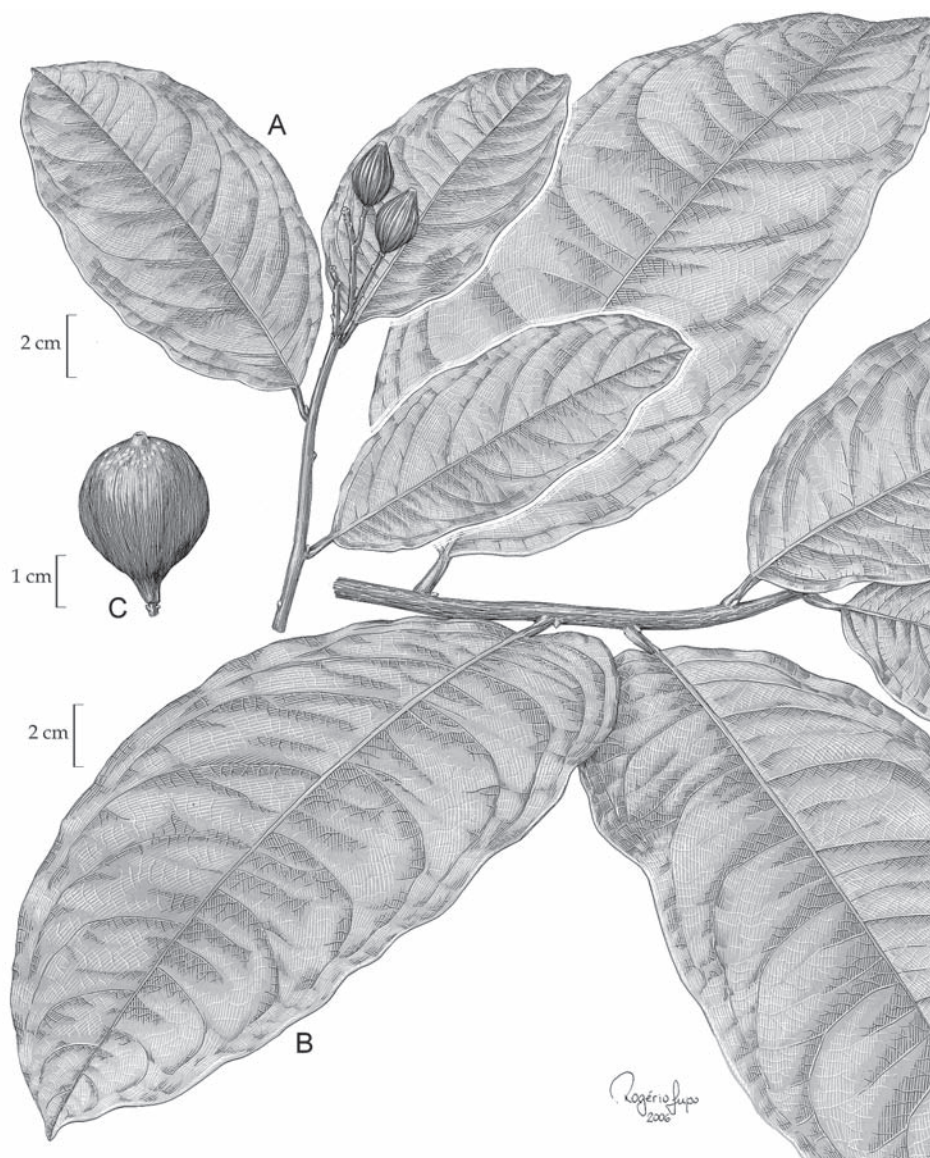


Fig. 66. *Cryptocarya velloziana* P.L.R. de Moraes. A. Habitus (from Lopes et al. 676, UEC); B. Habitus (from Thomaz 1254, VIES); C. Fruit (from Demuner et al. 55, UEC).

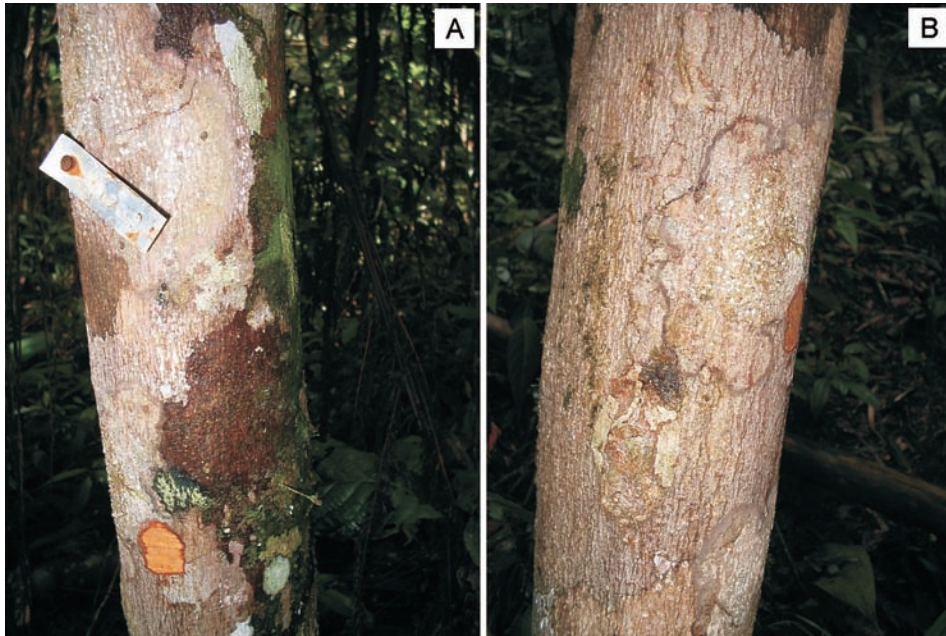


Fig. 67. Barks of *Cryptocarya velloziana* P.L.R. de Moraes. A-B. Estação Biológica de Santa Lúcia, Santa Teresa, ES. (Photographs by author).

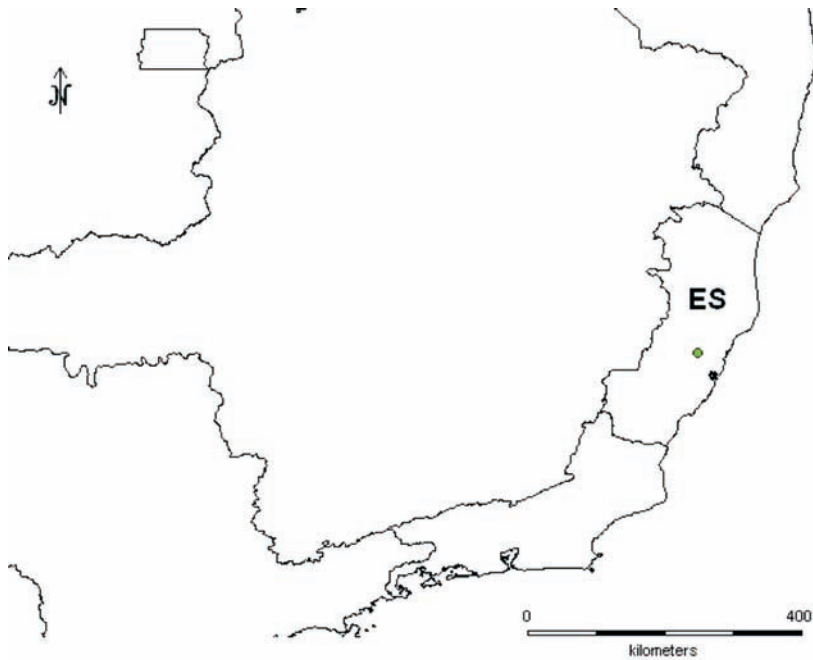


Fig. 68. Distribution of *Cryptocarya velloziana* P.L.R. de Moraes.

13. *Cryptocarya wiedensis* P.L.R. de Moraes sp. nov.

Holotype: Brazil. Espírito Santo, Santa Maria de Jetibá, Rio Nove, terreno de L. Kollmann, alt. 850 m, 13 Apr. 1999 (fl.), L.J.C. Kollmann *et al.* 2464 (MBML!; isotypes: RB n.v., SPSF!, UEC!). Fig. 69; Plate XVI A (cf. Appendix 13.5).

Ab omnibus speciebus *Cryptocaryae* ex regione Neotropica foliis coriaceis, sparse pubescentibus supra et infra, base obtusa, facie adaxiali opaca et obscure reticulata, ramulis, pedunculis et floribus dense pubescentibus differt.

Differs from other species of Neotropical *Cryptocarya* by leaves coriaceous, sparse pubescent on both surfaces, base obtuse, adaxial face opaque and poorly reticulate, branchlets, peduncles and flowers densely pubescent.

Etymology - This species is named in honour of Maximilian Alexander Philipp, Prinz zu Wied-Neuwied, famous German naturalist and explorer of Brazil (1815-1817).

Description - *Trees* or mostly small trees, 6-25 m tall. *Branchlets* 5 cm below terminal bud c. 1.7-3.0 mm in diam., brownish, initially flattened or angular from the beginning, minutely pubescent, with short, yellowish, appressed hairs completely covering the surface; terminal buds ovoid, minutely yellowish pubescent. *Petioles* 8.25-10.27 mm long, 1.2-1.9 mm thick, slightly canaliculate to acanaliculate above, flattened, roundish below, pubescent. *Leaves* alternate, elliptical to ovate, 3.7-11.0 cm long, 1.3-4.24 cm broad, coriaceous, sparsely pubescent on both surfaces, with short, yellowish, appressed hairs, tip acute to short acuminate, base obtuse, margin flat to slightly recurved; above opaque, inconspicuous to poorly reticulate; beneath paler, dull, minutely reticulate, with papillae conspicuous; midrib impressed to level above, prominent below, secondary veins erect (4-7 per side), inconspicuous to slightly salient below; tertiary venation densely impressed reticulate below; venation pattern brochidodromous. *Inflorescences* light green to green-yellowish, panicles in the axils of distal leaves, subterminal, few-flowered, 1.0-1.4 mm in diam. at the base, 1.87-3.74 cm long, minutely pubescent; peduncles densely sericeous-tomentellous, short (Fig. 69 A). *Flowers* (Fig. 69 B-J) yellowish, minutely pubescent, with short, ± appressed hairs, 3.8-4.2 mm long, 1.6-2.0 mm in diam. at apex; tube urceolate, 1.4-1.6 mm long, 1.2 mm in diam.; pedicels pubescent, 0-1.3 mm long; tepals subequal, 1.7-2.2 mm long, 1.0-1.4 mm broad, slightly concave, erect and slightly incurved at apex, widely ovate to ovate-elliptical, acutish or obtuse, sparsely pilose within; stamens included; stamens of whorl I and II introrse, anthers glabrous, subtriangular, tip rounded to obtuse, connectives prolonged beyond the sporangia, filaments rather slender, pilose, as long as or slightly shorter than anthers, adnate to the tepals; stamens of whorl III extrorse-lateral, anthers narrowly ovate, glabrous, c. 1.0 mm long, connectives thick, obtuse, strongly prolonged beyond the sporangia, filaments rather slender, as long as, pilose; glands subglobose, compressed, long pedicelled, pedicel stout, pilose; staminodes large, sagittate, acute, c. 1.0 mm long, tip and abaxial side pilose, adaxial side flattened, glabrous, with two conspicuous small elliptical protuberances at the base in lateral/abaxial side, stalks conspicuous, stout, pilose; gynoecium immersed in the tube, c. 2.6 mm long, glabrous, ovary ellipsoid, gradually merging into the cylindrical-conical, glabrous, up to 2.0 mm

long style with small, discoid stigma. *Immature fruits* green, ellipsoid-ovate, ribbed (Fig. 69 K).

Phenology - Flowering material (only known from the type collection) in April and a paratype bearing flower buds in February. Immature fruits only known from the two paratypes collected in July.

Distribution and habitat (Fig. 70) - So far only known from the collections at Santa Maria de Jetibá and Santa Teresa, Espírito Santo. In the Montane Ombrophilous Dense Forest, from 750 to 850 m altitude.

Uses - Unknown at present.

Comments - *Cryptocarya wiedensis* deserves specific status due to its conspicuous indument of short, appressed hairs covering nearly always the entire surface of branchlets, inflorescences, and flowers, and by its leaves coriaceous, sparse pubescent on both surfaces, base obtuse, adaxial face opaque and poorly reticulate. Although no other species shows this combination of characters, further collections and more study are needed to clarify its relationship with the other species, since this entity apparently shares characters of both *C. mandioccana* and *C. moschata* group.

Specimens examined - 4 (listed in appendix 13.3).

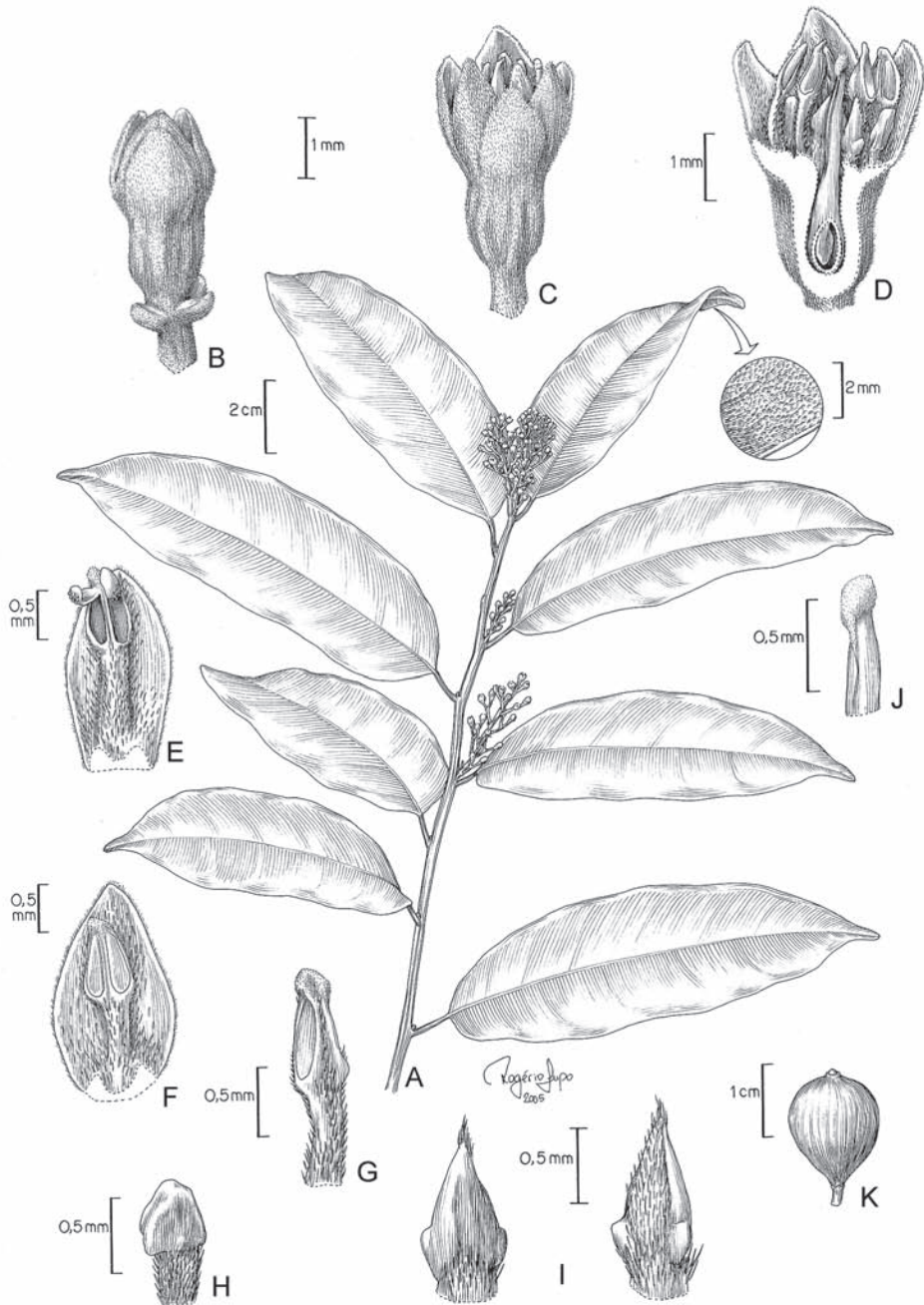


Fig. 69. *Cryptocarya wiedensis* P.L.R. de Moraes (habitus and floral parts from Kollmann *et al.* 2464). A. Habitus; B. Flower bud; C-D. Flowers; E. Stamen of whorl I; F. Stamen of whorl II; G. Stamen of whorl III; H. Gland; I. Staminodes; J. Detail of style and stigma; K. Fruit (from Kollmann *et al.* 269).

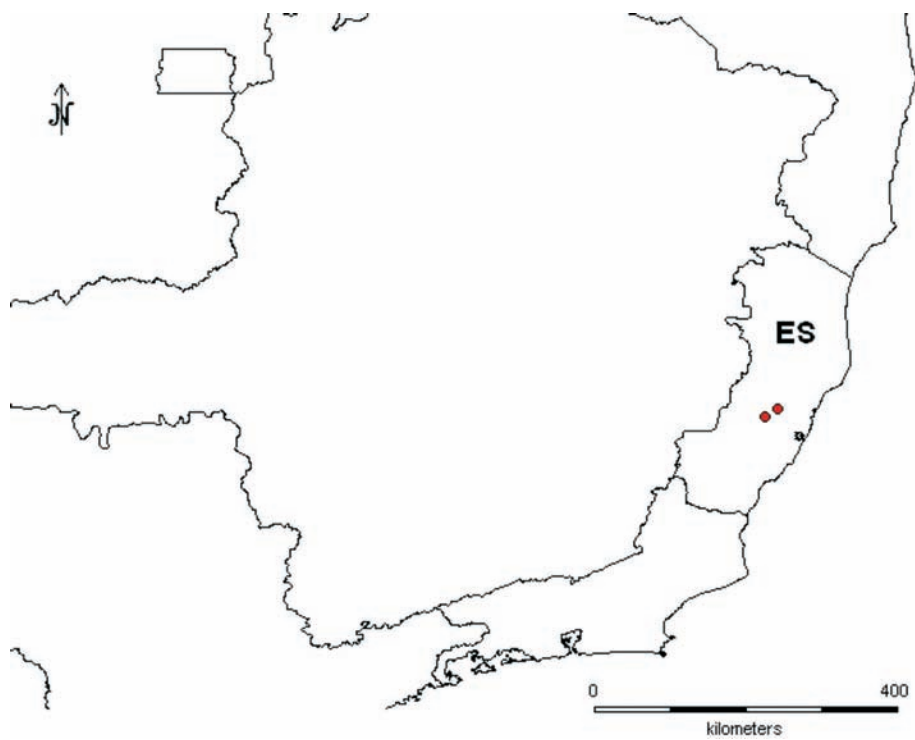


Fig. 70. Distribution of *Cryptocarya wiedensis* P.L.R. de Moraes.

9.4. Doubtful taxa

***Cryptocarya jacarepaguensis* Vattimo-Gil**, *Rodriguésia* 25 (37): 230 & 237, f. 78 (1966b). – Holotype: Brazil. Rio de Janeiro, Represa do Camorim, May 1952 (fr.), J.G. Kuhlmann s.n. (RB, fruit collection no. 2727, not located).

As pointed out by Moraes (2005a), Vattimo-Gil (1966b) described *C. jacarepaguensis* based on a fruit collection that has not been located at RB. Moreover, her description of fallen fruits and the drawing thereof (more or less round and with ribs like nearly all Brazilian species of *Cryptocarya*), are not distinctive enough to warrant recognisable specific status.

