

THE LAURACEOUS COLLECTIONS OF CARL FRIEDRICH PHILIPP VON MARTIUS IN THE *FLORA BRASILIENSIS*

PEDRO LUÍS RODRIGUES DE MORAES¹ AND ANDERSON FALCADE¹

Abstract. This study refers to specimens of Lauraceae collected in Brazil by Carl Friedrich Philipp von Martius between 1817 and 1820. He collected 57 currently accepted species of Lauraceae, which belong to nine genera: *Aniba*, *Cassytha*, *Cinnamomum*, *Cryptocarya*, *Dicypellium*, *Licaria*, *Nectandra*, *Ocotea*, and *Persea*, for which Martius is known to have made about 99 different collections. The vast majority of them are nomenclatural types and, taking into account the synonyms involved, encompassing 26 holotypes, 23 lectotypes, and 30 syntypes. Besides Martius himself, early descriptions and citations of these materials were made by Nees von Esenbeck, Meissner, and Mez, the first monographers of the family. Martius's collections were the basis for the *Flora Brasiliensis*, where the taxonomic treatment of Lauraceae was made by the Swiss botanist Carl Daniel Friedrich Meissner in 1866, being of particular interest for indicating all the collections examined and available at that time. Here, we provide an annotated and updated list of 60 entries with information on the status of the names and their types, currently accepted names, collections found in different herbaria, accompanied by an Index to Scientific names and an Index to Collections. Although there are no cases of specimens of Lauraceae collected by Martius from his "*Martii Herbarium Florae Brasiliensis*," they are also listed here since they have been attributed to him in literature. Lectotypes for two names, *Cryptocarya speciosa*, and *Nectandra nitidula* var. *maior*, are designated, and a new synonymy is proposed.

Resumo. O presente estudo refere-se aos espécimes de Lauraceae que Carl Friedrich Philipp von Martius coletou no Brasil entre 1817 e 1820. Ele coletou 57 espécies atualmente aceitas de Lauraceae, pertencentes a nove gêneros: *Aniba*, *Cassytha*, *Cinnamomum*, *Cryptocarya*, *Dicypellium*, *Licaria*, *Nectandra*, *Ocotea*, e *Persea*, para os quais Martius é sabido de ter feito cerca de 99 coletas diferentes. A grande maioria das mesmas são tipos nomenclaturais e, levando-se em consideração os sinônimos envolvidos, englobando 26 holótipos, 23 lectótipos e 30 sítipos. Além do próprio Martius, as primeiras descrições e citações desses materiais foram feitas por Nees von Esenbeck, Meissner, e Mez, que foram os primeiros monografistas da família. As coleções de Martius serviram de base para a *Flora Brasiliensis*, onde o tratamento taxonômico das Lauraceae ficou a cargo do botânico Suíço Carl Daniel Friedrich Meissner em 1866, sendo de particular interesse por indicar todas as coleções examinadas e disponíveis à época. Aqui, apresentamos uma lista anotada e atualizada de 60 entradas com informações sobre o estado dos nomes e de seus tipos, nomes atualmente aceitos, coleções dos diferentes herbários, acompanhadas de um Índice de Nomes Científicos e de um Índice de Coleções. Embora não existam casos de espécimes de Lauraceae oriundos do "*Martii Herbarium Florae Brasiliensis*," que tenham sido coletados por Martius, esses também são aqui listados por terem sido atribuídos a ele na literatura. Lectótipos de dois nomes, *Cryptocarya speciosa*, e *Nectandra nitidula* var. *maior*, são designados, assim como uma sinonímia nova é proposta.

Keywords: Brazil, *Herbarium Florae Brasiliensis*, historical collections, nomenclature, taxonomy

Carl Friedrich Philipp von Martius was born on the 17th of April 1794 in Erlangen, Germany, and died in Munich on the 13th of December 1868. He is one of the most famous naturalists of the 19th century, having his name in close association with Brazil and its flora. In 1817, King Maximilian Joseph I of Bavaria, took the occasion of the marriage of the Archduchess Caroline Josepha Leopoldine von Habsburg-Lothringen with the Crown Prince, Dom Pedro de Alcântara, the future Emperor of Brazil, to send the zoologist Johann Baptist Spix and the botanist Carl Martius to join the Austrian scientific commission that was organized to accompany the entourage of the Archduchess on her departure to Brazil. These [and many other] scientists came to explore the Brazilian Kingdom, making collections of animals, plants, and minerals, investigating the productions of the countries visited, the culture, the inhabitants, etc. (Papavero, 1971). Martius arrived in Rio de Janeiro on the frigate "Austria" on the 15th of July 1817, accompanied by

the Austrian entomologist and botanist Johann Christian Mikán, and his wife, along with the Austrian painter Thomas Ender, and Spix (Martius and Rodrigues, 1956: 433; Papavero, 1971: 61). After some weeks in Rio, Spix and Martius decided to initiate their voyage through Brazil.

Spix and Martius collected in Brazil between 1817 and 1820. Detailed information about their itineraries and the places visited can be found in Spix and Martius (1823, 1828, 1831a, 1831b, 1968), Urban (1906), Papavero (1971), and in Tiefenbacher (1983). The journey itself began on the 8th of December 1817, with São Paulo as the first destination, reaching it by the end of the year (31st of December). In 1818, they left São Paulo for southern Bahia, gathering large collections especially in Minas Gerais and Bahia, where they arrived in November 1818. For a few months they collected in the northeastern states of Bahia, Pernambuco, Piauí and Maranhão, after which embarking for Belém in July 1819. The collecting followed by the Ilha de Marajó and other

Our thanks to Henk van der Werff (MO), for communicating the specimens on loan to him and for sending their images, and to Katharine E.S. Donahue (History & Special Collections, Louise M. Darling Biomedical Library, UCLA) for the help with the requested manuscript of Martius. Pedro L.R. de Moraes is supported by a grant (PQ2) from CNPq, and is grateful for the sponsorship received by the CAPES/DAAD Agreement for the years 2003, 2005, and 2008; a grant of FUNDUNESP (Proc. Nr. 00073/11-DFP), for his visit to MEL in 2011; stipends from the *Belgian Focal Point to the Global Taxonomy Initiative (GTI)*, which supported the visit to the Botanic Garden Meise in 2004 and 2012; and a sponsorship from CNPq (Proc. Nr. 450515/2013-3) for a visit to LE.

¹Universidade Estadual Paulista "Júlio de Mesquita Filho", Instituto de Biociências, Departamento de Botânica, Av. 24 A 1515, Bela Vista, Caixa Postal 199, 13506-900 Rio Claro, SP, Brazil. Email: pmoraes@rc.unesp.br. Author for correspondence.

localities in the vicinity of Belém, Pará, then beginning the final stage of the expedition up the Rio Amazonas to Manaus, where Spix and Martius followed separate paths: the first followed by the Rio Negro and its tributaries and Martius followed the Rio Solimões and Rio Jupará. Both returned to Belém in April 1820 and in June of that year, embarked for Europe, arriving in Lisbon on the 23rd of August, and finally in Munich in December 1820 (Spix and Martius, 1823, 1828, 1831a; Urban, 1906; Shepherd, 2002).

The literature about the life and writings of Carl Martius is quite extensive, given the amount and importance of his work. Among the primary sources, we can highlight the texts by Lasègue (1845), de Candolle (1856a, b, 1857), Carus (1869), Eichler (1869a, c, d), Meissner (1869, 1870), Seemann (1869), Schramm (1869a, b), Spring (1870, 1871), Rau (1871), Wunschmann (1884), and Ross (1917). More recent literature and contextualized approaches about Martius's works can be found in Dutra (1942), Hoehne (1942), Rambo (1952), Sommer (1953), Biblioteca Nacional (1968), Stafleu and Cowan (1981), Wuschek (1989), Mägdefrau (1990), Förther (1994), and Lisboa (1995, 1997).

The collections of Martius during the travel to Brazil may be estimated at nearly 8,000 species, of which 800 were collected in port sites of Europe in Istria, Malta, Gibraltar, Madeira, and Portugal, at the beginning and the end of the travel (Martius, 1850; Wallich, 1851; Förther, 1994) (c. 20,000 to 25,000 specimens), thus becoming the foundation for the production of the *Flora Brasiliensis*. Martius originally edited this monumental work from 1840 to 1868, with the printing of 46 fascicles, where more than about 9,000 species were treated, illustrated in about 1,400 figures and 1,071 lithographs. The edition of the *Flora* was continued posthumously by August Wilhelm Eichler (1839–1887) and Ignatz Urban (1848–1931), with completion of the work in 1906. The *Flora Brasiliensis* in its final form consists of 15 volumes (in 40 parts) *in folio*, originally published in 130 individual fascicles (in 130 dated parts), the text consisting of 20,733 “pages” (the page numbers actually refer to columns, two on each page), and 3,811 lithographs and nature-prints, illustrating 6,246 species in full size. Given the magnitude of the undertaking, the work had the collaboration of 65 researchers including the most illustrious European botanists of the time, who have described a total of 22,767 species (Urban, 1908; Martius and Rodrigues, 1956: 434; Baldus in Spix and Martius, 1968: 8; Shepherd, 2002). The majority of those species are angiosperms, of which 19,629 are native to Brazil and 3,138 are from adjacent regions or introduced in the country. The treatment of Lauraceae in the *Flora Brasiliensis* was made by the Swiss botanist Carl Daniel Friedrich Meissner (1800–1874), which was published in Volume 5, Part 2, in 1866, with the description of 327 species. Among them, there are 64 taxa with the indication of collections made by or attributed to Martius.

During the expedition to Brazil, Martius made quick notes *in situ* for 3,320 species of plants, in his “*Adversaria Botanica*” (Martius, 1850: 723; Wallich, 1851: 68; Förther, 1994). Later, in his writings, he refers to this unpublished manuscript again. A handwritten copy made by A. Progel,

entitled “*Observationes botanicae, Plantae in itinere Brasiliensi annis 1817–1820 a Car. Frid. Phil. Martio descriptae, vol. 1–6*,” bound in six volumes *in quarto*, is housed at the Library of the Botanische Staatssammlung München (Martius, 1817–1820). A xerographic copy of these volumes is also deposited in the Library of the Royal Botanic Gardens, Kew. Of key importance is the fact that many of the specimens collected by Martius have labels that refer to those comments, providing an additional source of information on the species (see Förther, 1994). For Lauraceae, all these cases have been registered here and referred to as “*Martius Obs.*,” followed by their numbers.

Additionally, as pointed out by Förther (1994: 12), Martius received many collections sent from Brazil, in between the end of 1830 and the end of 1840, made by Ackermann (gathered in 1830–1836), P. Claussen (gathered in 1834–1843), B. Luschnath (gathered in 1831–1837), A. L. P. da Silva Manso (gathered ca. 1830–1832), and L. Riedel (gathered ca. 1821–1836), which were distributed by him to major European herbaria (e.g., B, BM, G, L, LE, M, W, etc.). Among them, there were a series of new species that Martius entitled as “*Herbarium Florae Brasiliensis*,” being published in the journal *Flora* between 1837 and 1841 (Martius, 1837–1841). These exsiccatae distributed to herbaria bear printed labels with “*Martii Herbar. Florae Brasil. N°*,” followed by a handwritten number, corresponding to what has been published in *Flora*. Although for Lauraceae there are no cases where the species were collected by Martius, often in the literature these collections were assigned to him. For this reason, they have been also listed in this work and, when known, their collectors are indicated. As pointed out by Hind (2011), the specimens at herbarium BR usually provide evidence identifying the collectors, since they bear both the labels of the original collector and of the “*Herb. Fl. Bras.*”

Martius's own collections from Brazil are held in the Botanische Staatssammlung München (M), with duplicates at B, BM, BR, G-DC, K, L, LE, P, and W (Urban, 1906; Förther, 1994). Martius's private herbarium (*Herbarium Martii*), estimated to comprise about 300,000 specimens, containing 60,000 species, nearly half of which are Brazilian, was purchased by the Belgian Government for a sum of £1,200, in 1870, to form the basis of a national collection, and is now at the Botanic Garden Meise (BR) (see Eichler, 1869b; Bommer, 1870; Seemann, 1870; Stafleu and Cowan, 1981; Förther, 1994). In Förther (1994), a detailed account on the development and content of Martius's private herbarium and his numerous, fruitless attempts to sell his collections to the Bavarian Government is presented. According to Bommer (1870), these efforts of selling the private herbarium to the Bavarian Kings, Maximilian II and his successor Ludwig I, were unsuccessful because Bavaria already had the Brazilian herbarium formed by Martius and Spix. However, Martius's strained relationship with King Maximilian II might help to partially explain the king's refusal to buy the collections. The king had refused to increase Martius's starting salary since his initial appointment in 1836 to succeed Schrank as the first curator of the Munich Botanical Garden (see Förther, 1994).

The aim of the present study was to review all Lauraceae collections made by Martius in Brazil, updating and commenting their taxonomic status, detailing and clarifying the localities and dates of the collections, as well as indicating all herbaria known to possess their duplicates. Meissner's treatment of the family in Martius's *Flora Brasiliensis* (Meissner, 1866) was taken as a key reference for citing the material collected by Martius along with the specimens examined and available from other collectors.

This study is based on herbarium material from the herbaria A, AWH, B, BC, BM, BR, C, CGE, COL, E, F, FI, G, G-DC, GH, GOET, GZU, HAL, HBG, HRCB, JE, K, KIEL, KR, L, LE, LINN, LISU, LZ, M, MA, MEL, MO, NY, OUPR, OXF, P, S, SBT, STR, TO, TUB, U, US, VT, W, and WRS� (herbarium acronyms according to Thiers, [continuously updated]). "Original material," indicated within the text, relies on Art. 9.2 & 9.3 ICN (McNeill et al., 2012). All species names and their taxonomic treatment were checked in the classical taxonomic works on Lauraceae, such as those by Nees von Esenbeck (1833, 1836, 1848), Meissner (1864), and Mez (1889), as well as in the more recent published or available revisions: *Aiouea* Aubl. and *Aniba* Aubl. (Kubitzki and Renner, 1982), *Cassytha* L. (Weber, 1981), *Cinnamomum* Schaeff. (Lorea-Hernández, 1996), *Cryptocarya* R. Br. (Kostermans, 1937, 1938a; Moraes, 2005, 2007), *Dicypellium* Nees & Mart., *Phyllostemonodaphne* Kosterm., *Systemonodaphne* Mez and *Urbanodendron* Mez (Rohwer, 1988), *Endlicheria* Nees (Chanderbali, 2004), *Licaria* Aubl. (Kostermans, 1936; Kurz, 2000), *Nectandra* Rol. ex Rottb. (Rohwer, 1993), *Ocotea* Aubl. (Rohwer, 1986), and *Persea* Mill. (Kopp, 1966).

As results, we show below that Martius collected 57 currently accepted species of Lauraceae, 55 of which are native to Brazil (not introduced or subsynchronous). Taking into account the synonyms involved, among the 99 different collections gathered by Martius, 26 are holotypes, 23 are lectotypes, and 30 are syntypes of names of the corresponding taxa, i.e., the vast majority are nomenclatural types. These numbers alone would be enough to demonstrate the importance of the Lauraceae collections that Martius gathered in Brazil over the three years of his expedition with Spix. However, when comparing the expedition of Spix and Martius with what is known about those of other naturalists who visited Brazil in the early 19th century (see Mez, 1892, for a list of collectors and their numbered collections of Lauraceae), it is evident that just Friedrich Sellow (1789–1831) and Ludwig Riedel (1791–1861), who remained in Brazil for much longer, would have surpassed Martius in number of species collected for the family. Sellow collected in Brazil, from 1814 to 1831, a total of 61 currently accepted species of Lauraceae (Moraes, 2008). Riedel, in turn, came to Brazil in 1821 and remained in the country until his death in 1861. His collection period was from 1821 to 1836, in which he collected 92 species of Lauraceae (Moraes, 2012a, b).

For convenience, the current accepted names of species are listed in alphabetic order. Accepted names appear in **boldface italics**, synonyms in *italics*. Homotypic synonyms are indicated by "=", while the heterotypic are under the entries "Synonym" or "Synonyms." Whenever available, barcode numbers are quoted with the herbarium acronyms. An Index to Scientific Names and an Index to Collections are provided at the end.

AN ANNOTATED LIST OF LAURACEAE COLLECTED BY MARTIUS OR ATTRIBUTED TO HIM

1. *Aiouea laevis* (Mart.) Kosterm., *Recueil Trav. Bot. Néerl.* 35: 84. 1938 = *Aiouea brasiliensis* Meisn. in DC., *Prodr.* 15(1): 83. 1864, *nom. illegit.*; *ibid.* in Martius, *Fl. Bras.* 5(2): 170. 1866; Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 43. 1889; Moraes, *Harvard Pap. Bot.* 17(1): 189. 2012; *ibid.* in *Pl. Ecol. Evol.* 146(3): 361. 2013.

Basionym: *Cryptocarya laevis* Nees ex Mart., *Flora* 21(2, Beibl.): 64. 1838; Meissner in DC., *Prodr.* 15(1): 83. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 170. 1866; Renner, *Fl. Neotrop. Monogr.* 31: 109. 1982. TYPE: BRAZIL. Rio de Janeiro, "Crescit in sylvis Caa-poera dictis ad Sebastianop.," 12 June 1817, *Martii Herbar. Florae Brasil. N° 237* (Holotype: BR 0000008686169 [annotated by Nees as "*Cryptocarya pyriformis levis* N. ab. E."]; Isotypes, AWH 28362, AWH 28363, B⁺ [F neg. 3782], BM 000894059, BR 0000008685834, E 00259412, FI 005252, G, G 00021045, G 00021046, G 00021047, G-DC 00200460, GH 00041126, HAL 0101918, JE 00004805 [and probably JE 00000523, ex Herbar. Bernhardt, *Anonymous s.n.*], K 000512712, K 000512713, K 000512714, KR, L 0035524, L 0035525, LE 00000096, LE 00000135, LZ⁺, M 0111049, M 0111050, M 0111051, M 0111052, MO 247250, NY 00354800, P00128383, P00128384, W⁺, WRS�).

Synonyms: *Aiouea brasiliensis* Meisn. var. *attenuata* Meisn. in DC., *Prodr.* 15(1): 83. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 170. 1866 = *Aiouea riedelii* Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 37. 1889, *nom. illegit. superfl.* TYPE: BRAZIL. Loco haud indicato, s.d., L. Riedel *s.n.* (Holotype: LE; Isotypes, B⁺ [F neg. 3788], G 00020674, GOET [2 sheets], K 000601965, L 0035527, LE [2 sheets], NY 00354799). Specimen: BRAZIL. Bahia, Ilhéus, "ad ripas fluvi Itahype" [Rio Itaípe], March 1822, L. Riedel 688 (LE n.v.).

For a complete list of synonyms, see Kubitzki and Renner (1982).

None of the located specimens of *Martii Herbar. Florae Brasil. N° 237* bears information on who the collector is, even in BR. Nonetheless, it has been wrongly attributed to Martius by Kubitzki and Renner (1982). In fact, once Martius (1838) had indicated the gathering as from June, in Rio de Janeiro, this excluded him as the collector, since he has arrived in Rio de Janeiro in July 1817. From information on the sites and dates of the collections reported by Martius in *Herbarium Florae Brasiliensis*, and based on the respective specimens located in BR, the most likely collector of the present species would be Bernhard Luschnath. As pointed out by Moraes (2012: 189), in Martius's *Flora Brasiliensis*, Meissner (1866: 170) mistakenly attributed to Martius the collection of *Riedel 688* from Rio Itaípe.

2. *Aniba canelilla* (Kunth) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 53. 1889; Kostermans, Recueil Trav. Bot. Néerl. 35: 898. 1938; Kubitzki, Fl. Neotrop. Monogr. 31: 79. 1982; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 13, 111. 1986; Moraes, Harvard Pap. Bot. 17(1): 190. 2012.

Basionym: *Cryptocarya canelilla* Kunth in Humboldt, Bonpland and Kunth, Nov. Gen. Sp. (quarto ed.) 7: 192, t. 645. 1825. Lectotype (designated by Kostermans, 1938b: 899): VENEZUELA. “crescit ad orientem Esmeraldæ, in monte de la Canelilla, juxta ripam Cauræ et erevati; item prope catarractam Maypurensium,” s.d., immat. fr., *F. W. H. A. von Humboldt & A. J. A. Bonpland 1018* (B-W 07784 00 0 & B-W 07784 01 0 [“*Laurus canelilla* Willd.,” herbarium name, “Orinoco”]; Isolectotypes, P 00307242 [F neg. 35005], P 00506929).

Synonyms: *Cryptocarya pretiosa* Mart. in Buchner, Repert. Pharm. 31: 356. 1829, **syn. nov.** = *Mespilodaphne pretiosa* Nees & Mart., Linnaea 8: 45. 1833, *nom. illegit. superfl.*; Martius, Syst. Mat. Med. Bras.: 111. 1843; *ibid.* in Fl. Bras. 5(2): 317. 1868 = *Mespilodaphne pretiosa* Nees & Mart. var. *angustifolia* Nees, Syst. Laur.: 237. 1836, *nom. invalid.*; Meissner in DC., Prodr. 15(1): 103. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 198–199. 1866; Moraes, Komarovia 6(1): 16. 2008. LECTOTYPE (designated here): BRAZIL. Pará, “in sylvis ad oppidum Pará rarius, frequentius in Provinciae Paraensis interioribus,” 1819, immat. fr., fr., *C. F. P. von Martius s.n.* (M 0121069 [“*Cryptocarya pretiosa* Mart.,” “Páo v. Casca preciosa Lusitan.”]). Original material: BRAZIL. Pará, s.d., immat. fr., *C. F. P. von Martius s.n.* (M 01121070 [fragment], M 0121071, M 0121072, MEL 2318499); *idem*, “ad fluvium Rio Negro,” s.d., immat. fr., *C. F. P. von Martius s.n.* (G, MEL 2318499); *idem*, Amazonas, “inveni prope praedium Capitany in prov. Alto Amaz.,” 1819, immat. fr., *C. F. P. von Martius s.n.* (BR 0000008685865 [“*Laurus pretiosa*,” herbarium name]).

For a complete list of synonyms, see Kubitzki and Renner (1982).

Vernacular names: “Casca preciosa” (Martius, 1829), “Pereiorá Tupin.,” “Páo v. Casca pretiosa” (Martius, 1843, 1868).

Hitherto, the name *Cryptocarya pretiosa* Mart. has been interpreted as a herbarium name mentioned in the synonymy of *Mespilodaphne pretiosa* Nees & Mart. var. *angustifolia* Nees as “*Cryptocarya pretiosa* Mart. in Herb. Brasil. Monac.” (Nees von Esenbeck, 1836), therefore being overlooked by Nees as already published by Martius (1829).

Moraes (2008) pointed out that, as indicated by Rohwer (1986: 13, 111, 229), the name *Mespilodaphne pretiosa* Nees & Mart. is superfluous, thus illegitimate, since *Laurus quixos* Lam., Encycl. 3: 455. 1792 was cited as a synonym {= *Ocotea quixos* (Lam.) Kosterm., Recueil Trav. Bot. Néerl. 35: 900. 1938. TYPE: [ECUADOR] “ex Provincia de los Canelos in Peru,” “Provincia Riobaruba,” 12 April 1748, sterile, *Joseph de Jussieu s.n.* (Holotype: P-JU 00307277 [Cat. No. 4245]); Isotype, P-LA 00381527, sterile.; see Rohwer, 1986: 229, 249; 1993: 297–298}}.

The earlier name *Laurus quixos* was not included in a subordinated taxon under *Mespilodaphne pretiosa*, so the latter name should be automatically typified by the type of the first one (Art. 7.5). The name *Ocotea pretiosa* Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 250. 1889, based on *Mespilodaphne pretiosa* Nees & Mart. with exclusion of its variety *angustifolia* Nees (with *Laurus quixos* in synonymy) is therefore legitimate. The former name in sense of Mez is *Ocotea odorifera* (Vell.) Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 111. 1986. Another name, *Aydendron suaveolens* Nees, Linnaea 8: 37. 1833, which was included by Mez into the concept of *Ocotea pretiosa* does not make the new name illegitimate because the combination *Ocotea suaveolens* (Meisn.) Benth. ex Hieron., Bol. Acad. Nac. Ci. 4: 437. 1881 (= *Oreodaphne suaveolens* Meisn. in DC., Prodr. 15(1): 136. 1864) was already published to that date. The combination “*Ocotea pretiosa* Benth. et Hook. f.” recorded in *Index Kewensis* has not been validly published by Bentham in Bentham and Hooker (1880: 158), being substituted by the phrase “species typica generis” without any nomenclatural status under the ICN (Art. 35.2).