9.5. Excluded taxa

***Cryptocarya aü-üva* Martius ex Nees**, *Syst. Laur.* 246 (1836), invalid name = *Aydendron permolle* Nees, loc. cit. = *Aniba permollis* (Nees) Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 55 (1889). – Lectotype (designated by Kubitzki, 1982): Brazil. Amazonas, “in sylvis ad Ega, Rio Negro”, Dec. (fl.), C.F.P. von Martius s.n. (Martius obs. 2908) (M! – 3 sheets; isolectotypes: B⁺ – Photo F Neg. No. 3806!, NY-00354890 – photo in UEC!, NY-00354891 – photo in UEC!).

***Cryptocarya canelilla* Kunth**, in *Nov. Gen. Sp. (quarto ed.)* 7: 192, t. 645 (1825). – Holotype: Venezuela, Esmeralda, “in monte de la Canelilla”, s.d. (immat. fr.), F.W.H.A. von Humboldt & A.J.A. Bonpland 1018 (P-Bonpl.-00307242 – photo in UEC!, F Neg. No. 35005!; isotypes: B-W-7784!, P-00506929 – photo in UEC!) = *Aniba canelilla* (Kunth) Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 53 (1889).

***Cryptocarya dubia* Sprengel ex Nees**, *Syst. Laur.* 400 (1836), invalid name = *Oreodaphne phillyreoides* Nees, loc. cit. = *Mespilodaphne phillyraeoides* (Nees) Meissner, in *Prodr. (DC.)* 15(1): 100 (1864) = *Ocotea phillyraeoides* (Nees) Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 315 (1889).

***Cryptocarya emarginata* Meissner**, in *Prodr. (DC.)* 15(1): 76 (1864) = *Hufelandia emarginata* (Meissner) Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 18 (1889) = *Beilschmiedia emarginata* (Meissner) Kostermans, *Recueil Trav. Bot. Néerl.* 35: 855 (1938c). – Holotype: Brazil. São Paulo, “in sylvis subhumidis prope Lorena”, Oct. 1823 (fl.), L. Riedel 1585 (LE n.v.; isotypes: G-00007871 – photo in UEC!, K n.v., NY-00355041!).

***Cryptocarya hirsuta* Schott ex Sprengel**, in *Syst. Veg.* 4(2): 405 (1827) = *Endlicheria hirsuta* (Schott) Nees, *Linnaea* 8: 38 (1833), typ. cons. = *Goeppertia hirsuta* (Schott) Nees, *Syst. Laur.* 366 (1836). – Lectotype (designated by Kostermans, 1937): Brazil. Rio de Janeiro, “ad S. Cristovão prope Sebastianopolis Bras.”, s.d. (fl. ♂), J.B.E. Pohl 5611 (W⁺; isolectotypes: M! – 2 sheets, Photo F Neg. No. 19260!, U n.v., and probably BR-880679!) = *Endlicheria paniculata* (Sprengel) J.F. Macbride, *Field Mus. Nat. Hist., Bot. Ser.*, 13(2/3): 850 (1938).

***Cryptocarya laevis* Nees ex Martius**, *Flora* 21(2): Beibl. 64 (144). (1838) = *Aiouea laevis* (Martius) Kostermans, *Recueil Trav. Bot. Néerl.* 35: 84 (1938a). – Type: Brazil. Rio de Janeiro, “crescit in sylvis Caa-poera dictis ad Sebastianop.”,

12 Jun. (fl.), *C.F.P. von Martius, Herbar. Florae Brasil. N^o 237* (B[†] – Photo F Neg. No. 3782!, BR-868583!, BR-868616!, BM-000894059 – photo in UEC!, E-00259412 – photo in UEC!, G – 4 sheets – photos in UEC!, GH-41126 – photo in UEC!, HAL-101918 – photo in UEC!, K n.v., KR – photo in UEC!, L-0035524 – photo in UEC!, L-0035525 – photo in UEC!, LE n.v., LZ[†], M! – 4 sheets, MO-145001 – photo in UEC!, NY-00354800!, P-00128383 n.v., P-00128384 n.v., W[†], WRSL – photo in UEC!).

***Cryptocarya monticola* Martius ex Nees**, *Syst. Laur.* 400 (1836), invalid name = *Oreodaphne phillyreoides* Nees, loc. cit. = *Mespilodaphne phillyraeoides* (Nees) Meissner, in *Prodr.* (DC.) 15(1): 100 (1864) = *Ocotea phillyraeoides* (Nees) Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 315 (1889).

***Cryptocarya mucronata* (Poiret) Sprengel**, *Syst. veg.* 2: 271 (1825) ≡ *Laurus mucronata* Poiret, in *Lam. Encycl., Suppl.* 3: 323 (1813) ≡ *Ocotea mucronata* (Poiret) Kostermans, *Reinwardtia* 5: 395 (1961). – Holotype: French Guiana. Île de Cayenne, s.d. (fr.), *Herbier Desfontaines* [FI-W-160347 – photo in UEC!; isotypes: FI-W-160346 – photo in UEC!, G-00007863 (fragment, photo in UEC!), P-00307243 (fragment, photo in UEC!)]. Plates XVII A-B (cf. Appendix 13.5).

***Cryptocarya pachycarpa* Gleason**, *Bull. Torrey Bot. Club* 54(8): 607 (1927). – Holotype: Guyana. Kamakusa, upper Mazaruni River, 59°50'W, 11-22 Jul. 1923 (immat. fr.), *J.S. de la Cruz 4215* (NY-00355047!; isotypes: GH-41156 – photo in UEC!, F-544793 – F Neg. No. 62890!, MO-928688 – photo in UEC!, MO-928689 – photo in UEC!, US-00051075 – photo in UEC!) = *Aniba citrifolia* (Nees) Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 74 (1889).

***Cryptocarya pretiosa* Martius ex Nees**, *Syst. Laur.* 237 (1836), invalid name = *Mespilodaphne pretiosa* Nees & Martius var. *angustifolia* Nees, loc. cit. = *Aniba canelilla* (Kunth) Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 53 (1889).

***Cryptocarya pyriformis* Nees**, *Syst. Laur.* 220 (1836) ≡ *Mespilodaphne pyriformis* (Nees) Meissner, in *Prodr.* (DC.) 15(1): 108 (1864) ≡ *Endlicheria pyriformis* (Nees) Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 116 (1889). – Holotype: French Guiana. Without locality, 1819-1821 (immat. fr.), *P.A. Poiteau s.n.* (B[†], F Neg. No. 3820!; isotypes: G-00007872 – photo in UEC!, LE! – 2 sheets, NY-00099497!, P n.v.).

***Cryptocarya riedelii* Meissner**, in *Prodr.* (DC.) 15(1): 75 (1864). – Holotype: Brazil. State not indicated, “in sylvis pr. Esperança”, May 1821 (fl., imat. fr.), *L. Riedel 770* (LE, photo in UEC!; isotype: NY-00355048! – photo in UEC!) = *Rhodostemonodaphne macrocalyx* (Meissner) Rohwer ex Madriñán, *Fl. Neotrop. Monogr.* 92: 46 (2004).

***Cryptocarya robusta* A.C. Sm.**, *Bull. Torrey Bot. Club* 58(2): 97 (1931). – Holotype: Peru. Dept. Junín, San Nicolas, Pichis Trail, about 1100 m, 4-5 Jul. 1929 (immat. fr.), *E.P. Killip & A.C. Smith 26077* (NY-00099496 – photo in UEC!; isotypes: F n.v., US-00642132 – photo in UEC!) ≡ *Endlicheria robusta* (A.C. Sm.) Kostermans, *Recueil Trav. Bot. Néerl.* 34: 556 (1937).

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11. Acknowledgments

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12. About the author



Dr. Pedro Luís Rodrigues de Moraes (°1965, Brazil) started (1983) to study agronomy at the “Escola Superior de Agricultura Luiz de Queiroz”, University of São Paulo. After graduating in 1987 he was enrolled in a project to study the ecology and behavior of muriquis at the “Parque Estadual Carlos Botelho”, where he lived for two years. For his graduate studies at the State University of São Paulo, Campus of Rio Claro, he examined the morphology of fruits, seeds and seedlings of species of Lauraceae and the genetic structure of populations of *Cryptocarya mandioccana* Meissner; earning M.Sc. (1993) and D.Sc. (1997) degrees. Subsequently a postdoctoral fellowship from the “Fundação de Amparo à Pesquisa do Estado de São Paulo” enabled him to analyse the genetic structure of populations of *Cryptocarya* spp. from southeastern Brazil, which was developed at the Laboratory of Plant Improvement, “Centro de Energia Nuclear na Agricultura”, University of São Paulo, and where the present work was initiated in 1999.

13. Appendix

13.1. Glossary

AL	= State of Alagoas
AM	= State of Amazonas
AP	= State of Amapá
AR	= Argentina
BA	= State of Bahia
Bacia	= Basin
Bairro	= Neighbourhood, district
Base Ecológica	= Ecological Base
Bosque	= Wood
Cachoeira	= Waterfall
Caminho	= Lane, pathway
Campo	= Camp
Cerradão	= Woodland
Córrego	= Stream
DBH	= Diameter Breast Height
DF	= Distrito Federal (Federal District)
Distrito	= District, county
ES	= State of Espírito Santo
Estação Biológica	= Biological Station
Estação Ecológica	= Ecological Station
Estação Experimental	= Experimental Station
Estrada	= Road
Fazenda	= Farm
Fenda	= Rift
FLONA	= National Forest
GF	= French Guiana
GO	= State of Goiás
Gruta	= Cave
GY	= Guyana
Horto Florestal	= Forest Botanic Garden/Arboretum
IBGE	= Brazilian Institute of Geography and Statistics
Ilha	= Island
Jardim Botânico	= Botanical Garden
Lago	= Lake
Lagoa	= Pond
Margem	= Margin
Mata	= Thick forest
Mata Ciliar	= Riparian forest/gallery forest
Mata de encosta	= Montane forest/slope forest
Mata de Tabuleiro	= Tableland forest
Mato	= "Thick jungle", literally
MG	= State of Minas Gerais
MI	= Misiones
Morro	= Hill
MT	= State of Mato Grosso
Núcleo	= Nucleus

PA	= State of Pará
Parque Estadual	= State Park
Parque Nacional	= National Park
PE	= State of Pernambuco
Picada	= Path
Pico	= Peak
Pinhal	= <i>Araucaria</i> forest
Planície	= Plain
PR	= State of Paraná
Praia	= Beach
Represa	= Dam
Reserva Biológica	= Biological Reserve
Reserva Ecológica	= Ecological Reserve
Reserva Florestal	= Forest Reserve
Reservatório	= Reservoir
Restinga	= Marine dune forest in south Brazil
Rio	= River
RJ	= State of Rio de Janeiro
RO	= State of Rondônia
Rodovia	= Road, highway
RS	= State of Rio Grande do Sul
SC	= State of Santa Catarina
Sede	= Seat
Selva	= Jungle
Serra	= Mountain range
Sítio	= Small farm
SP	= State of São Paulo
SR	= Surinam
Terreno	= Ground
Trevo	= Interchange
Trilha	= Trail
UHE	= Hydroelectric power station
UY	= Uruguay
VE	= Venezuela
⊕	= actinomorphic
!	= seen by the author
≡	= identical; based on the same type
†	= destroyed
±	= plus minusve, more or less
>	= greater than
<	= smaller than
µm	= micron, one thousandth of a millimetre
aff.	= <i>affinis</i> : akin to, bordering
alt., a.s.l.	= at a height above sea-level
auct.	= <i>auctorum</i> : of authors
c.	= <i>circa</i> : about
cf.	= <i>confer</i> : compare
comb.	= <i>combinatio</i> : combination

cons.	= <i>conservandus</i> : to be kept
ed.	= <i>editio</i> : edition
e.g.	= <i>exempli gratia</i> : for example
emend.	= <i>emendavit</i> : he emended
ex	= from, after, out of, according to
f., Fig.	= Figure, illustration
f.	= <i>forma</i> : form
fide	= according to
fl.	= with flower
fr.	= fruit
herb.	= herbarium
id.	= <i>idem</i> : the same
i.e.	= <i>id est</i> : that is
immat. fr.	= immature fruit
ined.	= <i>ineditus</i> : unpublished
loc. cit.	= <i>loco citato</i> : at the place cited
n.v.	= <i>non vidi</i> : I have not seen
n., no.	= <i>numero</i> : number
nom. illeg.	= <i>nomen illegitimum</i> : illegitimate name
nom. inval.	= <i>nomen invalidum</i> : invalid name
nom. nud.	= <i>nomem nudum</i> : name unaccompanied by a description
nov.	= <i>novus</i> : new
obs.	= <i>observatio</i> : observation
p.	= <i>pagina</i> : page
pl.	= plate
p.p.	= <i>pro parte</i> : partly, in part
sched.	= <i>scheda</i> : label
s.d.	= <i>sine die/dato</i> : without day, without appointed date
sensu	= in the sense of
s.n.	= <i>sine numero</i> : without a number
sp., spec.	= <i>species</i> : species
ssp.	= <i>subspecies</i> : subspecies
ster.	= sterile
syn.	= <i>synonymia</i> : synonymy
t., tab.	= <i>tabula</i> : plate
typ.	= <i>typus</i> : type
var.	= <i>varietas</i> : variety
viz.	= <i>videlicet</i> : namely
x	= degree of magnification

13.2. Index of Herbaria

A – Harvard University, Arnold Arboretum
AAU – Aarhus Universitet, Herbarium Jutlandicum
ALCB – Universidade Federal da Bahia, Campus Universitário de Ondina
B – Botanischer Garten und Botanisches Museum Berlin-Dahlem, Herbarium Berlinense
BA – Museo Argentino de Ciencias Naturales Bernardino Rivadavia, Buenos Aires
BC – L'herbari de l'Institut Botànic de Barcelona, Herbarium Instituti Botanici Barcinonensis
B-W – Herbarium Willdenow
BHCB – Universidade Federal de Minas Gerais, Belo Horizonte
BMMH – Universidade Federal de Minas Gerais, Museu de História Natural
BHU – Humboldt-Universität zu Berlin
BHUPM – Museum für Naturkunde, Berlin
BM – The Natural History Museum, London
BO – Herbarium Bogoriense, Bogor
BOTU – Universidade Estadual Paulista, São Paulo
BR – Jardin Botanique National de Belgique, Meise
BREM – Übersee-Museum, Bremen
C – Københavns Universitet, Museum Botanicum Hauniense
CAY – Institut de Recherche pour le Développement (IRD), Herbier de Guyane
CEN – EMBRAPA Recursos Genéticos e Biotecnologia, CENARGEN, Brasília
CEPEC – CEPEC, CEPLAC, Herbário Centro de Pesquisas do Cacau/Herbário André Maurício Vieira de Carvalho
CESJ – Universidade Federal de Juiz de Fora, Herbário Leopoldo Krieger
CGE – University of Cambridge
CNPMA – EMBRAPA, Meio Ambiente
COL – Herbario Nacional Colombiano
COR – Universidade Federal de Mato Grosso do Sul, Corumbá
CPAP – EMBRAPA, Mato Grosso do Sul, Corumbá
CRI – Universidade do Extremo Sul Catarinense, Criciúma
CTES – Instituto de Botânica del Nordeste, Corrientes
CVRD – Reserva Natural da Vale do Rio Doce, Linhares
E – Royal Botanic Garden, Edinburgh
ESA – Escola Superior de Agricultura “Luiz de Queiroz”, USP, Piracicaba
ESAL – Universidade Federal de Lavras
F – Field Museum of Natural History, Chicago
FCAB – Pontificia Universidade Católica do Rio de Janeiro
FI-W – Museo di Storia Naturale dell'Università degli Studi di Firenze, Herbarium Universitatis Florentinae, Herbarium Webbium
FR – Forschungsinstitut und Naturmuseum Senckenberg, Herbarium Senckenbergianum
FUEL – Universidade Estadual de Londrina
G – Conservatoire et Jardin Botaniques de la Ville de Genève, Herbier Général/Herbarium Genavense
G-DC – Conservatoire et Jardin Botaniques de la Ville de Genève, Herbier De Candolle
GB – Göteborgs Universitet

GFJP – Universidade do Estado de Minas Gerais, Carangola, Herbário Guido F. J. Pabst
GH – Harvard University, Gray Herbarium
GLAM – Art Gallery and Museum, Glasgow
GOET – Universität Göttingen
GUA – DIVEA, DEP, FEEMA, Herbário Alberto Castellanos
GZU – Karl-Franzens, Universität Graz
H – Helsingin Yliopisto, Luonnontieteellinen Keskusmuseo
HAL – Martin-Luther-Universität Halle-Wittenberg, Institut für Geobotanik und Botanischer Garten, Herbarium Universitatis Halensis
HAS – Fundação Zoobotânica do Rio Grande do Sul, Herbário Alarich Rudolf Holger Schultz
HB – Herbarium Bradeanum
HBG – Institut für Allgemeine Botanik, Hamburg, Herbarium Hamburgense
HBR – Universidade Federal de Santa Catarina, Itajaí, Herbário Barbosa Rodrigues
HEID – Universität Heidelberg
HEPH – Jardim Botânico de Brasília, Herbário Ezechias Paulo Heringer Herbarium, Jari Jarcel Cellulose S.A.
HFC* – EMBRAPA, CNPFlorestas, Herbário Fernando Cardoso da Silva, Colombo
HPNI* – Herbário do Parque Nacional de Itatiaia
HRB – Herbário RADAMBRASIL, IBGE
HRCB – Universidade Estadual Paulista, Herbarium Rioclarense
HTO – Universidade Federal do Tocantins
HUCS – Universidade de Caxias do Sul
HUEFS – Universidade Estadual de Feira de Santana
HUFU – Universidade Federal de Uberlândia, Herbarium Uberlandense
HUEM – Universidade Estadual de Maringá
HXBH – Fundação CETEC, Belo Horizonte
IAC – Instituto Agrônomo de Campinas
IAN – EMBRAPA, Amazônia Oriental
IBGE – Reserva Ecológica do IBGE, Brasília
ICN – Universidade Federal do Rio Grande do Sul, Porto Alegre
INPA – Instituto Nacional de Pesquisas da Amazônia, Manaus
IPA – Empresa Pernambucana de Pesquisa Agropecuária, Herbário Dárdano de Andrade Lima
JE – Friedrich-Schiller-Universität Jena
K – Royal Botanic Gardens, Kew
KIEL – Christian-Albrechts-Universität Kiel
L – Nationaal Herbarium Nederland, Universiteit Leiden branch
LD – Botanical Museum, Lund
LE – Herbarium Petropolitanum, БОТАНИЧЕСКИЙ ИНСТИТУТ им. В. Л. КОМАРОВА РОССИЙСКОЙ АКАДЕМИИ НАУК, Санкт-Петербург, V.L. Komarov Botanical Institute of the Russian Academy of Sciences, Saint Petersburg
LINN – The Linnean Society of London
LISU – Museu Nacional de História Natural, Jardim Botânico da Universidade de Lisboa
LIV – World Museum Liverpool

LL – University of Texas at Austin, Lundell Herbarium
LZ – Universität Leipzig, Institut für Biologie I
M – Botanische Staatssammlung München
MA – Real Jardín Botánico de Madrid, Herbarium Horti Botanici Matritensis
MAF – Universidad Complutense, Madrid
MANCH – University of Manchester
MBM – Museu Botânico Municipal, Curitiba
MBML – Museu de Biologia Mello Leitão, Santa Teresa
MER – Universidad de Los Andes Herbario “Dr. Carlos Liscano”, Mérida
MEXU – Fernand Chiang Cabrera, Universidad Nacional Autónoma de México
MG – Museu Paraense Emílio Goeldi
MICH – University of Michigan
MO – Missouri Botanical Garden, Saint Louis
NHV – Institut für Landwirtschaftliche Botanik, Bonn
NMW – National Museums & Galleries of Wales, Cardiff
NY – New York Botanical Garden, Steere Herbarium
O – Botanisk Museum, Universitetet i Oslo, Herbarium Universitatis Christianiensis
OUPR – Universidade Federal de Ouro Preto, Herbário José Badini
OXF – University of Oxford, Fielding-Druce Herbarium
P – Muséum National d’Histoire Naturelle, Herbarium Musei Parisiensis
P-Bonpl. – Herbarium A.J.A. Bonpland
P-LA – Herbarium J.B.A.P.M. de Lamarck
PACA – Instituto Anchieta de Pesquisas/UNISINOS, Herbarium Anchieta
PAD – Università degli Studi di Padova
PAMG – Empresa de Pesquisa Agropecuária de Minas Gerais (EPAMIG), Belo Horizonte
PEL – Universidade Federal de Pelotas
PI – Università di Pisa
PMSP – Prefeitura do Município de São Paulo
PORT – BioCentro-UNELLEZ, Mesa de Cavacas
PR – Musaeum Nationale – Praha, Herbářích Národního Muzea
QCNE – Museo Ecuatoriano de Ciencias Naturales, Herbario Nacional del Ecuador
QRS – CSIRO, Australian National Herbarium
R – Universidade Federal do Rio de Janeiro, Museu Nacional
RB – Jardim Botânico do Rio de Janeiro
RFA – Universidade Federal do Rio de Janeiro, Instituto de Biologia, C.C.S.
RO – Università degli Studi di Roma La Sapienza
ROST – Universität Rostock
RUSU – Universidade Santa Úrsula, Rio de Janeiro
S – Naturhistoriska Riksmuseet, Regnellian Herbarium, Stockholm
SBT – Bergius Foundation, Stockholm
SGO – Museo Nacional de Historia Natural, Santiago
SI – Instituto de Botánica Darwinion, San Isidro
SJRP – UNESP, São José do Rio Preto
SMDB – Universidade Federal de Santa Maria
SP – Instituto de Botânica, São Paulo
SPF – Universidade de São Paulo
SPFR – Universidade de São Paulo, Ribeirão Preto

SPSF – Instituto Florestal, Herbário D. Bento Pickel
STR – L’Herbier de l’Université Louis-Pasteur de Strasbourg
STU – Staatliches Museum für Naturkunde, Stuttgart
TUB – Eberhard-Karls-Universität Tübingen
TUR – University of Turku
U – Nationaal Herbarium Nederland, Universiteit Utrecht branch
UB – Universidade de Brasília
UC – University of California, Berkeley, University Herbarium
UEC – Universidade Estadual de Campinas
UFG – Universidade Federal de Goiás, Goiânia
UFMT – Universidade Federal de Mato Grosso, Cuiabá
UFP – Universidade Federal de Pernambuco, Recife
UPCB – Universidade Federal do Paraná, Curitiba
UPS – Uppsala Universitet, Botaniksektionen, Evolutionsmuseet, Museum Botanicum Upsaliense
US – Smithsonian Institution, United States National Herbarium
UVM – University of Vermont, The Pringle Herbarium
VAL – Universitat de València
VEN – Fundación Instituto Botánico de Venezuela “Dr. Tobías Lasser”, Herbario Nacional de Venezuela
VIC – Universidade Federal de Viçosa
VIES – Universidade Federal do Espírito Santo, Vitória
VT – University of Vermont, Burlington
W – Vienna Herbarium, Museo Historiae Naturalis Vindobonensi
WRSL – Muzeum Przyrodnicze Uniwersytetu Wrocławskiego

13.3. Index of examined specimens

13.3.1. Listed alphabetically by species

In this section examined species are listed alphabetically, followed by their country, province and locality of collection.

***Cryptocarya aschersoniana* Mez.**

ARGENTINA. Misiones: “Departamento General Manuel Belgrano, ruta 101 y Salto Andresito”, 11 Dec. 1996 (immat. fr.), S.G. Tressens & V. Maruňak 5684 (CTES, F, SPF); idem, “arroyo Gramado, 685 m.s.m., en costa inundable del arroyo, selva marginal”, 20 Mar. 1997 (fr.), S.G. Tressens et al. 5693 (CTES); San Antonio, 11 Nov. 1958 (fl., immat. fr.), J.C. Gamero & M. Toursarkissian 154 (SI). **BRAZIL. Espírito Santo:** Linhares, Fazenda Tapui, 4 Jul. 1991 (fr.), D.A. Folli 1368 (CVRD, ESA, MO – 2 sheets); idem, c. 30 m alt., 18 May 2005 (fl., fr.), P.L.R. de Moraes et al. 2543 (UEC); Santa Teresa, Estação Biológica de Santa Lúcia, margem esquerda do Rio Timbuí, floresta pluvial baixo montana, 6 Oct. 1988 (fr.), H.Q.B. Fernandes 2602 (CEPEC, MBML, MO, NY, SPSF); Santa Teresa, Valão de São Lourenço, Estação Biológica da Caixa D’Água, floresta de encosta, 21 Mar. 1988 (fr.), H.Q.B. Fernandes 2418 (ESA, MBML, SPSF, UEC); Santa Teresa, Valsugana Velha, Reserva Biológica de Santa Lúcia, Trilha do Sagui, alt. 700 m, 4 Feb. 1999 (immat. fr.), L.J.C. Kollmann et al. 1840 (ESA, MBML, RB, UEC). **Paraná:** Açungui, 1 Mar. 1948 (immat. fr.), A. Mattos & L. Labouriau s.n. (MO-3514571, RB-63294); Adrianópolis, Parque Estadual das Lauráceas, 7 Nov. 1999 (fl.), E. Barbosa & L.M. Abe 397 (HBG, MBM); Antonina, estrada Cacatu-Serra Negra, Rio Cachoeira, 17 Sep. 1965 (fl.), G.G. Hatschbach 12799 (K, MBM, NY, RB, RFA, UPCB); Bocaiúva do Sul, Bocaina, 25 Jan. 1974 (immat. fr.), G.G. Hatschbach 33771 (AAU, BR, C, CTES n.v., F, GB, HBG, IBGE, INPA, MBM, MO, UB); Bocaiúva do Sul, Parque Estadual das Lauráceas, alt. 500-700 m, 28 Dec. 1994 (fr.), G.G. Hatschbach & J.M. Silva 61401 (HBG, MBM, MO); Bocaiúva do Sul, margem do Rio Capivari, 25°05’21.8”S, 48°49’21.9”W, c. 680 m alt., 21 Nov. 2000 (immat. fr.), P.L.R. de Moraes et al. 2333 (ESA, MO); Campina Grande do Sul, Jaguatirica, Rio Capivari, 28 Oct. 1962 (fl.), G.G. Hatschbach 9392 (MBM, RB); Cerro Azul, Rio Turvo, 5 Oct. 1977 (fl.), G.G. Hatschbach 40325 (MBM); Colombo, Mata da Trilha Ecológica, Centro Nacional de Pesquisa de Florestas/EMBRAPA, 25°20’S, 49°14’W, 24 May 1991 (fr.), A. Pott & A. Miguel 5995 (CPAP); Curitiba, Parque Barigui, 8 Nov. 1996 (fl., immat. fr.), C. Kozera & V.A.O. Dittrich 349 (BHCB, MBM, NY, UPCB); Guarapuava, Rio Cavernoso, 7 Feb. 1969 (immat. fr.), G.G. Hatschbach 21052 (CTES n.v., HBG, IBGE, MBM); Guaraqueçaba, Serra Negra, Fazenda GUAM, alt. 400 m, 13 Dec. 1994 (fr.), S.R. Ziller 655 (MBM); Guaratuba, Boa Vista, alt. 5-10 m, 25 Oct. 1984 (fl.), G.G. Hatschbach 48552 (BR, C, CTES n.v., GB, HAS, INPA, MBM, MO, NY, UEC); Guaratuba, Rio Tupitinga, 29 Aug. 1971 (fr.), G.G. Hatschbach 26890 (MBM); Ipiranga, Lustosa, 23 Oct. 1978 (fl.), O.S. Lima et al. 1 (HBR, HRB, MBM); Ipiranga, Rio Bitumirim, 23 Jun. 1990 (fl.), J.A. Pimenta et al. s.n. (FUEL-17549); Irati, FLONA Ibama, alt. 800 m, 25 Oct. 1975 (fl.), H.G. Richter 12 (RB); Irati, 15 Feb. 1986 (fr.), G.G. Hatschbach & A. Manosso 50354 (C, ESA, HUEFS, MBM, MO – 2 sheets, RUSU, ULM n.v.); Itaperuçu, 29 Feb. 1912 (fr.), P.K.H. Dusén 13862 (NY, U, S); Lapa, Volta Grande, 2 Mar. 1982 (fr.), G.G. Hatschbach 44908 (AAU, IBGE, MBM, MO); Laranjeiras do Sul, Rio Tapera, 20 Jan. 1968 (immat. fr.), G.G. Hatschbach 18397 (HBG, IBGE, MBM, MG); idem, “fragm. de la Selva con *Araucaria angustifolia* al NW de Laranjeiras do Sul”, 23 Sep. 1969 (fl.), R.M. Klein & U.G. Eskuche 1751 (CTES); Paranaguá, Rio Cachoeirinha, 27 Jun. 1968 (fr.), G.G. Hatschbach 19455 (MBM, RB); Palmital, Rio do Cobre, alt. 850 m, 15 Oct. 1991 (fl.), G.G. Hatschbach & J.M. Silva 55766 (C, CTES n.v., HBG, HUEFS, MO, SPSF); Piraquara, Mananciais da Serra, alt. 950 m, 25 Nov. 1975 (fl.), H.G. Richter 33 (RB – 2 sheets); Porto de Cima, 31 Mar. 1912 (fr.), P.K.H. Dusén s.n. (NY-814738); Porto Vitória, Rio Jangada, 13 Feb. 1966 (fr.), G.G. Hatschbach et al. 13878 (F, MBM, RB, RFA, U); Reserva, Sítio São Vicente, 20 km antes de Reserva, 18 Feb. 1999 (immat. fr.), J.A. Ferreira et al. s.n. (FUEL-25381); Rio

Branco do Sul, Serra do Votuvoru, 9 Oct. 1975 (fl.), *G.G. Hatschbach 37305* (BR, C, MBM, MG, MO, NY); São Matheus, 7 Nov. 1931 (fl.), *L. Gurgel 16111* (R, RB); Tibagi, Fazenda Batavo, Rio Iapó, 29 Apr. 1990 (ster.), *S. Colli et al. s.n.* (FUEL-12070); Tijucas do Sul, São João do Piraí, 10 Jan. 1992 (immat. fr.), *O.S. Ribas & E. Barbosa 406* (CTES, n.v., HBG, MBM, MO, ULM n.v.); without locality on the label, most probably near Lapa (Vila do Príncipe) and Curitiba (see commentaries), 1828 (ster.), *F. Sellow 4495* (B-100088601). **Rio Grande do Sul:** Bento Gonçalves, mato do Parque da Fenavinho, 28 Oct. 1978 (fl.), *G. Pedralli s.n.* (ICN-43036); Canela, 24 Apr. 1955 (fl.), *A.R.H. Schultz 1260* (ICN); idem, near Caracol, 29 Apr. 1982 (fr.), *A.D. Nilson 88* (ESA, HAS); Caxias do Sul, São Vigílio, 9 Nov. 1999 (fl.), *A. Kleger 339* (HUCS); Erechim, Parque Longines Malinowski, 1 Dec. 1994 (immat. fr.), *A. Butzke s.n.* (HUCS-11583); Farroupilha, 15 Feb. 1957 (immat. fr.), *O.R. Camargo 1153* (PACA); Gramado, alt. 800 m, 28 Dec. 1949 (fl.), *A. Sehnem 4150* (B, HUCS); Montenegro, Linha São Pedro, 18 Mar. 1949 (fr.), *A. Sehnem 3742* (B, C, HBR, HUCS, INPA, MBM, PEL); Santa Maria do Herval, Dois Irmãos, 1 Feb. 1989 (fr.), *A.D. Nilson 290* (ESA, HAS); São Francisco de Paula, 18 Dec. 1949 (fl.), *B. Rambo 44912* (B-100000928); São Leopoldo, "in silvula campestri humida", 1907 (fl.), *L. Theissen 744* (PACA); São Leopoldo, vicinity, Nov. 1897 (immat. fr.), *J. Dutra 282* (R, U); Torres, Perdida, 29 Oct. 1992 (fl., immat. fr.), *J.A. Jarenkow & R. Zachia 2162* (CRI, ESA, MBM, PEL); Vila Oliva, near Caxias do Sul, 3 Dec. 1949 (fl.), *B. Rambo 44664* (B). **Santa Catarina:** Abelardo Luz, alt. 900 m, 29 Dec. 1963 (imat. fr.), *R. Reitz & R.M. Klein 16623* (B, HBR, RB); Águas Mornas, Imaruí, alt. 50 m, 16 Jan. 1973 (immat. fr.), *R.M. Klein & A. Bresolin 10733* (FLOR n.v., HBR, MBM, RB); Blumenau, Morro Spitzkopf, alt. 800 m, 20 Nov. 1959 (fl.), *R.M. Klein 2314* (B, HBR); idem, alt. 700 m, 6 Feb. 1960 (immat. fr.), *R. Reitz & R.M. Klein 9533* (HB, HBR, PACA, RB, SP, UB); Brusque, alt. 50 m, 27 Nov. 1951 (immat. fr.), *R.M. Klein 3* (HBR-9366, MO); Campo Alegre, upper fazenda of Ernesto Scheide, alt. 900-1100 m, 9 Nov. 1956 (fl.), *L.B. Smith & R.M. Klein 7528* (B, F, HBR, R, RB); Curitibanos, Ponte Alta do Sul, alt. 900 m, 18 Dec. 1962 (fl.), *R. Reitz & R.M. Klein 14117* (B, BR, HBR, M, MBM, NY, SP); Ilha de Santa Catarina, Saco Grande, selva 200-400 m, 20 Dec. 1967 (fl.), *A. Lourteig 2329* (H, P, K – epitype of *Cryptocarya aschersoniana*); Florianópolis, Ilha de Santa Catarina, Saco Grande, 20 Dec. 1967 (fl.), *R.M. Klein et al. 7690* (HBR, RB); Guaramirim, 27 Jul. 1951 (fl.), *R.M. Klein 3* (RB-95535); Ibirama, alt. 100 m, 5 Feb. 1956 (immat. fr.), *R. Reitz & R.M. Klein 2633* (HBR, M, MBM, NY, PACA, RB, SP, SPF); Itaiópolis, ERF km 145, alt. 750 m, 4 Jan. 1962 (immat. fr.), *R. Reitz & R.M. Klein 11470* (HBR, RB); Itajaí, Morro da Fazenda, alt. 300 m, 17 Mar. 1955 (immat. fr.), *R.M. Klein 1223* (B, BR, HBR, NY, RB, SP); idem, alt. 250 m, 3 Nov. 1955 (fl.), *R.M. Klein 1736* (B, BR, HBR, MBM, NY – 2 sheets, RB, SP); idem, Morro da Ressacada, 20 Feb. 1956 (immat. fr.), *R.M. Klein 1861* (HBR, RB); Jaraguá do Sul, Serra do Boi, 15 Oct. 1989 (fl.), *C.B. Jaster et al. 135* (MBM); Joaçaba, Leãozinho, 12 Feb. 1996 (fr.), *C.B. Poliquesi et al. 501* (ESA, HBG, MBM); Joinville, 12 Mar. 1966 (immat. fr.), *L.S. Otero s.n.* (RB-130347); Lages, Alto da Serra, Encruzilhada, alt. 900 m, 4 Dec. 1962 (fl.), *R.M. Klein 3184* (HBR, PEL, RB, SP); Leoberto Leal, a 2 km de Barra Grande, em direção a Leoberto Leal, alt. 570 m, 28 Mar. 1981 (fr.), *J.M. Campos & P.F. Leite 27* (HBR); Mafra, 27 Jul. 1973 (ster.), *K. Hagelund 6745 D. 61-11* (ICN); Palhoça, Morro do Cambirela, alt. 300 m, 23 Feb. 1972 (immat. fr.), *R.M. Klein & A. Bresolin 10120* (FLOR n.v., HBR, ICN, MBM, RB); Papanduva, Lajeadozinho, alt. 750 m, 13 Dec. 1962 (fl.), *R.M. Klein 3960* (HBR, RB, SP); idem, 3 Jan. 1962 (immat. fr.), *R. Reitz & R.M. Klein 11443* (HBR, NY, RB, SP); Porto União, alt. 750 m, 9 Dec. 1962 (fl.), *R.M. Klein 3647* (HB, HBR, MBM, PACA, RB, SP, UB); Rancho Queimado, 6 km da serraria Siara, em direção a Anitápolis, alt. 850 m, 27 Mar 1981 (fr.), *J.M. Campos & P.F. Leite 15* (HRB); Rio Negrinho, Vila Nova, 19 Feb. 1988 (immat. fr.), *G.G. Hatschbach & O.S. Ribas 51890* (MBM, MO); Rio do Sul, Alto Matador, alt. 800 m, 13 Mar. 1959 (fr.), *R. Reitz & R.M. Klein 8581* (HBR, MBM, NY, PACA, RB); São José, Serra da Boa Vista, alt. 900 m, 25 Jan. 1961 (immat. fr.), *R. Reitz & R.M. Klein 10745* (HBR, PEL, RB); São Miguel d'Oeste, near Paraíso, 26°34'S, 53°40'W, alt. 350-500 m, 21 Oct. 1964 (fl.), *L.B. Smith & R. Reitz 12799* (B, HBR, MO, RB); Sombrio, Sanga da Areia, alt. 10 m, 28 Jan. 1960 (immat. fr.), *R. Reitz & R.M. Klein 9463* (HBR, SP); Tupitinga, Campos Novos, alt. 800 m, 29 Oct. 1963 (fl.), *R.M. Klein 4245* (B, HBR, MBM, RB); Urussanga, Pinhal

da Cia. Lauro Müller, alt. 300 m, 25 Oct. 1958 (fl.), *R. Reitz & R.M. Klein 7523* (B, BR, HBR, HRB, RB, U); Xanxerê, Rio Xanxerê and vicinity, c. 26°52'S, 52°24'W, alt. 700 m, 14 Nov. 1964 (fl.), *L.B. Smith & R.M. Klein 13266* (F, HBR, M, NY, RB). **São Paulo:** Cananéia, Ilha do Cardoso, praia de Ipanema, Morro das Pedras, 6 Mar. 1985 (fr.), *F. de Barros 1054* (SP, SPSF); Campos do Jordão, Parque Estadual de Campos do Jordão, 22° 39'03.3"S, 45°26'24.9"W, c. 1600 m alt., 9 Sep. 2000 (fl. bud), *P.L.R. de Moraes 2225* (ESA, SPSF); idem, 19 Mar. 2001 (immat. fr.), *P.L.R. de Moraes 2391* (ESA, LE, UEC); Iguape, E.E. Juréia-Itatins, Serra da Juréia, mata ao redor da Cachoeira do Salto, 12 Dec. 1990 (immat. fr.), *S.J.G. da Silva et al. 125* (SP); Iguape, Estação Ecológica Juréia-Itatins, Núcleo Rio Verde, 24°32'53.0"S, 47°13'52.7"W, c. 3 m alt., 7 May 2001 (fallen fr.), *P.L.R. de Moraes 2424* (ESA); Jacupiranga, Parque Estadual de Jacupiranga, Núcleo Cedro, 24°57'44.5", 48°24'53.6"W, 14 Feb. 1995 (fr.), *R.R. Rodrigues et al. s.n.* (ESA-23307, HRCB-20790, 29907, SPF-105792, UEC-33434, 72546); Jundiá, Base Ecológica da Serra do Japi, 23°14'10"S, 46°56'50"W, c. 1100 m alt., 19 Sep. 2000 (fl. bud), *P.L.R. de Moraes 2243* (ESA, HRCB, SPSF); idem, 23°14'15.3"S, 46°57'03.2"W, 1 Feb. 2001 (immat. fr.), *P.L.R. de Moraes 2381* (ESA, MO, RB, UEC); Lindóia, Fazenda São Bento, Mata da Ilha, 22°32'33.8"S, 46°37'22.4"W, c. 670 m alt., 30 Oct. 2001 (fr.), *P.L.R. de Moraes & S.F.M. de Oliveira 2504* (ESA); Monte Alegre do Sul, E.E. de Monte Alegre, 15 Jun. 1994 (fr.), *L.C. Bernacci et al. 376* (IAC, SP); São João da Boa Vista, estrada para Andradadas, Pico do Gavião, em frente entrada para Fazenda Refúgio, 21°59'57.2"S, 46°41'17.5"W, c. 900 m alt., 12 Oct. 2001 (fallen fr.), *P.L.R. de Moraes 2490* (ESA); Sete Barras, Parque Estadual Intervales, Núcleo Saibadela, Trilha Quilombo, 24°13'37.1"S, 48°04'38.6"W, c. 90 m alt., 9 Oct. 2000 (fl., immat. fr.), *P.L.R. de Moraes 2298* (ESA); without locality, s.d. (ster.), *F. Sellow 213* (P 00571416). **Locality unknown:** without locality, s.d. (fl.), *F. Sellow s.n.* (B⁺, F-646890 – Photo F Neg. No. 3842 and fragments from B⁺; type of *Cryptocarya aschersoniana*). **URUGUAY. Montevideo,** s.d. (fl.), *M. Anderson s.n.* (G – negatives in UEC).