Martius (1843a), in his *Systema materiae medicae vegetabilis brasiliensis*, cited the existence of several lithograph plates that were already finished from his book that was never published, “*Plantae Medicae et Oeconomicae Brasiliae*” (Mart. Pl. med. et oec. Br. ined.), with the plate 33 being indicated for *Mespilodaphne pretiosa* Nees & Mart. Meissner (1866: 301–302) also mentioned this unpublished book as “Tabulas LXVI. LXX. XCV. XCVI. CI. CII. receptae sunt e Martii opere inedito: Plantae medicinales et oeconomicae Brasilienses” and used those Martius’s plates in his monograph, which were acknowledged as “Tabula nostra [...] ex Martii Pl. med. et oec. Bras. ined. recepta” (for *Aydendron cujumarum* [Tabula LXVI], *Mespilodaphne opifera* [LXX], *Nectandra puchury-major* [XCV], *Nectandra cymbarum* [XCVI], *Nectandra puchury-minor* [CI], and *Dicypellium caryophyllaceum* [CII]). However, for “*Mespilodaphne pretiosa* Meissn.,” Meissner only quoted “Tabula nostra LXXIV,” therefore evidencing that another plate was prepared for the species in question. Actually, plate 74 in *Flora Brasiliensis* refers to *Ocotea odorifera* (Vell.) Rohwer, which most likely was based on Riedel’s collection from “Mandiocca,” since it is the only flowering material among the collections cited by Meissner (see Moraes, 2012b).

3. *Aniba citrifolia* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 74. 1889; Kostermans, Recueil Trav. Bot. Néerl. 35: 890. 1938; Kubitzki, Fl. Neotrop. Monogr. 31: 23. 1982; Moraes, Harvard Pap. Bot. 17(1): 191. 2012.

Basionym: *Aydendron citrifolium* Nees, Syst. Laur.: 257. 1836; Meissner in DC., Prodr. 15(1): 93. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 183. 1866. TYPE: BRAZIL. Amazonas, “Rio Negro” (Alto Amazonas), “In sylvis Japurensibus, ad amnem Juí,” February 1820, *C. F. P. von Martius s.n.* (Holotype: M 0147109 [F neg. 6583]).

Additional synonyms in Kubitzki and Renner (1982) and Moraes (2012).

4. *Aniba desertorum* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 76. 1889; Kostermans, Recueil Trav. Bot. Néerl. 35: 892. 1938; Kubitzki, Fl. Neotrop. Monogr. 31: 38. 1982; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 247. 1986.

Basionym: *Aydendron desertorum* Nees, Syst. Laur.: 260. 1836; Meissner in DC., Prodr. 15(1): 92. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 182, t. 65. 1866 = '*Ocotea desertorum* Mart.,' *nom. nud.* = '*Ocotea obtusifolia* Mart.,' *nom. nud.* Lectotype (designated by Kubitzki and Renner 1982: 38): BRAZIL. Minas Gerais, "in sylvis Capões ad fluv. Rio Verde pequeno et in Chapada do Paranan," July 1818, fl., fr., *C. F. P. von Martius s.n.* (M 0147106; Isolectotypes, M 0147104 [ex Herb. Zuccarini], M 0147105, M 0147108). Syntype: BRAZIL. Minas Gerais, Rio São Francisco, "in sylvis capões versus f. S. Francisci," August 1818, fr., *C. F. P. von Martius s.n.* (M 0147107).

For a complete list of synonyms, see Kubitzki and Renner (1982).

5. *Aniba permollis* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 55. 1889; Kostermans, Recueil Trav. Bot. Néerl. 35: 896. 1938; Kubitzki, Fl. Neotrop. Monogr. 31: 73. 1982.

Basionym: *Aydendron permolle* Nees, Syst. Laur.: 246. 1836; Meissner in DC., Prodr. 15(1): 88. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 176. 1866 = '*Cryptocarya aiü-üva* Mart. ex Nees,' Syst. Laur.: 246. 1836, *nom. invalid.* Lectotype (designated by Kostermans, 1938b: 896): BRAZIL. Amazonas, Tefé, "in sylvis ad Ega," December 1819, *C. F. P. von Martius Obs.* [Observationes botanicae] 2908: "Laurus Aiüüva / Arbor magna frondosa. Rami teretes tomento ferruginei. ..." (M 0147098; Isolectotypes, B[†] [F neg. 3806], M 0147099, M 0147100, NY 00354890 [fragment], NY 00354891 [fragment]). Syntype: BRAZIL. Amazonas, Tefé, "Ega," November 1831, fl., *E. F. Poeppig* 2769 (B[†], BM, F 0061359F ex W, G [2 sheets], G-DC, HAL 0103802, KIEL, LE 00006806, LE, LZ[†], M, OXF 00000388, P 00745599, P 00745600, W, WRSL).

6. *Aniba puchury-minor* (Mart.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 70. 1889; Kostermans, Recueil Trav. Bot. Néerl. 35: 903. 1938; Kubitzki, Fl. Neotrop. Monogr. 31: 57. 1982; Moraes, Pl. Ecol. Evol. 146(3): 362. 2013 = *Nectandra puchury-minor* (Mart.) Nees, Syst. Laur.: 336. 1836; Martius, Syst. Mat. Med. Bras.: 109–110. 1843; *ibid.* in Fl. Bras. 5(2): 317. 1868; Meissner in DC., Prodr. 15(1): 166. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 277, t. 101. 1866. Basionym: *Ocotea puchury-minor* Mart. in Buchner, Repert. Pharm. 35: 172. 1830. Lectotype (designated by Mez, 1889: 70): BRAZIL. Amazonas, "in sylvis Japurensibus," December 1819, fr., *C. F. P. von Martius s.n.* (M 0113213; Isolectotype, B[†]). Syntypes: BRAZIL. Amazonas, "in sylvis secus fl. Solimões," November 1819, fr., *C. F. P. Martius s.n.* (GZU 000254329 [fragment], M 0112564); BRAZIL. Amazonas, loco haud indicato, 1819, fr., *C. F. P. von Martius s.n.* (M 0112563).

Synonymy in Kubitzki and Renner (1982) and Moraes (2013).

Vernacular names: "Fabas Pechurim v. Puchury" (Martius, 1868).

7. *Cassytha filiformis* L., Sp. Pl. 1: 35. 1753. Lectotype (designated by Imkhanitskaya, 1974: 208): INDIA. *P. Osbeck s.n.* (Herb. Linn No. 519.1, LINN). Original material: *P. Osbeck s.n.* (S [05-4065]).

Synonyms: *Cassytha brasiliensis* Mart. ex Nees, Syst. Laur.: 648. 1836; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 490. 1889 = *Cassytha americana* Nees var. *brasiliensis* (Nees) Meisn. in DC., Prodr. 15(1): 256. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 296. 1866. TYPE: BRAZIL. Minas Gerais, "in Campis editis Minarum novarum," July–August 1818, *C. F. P. von Martius s.n.* (Holotype: M).

Cassytha americana Nees var. *puberula* (Nees) Meisn. in DC., Prodr. 15(1): 256. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 296. 1866. TYPE: BRAZIL. Bahia, *C. F. P. von Martius s.n.* (Syntype: M); BRAZIL. Bahia, "in collibus siccis pr. Ilheos. J. Domingo" [Fazenda João Domingo], June 1821, *L. Riedel* 374 (Syntypes: LE, NY 00354928).

Synonyms and further information in Stapf (1912), Kostermans (1950), and Weber (1981).

8. *Cinnamomum erythropus* (Nees & Mart.) Kosterm., Reinwardtia 6: 21. 1961; Lorea-Hernández (1996: 81); Moraes, Harvard Pap. Bot. 17(1): 193. 2012 = *Phoebe erythropus* (Nees & Mart.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 189. 1889.

Basionym: *Persea erythropus* Nees & Mart. in Nees, Linnaea 8: 49. 1833. Lectotype (designated by Moraes, 2008: 48): BRAZIL. Minas Gerais, Ouro Preto, "in ferruginosis ad Antonio Pereira," April 1818, fl., *C. F. P. von Martius Obs.* 883 (GZU 000249338 [fragment on the top, annotated by Nees]; Isolectotypes, M 0147194, M 0147196 ["*Persea erythropus* M. Reise I. p. 401. (nomen)"]]). Syntypes: BRAZIL. Minas Gerais, loco haud indicato, s.d., fr., *C. F. P. von Martius s.n.* (M 0147195); BRAZIL. Loco haud indicato, fl., *F. Sellow* 1360 (B[†], F [619716; fragment ex B[†], F neg. 58035, *Sellow s.n.*], GZU 000265498 [fragment on the bottom, annotated by Nees, *Anonymous s.n.*]).

Synonyms: *Persea erythropus* Nees & Mart. var. *angustata* Meisn. in DC., Prodr. 15(1): 55. 1864 = *Persea erythropus* Nees & Mart. var. *mixtinervia* Meisn. in Martius, Fl. Bras. 5(2): 162. 1866, *nom. illegit. superfl.* TYPE: BRAZIL. Minas Gerais, "Serra da Piedade et S. Itacolomi," October–November 1834, fl., *L. Riedel* 2777 (Syntypes: C, G [2 sheets], K 000602109, K 000602110, LE 00000480, LE 00000481, LE 00000482, NY 00355827, OXF 00000375 [*Anonymous s.n.*], P 01978620, US 00099112); BRAZIL. Minas Gerais, Ouro Preto, "in ferruginosis ad Ouro Preto," "Serra de Ouro Preto," June 1839, fl., fr., [*Ackermann s.n.*] *P. Clausen* 108 in *Martii Herbar. Florae Brasil. N° 1238* (Syntypes:

BR 0000008762092, BR 0000008764317, G-DC 00200453, LE, NY 00355828, P 00128549).

For a complete list of synonyms, see Lorea-Hernández (1996) and Moraes (2008).

9. *Cinnamomum verum* J. Presl in Berchtold & J. Presl, Přir. Rostlin 2: 36–37, t. 7. 1825 [1823?]; Moraes, Harvard Pap. Bot. 17(1): 194. 2012; *ibid.* in Pl. Ecol. Evol. 146(3): 364. 2013. Specimen: BRAZIL. Rio de Janeiro, “in horto (Chacara) secundum viam ad S. Clemente, prope Sebastianopolin, cultum,” July 1833, fl., November–December 1833, fr., *B. Luschnath s.n.* in *Martii Herbar. Florae Brasil. N° 477* (BR 0000013332587, M 0147231). Basionym: *Laurus cinnamomum* L., Sp. Pl. 1: 369. 1753.

Lectotype (designated by Wu-Kuang, 2011: 261): Herb. Clifford: 154, *Laurus* 6, sheet B (BM 000558701).

Synonyms: *Cinnamomum zeylanicum* Breyn., Ephem. Nat. Cur. Dec. I, Ann. 4: 139. 1676, *nom. invalid.* (see Howard, 1981).

Cinnamomum zeylanicum Blume; Bijdr. Fl. Ned. Ind. 11: 568. 1825; Nees in Nees and Th. Nees, Cinnam. Disp.: 48. 1823; Nees in Wallich, Pl. Asiat. Rar. 2: 74. 1831; Nees, Syst. Laur.: 45. 1836; Meissner in DC., Prodr. 15(1): 13. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 147. 1866. Specimen: BRAZIL. Rio de Janeiro, “... haec est ex horto botanico prope Rio de J.º Provinciae ejusdem nominis”, 1817, fl., *C. F. P. von Martius s.n.* (BR, M 0147232).

Cinnamomum zeylanicum Blume var. *microphyllum* Nees, Syst. Laur.: 47. 1836; Meissner in DC., Prodr. 15(1): 14. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 147. 1866. Specimen: BRAZIL. Pará, “in cultis ad Pará”, fl., *C. F. P. von Martius s.n.* (L 0036030 [“*Laurus cassioides* Mart.”, herbarium name, “Pará”; ex Herbarium Reinwardtianum], M 0147236) [“*Laurus cassioides* Mart. ex Miq.’, Ann. Mus. Bot. Lugduno-Batavi 1: 256. 1864, *nom. invalid.*].

For a complete list of synonyms, see Kostermans (1964, 1986).

The specimen cultivated in Pará that Martius collected was cited by Nees von Esenbeck (1836: 48), Miquel (1864), and Meissner (1866: 147).

10. *Cryptocarya mandioccana* Meisn. in DC., Prodr. 15(1): 75. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 165. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 10. 1889; Kostermans, Recueil Trav. Bot. Néerl. 34: 572. 1937; *ibid.* in Recueil Trav. Bot. Néerl. 35: 125–126. 1938; Moraes, Taxon 54(3): 792. 2005; *ibid.* in Abc Taxa 3: 70. 2007; *ibid.* in Komarovia 6(1): 8. 2008; *ibid.* in Harvard Pap. Bot. 17(1): 194. 2012. TYPE: BRAZIL. Rio de Janeiro, Magé, “in sylvis Mandiocensis,” October 1823, fl., *L. Riedel s.n.* (Holotype: LE; Isotypes, B⁺ [F neg. 3844], GOET 007344, GOET 007345, K 000601800, L 0036185, L 0036186, LE, NY 00355045, OXF 00057026, OXF 00057027 [right-hand specimen], U, US 00051077). Specimen: BRAZIL. Minas Gerais, Visconde do Rio Branco, “habitat in sylvis aboriginibus ad Praesid. Joannis Bapt. et alibi. Provinciae

Minar.” April 1818, fr., *C. F. P. von Martius Obs. 1095 b*: “Noz moschada do Brazil. Litsaeae sp. ? Arbor alta trunco recto, cortice 2–3 lin. crasso castáneo epidermide laevigata cinereo-subrufesc. laevia absque rimis, ligno albedo, fibra dura compacta, speculis transversal. minutis, gravi. ...” (M 0152460 [syntype of *Cryptocarya moschata* Nees & Mart. in Nees, Linnaea 8: 37. 1833; Martius in Spix and Martius, Reise Bras. 2: 543. 1828; *ibid.* in Syst. Mat. Med. Bras.: 110. 1843; *ibid.* in Fl. Bras. 5(2): 319. 1868; Meissner in DC., Prodr. 15(1): 74. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 164, t. 56. 1866]).

Further information in Moraes (2005, 2007).

Vernacular name: “Noz mocada do Brazil” (Martius, 1843, 1868).

Originally, *Cryptocarya moschata* was based on two collections, a fruiting one by Martius and a flowering one by Sellow. Unfortunately, these collections represent different taxa, which had not been acknowledged either by Meissner or by Mez. The lectotypification of *C. moschata* in the sense of the Martius collection was done by Kostermans (1937). He proposed the specimen of Martius as (lecto)type, without analyzing it, based on the description of Nees von Esenbeck and solely on the available specimen of Sellow in hand. Later (Kostermans, 1938a), after studying the specimen of Martius, he was “obliged to alter the synonymy” of *C. moschata* as “it proved to have pilose leaves,” justifying his earlier decision in favor of the Martius collection because “...as the description of Nees refers especially to this species and not to that of Sellow...” However, contrary to Kostermans’s statement, Nees’s paper deals mainly with the Sellow collections at Berlin (*Revisio Laurinarum a b. Sellowio in Brasilia collectarum et iam in Herbario Regio Berolinensi asservatarum*), from which the protologue allowed a clear decision (see below) on which material the species was primarily described [see also Rohwer, 1993b in his lectotypification of *Nectandra leucantha* Nees & Mart., Linnaea 8: 48. 1833]. In Moraes (2005), after studying both syntypes, he has concluded that the Martius collection was in conflict with the protologue, while the Sellow one was not and, therefore he selected a specimen of the Sellow collection as lectotype. According to the original diagnosis, which is not much elucidative, *C. moschata* has “*foliis ovali-oblongis brevi-cuspidatis utrinque reticulatis glabris concoloribus, pedunculis axillaribus petiolo paulo longioribus paucifloris, fructu obovato umbonato costato*.” The Sellow collection has leaves ovate-oblong, short-cuspidate, on both surfaces reticulate, glabrous, concolor, whereas the Martius collection has leaves ovate-oblong, acute to pointleted, on both surfaces reticulate, but pubescent on the lower surface, discolour (brownish and shining above, somewhat olive-green and dull below). Still, the specimen of Sellow has short peduncles, slightly longer than petioles, whereas the specimen of Martius has peduncles considerably longer than petioles, and fruits umbonico-ovate, ribbed. Other authors might reject Moraes’s supersession of the existing lectotype, with the allegation that “the specimen chosen by Kostermans as lectotype is not in ‘serious’ conflict with regards to the protologue,” since the main evidence relies on the leaf pubescence. In fact, as pointed out by Moraes, according to the protologue

C. moschata is a glabrous species, which was clearly based on the *Sellow* collection. This indument character, or its absence, plays a major part in the delimitation of *Cryptocarya moschata* in the sense of *Sellow's* syntype and *C. mandioccana*, the species represented by *Martius's* collection. If the lectotypification of *C. moschata* in the sense of the *Martius* collection would not be rejected for the reasons explained, it will be necessary to coin a new name for the distinctive entity represented by *Sellow's* collection. Unfortunately, in Moraes's lectotypification he selected the specimen preserved at LE as the lectotype, reasoning that it was the only material, from the available isosyntypes he had accessed, that still had a flower. Only later he found out that CGE houses a duplicate of *Sellow's* syntype still bearing three flowers, which would be the best choice.

In Martius (1843a: 110), the plate 105 was indicated for "*Cryptocarya moschata* Mart." (see entry 2; present work). However, in Meissner (1866: 164), he has only quoted "Tabula nostra LVI," thus evidencing that another plate was prepared for this species. Although Kostermans (1937, 1953, 1964) had also cited plate 105 under *C. moschata* Nees & Mart., this manuscript has not been found within the reliquia of Martius either at the the Bayerische Staatsbibliothek (Abteilung fuer Handschriften und Seltene Drucke) or at the library of the Botanische Staatssammlung München. Wuschek (1989), in his treatment of Martius's *Systema materiae medicae*, did not mention the unpublished manuscript, either.

The illustration of *Cryptocarya moschata* in *Flora Brasiliensis* (Meissner, 1866; plate 56) was delineated from different flowering and fruiting material, based on the specimens analyzed and cited by Meissner. In this sense, only the flowering habit and the flower pieces can be ascribed to *C. moschata* Nees & Mart., since they were drawn from either *Sellow's* or *Widgren's* collections. On the other hand, the fruiting elements of the plate could be either ascribed to *C. mandioccana* (from *Martius s.n.*), *C. riedeliana* P.L.R. Moraes (from *Riedel* 485), or to *C. guianensis* Meisn. (from *Martin s.n.*). However, judging from the outlined shape of leaves and fruits, it would be proved that they were based on *Martius's* collection.

Another manuscript of Martius (1843b), which is kept at the University of California at Los Angeles Library (Louise M. Darling Biomedical Library), is a bound volume that has a simple bookplate stating: "*E Bibliotheca C. Ph. F. Martii.*" Additionally it is stamped: "Urban Library 1933." The holographic titlepage reads: "Plantae medicinales Florae Brasiliensis secundum Ordines naturales dispositae," "1843. 10. Junii." The second leaf of the work has a handwritten note: "Conferenda haec flora medica Brasil. cum Schöpfii flora med. Amer. bor., cum Lunan Jamaic.," likely referring to a comparison among the *Flora Medica* of Brazil (probably from Martius's *Systema materiae medicae vegetabilis brasiliensis*), Johann David Schöpf's *Materia medica americana* (1787), and John Lunan's *Hortus Jamaicensis* (1814). Leaf 3–5 present a holographic list of plants arranged by family and genus and species. Leaf 6 begins as a numbered Leaf 1, after that each opening (left page and right page facing) is numbered on the right leaf. There are 80 openings and the left side of the opening is

blank or contains handwritten notes made by Martius relating to some of the printed text, which has been cut from some other book and pasted on the right hand side. Regarding the species of Lauraceae, all the 11 species treated in *Syst. mat. med. bras.* compose the printed matter, with a different order of entries of the species from the former. Additionally, there are handwritten notes about *Silvia navalium* Allemão [= *Mezilaurus navalium* (Allemão) Taub. ex Mez], and "Nectandra rodgiaei Schomb." [= *Nectandra rodioei* R.H. Schomb. = *Chlorocardium rodiei* (R.H. Schomb.) Rohwer, H.G. Richt. & van der Werff]. The clipped printed text of *Cryptocarya moschata* Mart. is pasted on the numbered leaf 16.

11. *Dicypellium caryophyllaceum* (Mart.) Nees & Mart. in Nees, Pl. Laur. Expos.: 14. 1833; *ibid.* in Syst. Laur.: 344. 1836; Martius, Syst. Mat. Med. Bras.: 111. 1843; *ibid.* in Fl. Bras. 5(2): 316. 1868; Meissner in DC., Prodr. 15(1): 170. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 281, t. 102. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 473. 1889; Rohwer, Bot. Jahrb. Syst. 110: 169. 1988; Moraes, Harvard Pap. Bot. 17(1): 195. 2012 = *Ocotea caryophyllacea* (Mart.) Kostel., Allg. Med.-Pharm. Fl. 2: 482. 1833.

Basionym: *Persea caryophyllacea* Mart. in Buchner, Repert. Pharm. 31: 355. 1829; *ibid.* in Spix and Martius, Reise Bras. 3: 915. 1831. TYPE: BRAZIL. Amazonas, Maués, "in sylvis ad Maué hanc culta in hortis Parae.," April 1820, *C. F. P. von Martius s.n.* (Holotype: M 0147268; Isotypes, B 10 0185010, B 10 0185011, G, GZU 000254389). Other original material: BRAZIL. *C. F. P. von Martius Obs.* 2617: "Persea caryophyllat. Mart./Dicypellium caryophyllat. Nees/Laurus sanguinea Sw. ? ... Colitur in horto regio Pará, ex interioribus silvis advecta" (M 0147264, M 0147265, M 0147266 [as *Martius s.n.*]; BRAZIL. Amazonas, "ad Coari et Ega," November 1819, *C. F. P. von Martius s.n.* (M 0147267 [ex Herb. Zuccarinii]).

Vernacular names: "Cravo do Maranhão" (Martius, 1829), "Páo Cravo Bras.," "Imyra-Quiyinha v. Kiynja i. e. lignum Capsici Tupin." (Martius, 1843).

12. *Licaria brasiliensis* (Nees) Kosterm., Recueil Trav. Bot. Néerl. 34: 601. 1937 = *Aydendron brasiliense* (Nees) Meisn. in DC., Prodr. 15(1): 87. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 180, t. 64. 1866 = *Misanteca brasiliensis* (Nees) Lundell, Wrightia 4(3): 99. 1969.

Basionym: *Acrodiclidium brasiliense* Nees, Syst. Laur.: 267. 1836; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 92. 1889; Kostermans, Recueil Trav. Bot. Néerl. 33: 746. 1936; Kurz, Mitt. Inst. Allg. Bot. Hamburg 28/29: 157. 2000. TYPE: BRAZIL. Pará, "in sylvis secus fluvium Amazonum," September–October 1819, fl., *C. F. P. von Martius s.n.* (Holotype: M 0147427; Isotypes, L 0308064 ["Laurus riparia M.," herbarium name, "Amaz. fl.," M 147428, M 0147429, MEL 2324397 ["Laurus riparia," herbarium name, "Para"], MEL 2324398 ["Laurus riparia Mart.," herbarium name, "Para"], S [R-7276]).

Further synonyms in Kurz (2000).

13. *Licaria crassifolia* (Poir.) P.L.R. Moraes, Komarovia 6(1): 55. 2008. Specimen: BRAZIL. Amazonas, “in sylvis ad Coari,” November 1819, sterile, *C. F. P. von Martius s.n.* (GZU 000256425 [annotated by Nees; leaf fragment], M 0147426) [Syntype of *Nectandra nitidula* Nees & Mart. var. *maior* Nees, Syst. Laur.: 313. 1836].