***Cryptocarya botelhensis* P.L.R. de Moraes**

Paratypes. BRAZIL. São Paulo: Paranapiacaba, mata da Estação Biológica, 20 Jun. 1946 (fl., fr.), *M. Kuhlmann 3219* (SP, SPF); Parque Estadual Carlos Botelho, São Miguel Arcanjo, 13 Jan. 1996 (fr.), *P.L.R. de Moraes 1243* (ESA, HRCB, RB, UEC); idem, 13 Jan. 1996 (fr.), *P.L.R. de Moraes 1252* (ESA, HRCB); idem, 11 Feb. 1996 (fr.), *P.L.R. de Moraes 1254* (HRCB, PMSP, RB, SPSF); idem, 11 Feb. 1996 (fr.), *P.L.R. de Moraes 1257* (HRCB, RB, UEC); idem, 19 Feb. 1996 (fr.), *P.L.R. de Moraes 1262* (ESA, HRCB, RB); idem, 1 Feb. 1996 (fr.), *P.L.R. de Moraes 1264* (HRCB, QRS); idem, 24°03'54.2"S, 47°57'55"W, c. 810 m alt., 19 Dec. 2000 (young fl.), *P.L.R. de Moraes 2311* (ESA, MO, NY, UEC); idem, 18 Mar. 2006 (immat. fr.), *P.L.R. de Moraes 2570* (UEC); 24°03'50.7"S, 47°58'06.6"W, c. 820 m alt., 19 Dec. 2000 (young fl.), *P.L.R. de Moraes 2313* (ESA, MO, UEC); 24°04'15.6"S, 47°57'42.3"W, c. 820 m alt., 19 Dec. 2000 (young fl.), *P.L.R. de Moraes 2316* (ESA, MO, NY, UEC); 24°03'50.7"S, 47°58'06.6"W, c. 820 m alt., 9 Jan. 2001 (fl.), *P.L.R. de Moraes 2324* (ESA, UEC); 24°03'54.2"S, 47°57'55"W, c. 820 m alt., 9 Jan. 2001 (fl.), *P.L.R. de Moraes 2325* (C, ESA, HBG, L, S, UEC); 24°03'57.9"S, 47°57'46.8"W, c. 820 m alt., 9 Jan. 2001 (fl.), *P.L.R. de Moraes 2326* (E, ESA, L, M, O, S, UEC); 24°04'15.6"S, 47°57'42.3"W, c. 820 m alt., 9 Jan. 2001 (fl.), *P.L.R. de Moraes 2327* (C, ESA, HBG, L, M, S, UEC); 24°04'14.8"S, 47°57'57"W, c. 840 m alt., 10 Jan. 2001 (fl.), *P.L.R. de Moraes 2329* (C, E, ESA, HBG, L, M, O, S, UEC); Parque Estadual Carlos Botelho, São Miguel Arcanjo, 24°04'03"S, 47°58'08"W, 20 Apr. 2002 (fr.), *A.P. Savassi et al. 245* (ESA); Parque Estadual Carlos Botelho, border between São Miguel Arcanjo and Sete Barras, 24°08'10.7"S, 47°59'29.6"W, c. 800 m alt., 25 Mar. 2001 (immat. fr.), *P.L.R. de Moraes 2408* (B, C, ESA, M, MO, NY, UEC); Serra de Paranapiacaba, São Miguel Arcanjo, Reserva Estadual Carlos Botelho, 18 Apr. 1967 (fr.), *W. Hoehne 6186* (SPF); Parque Estadual da Serra do Mar, Núcleo Santa Virgínia, Trilha Salto Grande, São Luiz do Paraitinga, 23°20'35.4"S, 45°09'18.3"W, c. 890 m alt., 9 Aug. 2001 (immat. fr.), *P.L.R. de Moraes 2481* (C, E, ESA, HBG, L, M, MBM, O, RB, S, UEC); idem, 23°20'35.4"S, 45°09'18.3"W, c. 890 m alt., 9 Aug. 2001

(immat. fr.), *P.L.R. de Moraes* 2483 (B, C, ESA, HBG, M, MO, NY, RB, UEC); idem, margem Rio Paraíba, 9 Aug. 2001 (immat. fr.), *P.L.R. de Moraes* 2484 (ESA, MO, NY, UEC); idem, Trilha Ponte de Pedra, c. 870 m alt., 9 Aug. 2001 (immat. fr.), *P.L.R. de Moraes* 2482 (B, C, ESA, HBG, M, MBM, MO, NY, SP, UEC); Parque Estadual da Serra do Mar, Núcleo Cunha-Indaiá, Trilha do Rio Bonito, c. 970 m alt., 10 Feb. 2002 (fr.), *P.L.R. de Moraes* 2536 (ESA).

***Cryptocarya citriformis* (Vellozo) P.L.R. de Moraes**

BRAZIL. Bahia: Almadina, rod. Almadina/Ibitupã, entrada a 7 km, Serra dos Sete-Paus, c. 12 km da entrada da Fazenda Cruzeiro do Sul, 14°44'06"S, 39°41'46"W, 17 Aug. 1997 (immat. fr.), *J. Lima Paixão et al.* 17 (MO). **Espírito Santo:** Linhares – Reserva Florestal de Linhares, Estrada Orelha de Onça, km 1.43, Mata de Tabuleiro, 27 Jul. 1981 (fl.), *D.A. Folli* 320 (CVRD, ESA, MG, MO). **Minas Gerais:** Tombos, Fazenda da Cachoeira, 29 Jul. 1935 (fl.), *H.L. de Mello Barreto* 1784 (B, BHCB, BHMH, ESA, F – 4 sheets, HB – 2 sheets, HBG, MO, NY, R – 2 sheets, SPF); Viçosa, (fr.), *J.G. Kuhlmann* 117 (RB-1533, fruit collection); Santa Rita do Itueto, Aimorés, estrada Tabaúna a S.R. do Itueto km 15, 16 Oct. 2002 (fr.), *A.A. Luz* 77 (CVRD); Sete Lagoas, Estação Experimental de Água Limpa, 17 Sep. 1968 (fl., fr.), *V. Gomes* 2811 (UB). **Rio de Janeiro:** Cantagalo, Sep. (fl.), *T. Peckolt* 166 (U – type of *Cryptocarya hypoleuca*); idem, 1860 (fr.), *T. Peckolt* 36 (BR – four sheets); Petrópolis, "In sylv. Mandiocca", Sep. 1823 (fl.), *L. Riedel* s.n. (B†, G, K, L, LE – 3 sheets, NY-00354874, NY-00354875, OXF – left-hand specimen; type of *Aydenron floribundum*); Petrópolis, Serra da Estrela, 7 Jun. 1933 (fr.), *J.G. Kuhlmann* s.n. (RB-1527, fruit collection); Estrada Rio-Petrópolis, 7 Jun. 1933 (fr.), *J.G. Kuhlmann* s.n. (INPA-140061, RB-13966, SPF-83117); Serra da Estrela, Magé/Petrópolis, 22°34'09.8"S, 43°12'04.7"W (type locality), c. 100 m alt., 18 Jul. 2000 (fl., immat. fr., fallen fr.), *P.L.R. de Moraes* 2154 (B, ESA, LE, MO, NY, P); idem, 11 Jun. 2001 (immat. fr.), *P.L.R. de Moraes* 2456 (ESA, LE); Rio de Janeiro, 1941 (fr.), *J.G. Kuhlmann* s.n. (RB-3190, fruit collection). **Locality unknown:** 1852 (fl.), *J.S. Blanchet* s.n. (G, negatives in UEC!).

***Cryptocarya guianensis* Meisner**

BRAZIL. Amapá: Rio Amapari, campo 14, 8 Oct. 1961 (immat. fr.), *J.M. Pires et al.* s.n. (HBG – 3 sheets, IAN-114070, MG-129420, MO-3430082, NY-51568); Rio Araguari, campo 13, 1°45'N, 52°W, 5 Oct. 1961 (immat. fr.), *J.M. Pires et al.* s.n. (HB-47127, IAN-114027, MG-28733, NY-51511, U-0017933, UB-39146). **Bahia:** Almadina, rodovia Almadina/Ibitupã, entrada c. 5 km W da sede do município, Serra dos Sete-Paus, c. 8 km da entrada Fazenda Cruzeiro do Sul, 14°44'06"S, 39°41'46"W, 21-25 Jan. 1998 (immat. fr.), *J.G. Jardim et al.* 1263 (CEPEC, MO, NY); locality unknown, s.d. (fl.), *G. Bondar* P66 (F-1187458). **Mato Grosso:** Vila Bela da Santíssima Trindade, 58 km S of Rondônia state line on BR-364 from Vilhena to Cáceres, 13°22'S, 59°56'W, 2 Nov. 1985 (immat. fr.), *W.W. Thomas et al.* 4752 (F, INPA, MG, MO, NY, SPF). **Pará:** Almeirim, Monte Dourado, próximo a marina da SION em Munguba, 26 Sep. 1986 (fl., immat. fr.), *J.M. Pires & N.T. Silva* 1388 (MG, MO, NY – 2 sheets, RB, Herbário Jari); BR 163, Cuiabá-Santarém Highway, km 1,131, vicinity of Igarapé Natal, 15 Nov. 1977 (immat. fr.), *G.T. Prance et al.* 25443 (F, HBG, MG, MO, NY, RB, U); "near Alcobaça" (Tucuruí), Coqueiro, Tocantins, 30 Apr. 1924 (fl.), *J.G. Kuhlmann* 2118 (RB, U). **Rondônia:** Porto Velho, UHE de Samuel, Rio Jamari, 18 Jan. to 11 Feb. 1989 (immat. fr.), *U.N. Maciel & C.S. Rosário* 1739 (MG); Rio Machado, Jan. 1981 (immat. fr.), *M. Goulding* 1117 (MG). **Locality unknown:** unknown provenance, s.d. (fl.), *collector unknown* (RB-60616; only the fragment of inflorescence inside an envelope mounted on the same sheet of *B. A. Krukoff's 5th Expedition to Brazilian Amazonia 6356* – lectotype of *Cryptocarya nigropunctata*). **VENEZUELA:** Estado Zulia, Sierra de Perijá, Misión de la Sabana, 1300 m, em selva de montaña, 22 Mar. 1959 (fl.), *A.L. Bernardi* 7446 (K, MER, MO). **GUYANA:** Upper Takutu-Upper Essequibo, Kassikaityu River, 0-3 km E of landing at terminus of trail from Kuyuwini River, 01°50'N, 59°05'W, alt. 240 m, 21 May 1997 (fr.), *D. Clarke* 4834 (CAY, MO, NY); idem, Kassikaityu River, 0-2 km S and W of camp, 01°39'N, 59°14'W, elev. 240 m, 21 Sep. 1999 (fl.), *D. Clarke* 8889 (MO). **SURINAM:** Haut

Litany, Bassin du Litany, alt. 170 m, 2°31'N, 54°45'W, 3 Aug. 1993 (immat. fr.), *J.J. de Granville et al. 12011* (MO). **FRENCH GUIANA. Approuague**, rives de la Rivière Arataye en amont 10 km environ, 6 Feb. 1967 (immat. fr.), *R.A.A. Oldeman 2494* (CAY). **Camopi**, près de Camopi, 15 Dec. 1965 (fr.), *R.A.A. Oldeman 1783* (CAY); Camopi, env. 400 m en amont de Camopi, 15 Dec. 1965 (fr.), *R.A.A. Oldeman 1872* (CAY); Rives du Camopi (affluent de l'Oyapock) between Bienvenue et Yanioué, 14 Dec. 1967 (fr.), *R.A.A. Oldeman 2711* (CAY). **Cayenne**, s.d. (fr.), *J. Martin s.n.* (BM, photocopy and photo in UEC; K, cibachrome in UEC); Rivière Comté, env. 75 km S de Cayenne, elev. 0 m, 28 Mar. 1965 (fl.), *R.A.A. Oldeman 1220* (B, CAY, K, MO, NY, U – 2 sheets). **Crique Armontabo**, 15 May 1985 (fr.), *D. Sabatier 1083* (CAY, NY, P); idem, 20 km du confluent avec l'Oyapock, 9 Apr. 1981 (fl., fr.), *P. Grenand & M.F. Prévost 2016* (CAY, MO – 2 sheets). **Fleuve Approuague**, sur la Crique Matarony, 20 Mar. 1967 (fl.), *R.A.A. Oldeman B-982* (CAY). **Haute Approuague**, à la Crique Calebasse, 13 Aug. 1968 (young fl., immat. fr.), *R.A.A. Oldeman B-1798* (CAY, U); sur la Crique Calebasse, 16 Aug. 1968 (fl., immat. fr.), *R.A.A. Oldeman B-1808* (B, CAY, MO, NY, U – 2 sheets). **Haut Oyapock**, à proximité de Zidockville, 6 Aug. 1980 (fl.), *M.F. Prévost & P. Grenand 926* (CAY, MO); en aval de l'embouchure de la Rivière Eurepoucigne, 20 May 1970 (buds), *R.A.A. Oldeman T-757* (CAY, NY, U); Village Zidock, 7 Sep. 1977 (ster.), *P. Grenand 1451* (U). **Maroni**, 1863 (fl., fr.), *M. Mélinon 109* (P-00233409, photo in UEC; NY, photo in UEC); idem, "environs de Godebert", s.d. (fl.), *G. Wachenheim 68* (P-00221227, F Neg. No. 35309; holotype of *Cryptocarya maroniensis*). **Rivière Comté**, sur la Crique Galibi à environ 11.2 km en amont de son embouchure, 15 Jul. 1967 (fl.), *R.A.A. Oldeman B-1053* (CAY). **Trois Sauts** – Fleuve Oyapock, 29 Oct. 1974 (fr.), *J.P. Lescure 356* (CAY – 2 sheets); Haut Oyapock, Ouest de Trois Sauts, Crique Euleupousing, 15 Jul. 1975 (fl.), *J.J. de Granville T-1138* (CAY). **Locality unknown**: 1839 (fl.), *M.E. Moricand 113* (G-DC, G – 3 sheets; lectotype of *Cryptocarya guianensis*); s.d. (fl.), *M. Mélinon s.n.* (B[†], F Neg. No. 3843); 11 Jan. 1957 (immat. fr.), *P. Béna 45-N* (CAY – 2 sheets, U).

***Cryptocarya mandioccana* Meisner**

BRAZIL. Bahia: Potiraguá, km 3 da rodovia Itaimbé/Ventania, 3 Oct. 1974 (fl.), *T.S. Santos 2811* (CEPEC, HBG, RB); Rodovia Almadina, 11 Mar. 1971 (immat. fr.) *R.S. Pinheiro 1107* (BHCB, CEPEC, HBG). **Minas Gerais**: Barbacena, 4 Nov. 1928 (fl.), *Serviço Florestal do Brasil 353* (RB); Carangola, Fazenda Santa Rita, elev. 600 m, mata de encosta, 20°46'S, 42°02'W, 11 Aug. 1992 (fr.), *L.S. Leoni 1905* (GFJP, HB, SPSF); Caratinga, Estação Biológica de Caratinga, 19°50'S, 41°50'W, 18 Jun. 1995 (fr.), *J. Gomes 253* (BHBC); Coronel Fabriciano, Rio Piracicaba, mata virgem da Reserva Florestal do Estado, 28 Aug. 1957 (fr.), *R.L. Fróes 33361* (IAN); Marliéria, Parque Estadual do Rio Doce, trilha do Vinhático, 19°45'45.9"S, 42°37'20.7"W, c. 280 m alt., 17 Nov. 2001 (fr.), *P.L.R. de Moraes 2516* (ESA, UEC); Ouro Preto, Jardim Botânico de Ouro Preto, cultivated, 25 Oct. 1977 (fl.), *J. Badini s.n.* (OUPR-8928); Ouro Preto, 1904 (fl.), *C.A.W. Schwacke s.n.* (BHCB-842); Rio Novo, Guianá, 14 Oct. 1944 (fl.), *E.P. Heringer 907* (HXBH, SP, SPF, VIC); Tombos, Fazenda da Cachoeira, 30 Jul. 1935 (ster.), *H.L. Mello Barreto 1805* (R); Viçosa, Fazenda S. João, 19 Dec. 1935 (immat. fr.), *J.G. Kuhlmann 2148* (MO, RB, VIC – 2 sheets); Visconde do Rio Branco, former 'São João Batista do Presídio', "Habitat in sylvis aboriginibus ad Praesid. Joannis Bapt. et alibi. Provinciae Minar.", s.d. (fr.), *C.F.P. von Martius s.n.* (M; syntype of *Cryptocarya moschata*; Plate XI, A.). **Paraná**: Antonina, Sapitanduva, 28 Apr. 1975 (fr.), *G.G. Hatschbach 36657* (AAU, C, MBM, UPGB); Cacatu, Fazenda ETEPLA, 26 Nov. 1975 (immat. fr.), *H.G. Richter 38* (RB); Guaratuba, Garuva, 22 Oct. 1958 (fl.), *G.G. Hatschbach 5175* (HBR, MBM, PACA, RB, UPGB); Guaraqueçaba, Serrinha, alt. 30-100 m, 8 Mar. 1968 (immat. fr.), *G.G. Hatschbach 18693* (F, HBR, MBM, NY, RB, UPGB, US); Morretes, Morro do Arrastão, alt. 200 m, 18 Jul. 1981 (fr.), *G.G. Hatschbach 43951* (BC, C, GB, MA n.v., MBM, MO, NY, UB); Morretes, Parque Estadual Pico do Marumbi, 30 May 2000 (immat. fr.), *M. Borgo & C. Giongo 210* (UPGB); São José dos Pinhais, 29 Nov. 1975 (ster.), *H.G. Richter 44* (RB). **Rio de Janeiro**: Governador Portela, Monte Sinai, 1935 (fl., fr.), *G.M. Nunes 229* (BO n.v., RB, U); Magé, Cachoeiras de