Basionym: *Laurus crassifolia* Poir. in Lam. Encycl., Suppl. 3: 323. 1813. Lectotype (designated by Moraes, 2008: 55): FRENCH GUIANA. “Caienne”, 1791, fr., *L. C. M. Richard s.n.* (P 00128465 [ex Herb. Poirer]; Isolectotypes, P 00128463 [ex Herb. Richard], P 00128464 [ex Herb. E. Drake], P-JU 00662838 [Cat. No. 1226]).

Synonyms: *Aydendron cannella* Meisn. in DC., Prodr. 15(1): 90. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 180. 1866 = *Acroclididium cannella* (Meisn.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 90. 1889; Kostermans, Recueil Trav. Bot. Néerl. 33: 728. 1936 = *Licaria cannella* (Meisn.) Kosterm., Recueil Trav. Bot. Néerl. 34: 583. 1937; Kurz, Mitt. Inst. Allg. Bot. Hamburg 28/29: 121. 2000 = *Misanteca cannella* (Meisn.) Lundell, Wrightia 4(3): 99. 1969. TYPE: FRENCH GUIANA. Acarouany, August 1858, fl., *P. A. Sagot 1190* (Holotype: G-DC; Isotypes, B⁺ [F neg. 3837], BM 000993917, K 000602022, NY 00354870, P 00128461, P 00128462, U 0002746, W n.v.).

Aydendron cayennense Meisn. in DC., Prodr. 15(1): 95. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 186. 1866 = *Acroclididium cayennense* (Meisn.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 91. 1889; Kostermans, Recueil Trav. Bot. Néerl. 33: 730. 1936 = *Licaria cayennensis* (Meisn.) Kosterm., Recueil Trav. Bot. Néerl. 34: 583. 1937 = *Misanteca cayennensis* (Meisn.) Lundell, Wrightia 4(3): 99. 1969. TYPE: FRENCH GUIANA. Caiena, s.d., fr., *J.-B. Patris 41* (Holotype: G-DC [F neg. 7288]; Isotypes, B⁺, G, L 0036456, NY 00354869, P).

14. *Licaria polyphylla* (Nees) Kosterm., Recueil Trav. Bot. Néerl. 34: 584. 1937; Kurz, Mitt. Inst. Allg. Bot. Hamburg 28/29: 167. 2000 = *Misanteca polyphylla* (Nees) Lundell, Wrightia 4(3): 101. 1969.

Basionym: *Nectandra polyphylla* Nees, Syst. Laur.: 332. 1836; Meissner in DC., Prodr. 15(1): 160. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 270. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 97. 1889. TYPE: BRAZIL. Amazonas, Coari, “in sylvis ad Coari,” November 1819, sterile, *C. F. P. von Martius s.n.* (Holotype: M 0147422; Isotype, GZU 000254280).

Synonyms: *Acroclididium guianense* Nees var. *caudatum* Meisn. in DC., Prodr. 15(1): 85. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 173. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 98. 1889; Kostermans, Recueil Trav. Bot. Néerl. 33: 734. 1936 = *Acroclididium meissneri* Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 98. 1889. Lectotype (designated by Kostermans, 1936: 738): VENEZUELA. Amazonas, “prope San Carlos, ad Rio Negro,” August 1853, *R. Spruce 3058* (K 000602019;

Isolectotypes, B⁺ [F neg. 3841], BM 000947197, BR 0000008812810, C 10013587, E 00259391, F [0061307F], G 00368869, G 00368870, G-DC, GH 00041577, GOET 004500, K 000602020, LE 00000141, NY 00354749, NY 00354750, P 00757118, P 00757119, P 00757120, S [S-R-7278], U, W n.v.).

Further synonyms in Kurz (2000).

15. *Licaria puchury-major* (Mart.) Kosterm., Recueil Trav. Bot. Néerl. 34: 583. 1937; Kurz, Mitt. Inst. Allg. Bot. Hamburg 28/29: 126. 2000; Moraes, Harvard Pap. Bot. 17(1): 198. 2012 = *Nectandra puchury-major* (Mart.) Nees & Mart. in Nees, Syst. Laur.: 328. 1836; Martius, Syst. Mat. Med. Bras.: 109–110. 1843; *ibid.* in Fl. Bras. 5(2): 317. 1868; Meissner in DC., Prodr. 15(1): 156. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 265, t. 95. 1866 = *Acroclididium puchury-major* (Mart.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 88. 1889; Kostermans, Recueil Trav. Bot. Néerl. 33: 727. 1936 = *Misanteca puchury-major* (Mart.) Lundell, Wrightia 4: 101. 1969.

Basionym: *Ocotea puchury-major* Mart. in Buchner, Repert. Pharm. 35: 171. 1830. TYPE: BRAZIL. Amazonas, “in sylvis ad Tabatinga,” December 1819, fr., *C. F. P. von Martius s.n.* (Holotype: M 0147421 [F neg. 19259]; Isotypes, B⁺, BR 0000008812841, G 00368872, GZU 000254328, L 0036458 [“*Laurus Pichurim vera*,” herbarium name, “Rio Negro”; ex Herbarium Reinwardtianum]). Probable isotypes: M 0147419, M 0147420.

For a complete list of synonyms, see Kurz (2000).

Vernacular names: “*Fabas Pechurim v. Puchury*” (Martius, 1868).

16. *Nectandra acuminata* (Nees & Mart.) J.F. Macbr., Publ. Field Mus. Nat. Hist., Bot. Ser., 11(1): 19. 1931; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 49. 1986; *ibid.* in Fl. Neotrop. Monogr. 60: 270. 1993.

Basionym: *Persea acuminata* Nees & Mart. in Nees, Syst. Laur.: 170. 1836; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 409. 1889 [as synonym of *Nectandra acutifolia* (Ruiz & Pav.) Mez]. TYPE: BRAZIL. Amazonas, Rio Japurá, “in sylvis ad fl. Japurá,” December 1819, monstr. fr., *C. F. P. von Martius s.n.* (Holotype: M 0147319) [also syntype of *Nectandra berchemiifolia* Meisn. in DC., Prodr. 15(1): 154. 1864, as “*berchemiaefolia*”; *ibid.* in Martius, Fl. Bras. 5(2): 262. 1866; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 50. 1986; *ibid.* in Fl. Neotrop. Monogr. 60: 267. 1993].

17. *Nectandra amazonum* Nees, Syst. Laur.: 282. 1836; Meissner in DC., Prodr. 15(1): 150. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 256, t. 92. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 420. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 49. 1986; *ibid.* in Fl. Neotrop. Monogr. 60: 236. 1993; Moraes, Pl. Ecol. Evol. 146(3): 369. 2013. Lectotype (designated by Rohwer, 1986: 49, as “Holotyp M”): BRAZIL. Pará, “in fluminis Amazonum omni ripa a Pará,

ad Tabatinga,” September–October 1819, fr., *C. F. P. von Martius s.n.* (M 0147314; Isolectotype, GZU 000254251). Syntypes: BRAZIL. Pará, fl., *C. F. P. von Martius s.n.* (B 10 0185108, G, GZU 000254252, L 0037115 [“*Laurus amazonum* M / secus totum fl. Amazon.,” herbarium name], M 0147315, M 0147316, M 0147317, M 0147318, MEL 2324402 [“*Laurus amazonum*,” herbarium name, “Para”], U 0002889 [fragment]).

Synonymy in Rohwer (1993).

18. *Nectandra canescens* Nees & Mart. in Nees, *Linnaea* 8: 47. 1836; *ibid.* in *Syst. Laur.*: 280. 1836; *ibid.* in *Linnaea* 21: 501. 1848; Meissner in DC., *Prodr.* 15(1): 147. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 251. 1866; Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 408. 1889; Rohwer, *Mitt. Inst. Allg. Bot. Hamburg* 20: 51. 1986; *ibid.* in *Fl. Neotrop. Monogr.* 60: 274. 1993; Moraes, *Komarovia* 6(1): 23. 2008; *ibid.* in *Harvard Pap. Bot.* 17(1): 199. 2012; *ibid.* in *Pl. Ecol. Evol.* 146(3): 369. 2013. Lectotype (designated by Rohwer, 1993: 274): BRAZIL. Pará, “in sylvis secus fl. Amazonum, Provinciae Paraënsis et RN,” 20 October 1819, fl., immat. fr., *C. F. P. von Martius Martius Obs.* 2750: “*Pomatium canescens* ... arbor 15–20 ped. ... In silvis ad marginem fl. Amazonum” (M 0112453 [annotated by Martius as “*Persea canescens*,” and by Nees as “*Pomatium canescens*,” herbarium names]; Isolectotypes, GZU 000254254 [annotated by Nees as “*Pomatium canescens* M. / in sylvis secus flumen Amazonum Provinciae Paraënsis. Sept. et Oct.; in sylv. Ad fluv. Madeiram Prov. Flumini Nigri Aprili / a Martius”], M 0112458, M 0112459). Specimen: BRAZIL. Amazonas, “in sylvis ad fluv. Madeira,” April 1820, sterile, *C. F. P. von Martius s.n.* (B 10 0185095 [F neg. 3750]).

Synonymy in Rohwer (1993) and Moraes (2012a).

The other syntype of *Nectandra canescens* Nees & Mart. is the gathering by “*Sellow B 433 c 410*,” which is the type of *Nectandra rigida* (Kunth) Nees var. *canescens* Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 407. 1889. According to Rohwer (1993: 288), although *N. rigida* var. *canescens* is based on the Sellow syntype of *N. canescens* Nees & Mart., it has to be treated as a new variety and not as a combination based on *N. canescens*, because Mez accepted *Nectandra canescens* in the sense of its Martius syntype in the same publication.

19. *Nectandra cuspidata* Nees & Mart. in Nees, *Syst. Laur.*: 330. 1836; Meissner in DC., *Prodr.* 15(1): 159. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 268, t. 97. 1866; Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 449. 1889; Rohwer, *Fl. Neotrop. Monogr.* 60: 100. 1993 = *Nectandra membranacea* (Sw.) Griseb. ssp. *cuspidata* (Nees & Mart.) Rohwer, *Mitt. Inst. Allg. Bot. Hamburg* 20: 72. 1986; Moraes, *Pl. Ecol. Evol.* 146(3): 369. 2013. Lectotype (designated by Rohwer, 1993: 100): BRAZIL. Amazonas, Tefé, “in ripa fluminis Amazonum, praesertim ad villam Ega,” January 1820, fl., fr., *C. F. P. von Martius s.n.* (M 0147303; Isolectotypes, B 10 0086138, GZU 000254262, L 0037121, L 0037122 [“*Laurus cuspidata* M. / R. Amazon.,” herbarium name], L 1802480 [“*Laurus egensis* Mart.,” herbarium name, “Prov.

Rio Negro”], M 0147304). Syntypes: BRAZIL. Amazonas, Rio Japurá, “in sylvis Japurensibus,” January 1820, fl., fr., *C. F. P. von Martius s.n.* (GZU 000254262, M 0147302, M 0147306); BRAZIL. Amazonas/Pará, “in sylvis secus fluv. Maué et Amazonum,” September 1819, immat. fr., *C. F. P. von Martius s.n.* (GZU 000254261, M 0147305).

Synonymy in Rohwer (1993).

“*Martius Obs.* 2721 *Ocotea*”, which has not been annotated in any specimen in Munich, most likely refers to this species.

20. *Nectandra hihua* (Ruiz & Pav.) Rohwer, *Fl. Neotrop. Monogr.* 60: 196. 1993 = *Nectandra leucantha* Nees var. *peruviana* Meisn. in DC., *Prodr.* 15(1): 151. 1864.

Basionym: *Laurus hihua* Ruiz & Pav., *Fl. Peruv.* 4(2): t. 366. 1804[–1830] (Ruiz and Pavón, 1956: 33, t. 366). TYPE: ECUADOR. Guayas, “in Huayaquilensibus nemoribus,” 1799, *J. Tafalla s.n.* (Holotype: MA 811751; Isotypes, B 10 0185060, F [0040309F; fragment], FI-W 005165, G 00369022, MA 811752).

Synonyms: *Nectandra lucida* Nees, *Syst. Laur.*: 334. 1836, non *ibid.* p. 295, non 1833, *hom. post.* = *Nectandra schomburgkii* Meisn. in DC., *Prodr.* 15(1): 151. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 258. 1866. Lectotype (designated by Mez, 1889: 429): BRAZIL. Amazonas, “ad flumen Japurá,” December 1819, fr., *C. F. P. von Martius s.n.* (M 0121041 [“*Ocotea lucida* Mart.,” herbarium name]; Isolectotype, GZU 000249367). Syntype: BRAZIL. Amazonas, “in sylvis Japurensibus,” February 1820, fl., *C. F. P. von Martius s.n.* (M 0147294).

Complete synonymy in Rohwer (1993).

21. *Nectandra japurensis* Nees & Mart. in Nees, *Syst. Laur.*: 335. 1836; Meissner in DC., *Prodr.* 15(1): 163. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 274, t. 99. 1866; Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 440. 1889; Rohwer, *Mitt. Inst. Allg. Bot. Hamburg* 20: 65. 1986; *ibid.* in *Fl. Neotrop. Monogr.* 60: 125. 1993. Lectotype (designated by Rohwer, 1993: 125): BRAZIL. Amazonas, “in sylvis Japurensibus ad Maripi, S. Joh. Princ. cet. Provinciae Fluminis nigri Brasiliae,” December–January 1819/1820, fl., *C. F. P. von Martius s.n.* (M 0147292; Isolectotypes, B 10 0185058 [Mus. Bot. Berol. Film Nr. 1232/13; NY neg. 8343], B 10 0185059, GZU 000254272, HBG [fragment], L 0037128 [“*Laurus japurensis* M. / R. Negro,” herbarium name; ex Herbarium Reinwardtianum], M 0147293).

Synonymy in Rohwer (1993).

22. *Nectandra leucantha* Nees & Mart. in Nees, *Linnaea* 8: 48. 1833; *ibid.* in *Syst. Laur.*: 310. 1836; Meissner in DC., *Prodr.* 15(1): 150. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 257. 1866; Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 431. 1889; Rohwer, *Mitt. Inst. Allg. Bot. Hamburg* 20: 52. 1986; *ibid.* in *Fl. Neotrop. Monogr.* 60: 201. 1993; Moraes, *Komarovia* 6(1): 19. 2008 = “*Persea leucantha* Mart., *nom. nud.* Lectotype (designated by Rohwer, 1993: 201): BRAZIL. Loco haud indicato, s.d., fl., *F. Sellow s.n.* (B 10

0185048 [B neg. 6873]). Syntypes: BRAZIL. Minas Gerais, "In campos Tabuleiro ad Salgado," August 1818, fl., *C. F. P. von Martius Obs. 1704*: "arbor 15–20 ped. ... In campis locis Tabuleiro consitis" (GZU 000254273 [annotated by Nees; *Anonymous s.n.*], M 0111058) [= *Nectandra hihua* (Ruiz & Pav.) Rohwer, Fl. Neotrop. Monogr. 60: 196. 1993]). Specimen: BRAZIL. Bahia, "m. ad. V. do Rio de Contas interionis," October–November 1818, fl., *C. F. P. von Martius Obs. 1704* (GZU 000254273 [*Anonymous s.n.*], M 0111057).

Synonymy in Rohwer (1993).

23. *Nectandra membranacea* (Sw.) Griseb., Fl. Brit. W. I. 282. 1860; Meissner in DC., Prodr. 15(1): 161. 1864; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 450. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 70. 1986; *ibid.* in Fl. Neotrop. Monogr. 60: 94. 1993 = *Persea membranacea* (Sw.) Spreng., Syst. Veg. (ed. 16) 2: 270. 1825 = *Phoebe membranacea* (Sw.) Nees, Syst. Laur.: 118. 1836 = *Ocotea membranacea* (Sw.) R.A. Howard, J. Arnold Arbor. 62: 59. 1981.

Basionym: *Laurus membranacea* Sw., Prodr. 65. 1788. TYPE: JAMAICA. Loco haud indicato, s.d., fl., *O. P. Swartz s.n.* (Holotype: S [R-3166; NY neg. 8559]; Isotypes, BM 000758874, S [09-16300]). Specimen: "Ex India occidentalis", s.d., fl., *O. P. Swartz s.n.* (SBT 11582).

Synonym: *Nectandra cuspidata* Nees & Mart. var. *macrocarpa* Nees, Syst. Laur.: 331. 1836. TYPE: BRAZIL. Rio de Janeiro, "in sylvis caeduis," October 1817, fr., *C. F. P. von Martius s.n.* (Holotype: M 0147307).

Complete synonymy in Rohwer (1993).

24. *Nectandra nitidula* Nees & Mart. in Nees, Linnaea 8: 48. 1833; *ibid.* in Syst. Laur.: 313. 1836; Meissner in DC., Prodr. 15(1): 160. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 271, t. 98. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 436. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 57. 1986; *ibid.* in Fl. Neotrop. Monogr. 60: 180. 1993; Moraes, Komarovia 6(1): 20. 2008; *ibid.* in Harvard Pap. Bot. 17(1): 200. 2012; *ibid.* in Pl. Ecol. Evol. 146(3): 369. 2013 = *Nectandra nitidula* Nees & Mart. var. *minor* Nees, Syst. Laur.: 313. 1836, *nom. illegit. superfl.*, = var. *nitidula*. Lectotype (designated by Rohwer, 1993: 180): BRAZIL. São Paulo, "in campis prope Taubaté," December 1817, fr., *C. F. P. von Martius Obs. 546*: "arbor 20 ped. cal. viridis" (M 0111064). Other syntypes: BRAZIL. São Paulo, 1829, fl., *F. Sellow 28* (B 10 0185228 [B neg. 1581/3, NY neg. 8319]); BRAZIL. Loco haud indicato, s.d., fl., *F. Sellow s.n.* (B 10 0185227 [B neg. 5197]). Probable syntypes: BRAZIL. Loco haud indicato, s.d., fl., *F. Sellow s.n.* (B 10 0185226 [ex Herb. Baschant]); *idem*, s.d., fl., *F. Sellow s.n.* (BR 0000008808479, E 00259309); *idem*, s.d., fl., *F. Sellow s.n.* (CGE); *idem*, s.d., fl., *Anonymous s.n.* (GZU 000259200 [annotated by Nees]).

Synonyms: *Nectandra nitidula* Nees & Mart. var. *maior* Nees, Syst. Laur.: 313. 1836; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 57. 1986; *ibid.* in Fl. Neotrop.

Monogr. 60: 181. 1993; Moraes, Komarovia 6(1): 20. 2008; *ibid.* in Harvard Pap. Bot. 17(1): 200. 2012; *ibid.* in Pl. Ecol. Evol. 146(3): 369. 2013. LECTOTYPE (designated here): BRAZIL. Minas Gerais, Serro, "in montosis Serro frio Provinciae Minarum generalium," May 1818, fl., *C. F. P. von Martius s.n.* (M 0111060 [annotated by Nees]; Isolectotype, GZU 000249360 [annotated by Nees with "*Nectandra nitidula*, nondum florens / *Petalanthera paniculigera* N. ab Es. / Minas Geraes"]). Syntypes: BRAZIL. Minas Gerais, Diamantina, "in campis, Tabuleiro, terrae Adamantin. Prope Tejuco," June 1818, fr., *C. F. P. von Martius s.n.* (GZU 000256425 [annotated by Nees; fragment; *Anonymous s.n.*], M 0111063 [annotated by Nees]); BRAZIL. Bahia, "in sylvis Catingas locis editoribus deserto Min. Nov.," October 1818, fl., *C. F. P. von Martius s.n.* (GZU 000249359 [annotated by Nees], M 0111061 [F neg. 6590; annotated by Martius as "*Persea paniculigera*," herbarium name]); BRAZIL. Paraná, fl., *F. Sellow 4495* (B 10 0088601 [B neg. 1581/5, NY neg. 8321; *mixtum compositum*, only the flower fragment]); BRAZIL. Loco haud indicato, s.d., fl., *F. Sellow 1368** (B[†], L 0037147); BRAZIL. Santa Catarina, "Insula S. Catharinae," s.d., fl., *J. Tweedie s.n.* (E 00259433, GZU 000249358 [ex Herb. Arnott., annotated by Nees as "*Nectandra nitidula* Var. α;," *Anonymous s.n.*]) [= *Nectandra megapotamica* (Spreng.) Mez, Bull. Herb. Boissier, Sér. 2, 2: 824. 1902]. Specimens: BRAZIL. Minas Gerais, August 1839, *P. Claussen* in *Martii Herbar. Florae Brasil. N° 1239* [as 1293 in Mez, 1892] (AWH 28295, BM 000947260, G, G-DC, JE 00004387 [*Anonymous 1239*], K [not located], L 0037144, L 0037145, L 0037146, LE 00006796, LE, M 0111059, M 0111062, MO 247468, NY 00355481, OXF 00083028, P 00711051) = *Claussen 106* [BR 0000008808240], *Claussen 107* [BR 0000008807946], *Claussen s.n.* [BR 0000008808271; attributed to *Riedel*]).

Nectandra sarcocalyx Nees, Syst. Laur.: 338. 1836; Meissner in DC., Prodr. 15(1): 167. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 278. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 436. 1889. TYPE: BRAZIL. Bahia, "in alpestribus campis ad V^a. Do Rio das Contas et Sincorâ," October 1818, fr. monstr., *C. F. P. von Martius s.n.* (Holotype: M 0111065 [annotated by Martius as "[*Laurus*] *Persea sarcocalyx*," herbarium name]; Isotype, GZU 000254287 [annotated by Nees; fragment]).

Further synonymy in Rohwer (1993), and Moraes (2012a).

Rohwer (1993: 181) designated the collection *Martii Herbar. Florae Brasil. N° 1239* as the lectotype of *Nectandra nitidula* Nees & Mart. var. *maior* Nees. However, this collection refers to a gathering undertaken by Peter Claussen in Cachoeira do Campo, Minas Gerais, in August 1839, which therefore is not an original material for the lectotypification of the variety named by Nees von Esenbeck.

25. *Nectandra oppositifolia* Nees & Mart. in Nees, *Linnaea* 8: 47. 1833; *ibid.* in Syst. Laur.: 279. 1836; Meissner in DC., *Prodr.* 15(1): 146. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 250. 1866; Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 406. 1889; Rohwer, *Fl. Neotrop. Monogr.* 60: 286. 1993; Moraes, *Komarovia* 6(1): 22. 2008; *ibid.* in Harvard Pap. Bot. 17(1): 201. 2012; *ibid.* in Pl. Ecol. Evol. 146(3): 369. 2013 = *Nectandra oppositifolia* Nees & Mart. var. *angustifolia* Nees & Mart. in Nees, *Linnaea* 8: 47. 1833, *nom. illegit. superfl.*, = var. *oppositifolia* = *Nectandra mollis* (Kunth) Nees ssp. *oppositifolia* (Nees & Mart.) Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 61. 1986. Lectotype (designated by Rohwer, 1993: 286): BRAZIL. São Paulo, fl., *F. Sellow* 5722 (B 10 0185222 [NY neg. 8327; annotated by Mez as “*Nectandra oppositifolia* Nees fa. intermedia,” *nom. nud.*]; Isolectotypes, B 10 0185221 [ex Herb. Kunth], BM 000895363, G-DC 00130422, K 000512726, VT 001549). Other syntypes: BRAZIL. “Brasília orientalis”, fl., *F. Sellow* LVI (BR 0000008808226); BRAZIL. Santa Catarina, fl., *F. Sellow* 4428 (B 10 0185220). Probable syntypes: BRAZIL. Loco haud indicato, fl., *F. Sellow* s.n. (GZU 000249356, HAL 0010385 [both with labels by Schlechtendal annotated as “*Pomatium oppositifolium*”]); *idem*, fl., *F. Sellow* s.n. (GZU 000249357 [annotated by Nees as “*Pomatium oppositifolium*”]). Specimens: BRAZIL. Loco haud indicato, sterile., *F. Sellow* s.n. (B 10 0185172); *idem*, fl., *F. Sellow* s.n. (B 10 0185175); BRAZIL. São Paulo, Iperó, “in sylvis primaevae ad Ypanema,” January 1818, sterile, *C. F. P. von Martius* s.n. (M 0121029); BRAZIL. Minas Gerais, “in sylv. abor. ad fl. Doce,” 1818, fl., *C. F. P. von Martius* s.n. (M 0121027).