Macacu, Paraíso, 22°27'22.32"S, 42°50'42.56"W, alt. 100 a 160 m, 29 Aug. 1991 (fr.), *R. Guedes et al.* 2235 (RB); Nova Friburgo, Reserva Ecológica Municipal de Macaé de Cima, estrada para o Sítio Sophronites, 22°00'S, 42°03'W, alt. 1000 m, 13 Sep. 1989 (fl.), *H.C. de Lima et al.* 3691 (MO, NY, RB, SPSF); Paraty, Praia Negra, picada para o Pico do Cairuçu, mata de encosta, trecho entre 180 e 300 m alt., 21 Mar. 1992 (immat. fr.), *C.F. Farney et al.* 3079 (RB); Petrópolis, "In sylvis Mandiocensis", Oct. 1823 (fl.), *L. Riedel s.n.* [B† (F Neg. No. 3844), GOET – 2 sheets, K, L-0036185, L-0036186, LE – 2 sheets, NY-00355045, OXF – right-hand specimen, OXF, U; type of *Cryptocarya mandioccana*]; Magé/Petrópolis, Serra da Estrela (type locality), 22°34'10.6"S, 43°12'02.1"W, c. 60 m alt., 18 Jul. 2000 (fr.), *P.L.R. de Moraes* 2157 (ESA); Rio de Janeiro, Alto da Boa Vista, Morro Queimado, vertente sul, 12 Jul. 1989 (fl.), *R. Ribeiro et al.* 1725 (GUA); Rio de Janeiro, Mata das Obras Públicas, perto da sede do Horto Florestal, 24 Mar. 1927 (fr.), *J.G. Kuhlmann* 355 (BO n.v., MO, RB); Rio de Janeiro, Represa Camorim, Jacarepaguá, s.d. (fl.), *J.G. Kuhlmann s.n.* (HBG, MO-3464092, RB-170940); without locality, 1894 (fl.), *A.F.M. Glaziou* 20443 (C, G, K, P, photos in UEC!); Silva Jardim, Reserva Biológica de Poço das Antas, 22°30' – 22°33'S, 42°15' – 42°19'W, 21 Jul. 1994 (ster.), *S.J. Silva Neto et al. s.n.* (RB-358588); Teresópolis, "Imbuhy Lane, beyond Theresopolis, Organ Mountains", Jan. 1838 (immat. fr.), *J. Miers* 4275 (BM, photocopy in UEC!; K, cibachrome in UEC!); Teresópolis, Parque Nacional da Serra dos Órgãos, matas do Rio Paquequer, próx. Km 2,0 da estrada para Barragem, c. 1125 m alt., 2 Mar. 2004 (immat. fr.), *C.S. Pardo* 683 (RB – 2 sheets). **Santa Catarina:** Guaramirim, alt. 100 m, 17 Jul. 1951 (immat. fr.), *R.M. Klein* 4 (HBR, RB); Itajaí, Braço Joaquim, Luís Alves, alt. 350 m, 4 Nov. 1954 (fl.), *R. Reitz & R.M. Klein* 239 (B, HB, HBR, MBM, NY – 2 sheets, PACA, RB, UPCB); São Francisco do Sul, Três Barras, Garuva, alt. 200 m, 26 Jul. 1957 (fr.), *R. Reitz & R.M. Klein* 4588 (HBR, SP). **São Paulo:** Anhembi, Fazenda Barreiro Rico, 31 Jul. 1981 (fl.), *O. Cesar s.n.* (HRCB-3226); Bananal, Estação Ecológica de Bananal, trilha da Pedra Vermelha, c. 1100 m alt., 12 Feb. 2002 (fl., immat. fr.), *P.L.R. de Moraes* 2537 (ESA); Cananéia, Ilha do Cardoso, morro da captação, 10 Jul. 1985 (fr.), *F. de Barros* 1151 (SP, SPSF); Cubatão, Mata Água Fria, 9 Aug. 1899 (ster.), *F.C. Hoehne s.n.* (SP-23802); Cunha, P.E.S.M., Núcleo Cunha, 12 Dec. 1989 (fl.), *J.B. Baitello* 324 (HRCB, SPSF); Iguape, Estação Ecológica de Juréia-Itatins, trilha da planície em direção a Cachoeira do Salto, 23 Nov. 1995 (fl.), *S.A. Nicolau et al.* 962 (SP, SPF); Iguape, Estação Ecológica Juréia-Itatins, Núcleo Rio Verde, 24°32'52.6"S, 47°14'28.3"W, c. 40 m alt., 08 May 2001 (fr.), *P.L.R. de Moraes* 2429 (ESA, UEC); Pariquêra-Açu, Estação Experimental "José Cione" (IAC), 24°36'48.7"S, 47°52'52.1"W, c. 50 m alt., 21 Apr. 2001 (immat. fr.), *P.L.R. de Moraes* 2419 (ESA); Peruibe, Estação Ecológica de Juréia-Itatins, Núcleo Arpoador, trilha do Fundão, 24°23'13.3"S, 47°01'03.1"W, c. 30 m alt., 30 May 2001 (fr.), *P.L.R. de Moraes* 2439 (ESA, RB); Ribeirão Grande, Fazenda Intervalles, Núcleo São Pedro, estrada para Barra Grande, 5 Aug. 1994 (fr.), *G.F. Árbocz* 596 (HRCB, SPSF); Rio Claro, cultivada no Horto Florestal, 5 Aug. 2002 (fr.), *P.L.R. de Moraes* 2542 (ESA); São Luiz do Paraitinga, P.E.S.M., Núcleo Santa Virgínia, trilha do Poço do Pito, 24 Dec. 1995 (fl., immat. fr.), *P.L.R. de Moraes* 1234 (HRCB, RB); idem, trilha Itamambuca, 23°19'36.3"S, 45°04'27.5"W, c. 1000 m alt., 8 Aug. 2001 (fr.), *P.L.R. de Moraes* 2478 (ESA); São Miguel Arcanjo, Parque Estadual Carlos Botelho, 1 Oct. 1990 (fr.), *P.L.R. de Moraes* 259 (HRCB, QRS); idem, 16 Nov. 1991 (fl.), *P.L.R. de Moraes* 572 (HRCB); idem, 10 Nov. 2001 (fl., immat. fr.), *P.L.R. de Moraes* 2505 (ESA, LE); São Paulo, Jardim Botânico, 9 Dec. 1933 (fl.), *F.C. Hoehne s.n.* (CTES-231434 n.v., HB-52160, RB-119518, SP-28395, SPF-83113); Serra da Cantareira, 1 Sep. 1982 (fl.), *J.B. Baitello & O.T. Aguiar s.n.* (HRCB-23688, SPSF-8072); Serra da Cantareira, Chapada, próximo à linha de força, 6 Nov. 1987 (fl.), *J.B. Baitello* 231 (HRCB, SPSF); São Roque, Mata da Câmara, 23°31'26"S, 47°06'45"W, 27 Oct. 1993 (ster.), *E.C. Leite & A. Oliveira* 257 (ESA, UEC); São Sebastião, Praia Barra do Una/Boracéia, estrada de acesso da Fazenda Águas do Bento, 23°43'54"S, 45°46'01"W, alt. 30 m, floresta de restinga, 22 Apr. 2000 (immat. fr.), *A.A. de Oliveira et al.* 3649 (ESA, UEC); Sete Barras, Parque Estadual Intervalles, Núcleo Saibadela, trilha Quilombo, 9 Dec. 1995 (immat. fr.), *P.L.R. de Moraes* 1226 (HRCB, QRS, RB); Sete Barras, Parque Estadual Carlos Botelho, Núcleo Sete Barras, 24°11'48"S, 47°55'48"W, c. 50 m alt., 16 Jan. 2001 (immat. fr.), *P.L.R. de Moraes* 2340 (ESA, MO, RB);

Sete Barras, Parque Estadual Carlos Botelho, Raizão, 24°10'59"S, 47°55'27"W, c. 200 m alt., 21 May 2001 (fr.), *P.L.R. de Moraes 2434* (ESA, UEC); Ubatuba, P.E.S.M., Núcleo Picinguaba, trilha da Casa da Farinha, 22 Dec. 1995 (fl.), *P.L.R. de Moraes 1242* (HRCB); idem, 23°19'57"S, 44°41'51"W, c. 100 m alt., 6 Aug. 2001 (fr.), *P.L.R. de Moraes 2471* (ESA). **Locality unknown:** 1839 (ster.), *J.B.E. Pohl s.n.* (BR-837721).

***Cryptocarya micrantha* Meisner**

BRAZIL. Espírito Santo: Santa Teresa, São Antonio, sítio do Boza, alt. 700 m, 12 Jul. 2001 (immat. fr.), *L.J.C. Kollmann et al. 4186* (MBML, RB, UEC). **Minas Gerais:** Abre Campo, 22 Dec. 2000 (immat. fr.), *F.B. Pereira 45/59* (RFA); Coronel Pacheco, Estação Experimental, 15 Oct. 1942 (fl.), *E.P. Heringer 913* (HXBH, SP, VIC); Descoberto, Reserva Biológica da Represa do Grama, 31 Dec. 2001 (immat. fr.), *R.M. Castro et al. 640* (CESJ – photo in UEC, MO n.v., RB n.v.); Mariana, UHE Caldeirões, Rio Gualaxo do Sul, Fazenda Antonio Sampaio, 5 Apr. 1998 (immat. fr.), *E. Tameirão Neto 2714* (BHCB, SPF); Rio Novo, s.d. (fl.), *F.P.L. Araújo s.n. in Herb. Schwacke 6680* (B[†], RB-48690; type of *Cryptocarya schwackeana*); Rio Novo, 1889 (fl.), *F.P.L. Araújo 24* (R); “in silva primaeva ad Ribeirão prope Rio Novo”, Sep. 1894 (fl.), *C.A.W. Schwacke 10924* (BHCB-843, OUPR-8934, P-00221228 [photo in UEC] – Plate VIII, A., RB-48689); Vargem Alegre, Fazenda das Pedras, 25 Jul. 1928 (fr.), *J.G. Kuhlmann 39* (BO, RB – 4 sheets; type of *Cryptocarya granulata*). **Rio de Janeiro:** Governador Portela, Monte Sinai, Jan. 1935 (fl.), *G.M. Nunes 191* (RB – 2 sheets, U); Guapimirim, Cachoeiras de Macacu, Reserva Ecológica do Paraíso; 22°27'22°32'S, 42°50'42°56'W, alt. 100 to 160 m, 27 Aug. 1991 (fl.), *R. Guedes et al. 2215* (RB); Estação Ecológica Estadual de Paraíso, parcela 10, 22°21'22°28'S, 42°27'42°35'W, 19 Nov. 1991 (fr.), *H.C. de Lima et al. s.n.* (RB-310214); Itatiaia, Parque Nacional de Itatiaia, lote 26, 15 Sep. 1953 (fl., immat. fr.), *J.J. Sampaio 27* (HPNI); Magé, Paraíso, área do Centro de Primatologia do Rio de Janeiro, alt. 190 m, 14 Oct. 1984 (ster.), *H.C. de Lima et al. 2180* (GUA, RB); Mendes, Fazenda São José das Paineiras, 1 May 1993 (immat. fr.), *T. Konno et al. 135* (RUSU – 2 sheets); Nova Friburgo, Reserva Ecológica Municipal de Macaé de Cima, 22°33'22°28'S, 42°30'42°34'W, sítio Fazenda Velha, 15 Aug. 1990 (ster.), *J.F. Baumgratz et al. s.n.* (RB-292401); Nova Iguaçu, Serra do Tinguá, 13 May 1943 (immat. fr.), *F. Guerra & Octávio s.n.* (RB-48095 – 2 sheets); Petrópolis, “In sylv. umbr. Mand.”, Oct. 1823 (fl., fr.), *L. Riedel s.n.* [B[†] (F Neg. No. 3845), GOET – 2 sheets), K, L-0033190, L-0036191, LE – 2 sheets, NY-00355046; type of *Cryptocarya micrantha*]; Serra da Estrela, Magé/Petrópolis, 22°34'08.8"S, 43°12'03.7"W (type locality), c. 100 m alt., 18 Jul. 2000 (immat. fr.), *P.L.R. de Moraes 2155* (ESA); idem, 11 Jun. 2001 (immat. fr.), *P.L.R. de Moraes 2455* (ESA); estrada Rio/Petrópolis, 13 Apr. 1939 (immat. fr.), *F. Cacerelli s.n.* (RB-184189 – 2 sheets); Resende, Horto Florestal, 13 Jun. 1930 (fl.), *J. Ignácio s.n.* (BO n.v., RB-91276); idem, em áreas das Indústrias Nucleares do Brasil, NUCLEBRÁS, perto do Reservatório do Funil, 10 Sep. 1990 (immat. fr.), *J.P.P. Carauta et al. 6209* (MO, RB); Rio das Ostras, Reserva Biológica União, 19 Nov. 1997 (fl.), *P.P. Oliveira 265A* (BHCB, MO); Silva Jardim, Reserva Biológica de Poço das Antas, 22°30'22°33'S, 42°15'42°19'W, 30 Aug. 1994 (immat. fr.), *G. Neves et al. 4* (RB – 2 sheets); Valença, Distrito Barão de Juparanã, picada para Alto do Baeta, 17 Nov. 2000 (immat. fr.), *H.C. de Lima et al. 5745* (RB). **São Paulo:** Iguape, Estação Ecológica Juréia-Itatins, trilha para a Figueira Grande, 30 May 1996 (fl., immat. fr.), *S.A. Nicolau et al. 1060* (ESA, SP, SPSF); Iguape, Estação Ecológica de Juréia-Itatins, Núcleo Rio Verde, Trilha da Figueira, 24°32'52.6"S, 47°14'28.3"W, c. 40 m alt., 1 Jun. 2001 (fr.), *P.L.R. de Moraes 2449* (ESA); São Sebastião, Água Branca, 25 Feb. 2005 (ster.), *M.T. Toniato 110* (UEC).

***Cryptocarya moschata* Nees & Martius ex Nees**

BRAZIL. Alagoas: Flexeiras, 7 Aug. 1968 (fl.), *M.T. Monteiro 22684* (RB); locality not indicated, s.d. (ster.), *A.M. Uchoa 15* (RB). **Bahia:** Palmeiras, Pai Inácio, fenda do Morro de Pai Inácio, a leste do cruzeiro, 12°27'28"S, 41°28'16"W, 1140 m alt., 24 Apr. 1995 (fr.), *A. Pereira et al.*

1753 (ALCB, CEPEC). **Distrito Federal:** Bacia do Rio São Bartolomeu, 18 Aug. 1980 (fl.), *E.P. Heringer et al.* 5309 (IBGE, K, NY); Reserva Ecológica do IBGE, 15°57'16"S 47°53'W, 7 Mar. 1990 (fr.), *M.L.M. Azevedo & E.C. Lopes* 507 (IBGE, SP, UFP n.v.). **Goiás:** Alto Paraíso de Goiás, estrada para Colinas, km 20 a 27, 12 Jul. 1991 (immat. fr.), *B.A.S. Pereira et al.* 2021 (IBGE, RB); Goiânia, Fazenda Samambaia, na GO-10 estrada que vai para o clube Itanhangá, 11 Sep. 1992 (immat. fr.), *M.Y Hashimoto* 31 (UFG). **Mato Grosso:** Chapada dos Guimarães, trilha da Gruta Aroe-Jari e Lagoa Azul, 15°36'67"S, 55°29'69"W, 19 Feb. 1997 (fr.), *A.G. Nave et al.* 1062 (ESA, UEC); São José do Rio Claro, Bairro Piracema, 13°19'56"S, 56°43'26"W, 1 May 1997 (immat. fr.), *N.M. Ivanauskas et al.* 1967 (ESA). **Minas Gerais:** Andradas, estrada para Pocinhos do Rio Verde/Caldas; 22°02'04.3"S, 46°31'00.7"W, c. 1100 m alt., 13 Oct. 2001 (immat. fr.), *P.L.R. de Moraes* 2495 (ESA, LE, UEC); Araguari, Fazenda da Mata, 23 Mar. 1993 (fr.), *G.M. Araujo* 856 (ESA, HUFU, NY, SPSF); Bom Sucesso, Macaia, Fazenda Botelho, 27 Nov. 1990 (immat. fr.), *L. Manuel et al.* s.n. (E-00109554, ESAL-12417); Caldas, s.d. (fl.), *A.F. Regnell s.n.*, "Ex herb. Regnelli., Ser. II, No. 240" (S – 2 sheets); idem, 1867 (fl.), *A.F. Regnell s.n.*, "Ex herb. Regnelli., Ser. II, No. 240" (BR-837723 – "Herbarium Martii"); idem, s.d. (fl.), *A.F. Regnell s.n.*, "Ex herb. Regnelli., Ser. II, No. 240" (NY, UPS); idem, 1845? (fl.), *A.F. Regnell s.n.*, "Ex herb. Regnelli., Ser. II, No. 240" (UPS); idem, s.d. (fl.), *A.F. Regnell s.n.*, "Ex herb. Regnelli., Ser. II, No. 240" (P-221216 – "Ex Herb. Glaziou"); idem, s.d. (fr.), *A.F. Regnell s.n.*, "Ser. III, No. 1722" (O); idem, 5 Jun. 1869 (fr.), *A.F. Regnell s.n.*, "Ex herb. Regnelli., Ser. III, No. 1722" (UPS); Caxambu, Parque das Águas, 21°58'48.5"S, 44°56'12.4"W, c. 895 m alt., 12 Nov. 2001 (immat. fr.), *P.L.R. de Moraes* 2506 (ESA, LE, UEC); Diamantina, Serra do Espinhaço, c. 10 km SW Diamantina, alt. 1250 m, 3 Feb. 1972 (immat. fr.), *W.R. Anderson et al.* 35259 (AAU, F, MBM, MO, NY, RB, UB, UPS); Inconfidentes, 14 Oct. 1988 (immat. fr.), *H.F. Leitão Filho et al.* s.n. (FUEL-13631, HEPH-7455-1, UEC-20900); Itabira, estrada Itabira a BH, km 30, 13 Jan. 2004 (fr.), *A.A. Luz* 138 (CVRD); Itamonte, 3 Mar. 2001 (immat. fr.), *F.B. Pereira* 29/77 (RFA); Itumirim, Fazenda Tiãozinho, 27 Oct. 1992 (immat. fr.), *D.A. Carvalho et al.* s.n. (ESAL-13555); Janaúba, 9 Aug. 1998 (fl., immat. fr.), *D.A.S. Furlan s.n.* (ESAL-15519); Juiz de Fora, Mata do Morro do Redentor, Apr. 1994 (fr.), *R.G. Silveira & M.L.G. Lisboa s.n.* (CESJ-27828); Lagoa Santa, 27 Jun. 1865 (fl.), *J.E.B. Warming* 684/1 (C); idem, "Indganzew til roçaen vud Lapa Vermelha", 5 Sep. 1865 (immat. fr.), *J.E.B. Warming* 684/2 (C); idem, 12 Aug. 1865 (fl.), *J.E.B. Warming* 684/3 (C); idem, 15 Nov. (immat. fr.), *J.E.B. Warming* 684/4 (C); Lavras, ESAL, 14 Jan. 1991 (fr.), *J. Faria & M. Rocha s.n.* (ESAL-12478); Monte Santo de Minas, Fazenda Barreiro, 3 Sep. 1986 (fl.), *H.F. Paulino Filho s.n.* (ESA-13066, SPSF-11163, UEC); Ouro Fino, 8 May 1927 (fr.), *F.C. Hoehne s.n.* (SP-19506); Paraíso, entre Pedra São Domingos e Bairro Pessegueiro, 22°41'13"S, 45°58'15"W, alt. 1660 m, 14 Oct. 2000 (fl.), *G.S. França & J.R. Stehmann* 152 (BHCB, MO); Perdizes, mata da Zilda II, unidade de conservação do Galheiro – CEMIG, 26 Sep. 1994 (fl.), *E. Tameirão Neto & M.S. Werneck* 1148 (BHCB, MO – 2 sheets); Poços de Caldas, 21°50'20"S, 46°33'53"W, 26 Aug. 1980 (fr.), *J.Y. Tamashiro et al.* 175 (BHCB, ESA, FUEL, SPSF, UEC); Rio do Peixe (Caldas), Jul. 1862 (fr.), *A.F. Regnell s.n.*, "Ex herb. Regnelli., Ser. III, No. 1722" (P-221219, S, UPS); idem, 4 Jun. 1869 (fr.), *A.F. Regnell s.n.*, "Ex herb. Regnelli., Ser. III, No. 1722" (S); Santa Rita de Caldas, estrada para Ouro Fino, 22°05'26.6"S, 46°21'09.4"W, c. 1100 m alt., 13 Oct. 2001 (immat. fr.), *P.L.R. de Moraes* 2498 (ESA, RB, UEC); São Sebastião do Paraíso, 15 Feb. 2000 (fr.), *P.L.R. de Moraes* 2120 (ESA, P); São Sebastião do Paraíso, 21°01'24.4"S, 47°00'12.4"W, c. 1100 m alt., 2 Oct. 2000 (fl., immat. fr.), *P.L.R. de Moraes* 2267 (ESA, F); São Tomás de Aquino, 20°50'20.5"S, 47°03'30.0"W, c. 1040 m alt., 21 Nov. 2001 (immat. fr.), *P.L.R. de Moraes* 2520 (ESA, LE, UEC); Serra do Caracol, 4 Jun. 1869 (fr.), *A.F. Regnell s.n.*, "Ex herb. Regnelli., Ser. III, No. 1722" (S); idem, 20 Dec. 1875 (fr.), *C.W.H. Mosén* 4357 (R, S – 2 sheets); Base da Serra do Cipó, cerca de 500 m após Rio Cipó, 19°20'27.6"S, 43°38'07.7"W, 20 Nov. 2001 (fallen fr.), *P.L.R. de Moraes* 2519 (ESA); Uberlândia, 11 Sep. 1989 (fl.), *G.M. Araujo* 687 (HRCB, HUFU, SPSF, UEC); Locality unknown: "loco non indicato", 1845 (fl.), *J.F. Widgren* 394 (BR-837722, K, LE, NY, O, R-30946, S – 3 sheets, U-0017916!, UPS; type of *Cryptocarya moschata* f. *angustifolia*); idem, 1845 (ster.), *J.F. Widgren* 395 (BR, S). **Paraná:** São Jerônimo da Serra, 9 Aug. 1995 (fl.), *F.C. Silva et al.* 1827 (FUEL, IAC); idem, 20 Jan.