Synonym: *Nectandra schottii* Meisn. in DC., *Prodr.* 15(1): 147. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 252. 1866; Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 407. 1889 = ‘*Nectandra acutissima* Nees ex Meisn.’ in DC., *Prodr.* 15(1): 147. 1864, *nom. invalid.* Lectotype (designated by Rohwer, 1993: 286): BRAZIL. Rio de Janeiro, “prope Cantagallo,” s.d., *H. W. Schott* 5607 (M). Syntype: BRAZIL. Rio de Janeiro, “in sylvis caeduis ad Sebastianopolin,” December 1817, fr., *C. F. P. von Martius* s.n. (GZU 000249322, M 0121030).

Further synonyms and detailed information in Rohwer (1993) and Moraes (2008).

26. *Nectandra psammophila* Nees & Mart. in Nees, Syst. Laur.: 303. 1836; Meissner in DC., *Prodr.* 15(1): 161. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 272. 1866; Mez, *Jahrb. Königl. Bot. Gart. Berlin* 5: 434. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 68. 1986; *ibid.* in Fl. Neotrop. Monogr. 60: 160. 1993; Moraes, Harvard Pap. Bot. 17(1): 201. 2012; *ibid.* in Scripta Bot. Belg. 49: 120. 2013. Lectotype (designated by Rohwer, 1993: 160): BRAZIL. Espírito Santo, Vila Velha, “Barra de Jucu,” March 1816 [sic; December 1815], fl., *M. A. P., Prinz zu Wied* s.n. (BR 0000008808066; Isolectotypes, B 10 0185169 [F neg. 3763], BR 0000008808363, GOET 000753, GZU 000254281, MEL 2324403 [“*Laurus amoena* Mart.” herbarium name], MEL 2324386). Probable isolectotypes: BRAZIL.

[Bahia], with label “Ad fl. Ilheos,” s.d., fl., *Anonymous* s.n. [“Communic. Martius 1827”] (K 000642237; “*Laurus amoena* Mart.” herbarium name); *idem*, [Bahia], with label “In sylvis prope Rio das Contas,” s.d., fl., *Anonymous* s.n. [“Communic. Martius 1827”] (K 000642238; “*Laurus saporosa* Mart.” herbarium name). Syntype: BRAZIL. Rio de Janeiro/São Paulo, “in sylvis subalpinis alt. 1500 pedum supra Serra do Mar”, December 1817, immat. fr., *C. F. P. von Martius* Obs. 411: “Arbor 30 ped. Flores in racemis 6–8. In alpinis alt. 1500” (GZU 000260031, M 0121034). Specimen: BRAZIL. São Paulo, Iperó, “in sylv. primaevae ad Ypanema,” January 1817, sterile, *C. F. P. von Martius* s.n. (M 0121033 [annotated by Rohwer as “probabiliter *Nectandra* aff. *psammophila* Nees vel *N. megapota mica* (Spr.) Mez”]).

Further synonymy in Rohwer (1993).

Specimens at K 000642237 and K 000642238 have *Herbarium Martii* labels, typically printed with “*Communic.182...*” and handwritten with “*Martius*” and “7” (i.e. “*Communicavit Martius 1827*”). Moraes et al. (2013), and in subsequent papers, have reported part of the sets of Brazilian plants that Martius distributed in 1827 to several European herbaria and correspondents, particularly concerning the sets received by Luigi Colla and published in *Herbarium Pedemontanum*. In those papers, it has been demonstrated that most of the specimens communicated by Martius in 1827 came from collections of Prince Maximilian zu Wied, from evidence of the localities (toponyms) indicated on labels, being the same as those visited by Wied in Brazil, and from matching of the specimens distributed by Martius with those that are clearly attributed to Wied. In the present case, the specimen at K 000642237 closely matches Wied collections at BR and MEL, while the one at K 000642238 closely matches the collections at B, GOET, and GZU. Collections from Ilhéus and Rio de Contas can be attributed either to Martius or to Wied, since both visited these localities.

27. *Nectandra puberula* (Schott) Nees, Syst. Laur.: 332. 1836; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 58. 1986; *ibid.* in Fl. Neotrop. Monogr. 60: 220. 1993; Moraes, Harvard Pap. Bot. 17(1): 202. 2012.

Basionym: *Persea puberula* Schott in Sprengel, Syst. Veg. (ed. 16) 4(2): 405. 1827. TYPE: BRAZIL. Rio de Janeiro, loco haud indicato, s.d., *H. W. Schott* s.n. (Holotype: B 10 0185167 [B neg. 5200, ex Herb. Sprengel nr. 40]; Isotypes, GZU 000254414, and probably P 00711066, P 00711067).

Synonym: *Nectandra amara* Meisn. var. *chartacea* Meisn. in DC., *Prodr.* 15(1): 158. 1864; *ibid.* in Martius, *Fl. Bras.* 5(2): 267. 1866. Lectotype (designated by Rohwer, 1993: 221): BRAZIL. Rio de Janeiro, “São Cristóvão,” s.d., *H. W. Schott* 5609 (G 00369012; Isolectotypes, F [0061480F], F [0061481F; fragment], LE, US 00048566, US 00997590). Syntypes: BRAZIL. Rio de Janeiro, “in sylvaticis collibusque umbrosis circa Rio de Janeiro,” May–July 1832, *L. Riedel* 480 (B 10 0185163 & GOET [2 sheets; *Riedel* s.n.; annotated

as “*Nectandra amara* β . *subevenia* Meissn.”], C, G 00368979, K 000576215, K 000576216 [as *Riedel s.n.*], L 0037068, LE, MEL 2324391, MICH 1104567, MICH 1104568, NY 00355407, NY 00355408, NY 00355409, P 00711053, P 00711054, US 00288970, W n.v.); BRAZIL. Rio de Janeiro, “Campos ad St. João et Cabo Frio,” October 1833, fl., *B. Luschnath s.n.* in *Martii Herbar. Florae Brasil. N° 1307* (BR 0000008810496); BRAZIL. Mato Grosso, Cuiabá, 1836, fl., *A. L. P. da Silva Manso s.n.* in *Martii Herbar. Florae Brasil. N° 1307* (BR 0000008810878, G-DC, LE, M 0121045, MICH 11104567, NY 00355406, P 00711056); BRAZIL. Loco haud indicato, s.d., fl., *P. Claussen 47* (B 10 0185166, KIEL); BRAZIL. Loco haud indicato, s.d., fl., *P. Claussen 78* (B 10 0185165, KIEL); BRAZIL. Minas Gerais, loco haud indicato, s.d., fl., *P. Claussen 2078* (F [0061484F; fragment], G 00368980, G 00368981, G 00369008, MO 247433, P 00711064, P 00711065); BRAZIL. Rio de Janeiro, “Près le Jardin bot. de Rio de Janeiro,” March 1839, fl., *J. B. A. Guillemain 667* (F [0061482F], F [0061483F], G 00368978, G-DC, P 00711057, P 00711058, P 00711059).

For a complete list of synonyms, see Rohwer (1993).

Specimen at BR 0000008810526 bears a label annotated anonymously as “*Nectandra canescens* Nees / *Brasilia Martius*,” being identified by Kostermans in 1935 as “*Nectandra puberula* Nees”.

28. *Nectandra purpurea* (Ruiz & Pav.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 443. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 77. 1986; *ibid.* in *Fl. Neotrop. Monogr.* 60: 46. 1993; Moraes, Harvard Pap. Bot. 17(1): 202. 2012.

Basionym: *Laurus purpurea* Ruiz & Pav., Fl. Peruv. 4(2): t. 351. 1804[–1830] (Ruiz and Pavón, 1956: 17, t. 351). Lectotype (designated by Bernardi, 1967: 60, as “specimine holotypico herbarii berolinensis addicto”); PERU. Huánuco, “in Andium nemoribus ad Cuchero et Chinchao,” 1778, *H. Ruiz L. & J. A. Pavón s.n.* (B 10 0185160 [B neg. 1232/25]; Isolectotypes, BM 000947299, F [0040316F; #13/25 ex MA 811806], G 00369268 [F neg. 27609], MA 811806, OXF 00000255); Icon: *Laurographia* t. 7 (G [F neg. 34254]).

Synonyms: *Ocotea latifolia* Kunth in Humboldt, Bonpland and Kunth, Nov. Gen. Sp. (quarto ed.) 2: 165. 1817 = *Nectandra latifolia* (Kunth) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 454. 1889. TYPE: COLOMBIA. Cundinamarca, “in alta planitie Bogotensi,” s.d., *F. W. H. A. von Humboldt & A. J. A. Bonpland s.n.* (Holotype: P 00128755).

Nectandra polita Nees & Mart. in Nees, Syst. Laur.: 325. 1836; Meissner in DC., Prodr. 15(1): 163. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 275. 1866. TYPE: BRAZIL. Bahia, Cachoeira, “in sylvis Capões ad Villa da Caxoeira,” November 1818, *C. F. P. von Martius s.n.* (Holotype: M 0121031 [F neg. 19268]; Isotype, GZU 000249355). Specimens: BRAZIL.

Bahia, Ilhéus, “in collib. pr. Ilheos,” May 1821, fl., *L. Riedel 307* (GOET, K 000642337, L 1802307 [as *Riedel s.n.*], LE [2 sheets], NY 00887019); *idem*, April 1837, fl., *B. Luschnath s.n.* in *Martii Herbar. Florae Brasil. N° 420* (B 10 0185159, BM 000947255, BR 0000008810489, BR 0000008810519, G, G-DC, GZU 000249354 [fragment], K 000642336, L 0037070, LE 00006797, LE, M 0121032, MO 247434, NY 00355493, P 00711025); *idem*, 1836, *B. Luschnath s.n.* (BR 0000008808042).

Further synonyms in Rohwer (1993), and further information on the priority of Ruiz and Pavón’s name over Kunth’s name in Moraes (2012, 2013).

As pointed out by Moraes (2012a), Rohwer (1993) indicated that *Martii Herbar. Florae Brasil. N° 420* would probably be the same collection of *Martius s.n.*, collected in Cachoeira. However, Martius (1837–[1841]; 1841: 7) clearly indicated “420. *Oreodaphne dispersa* Nees ab Esenb. Laur. 427 var. *grandifolia* ? ipso definiente. ... In silvis ad Ilheos. Aprili. *Dryas*,” which does therefore represent a different collection gathered by Luschnath.

29. *Nectandra reticulata* (Ruiz & Pav.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 404. 1889; Rohwer, Fl. Neotrop. Monogr. 201: 276. 1993; Moraes, Komarovia 6(1): 24. 2008; *ibid.* in Harvard Pap. Bot. 17(1): 203. 2012; *ibid.* in Pl. Ecol. Evol. 146(3): 370. 2013.

Basionym: *Laurus reticulata* Ruiz & Pav., Fl. Peruv. 4(2): t. 348. 1804[–1830] (Ruiz and Pavón, 1956: 14, t. 348). Lectotype (designated by Rohwer, 1993: 276, as “MA”; second-step lectotype designated by Moraes, 2008: 24); PERU. Cuchero, May[–September?] 1780, fl., *H. Ruiz L. & J. A. Pavón s.n.* (MA 811776 [with handwritten labels “*Laurus reticulata* *Laurographia Pavon et Sp. Pl. Fl. Per. / de Cuchero*” by Pavón, and “*Enneandria Monogyn. Casyta ? Laurus F P. c. L. N. 160 Ex Vitoc [Tarma]. Año 94*” by Tafalla]; Isolectotypes, F [0040293F, ex MA, ex Vitoc, fragments of leaf and flower], MA 811778 [numbered “13/19”], MA 811780 [F neg. 29398; numbered “13/19”]. Syntypes: PERU. Cuchero and Chinchao, s.d., fl., *H. Ruiz L. & J. A. Pavón s.n.* (A 00041960 [Pavón 504 ex G], B 10 0185150, BC 872724, BM 000947252, BR 0000008808370 [ex Herb. Reg. Berolinense ex Herb. Lamberti], F [0040319F; F neg. 58079], F [0040320F; F neg. 58078, with flower and fruit], FI-W n.v., G 00020756 (Pavón 504, 2 sheets), G 00020755 & G 00020758 (Pavón s.n.; 7 sheets), G (4 sheets), GZU 000261284 [fragment], HAL 0010378 [ex Herb. Reg. Berolinense ex Herb. Lamberti], MA 811777 & MA 811779 [ex Herbarium Peruvianum Ruiz et Pavon, numbered “13/20”], MA 811781 [Pavón’s label annotated as “*Laurus reticulata* / *Laurographia Pavon et Sp. Pl. Fl. Per.*”], P 00571439 [ex Herb. Pavon], P 00571440 [ex Herb. Pavon N° 36, annotated by Mez], P 00571441 [ex Herb. Reg. Berolinense ex Herb. Lamberti]; PERU. Cuchero, July, fl., *J. Dombey s.n.* (B 10 0185149, G-DC, GZU

000254296 [fragment], MA 811775 [ex Herb. Ruiz & Pavón, with Dombey's label as "Laurus pubescens. F. p. 1780/in Sylvis Cochoero," and "Enneandria monogynia.../habitat in Sylvis Cochoero, floret julio;" see Alvarez Lopez, 1956: 75, and Ruiz and Pavón, 1989], P 00745320, P 00745321, P-JU 00662847; also syntypes of *Nectandra villosa* Nees & Mart. var. *venosa* Nees, Syst. Laur.: 291. 1836). Icon: Laurographia t. 3 (G [F neg. 34250]).