2001 (fr.), *A.J. Cavaleiro s.n.* (ESA-73092); Sapopema, Fazenda Bom Sucesso, 7 Dec. 1990 (ster.), *J.A. Pimenta et al. s.n.* (FUEL-17144). **Pernambuco**: "Gurjahú, entre o caminho e a margem direita do rio, abaixo da represa" (Recife), 2 Jul. 1952 (fl.), *A. Ducke & D.A. Lima 87* (IPA). **São Paulo**: Amparo, trevo para Serra Negra, 22°35'10.7"S, 46°47'24.1"W, c. 670 m alt., 19 Aug. 2000 (fl.), *P.L.R. de Moraes 2192* (ESA, HRCB, SPSF); Amparo, estrada de terra para Serra Negra, em trevo da SP-352; 22°35'10.7"S, 46°47'24.1"W, c. 670 m alt., 23 Jan. 2001 (fr.), *P.L.R. de Moraes 2357* (ESA, LE, MO); Anhembi, Fazenda Barreiro Rico, Viraeiro, 22°39'12.2"S, 48°11'48.7"W, c. 530 m alt., 21 Aug. 2000 (fl.), *P.L.R. de Moraes 2203* (ESA, SPSF); Araras, Loreto, 5 Oct. 1927 (fl.), *O. Vecchi 219* (SPSF); Brotas, Horto Santa Fé "I", transição cerradão/mata ciliar, 22°15'54"S, 48°02'32"W, 29 Aug. 2002 (ster.), *B.Z. Gomes 161* (UEC); Cajamen, em mata a beira da Rodovia Anhanguera km 48, 3 Apr. 1991 (fr.), *A. Amarente s.n.* (ESA-14630, UEC-64113); Cajuru, Fazenda Santa Carlota, 13 Jan. 1986 (fr.), *L.C. Bernacci 171* (SPFR, UEC); Campinas, Mata de Santa Genebra, 22°49'01.6"S, 47°06'30.4"W, c. 670 m alt., 14 Aug. 2000 (fl.), *P.L.R. de Moraes 2190* (ESA, SPSF); Campinas, Bosque dos Alemães, 22°53'24.8"S, 47°04'05.3"W, c. 680 m alt., 19 Sep. 2000 (fl.), *P.L.R. de Moraes 2256* (ESA, HRCB, SPSF); Campinas, Sub-distrito de Sousas, Mata Ribeirão Cachoeira, 22°50'13"S, 46°55'58"W, 16 Oct. 1996 (immat. fr.), *K. Santos 86* (ESA, UEC); Espírito Santo do Pinhal, 29 Oct. 1994 (immat. fr.), *G.F. Árbocz 974* (FUEL, HRCB, SPSF); Ibaté, Mata do Alemão, 21°56'55.8"S, 48°00'05.4"W, c. 838 m alt., 24 Jan. 2001 (fr.), *P.L.R. de Moraes 2347* (ESA, MO, RB); Indaiatuba, Fazenda Itatuba, 16 Aug. 1928 (young fl.), *A.E. Amaral s.n.* (SP-22991); Iperó, FLONA de Ipanema, 23°26'07.2"S, 47°37'46.2"W, c. 700 m alt., 29 Sep. 2001 (fallen fr.), *P.L.R. de Moraes 2501* (ESA); Itapira, Bairro Ponte Nova, 17 Sep. 1994 (fl.), *G.F. Árbocz 759* (HRCB, SPSF); Itupeva, 19 Apr. 1995 (fr.), *R. Simão-Bianchini et al. 691* (SPF, UEC); Jaboticabal, Apr. 1969 (fr.), *H.M. de Souza s.n.* (CTES-189014 n.v., IAC-20703); Joanópolis, estrada para Bairro Azevedo, alt. 1280 m, 22°53'45"S, 46°11'23"W, 11 Apr. 1995 (fr.), *J.Y. Tamashiro et al. 792* (ESA, HRCB, SPF, SPSF, UEC); Manduri, Horto Florestal, 23°00'34"S 49°21'25"W, 13 Jun. 1995 (immat. fr.), *J.Y. Tamashiro et al. 1177* (HRCB, SPF, UEC); Mineiros do Tietê, fazenda do Dilson Trevisan, 21 Feb. 2001 (fr.), *S. Gandolfi & C.M. Attanasio s.n.* (ESA-76143); Mogi Guaçu, Fazenda Campininha, c. 620 m alt., 10 Feb. 2000 (fr.), *P.L.R. de Moraes 2115* (ESA); Moji-Mirim, 22°27'04.4"S, 46°56'18.7"W, c. 650 m alt., 12 Aug. 2000 (fl.), *P.L.R. de Moraes 2181* (ESA); Monte Alegre do Sul, Fazenda Benati, 17 Mar. 1995 (fr.), *L.C. Bernacci et al. 1354* (HRCB, IAC, SPF, UEC); Pedra Bela, do outro lado da cidade em estrada de terra, 8 May 1995 (fr.), *J.Y. Tamashiro et al. 966* (ESA, HRCB, SPF, UEC); Piracicaba, Estação Experimental de Tupi, 22°43'43"S, 47°31'15"W, c. 550 m alt., 16 Jan. 2000 (fr.), *P.L.R. de Moraes 2100* (ESA, LE, RB, UEC); Rio Claro, Fazenda São José, 22°21'31.3"S, 47°28'55.9"W, c. 630 m alt., 20 Sep. 2000 (fl., immat. fr.), *P.L.R. de Moraes 2264* (ESA, HRCB, LE, SPSF); Santo Antônio de Posse, Fazenda Palmital, 22°34'55.2"S, 46°49'26.9"W, c. 700 m alt., 19 Aug. 2000 (fl.), *P.L.R. de Moraes 2194* (ESA, HRCB, SPSF); São João da Boa Vista, 10 Jan. 1876 (ster.), *C.W.H. Mosén 4358* (P, S); São João da Boa Vista, estrada para Andradas, Pico do Gavião, 22°00'55.4"S, 46°39'50.2"W, c. 1230 m alt., 12 Oct. 2001 (fl.), *P.L.R. de Moraes 2488* (ESA, LE, RB, UEC); São Paulo, Halvética, 8 Dec. 1941 (immat. fr.), *D.B.J. Pickel 5625* (ESA, IPA); São Pedro, Alto da Serra de São Pedro, 22°27'14"S, 47°55'28"W, c. 800 m alt., 16 Jan. 2000 (fr.), *P.L.R. de Moraes 2101* (ESA); São Roque, Estação Experimental do IAC, 24 Apr. 1995 (fr.), *L.C. Bernacci et al. 1469* (HRCB, IAC, SPF, UEC); Sumaré, Microbacia Taquara Branca, remanescente de mata ciliar às margens do córrego Taquara, 22°47'19"S, 47°17'32"W, 20 Feb. 1998 (immat. fr.), *L.A. Skorupa & M.L. Saito 1356* (CNPMA). **Locality unknown**: "Brasília tropical", s.d. (fl.), *F. Sellow s.n.* (1375 fide Nees von Esenbeck, 1836) (B†, CGE, E-109558, F-619557, HAL-101917, K – 2 sheets, KIEL, L-0246990, L-0246991, LE, US-00811475; lectotype of *Cryptocarya moschata*).

***Cryptocarya riedeliana* P.L.R. de Moraes**

Paratypes. BRAZIL. Bahia: km 4 da Rodovia Almadina/Coaraci, 9 Aug. 1977 (fr.), *L.A. Mattos & J.L. Hage 94* (CEPEC, HBG, RB). **Espírito Santo**: Santa Teresa, Rio Salinho, estrada para

Goiapaba-açu, 29 Aug. 2001 (fr.), *L.J.C. Kollmann & E. Bausen 4413* (MBML, UEC). **Rio de Janeiro:** Cachoeiras de Macacu, Estação Ecológica Estadual do Paraíso, alt. c. 200 m, 17 Jun. 1992 (immat. fr.), *J. Caruzo s.n.* (RB-304764, SPSF-16903); Campos dos Goytacazes, Parque Estadual do Desengano, picada Poço Parado (Mun. São Fidélis) até Mocotó (Mun. Campos), mata de encosta baixa, alt. 960 m to 35 m, 16 May 1989 (immat. fr.), *G. Martinelli et al. 13324* (RB – 4 sheets); Itatiaia, Parque Nacional de Itatiaia, lote 30, alt. 840 m, 28 Sep. 1940 (fr.), *W.D. de Barros 37* (HPNI – 2 sheets, RB – 2 sheets); Magé, Estação Ecológica de Paraíso, Centro de Primatologia, 14 Nov. 1992 (immat. fr.), *E.F. Paciornik et al. 3850* (GUA, HBG, RB); Nova Friburgo, Reserva Ecológica Municipal de Macaé de Cima, Sítio Sophronites, 22°33'/22°28'S, 42°30'/42°34'W, 26 Oct. 1989 (fl.), *I.A. Araujo et al. 107* (RB); Rio de Janeiro, "Tijuca", Jun. (immat. fr.), *B. Luschnath s.n.* (KIEL); idem, Floresta da Tijuca, 18 Aug. 1862 (fl., fr.), *A.F.M. Glaziou 120* (BR, P); idem, Feb. 1891 (ster.), *C.A.W. Schwacke 7326* (RB); Rio de Janeiro, Vista Chinesa, Aug. 1927 (fl.), *J.G. Kuhlmann s.n.* (BO n.v., F-1843489, MO-3514547, NY, RB-91286); Vista Chinesa, Mar. 1962 (fl.), *A.P. Duarte 7991* (ESA, F, HB, HBG, MEXU, M, RB); Rio de Janeiro, estrada Vista Chinesa, próximo CBRJ, Oct. 1985 (fr.), *J. Cominote 112* (GUA, MO); Rio de Janeiro, encosta sul do morro Boa Vista, declive acentuado, Reserva Florestal da Vista Chinesa, alt. 380 m, 28 Apr. 1994 (immat. fr.), *C.A.L. Oliveira & E.F. Paciornik 879* (GUA); Rio de Janeiro, Serra Carioca, Morro Boa Vista, vertente sul, próximo ao topo, acima da gruta *Geonoma*, alt. 500 – 600 m, 9 Nov. 1995 (immat. fr.), *C.A.L. Oliveira 1103* (GUA); Rio de Janeiro, Caminho do Pai Ricardo, na encosta do Sumaré, 28 Jul. 1927 (fl.), *Pessoal do Horto Florestal s.n.* (BO n.v., MO-3514548, NY – 2 sheets, RB-91287); Rio de Janeiro, Sacopan, Lagoa Rodrigo de Freitas, 7 Feb. 1961 (immat. fr.), *A.P. Duarte 5492* (HB – 2 sheets, RB – 4 sheets); Rio de Janeiro, Sumaré, Sylvestre, Mata das Obras Públicas, 2 Sep. 1927 (fl.), *Pessoal do Horto Florestal s.n.* (RB-19910); Rio de Janeiro, Sumaré, 17 Oct. 1928 (fl.), *M. Bandeira s.n.* (NY, RB-397); Rio de Janeiro, "in sylv. Gavia", Jul. (fl., fr.), *B. Luschnath 1835* (LE); Serra da Estrela, Magé/Petrópolis, 22°33'56.4"S, 43°11'52.9"W, c. 186 m alt., 12 Jun. 2001 (fr.), *P.L.R. de Moraes 2465*(C, E, ESA, HBG, M, MBM, O, RB, S, SP). **Locality unknown:** Rio de Janeiro, s.d. (fr.), *L. Riedel 485* (G, K, LE, NY); s.d. (fr.), *L. Riedel s.n.* (G, K, LE).

***Cryptocarya saligna* Mez**

BRAZIL. Espírito Santo: Domingos Martins, rodovia BR-252, próx. Rio Araguaia, 11 Oct. 1992 (fr.), *G.G. Hatschbach et al. 58221* (SPSF); Linhares, Reserva Florestal de Linhares, estrada Peroba Osso, km 3.305, 2 Aug. 1979 (fl.), *D.A. Folli 88* (CVRD, ESA, MO n.v., SPSF); Vale do Rio Doce, 30 a 40 km da rodovia de Linhares, a povoação ao leste, 5 Oct. 1971 (fl.), *T.S. Santos 2058* (CEPEC, HBG, RB); Santa Teresa, São Lourenço, Mata fria, terreno de Clério Loss, alt. 750 m, 28 Aug. 1998 (immat. fr.), *L.J.C. Kollmann et al. 815* (MBML, UEC); Santa Teresa, Nova Lombardia, Reserva Biológica Augusto Ruschi, trilha da divisa, sentido norte, terreno do Vanildo Bragacha, 27 Aug. 2002 (immat. fr.), *R.R. Vervloet et al. 732* (MBML, UEC). **Minas Gerais:** Caratinga, Estação Biológica de Caratinga, 24 May 1984 (fr.), *P.M. Andrade & M.A. Lopes 214* (ESA, BHCB, MO – 2 sheets, SPSF); Caratinga, Vargem Alegre, 25 Jul. 1929 (fr.), *J.G. Kuhlmann s.n.* (RB-1576, fruit collection). **Rio de Janeiro:** Angra dos Reis, Ilha Grande, trilha para o Bico do Papagaio, 24 Sep. 1996 (young fl.), *R.R. Oliveira s.n.* (GUA-44778, MO-05067189); Cachoeiras de Macacu, Estação Ecológica Estadual do Paraíso, alt. 200 m, 9 Jun. 1992 (fl.), *B.C. Kurtz et al. s.n.* (RB-304759); Governador Portela, Monte Sinai, Nov. 1935 (fl., fr.), *G.M. Nunes s.n.* (RB-28006, U-0017931); Itatiaia, Parque Nacional de Itatiaia, Monte Serrat, 1918 (fl.), *P.C. Porto 815* (HPNI, RB); Parque Nacional de Itatiaia, caminho para Itaoca, alt. ± 920 m, 22 May 1941 (immat. fr.), *W.D. de Barros 292* (HPNI); Parque Nacional de Itatiaia, entrada próxima da Ponte do Maroaba, 22°15'/22°28'S, 44°34'/44°45'W, alt. 750 – 1800 m, 14 Sep. 1994 (fl.), *R. Guedes et al. 2444* (RB); Magé, 13 Jan. 2001 (fr.), *A. Quinet 17/64* (RFA); Nova Friburgo, Serra de Friburgo, Cascatinha, Oct. 1964 (immat. fr.), *A.P. Duarte & E. Pereira 8451* (HB, M, RB – 2 sheets); Nova Friburgo, "Alto Macahé de Nova Friburgo", 18 Jan. 1892 (fl.), *A.F.M. Glaziou 19801* (B[†], C – 2 sheets,

F-620002, G – 2 sheets, IAN-93772, K, LE, MO-1580357, MO-1671013, NY-00355042, NY-00355043, NY-00355044, OUPR-8924, P-00221217, R-30933, RB-48685 – 2 sheets, U – left-hand specimen, U-0017930, US-00099507, US-00099508; type of *Cryptocarya longistyla*; Petrópolis, Quitandinha, 1948 (fr.), O.C. Góes & O. Alves 122 (NY, RB – 3 sheets); Petrópolis/Magé, Serra da Estrela, 22°33'56,4"S, 43°11'52,9"W, c. 186 m alt., 12 Jun. 2001 (fr.), P.L.R. de Moraes 2464 (ESA); Resende, 1927 (fr.), R. Mota s.n. (RB-1524, fruit collection); Rio de Janeiro, 1867 (ster.), A.F.M. Glaziou 819 (BR-868667, C); Rio de Janeiro, encosta do Corcovado, 7 Oct. 1927 (fr.), *Pessoal do Horto Florestal s.n.* (BO – photo in UEC, RB-91288 n.v.); Rio de Janeiro, Matas do Sumaré e Sylvestre, 2 Dec. 1926 (fr.), *Pessoal do Horto Florestal s.n.* (BO n.v., CEPEC-38382, INPA-140018, MBM-105865, MO-3512931, NY, RB-91282); Rio de Janeiro, Sylvestre, 30 Sep. 1927 (fr.), J.G. Kuhlmann s.n. (RB-1537, fruit collection; RB-269153); Rio de Janeiro, Estrada da Tijuca, Bom Retiro, 2 Dec. 1928 (fl.), M. Bandeira s.n. (CTES-189012 n.v., NY, RB-8573 – 2 sheets, U-0017929, U – photo in UEC); Rio de Janeiro, Floresta da Tijuca, Nov. 1899 (fl.), E. Ule 4859 (HBG); Rio de Janeiro, Mata do Pae Ricardo, próximo ao Horto Florestal, 14 Jan. 1929 (fr.), J.G. Kuhlmann s.n. (RB-1523, fruit collection); Rio de Janeiro, Tijuca, Estrada do Redentor, perto do Alto da Boa Vista, 31 Oct. 1939 (fl., fr. ex sched.), J.G. Kuhlmann & A.P. Duarte s.n. (CTES-189010 n.v., F-1843490, K, MG-66779, MO-3513504, NY, RB-41492); Rio de Janeiro, próximo à Vista Chinesa, Grota do Surucucu, 5 Nov. 1958 (fl.), E. Pereira et al. 4455 (HB, HBR, MO, RB – 2 sheets, RFA); Alto da Boa Vista, 2 Aug. 1959 (fr.), A.P. Duarte s.n. (RB-865, fruit collection); Rio de Janeiro, Alto da Boa Vista, Morro Queimado, vertente sul II, 22°58'S, 43°16'W, 22 Jun. 1989 (immat. fr.), R. Ribeiro et al. 1671 (GUA); Rio de Janeiro, Serra da Carioca, 27 Sep. 1945 (immat. fr.), P. Occhioni 393 (RFA); Rio de Janeiro, Jacarepaguá, Serra do Nogueira, Bacia do Rio Camorim, estrada para o Açude Camorim, 2 Oct. 1995 (fr.), C.A.L. Oliveira et al. 1080 (GUA); Serra dos Órgãos, Rojo, s.d. (fr.), J. Miers 4274 (K – syntype of *Cryptocarya saligna*; Plate XIII, A.); Serra dos Órgãos, Vargem, 11 Feb. 1838 (immat. fr.), J. Miers s.n. (BM, photo in UEC! + BM-648729 – fruit collection – syntype of *Cryptocarya saligna*); Teresópolis, Dedo de Deus, alt. 800 m, 5 Oct. 1974 (fl.), P. Occhioni 6305 (RFA); Teresópolis, Parque Nacional da Serra dos Órgãos, matas do Rio Paquequer, próx. Km 2,0 da estrada para Barragem, c. 1125 m alt., 7 Dec. 2004 (fl.), C.S. Pardo 1419 (RB – 2 sheets); Locality unknown: "loco non indicato", "Alto Macahé de Nova Friburgo" (fide Glaziou, 1910), s.d. (19 Dec. 1881, see discussion) (fl.), A.F.M. Glaziou 14205 (B⁺ – F Neg. No. 3847, BR-868700, C, F-647868, G, K, IAN-93770, LE, MO-1580358, NY-00355049, P-00221787, S, U – right-hand specimen, US-2546803, US-00099523; lectotype of *Cryptocarya saligna*). **São Paulo:** Bertioga, Usina Itatins, caminho para a câmara d'água, alt. 50 m, 20 May 1981 (immat. fr.), J.R. Guilhaumon s.n. (SPSF-7809); Boracéia, entre Mogi das Cruzes e Biritiba-Mirim, 23°35'S, 46°W, alt. 860 m, 4 Feb. 1987 (fr.), A. Custódio Filho & A.H. Gentry 4644 (HRCB, SPSF); Campinas, Complexo Botânico Monjolinho (IAC), cultivated, 26 Sep. 1989 (fr.), R.B. Torres s.n. (IAC-32203); Cananéia, Fazenda Folha Larga, Trilha Kaá-pozanga e Trilha Paranã, 24°53'S, 47°55'W, alt. 30 – 155 m, 20 Nov. 2003 (fl.), C. Urbanetz et al. 217 (UEC); Iguape, Estação Ecológica de Juréia-Itatins, Núcleo Rio Verde, trilha da planície em direção à Cachoeira do Salto, 8 Dec. 1994 (fr.), S.A. Nicolau et al. 871 (SP, SPSF); Iguape, Estação Ecológica de Juréia-Itatins, Núcleo Rio Verde, planície, trilha em direção à Cachoeira do Salto, 23 Nov. 1995 (fl.), S.A. Nicolau et al. 958 (ESA, SP, SPSF); Iguape, Estação Ecológica Juréia-Itatins, Núcleo Rio Verde, 24°32'52.6"S, 47°14'28.3"W, c. 40 m alt., 8 May 2001 (immat. fr.), P.L.R. de Moraes 2428 (ESA); Juquiá, 21 Oct. 1971 (fl., fr.), H.F. Leitão Filho 1291 (IAC, UEC); Pariquera-Açu, Estação Experimental "José Cione" (IAC), 24°36'47"S, 47°52'53.9"W, c. 50 m alt., 10 Oct. 2000 (young fl.), P.L.R. de Moraes 2302 (ESA, LE, RB, UEC); Pariquera-Açu, Sítio Sr. Antonio Povinske, 24°40'31.3"S, 47°51'57.1"W, c. 50 m alt., 10 Oct. 2000 (fr.), P.L.R. de Moraes 2303 (ESA, LE, RB, UEC); Peruibe, Estação Ecológica de Juréia-Itatins, Núcleo Arpoador, Trilha do Fundão, 24°23'13.3"S, 47°01'03.1"W, c. 30 m alt., 31 May 2001 (immat. fr.), P.L.R. de Moraes 2446 (ESA, LE); Peruibe, Estação Ecológica de Juréia-Itatins, Núcleo Perequê-Açu, 24°22'43.4"S, 47°04'42.9"W, c. 100 m alt., 7 May 2001 (immat. fr.), P.L.R. de Moraes 2423 (ESA, LE, P); Salesópolis, Boracéia, 29 Nov. 1951 (immat. fr.), M. Kuhlmann 2775 (SP); Santo André, Reserva Biológica do Alto da Serra

de Paranapiacaba, 5 Nov. 1991 (fl.), *M. Kirizawa* 2536 (SP); São Paulo, Instituto Florestal, 8 Feb. 1952 (fr.), *M.A. Cunha s.n.* (RB-95592, SPSF-4385); São Paulo, Serra da Cantareira, Pinheirinho, 17 Nov. 1980 (fl.), *J.B. Baitello & O.T. de Aguiar s.n.* (HRCB-23701, SPSF-5975); São Paulo, Parque Estadual da Cantareira, Núcleo Pedra Grande, 23°26'21.1"S, 46°38'13.8"W, c. 1000 m alt., 5 Sep. 2000 (young fl., immat. fr.), *P.L.R. de Moraes* 2236 (ESA, LE); São Sebastião, 35 km SW, praia de Boissucanga, 11 Oct. 1981 (fl., fr.), *J. Gatti* 37 (MO, SP, SPSF); Ubatuba, Estação Experimental de Ubatuba, 7 Aug. 1979 (young fl.), *A.F. Silva et al.* 187 (ESA, UEC, VIC); Ubatuba, Estação Experimental de Ubatuba, 16 Oct. 1979 (fr.), *J.Y. Tamashiro & A.F. Silva* 209 (IBGE, UEC); Ubatuba, Parque Estadual da Serra do Mar, Núcleo Picinguaba, margens do Rio da Fazenda, 10 Oct. 1992 (fr.), *M. Sanchez & F. Pedroni* 17 (HRCB, SPSF); Ubatuba, Parque Estadual da Serra do Mar, Núcleo Picinguaba, 23°20'00.2"S, 44°49'57.6"W, c. 80 m alt., 6 Aug. 2001 (young fl.), *P.L.R. de Moraes* 2472 (ESA, LE); idem, 23°20'03.8"S, 44°49'58.6"W, c. 70 m alt., 6 Aug. 2001 (immat. fr.), *P.L.R. de Moraes* 2474 (ESA); 23°19'49.1"S, 44°49'50.1"W, c. 120 m alt., 7 Aug. 2001 (young fl.), *P.L.R. de Moraes* 2476 (ESA, LE, MO). **Locality unknown:** São Paulo?, (cited by Kostermans as a fruit bearing specimen at B[†]), s.d. (ster.), *F.C. Hoehne s.n.* (SP-23796, SPF-82956); Pílões?, 14 Aug. 1899 (ster.), *Anonymous s.n.* (SP-23799); locality not indicated, s.d. (fr.), *G.M. Nunes* 323 (RB-2548, fruit collection).

***Cryptocarya sellowiana* P.L.R. de Moraes**

Paratypes. BRAZIL. Minas Gerais: Rio Piracicaba, estrada da Barragem, 2 Jun. 2004 (fr.), *A.A. Luz* 196 (CVRD); São Gonçalo do Rio Abaixo, EPDA PETI/CEMIG, 4 Aug. 1987 (fr.), *G. Pedralli et al. s.n.* (HXBH-6983).

***Cryptocarya subcorymbosa* Mez**

BRAZIL. Rio de Janeiro: Nova Friburgo, "Alto Macahé de Nova Friburgo", 18 Aug. 1890 (in sched.) (young fl.), *A.F.M. Glaziou* 18436 (B[†] – F Neg. No. 3848, BR-880631, C, F-647869, G, K, LE, OUPR-8935, P-00221221, P-00221222, P-00221223, U; type of *Cryptocarya subcorymbosa*); idem, "Alto Macahé de Nova Friburgo", 1890/91 (in sched.) (fl.), *A.F.M. Glaziou* 18437 (B[†] – F Neg. No. 3846, BR-837724, G, K, LE, P-00221224, P-00221225, P-00221226; type of *Cryptocarya minutiflora*); Parque Nacional do Itatiaia, lote do Almirante, alt. ± 950 m, 14 Nov. 1940 (immat. fr.), *W.D. de Barros* 105 (HPNI, RB). **São Paulo:** Bananal, Estação Ecológica de Bananal, c. 1100 m alt., s.d. (immat. fr.), *A.G. de Castro s.n.* (UEC-142579); Cunha, Parque Estadual da Serra do Mar, Núcleo Cunha-Indaiá, trilha do Rio Bonito, c. 970 m alt., 10 Feb. 2002 (fr.), *P.L.R. de Moraes* 2534 (ESA). **Locality unknown:** without locality, s.d. (fl.), *Anonymous s.n.* (R-61194).

***Cryptocarya velloziana* P.L.R. de Moraes**

Paratypes. BRAZIL. Espírito Santo: Santa Teresa, Estação Biológica de Santa Lúcia, Trilha Bonita, 12 May 1999 (immat. fr.), *W.P. Lopes et al.* 676 (ESA, MBML, UEC; Plate XV, B.); Santa Teresa, Estação Biológica de Santa Lúcia, Trilha do Palmitreiro, 30 Sep. 1999 (immat. fr.), *V. Demuner et al.* 55 (MBML, RB, UEC).

***Cryptocarya wiedensis* P.L.R. de Moraes**

Paratypes. BRAZIL. Espírito Santo: Santa Maria de Jetibá, Rio Nove, 24 Feb. 2000 (fl. bud), *V. Demuner et al.* 781, (MBML); Santa Teresa, Dois Pinheiros, Mata de D. Bonfim, alt. 750 m, 16 Jul. 1998 (immat. fr.), *L.J.C. Kollmann et al.* 266 (MBML, SPSF); idem, 16 Jul. 1998 (immat. fr.), *L.J.C. Kollmann et al.* 269 (MBML, SPSF) (Plate XVI, B.).

13.3.2. Listed alphabetically by collector's surname

In this section collector information is listed. Surnames of collectors are listed alphabetically and completed with collection number(s) and herbarium of deposit. Species names are here not explicitly mentioned, but are indicated by a number between parentheses; this number corresponds to the number in the numerical list of here above described taxa.

Aguiar, L. *et al.* s.n. (HAS 5996) (1). Aguiar, O.T. de 222 (5); 387 (5); 402 (11); s.n. (SPSF 8072, HRCB 23688) (5). Alvarenga, D. & E.C. Lopes 628 (7). Alves, J. *et al.* 143 (7). Amaral, A.E. s.n. (SP 22991) (7). Amarente, A. s.n. (ESA 14630, UEC 64113) (7). Anderson, M. s.n. (G) (1). Anderson, W.R. *et al.* 35259 (7). Andrade, E.N. de 55 (5). Andrade, P.M. & M.A. Lopes 214 (9). Anonymous s.n. (R 31086) (7). Anonymous s.n. (R 61194) (11). Anonymous s.n. (RB 1538, fruit collection) (9). Anonymous s.n. (RB 60616) (4). Anonymous s.n. (SP 23799) (9). Araújo, F.P.L. 24 (6); s.n. (R 30945) (6); s.n. in Herb. Schwacke 6680 (6). Araujo, G.M. 601 (7); 687 (7); 856 (7). Araujo, I.A. *et al.* 107 (8). Árbocz, G.F. 596 (5); 757 (7); 759 (7); 974 (7). Assis, M.A. *et al.* 743 (5). Assumpção, C.T. de 7510 (7); 7512 (7); 7512-extra (7). Azevedo, M.L.M. & E.C. Lopes 507 (7).

Badini, J. s.n. (OUPR 8925) (5); s.n. (OUPR 8928) (5); s.n. (OUPR 8929) (5); s.n. (OUPR 8930) (5). Baitello, J.B. 231 (5); 246 (5); 250 (5); 324 (5); 374 (5); 378 (5); s.n. (SPSF 6183) (11); s.n. (HRCB 23689, SPSF 8073) (5); s.n. (SPSF 6109) (5). Baitello, J.B. & O.T. de Aguiar s.n. (HRCB 23687, SPSF 8074) (5); s.n. (HRCB 23688, SPSF 8072) (5); s.n. (HRCB 23692, SPSF 8070) (5); s.n. (HRCB 23694, SPSF 8068) (5); s.n. (HRCB 23700, SPSF 6181) (5); s.n. (HRCB 23702, SPSF 8069) (5); s.n. (SPSF 5975, HRCB 23701) (9); s.n. (SPSF 7532) (5); s.n. (SPSF 8071) (5); s.n. (SPSF 8075) (5); s.n. (SPSF 8078, HRCB 23794) (9); s.n. (SPSF 8080) (9). Bandeira, M. s.n. (NY, RB 397) (8); s.n. (CTES 189012, NY, RB 8573, U 0017929, U) (9). Barbosa, E. & L.M. Abe 397 (1). Barreto, K.D. *et al.* 647 (7). Barretto? s.n. (RB 106920) (6). Barros, F. de 1054 (aff. 1); 1151 (5). Barros, F. de & P. Martuscelli 1643 (5). Barros, W.D. de 37 (8); 105 (11); 226 (9); 237 (9); 292 (9); 959 (8). Baumgratz, J.F. *et al.* s.n. (RB 292401) (6). Bausen, E. & M.F. dos Santos 28 (12). Béna, P. 45-N (4). Bernacci, L.C. 171 (7); 305 (7). Bernacci, L.C. *et al.* 376 (aff. 1); 1354 (7); 1469 (7). Bernardi, A.L. 7446 (aff. 4). Blanchet, J.S. s.n. (G) (3). Bondar, G. P66 (F 1187458) (4); s.n. (F 1187404) (4). Borgo, M. & C. Giongo 210 (5). Braga, B. 21 (5); s.n. (SPSF 20090) (5); s.n. (SPSF 6218) (9). Braga, J.M.A. *et al.* s.n. (ESA 76603, RB 358585) (cf. 12); s.n. (ESA 76608, RB 358587) (9); s.n. (ESA 76607, RB 358589) (8). Brown, K.S., Jr. s.n. (UEC 50341) (1). Buck, P. s.n. (PACA 37179) (1). Butzke, A. s.n. (HUCS 11583) (1).

Cacerelli, F. s.n. (RB 184189) (6). Camargo, O.R. 1153 (1). Campos, E.P. s.n. (ESA 76794, VIC 26057) (5). Campos, J.M. & P.F. Leite 15 (1); 27 (1). Carauta, J.P.P. *et al.* 6209 (6). Caruzo, J. s.n. (RB 304764, SPSF 16903) (8). Carvalho, D.A. *et al.* s.n. (ESAL 13555) (7). Castro, A.G. de s.n. (UEC 142579) (11). Castro, R.M. *et al.* 640 (6). Cavalheiro, A.J. s.n. (73091) (7); s.n. (ESA 73092) (7); s.n. (ESA 73093) (7); s.n. (ESA 73094) (7); s.n. (ESA 73095) (7); s.n. (ESA 73096) (7); s.n. (ESA 73097) (7). Cavalheiro, A.J. *et al.* s.n. (FUEL 23920, SJRP 21658) (7). Cesar, O. s.n. (ESA 67414, HRCB 3225) (7); s.n. (ESA 67415, HRCB 3279) (7); s.n. (ESA 67416, HRCB 3028) (7); s.n. (HRCB 2414) (7); s.n. (HRCB 3226) (5). Cielo Filho, R. & F.S. Chiste 25 (7); 48 (7). Cielo Filho, R. & H.M. Watanabe 286 (7). Clarke, D. 4834 (4); 8889 (4). Colli, S. *et al.* s.n. (FUEL 12070) (1). Cominote, J. 112 (8). Cordeiro, I. *et al.* 786 (9); 1598 (6); 1607 (5); 1608 (9); 1611 (5). Correia, C.M.B. *et al.* s.n. (RB 292394) (5). Costa, B. s.n. (HRCB 23696, SPSF 6222) (5); s.n. (SPSF 8136) (5); s.n. (SPSF 8143) (5). Costa, L.V. *et al.* s.n. (BHCB 22380) (9). Cunha, M.A. s.n. (HRCB 23697, SPSF 6223) (5); s.n. (RB 102636) (5). s.n. (RB 95592, SPSF 4385) (9). Custódio Filho, A. & A.H. Gentry 4644 (9).

Damazio, L. s.n. (OUPR 8931) (5); s.n. (OUPR 8932) (5); s.n. (RB 48687-2 sheets) (5). Demuner, V. *et al.* 55 (12); 781 (13). Dias, A.C. s.n. (ESA 27982, HRCB 23705, MBM 166573,

SPSF 16471) (5). Dias, M.C. *et al.* s.n. (FUEL 12965) (1). Dionisio & Octávio 35 (5); s.n. (RB 3330, fruit collection) (5). Duarte, A.P. 4919 (8); 4990 (8); 5300 (8); 5492 (8); 5592 (7); 6410 (7); 7991 (8); s.n. (RB 865, fruit collection) (9). Duarte, A.P. & E. Pereira 8451 (9). DUCKE, A. & D.A. Lima 87 (7). Dusén, P.K.H. 13862 (1); s.n. (NY 814738) (1); s.n. (NY 197667) (5); s.n. (NY 197668) (5). Dutra, J. 282 (1).

Equipe de Fitossociologia do CNEC s.n. (ESA 65523) (7). Esteves, R. 16 (5). Evangelista, P.L. *et al.* 348 (6).

Faria, J. & M. Rocha s.n. (ESAL 12478) (7). Farias, D.S. *et al.* 80 (8). Farney, C.F. *et al.* 3079 (5). Fernandes, H.Q.B. 2418 (1); 2602 (1). Ferreira, J.A. *et al.* s.n. (FUEL 25381) (1). Ferreira, W.M. & G. Thedei 61 (7). Filho, A.A. s.n. (SMDDB 5653) (1). Filho, E.A. & T.J. Caruso 125 (5). Folli, D.A. 88 (9); 320 (3); 1368 (1); 4942 (9). França, G.S. & J.R. Stehmann 152 (7). Friderichs s.n. (PACA 32894) (1). Fróes, R.L. 33361 (5); 33968 (7). Furlan, D.A.S. s.n. (ESAL 15519) (7).

Galetti, M. *et al.* 114 (5); 1122 (1). Gamero, J.C. & M. Toursarkissian 154 (1). Gandolfi, S. & C.M. Attanasio s.n. (ESA 76143) (7). Gandolfi, S. & F.C. Antonioli s.n. (ESA 33508) (7). Gatti, J. 37 (9). Gibbs, P.E. & H.F. Leitão Filho s.n. (MBM 49228, 59469, MG 60908, UB 2/88/00, UEC 6098) (7). Glaziou, A.F.M. 120 (8); 819 (9); 1516 (8); 14205 (9); 18436 (11); 18437 (11); 19801 (9); 20443 (5). Góes, O.C. & O. Alves 122 (9). Gomes, C.T.M. 2129 (5). Gomes, B.Z. 161 (7). Gomes, J. 253 (5); 258 (5). Gomes, V. 2811 (3). Gonzaga, L. s.n. (SPSF 6367) (5). Goulding, M. 1117 (4). Granville, J.J. de *et al.* 12011 (4); T-1138 (4). Grenand, P. 1451 (4). Grenand, P. & M.F. Prévost 2016 (4). Guapiassu, M. *et al.* 196 (5). Guedes, R. *et al.* 2215 (6); 2235 (5); 2444 (9); s.n. (RB 292194) (8). Guerra, F. & Octávio s.n. (RB 48095) (6). Guilaumon, J.R. s.n. (SPSF 7782) (9); s.n. (SPSF 7783) (9); s.n. (SPSF 7809) (9); s.n. (SPSF 7810) (9); s.n. (SPSF 7831) (9). Gurgel, L. 14660 (1); 14665 (1); 16111 (1); sn. (MO 3514572, NY, RB 46382) (1). Gusman, A.B. & M.H. Pires 2174 (7).

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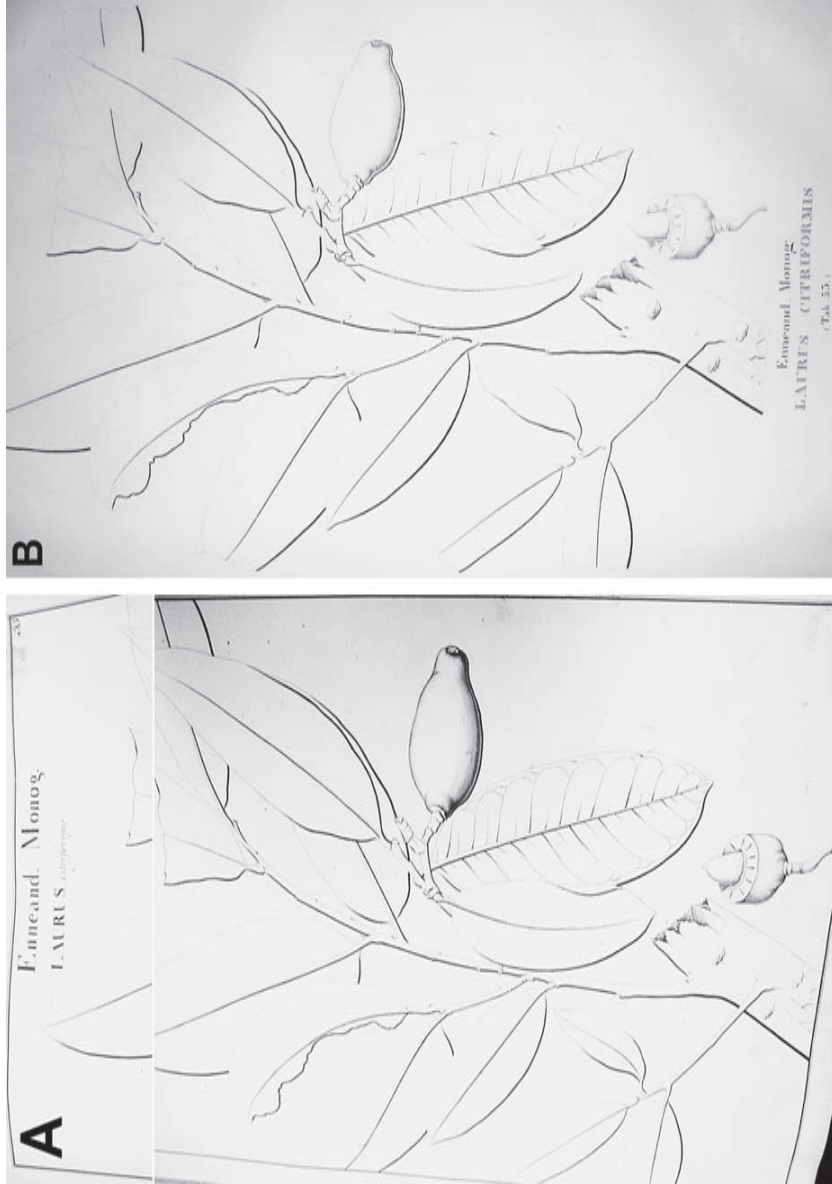


Plate III. A. Lectotype of *Laurus citrifolia* Vellozo: original plate on parchment of "Flora Fluminensis", in Manuscript Section of the Biblioteca Nacional. Cat. 11691; *Icones*. Cat. 1-17, 1, 9, Rio de Janeiro. © Biblioteca Nacional do Rio de Janeiro. B. Plate published in "Vellozo, J. M. da C. 1831 (1827). *Florae Fluminensis Icones*. Parisiis: ex off. Lithogr. Senefelder, curanti J. Knecht". (Photographs by P.L.R. de Moraes)



Plate IV. A. Holotype of *Ayedron floribundum* Meisner. L. Riedel s.n. (LE), © V.L. Komarov Botanical Institute – St. Petersburg.
B. Lectotype of *Cryptocarya hypoleuca* Mez. T. Peckolt 166 (U), © Missouri Botanical Garden.



A



B

Plate V. A. Lectotype of *Cryptocarya guianensis* Meisner. M.E. Moricand 113 (G-DC), © Conservatoire et Jardin Botaniques de la Ville de Genève. B. Holotype of *Cryptocarya maroniensis* Benoist. G. Wachenheim 68 (P-00221227; F Neg. No. 35309), © Muséum National d'Histoire Naturelle (Herbier National de Paris)



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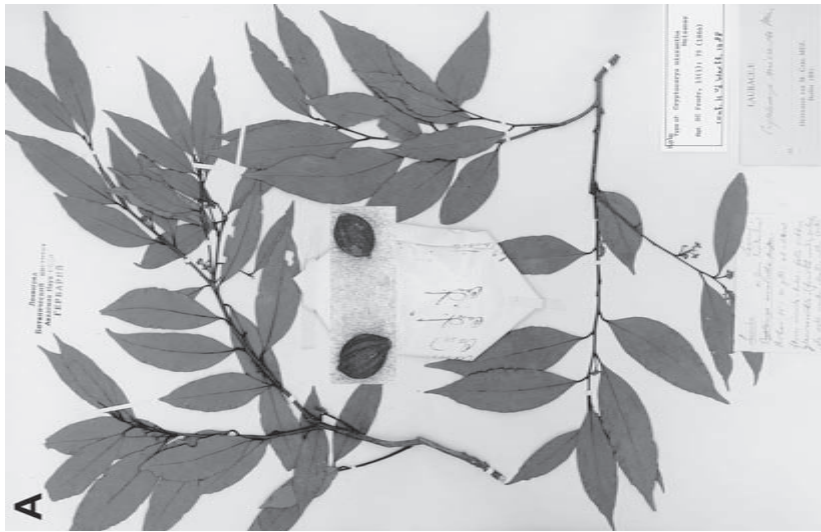


Plate VII. A. Holotype of *Cryptocarya micrantha* Meisner. L. Riedel s.n. (LE), © V.L. Komarov Botanical Institute – St. Petersburg.
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Plate IX. A. Lectotype of *Cryptocarya moschata* Nees & Martius. *F. Sellow s.n.* (LE), © V.L. Komarov Botanical Institute – St. Petersburg.
 B. Lectotype of *Cryptocarya moschata* forma *angustifolia* Mez. *J.F. Widgren 394* (BR),
 © Jardin Botanique National de Belgique.

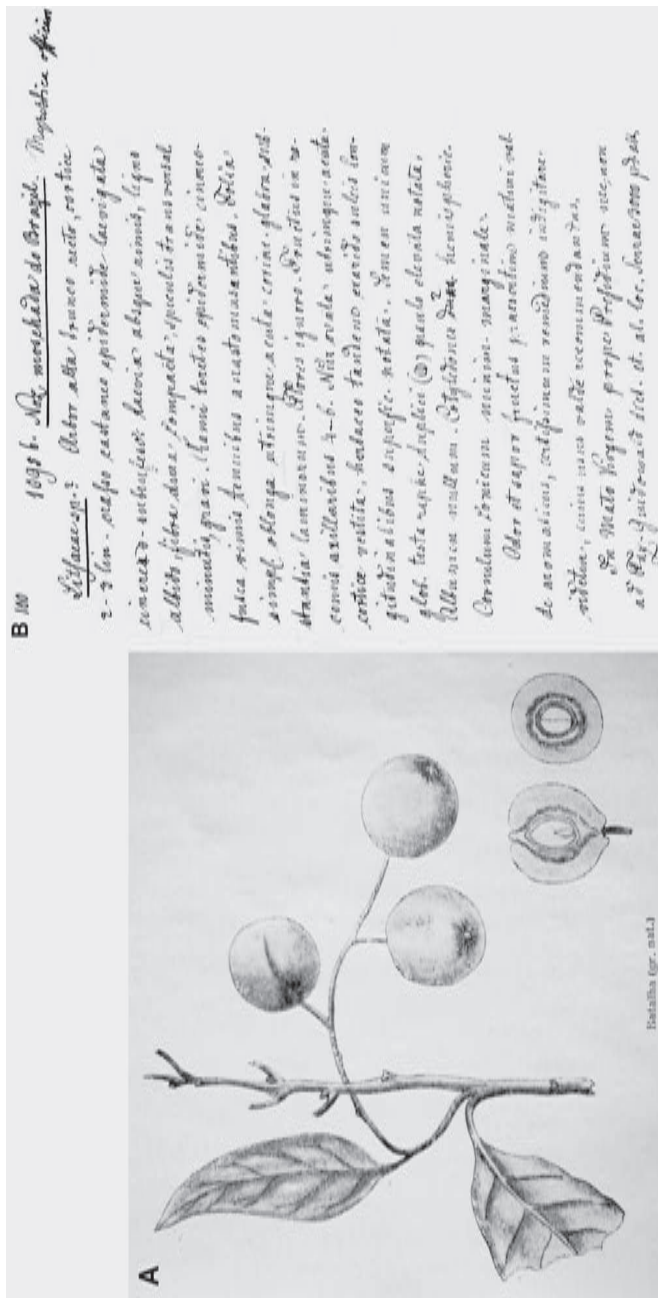


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B. Photocopy of Martius' observation about *noz moschada do Brazil*, obs. 1095b from *Plantae in itinere brasiliensi annis 1817-1820 a Car. Frid. Phil. Martius descriptae*, vol. II (No. 761-1870), © Botanische Staatssammlung München (M).



Plate XI. A. Syntype of *Cryptocarya moschata* Nees & Martius. C.F.P. von Martius s.n. (M), © Botanische Staatssammlung München (M).
 B. Holotype of *Cryptocarya riedeliana* P.L.R. de Moraes. A.F.M. Glaziou 1516 (BR), © Jardin Botanique National de Belgique.



Plate XII. A. Lectotype of *Cryptocarya saligna* Mez. A.F.M. Glaziou 14205 (C), © University of Copenhagen, Museum Botanicum Hauniense.
 B. Lectotype of *Cryptocarya longistyla* Mez. A.F.M. Glaziou 19801 (C; F Neg. No. 22066), © University of Copenhagen, Museum Botanicum Hauniense.



Plate XIII. A. Syntype of *Cryptocarya saligna* Mez. J. Miers 4274 (K), © Royal Botanic Gardens – Kew.
 B. Holotype of *Cryptocarya sellowiana* P.L.R. de Moraes. A. T. Oliveira Filho et al. s.n. (ESAL-13252).
 (Photograph by P.L.R. de Moraes).



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 B. Lectotype of *Cryptocarya subcorymbosa* Mez. A.F.M. Glaziou 18436 (C),
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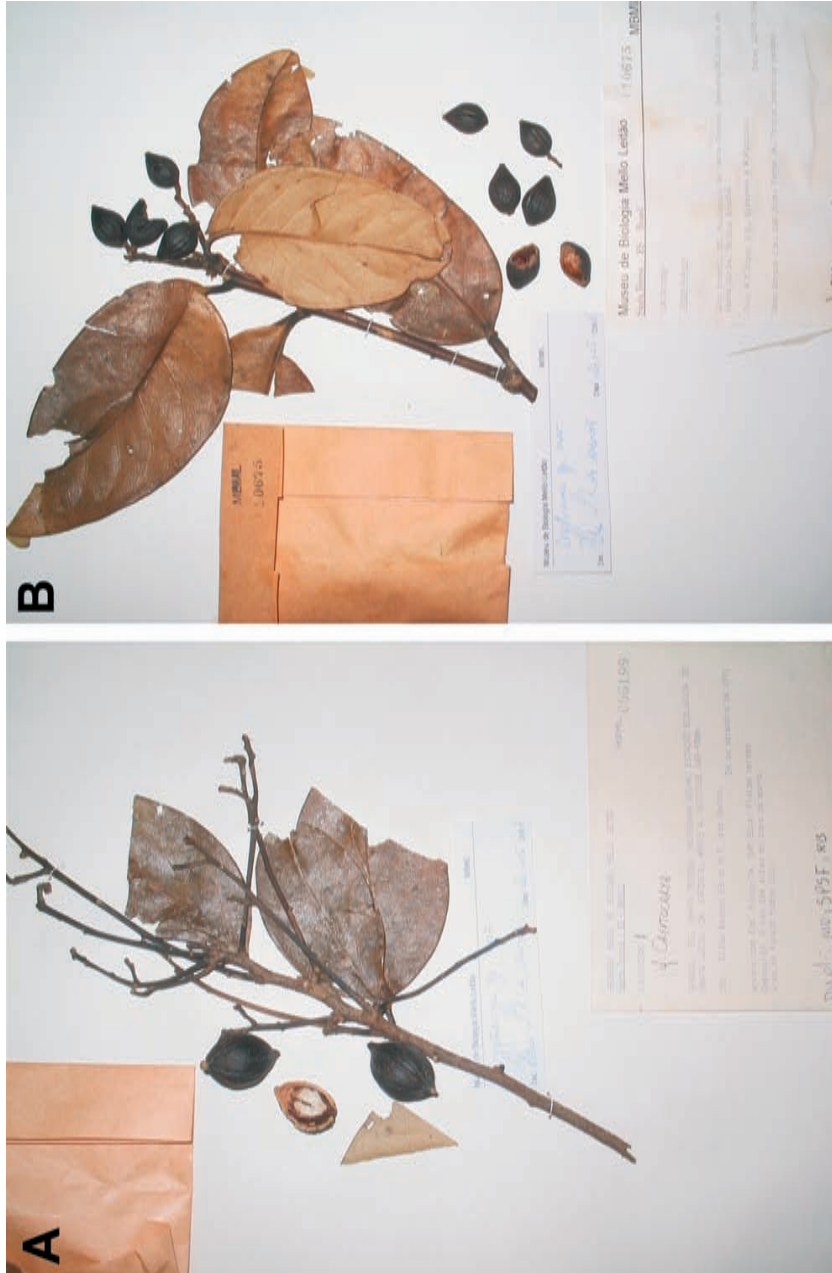


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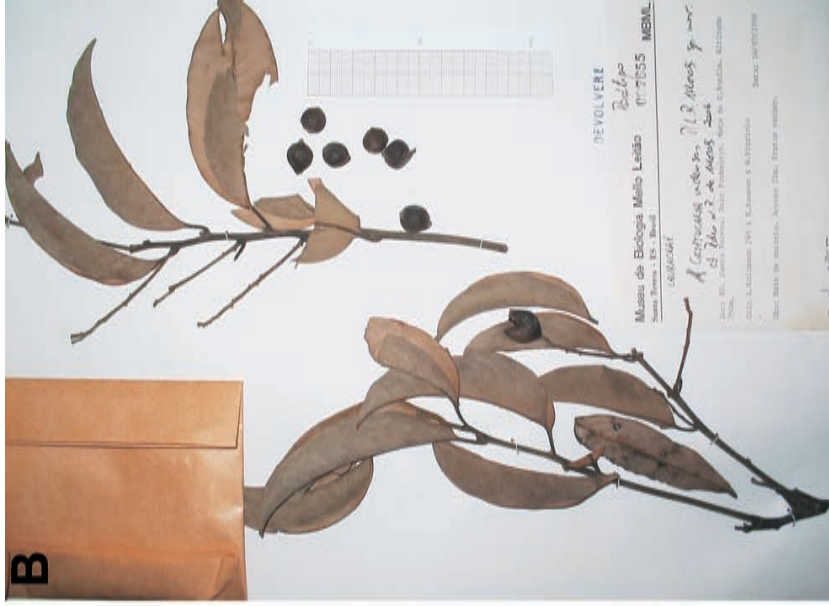
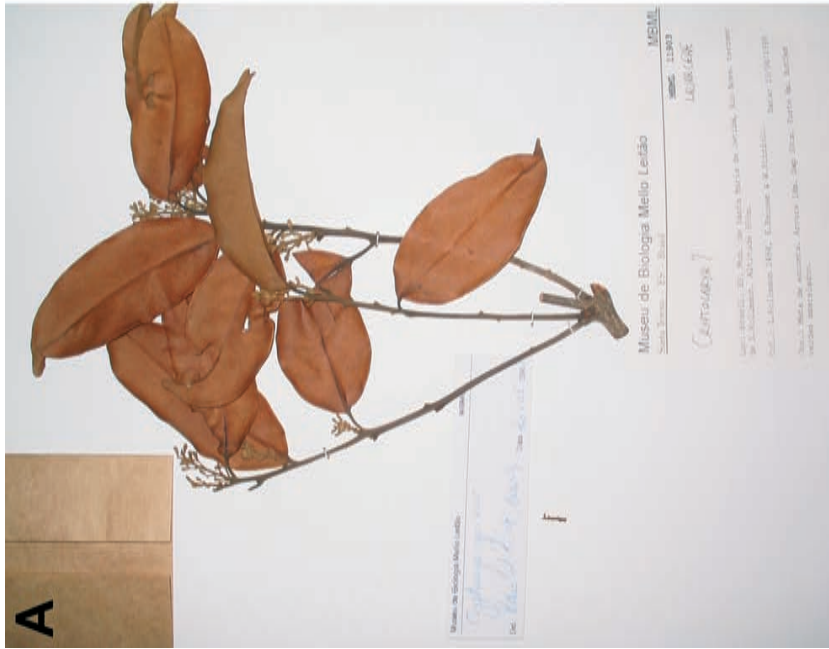


Plate XVI. *Cryptocarya wiedensis* P.L.R. de Moraes. A. Holotype: L. Kollmann et al. 2464 (MBML).
 B. Paratype: L. Kollmann et al. 269 (MBML). (Photographs by P.L.R. de Moraes).



Plate XVII. *Laurus mucronata* Poir. A. Holotype: Herb. Webbianum ex Herb. Desfontaines (FI-W).
 B. Isotype: Herb. Webbianum ex Herb. Phil. Mercier (FI-W). © Museo di Storia Naturale dell'Università
 degli Studi di Firenze – Herbarium Universitatis Florentinae.

Taxonomy of *Cryptocarya* species of Brazil

This revision of Brazilian species of *Cryptocarya*, a large, pantropical genus of Lauraceae, comes highly recommended.

Lauraceae is an extensive family of trees that has remained poorly studied because large trees with small flowers are often ignored by field workers. In a time when so much botanical research is focused on relationships between taxa, it is refreshing to see such a detailed work on species delimitation in a previously inaccessible group. Everything one could want to know about neotropical *Cryptocarya* species is included: keys, descriptions, illustrations, use, etc. In short, this is a monograph in the classical sense.

The author has studied the species extensively in the field and this field knowledge adds much to the value of this taxonomic review and sets it apart from most revisions that often are largely based on studies of dried specimens. Here, detailed discussions of field characters and photographs of fresh specimens are aptly integrated.

In conclusion, this is an excellent contribution to our knowledge of Lauraceae and the author is to be congratulated. One could only wish for more publications on the same high level!

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