Synonyms: *Ocotea mollis* Kunth in Humboldt, Bonpland and Kunth, Nov. Gen. Sp. (quarto ed.) 2: 164. 1818 = *Persea mollis* (Kunth) Spreng., Syst. Veg. (ed. 16) 2: 270. 1825 = *Nectandra mollis* (Kunth) Nees, Pl. Laur. Expos. 14. 1833; *ibid.* in Syst. Laur.: 287. 1836; Martius, Syst. Mat. Med. Bras.: 112. 1843; Meissner in DC., Prodr. 15(1): 148. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 253, t. 91. 1866; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 60. 1986. Lectotype (designated by Rohwer, 1993: 276): COLOMBIA. Tolima, "prope El Azufral in Andibus Quindiuensibus, alt. 1050 hexap., s.d., fl., F. W. H. A. von Humboldt & A. J. A. Bonpland s.n. (P 00128743; Isolectotypes, B 10 0185155 [Mus. Bot. Berol. Film Nr. 5202], B-W 07796 -01 0 [Mus. Bot. Berol. Film Nr. 657/33; "Laurus villosa Willd., herbarium name] & B-W 07796 -00 0, F [0061634F; F neg. 63073], GZU 000254324 [fragment], NY 00355629, NY 00355630, P 00128746, U 0002912, US 00028321). Specimens: BRAZIL. Rio de Janeiro, April 1836, *Martii Herbar. Florae Brasil. N°169* [= Ackermann V no. 121] (AWH 28300, BR 0000008808080, BR 0000008808387, G-DC 00147172, K 000576187, L 1802317, LE, M 0147273, M 0147274, M 0147275, M 0147276, MO 257354, OXF 00000288, STR).

Complete synonymy in Rohwer (1993) and further information in Moraes (2013).

Vernacular name: "Canella preta" (Martius, 1843).

30. *Ocotea bracteolata* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 354. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 216. 1986; Moraes, Pl. Ecol. Evol. 146(3): 372. 2013 = *Oreodaphne bracteolata* Meisn., DC., Prodr. 15(1): 124. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 220. 1866. Basionym: *Petalanthera bracteolata* Nees, Syst. Laur.: 347. 1836. Lectotype (designated by Meissner [first-step], and by Mez [second-step]): BRAZIL. Amazonas, "in sylvis aeternis Coari," November–December 1819, fl., C. F. P. von Martius s.n. (M 0147154; Isolectotypes, B 10 0185271 [F neg. 3633], GZU 000254422, HBG [fragment], M 0147155, NY 00355873 [fragment]). Syntypes: BRAZIL. Amazonas, Rio Japurá, "in sylvis Japurensibus," January–February 1820, fl., C. F. P. von Martius s.n. (GZU 000265483, M 0147153); PERU. Loreto, "in Peruvia orient. prov. Maynas pr. Yurimaguas," 1839, E. F. Poeppig 2426 (AWH 28268, B⁺ [F neg. 3702], F [0040353F], G 00369324, G 00369325, G-DC, GOET 004541, GZU 000254361, KIEL [2 sheets], NY 00355874 [fragment], OXF

00000301, P 00756760) [Lectotype of *Ocotea petalanthera* (Meisn.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 358. 1889].

Further information in Rohwer (1986) and Moraes (2013).

31. *Ocotea camphoromoea* Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 179. 1986 = '*Persea subtriplinervia* Mart. ex Nees', Syst. Laur.: 466. 1836, *nom. invalid.* = *Ocotea subtriplinervia* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 333. 1889, *nom. illegit.*

Basionym: *Camphoromoea subtriplinervia* Nees, Syst. Laur.: 466. 1836; Meissner in DC., Prodr. 15(1): 144. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 246, t. 87. 1866. TYPE: BRAZIL. Pará, "in sylvis secus Flumen Amazonum," September 1819, fl., C. F. P. von Martius s.n. (Holotype: M 0147134; Isotypes, B 10 0185426, M 0147135, M 0147136, M 0147137, M 0147138, M 0147139).

32. *Ocotea ceanothifolia* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 365. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 214. 1986 = '*Persea ceanothifolia* Mart. ex Nees', Syst. Laur.: 236. 1836, *nom. invalid.*

Basionym: *Mespilodaphne ceanothifolia* Nees, Syst. Laur.: 236. 1836; Meissner in DC., Prodr. 15(1): 106. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 199. 1866. TYPE: BRAZIL. Amazonas, "in sylvis Japurensibus ad Porto dos Miranhas," February 1820, fl., C. F. P. von Martius Obs. 3174: "Laurus ceanothifolia m. ... Arbor sive frutex ramis densis ..." (Syntypes: B 10 0185262 [F neg. 3640], G 00369362, L [2 sheets; "Laurus ceanothifolia M., herbarium name, "Japura"], M 0147148, M 0147150, NY 00355332 [fragment]); BRAZIL. Pará, "in sylvis ad Flumen Amazonum," September 1819, fl., C. F. P. von Martius Obs. 3174 (Syntypes: M 0147149, NY 00355332 [fragment]).

33. *Ocotea cernua* (Nees) Mez, Mitt. Bot. Vereins Kreis Freiburg 47/48: 422. 1888, *s. lat.*; *ibid.* in Jahrb. Königl. Bot. Gart. Berlin 5: 377. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 207. 1986; Moraes, Harvard Pap. Bot. 17(2): 247. 2012; *ibid.* in Pl. Ecol. Evol. 146(3): 371. 2013. Basionym: *Oreodaphne cernua* Nees, Syst. Laur.: 424. 1836. Lectotype (designated by Mez, 1888: 422): MARTINIQUE. Loco haud indicato, s.d., F. W. Sieber *Flora mixta. N° 385* (KR; Isolectotypes, G 00369366, G-DC 00130426 [only the flowering sheet], LE 00006768, LE [2 sheets], MEL, NY 00074413, P 01959499). Syntypes: MARTINIQUE. Loco haud indicato, s.d., F. Kohaut in F. W. Sieber *Flora martin. N° 106* (AWH 28401, B 10 0185257, B 10 0185260, B 10 0185261, BR 0000008813053, G 00369384, GH 00042066, GZU 000254342 [fragment], JE 00004386, KIEL, L 0056294, L 0056295, LE [2 sheets], M 0147144, M 0147145, MO 277515); MARTINIQUE. Loco haud indicato, s.d., J. W. Hornemann s.n. (C, GZU 000260297 [fragment]).

Synonyms: ? *Laurus nitida* Ruiz & Pav., Fl. Peruv. 4(2): t. 353. 1804[–1830] (Ruiz and Pavón, 1956: 19, t. 353) = *Mespilodaphne nitida* (Ruiz & Pav.) Meisn. in DC., Prodr. 15(1): 106. 1864. Lectotype (designated by Moraes, 2012b: 247): PERU. “in Chacahuassi,” 1787, *H. Ruiz L. & J. A. Pavón s.n.* (503 in G-Del) (MA 811788; Isolectotypes, B 10 0247502 [B neg. 5266B], BM 000947285, F [0061414F; fragment], F [0061419F; fragment], G [2 sheets], G [ex Herb. Moricand, F neg. 27619], HAL 0103800, MA 811787, NY 00355164 [ex G ex Herb. Moricand], P 00756828 [Pavón 36]). Syntype: PERU. “Cuchero,” *J. Dombey s.n.* (P 00756826, P 00756827). Icon: Laurographia t. 13 (G [F neg. 34260]).

? *Laurus leptobotra* Ruiz & Pav., Fl. Peruv. 4(2): t. 368. 1804[–1830] (Ruiz and Pavón, 1956: 35, t. 368) = *Oreodaphne leptobotra* (Ruiz & Pav.) Nees, Linnaea 21: 520. 1848; Meissner in DC., Prodr. 15(1): 138. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 239. 1866 = *Ocotea leptobotra* (Ruiz & Pav.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 376. 1889. Lectotype (designated by Moraes, 2012b: 247): PERU. “In Andium nemoribus ad Macora praedium,” s.d., *H. Ruiz L. & J. A. Pavón s.n.* (MA 811791; Isolectotypes, B 10 0247503 [B neg. 5266c], F [0061415F; fragment], F [0061416F; fragment], G, GZU 000254142 [ex B, fragment], MA 811790, NY 00355162 [ex G, fragment]). Icon: Laurographia t. 21 (G [F neg. 34268]).

? *Leptodaphne subalpina* Nees, Syst. Laur.: 361. 1836 = *Oreodaphne subalpina* (Nees) Meisn. in DC., Prodr. 15(1): 137. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 238. 1866 = *Ocotea subalpina* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 375. 1889. TYPE: BRAZIL. Bahia, Rio de Contas, “Serra Grande prope Villam do Rio de Contas,” October 1818, *C. F. P. von Martius s.n.* (Holotype: M 0147140; Isotype, GZU 000254159 [fragment]).

? *Leptodaphne tenuiflora* Nees, Syst. Laur.: 359. 1836 = ‘*Persea tenuiflora* Mart. ex Nees’, Syst. Laur.: 359. 1836, *nom. invalid.* = *Camphoromoea tenuiflora* (Nees) Meisn. in DC., Prodr. 15(1): 144. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 247. 1866 = *Ocotea tenuiflora* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 383. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 208. 1986. TYPE: BRAZIL. Rio de Janeiro, “in sylva Brasiliae densissima prope cataractas Tijuacenses ad Sebastianopolin,” November 1817, fl., *C. F. P. von Martius Obs. 261*: “*Persea tenuiflora* Calyx clavato infundibuliformis limbo 6fido ...” (Holotype: M 0111179; Isotypes, B 10 0185423, GZU 000254160 [fragment], M 0111180).

For a complete list of probable synonyms, see Rohwer (1986).

Rohwer (1986) has circumscribed *Ocotea cernua* (Nees) Mez in a very broad sense. Once confirmed that the taxa described and collected by Ruiz & Pavón in Peru are the same as the one described by Nees from collections of

Sieber “Flora Martinicensis & Mixta”, *Ocotea leptobotra* (Ruiz & Pav.) Mez must be the correct name for having priority (see Moraes, 2012b, 2013).

34. *Ocotea citrosmoides* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 349. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 174. 1986.

Basionym: *Oreodaphne citrosmoides* Nees, Syst. Laur.: 384. 1836; Meissner in DC., Prodr. 15(1): 122. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 217. 1866. TYPE: BRAZIL. Minas Gerais, Sabará, “in sylvis caeduis prope Sabará,” May 1818, fl. ♂, *C. F. P. von Martius Obs. 1223*: “Arb. parva ramio paucis patul. Flores, qui in siccis examinandi, pall. ochroleuco-~~virid~~ialbi, anth. tandem nigrescentibus. Prope Sabará” (Holotype: M 0111194; Isotypes, GZU 000254343, M 0111193).

35. *Ocotea complicata* (Meisn.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 247. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 109. 1986; Moraes, Harvard Pap. Bot. 17(2): 248. 2012.

Basionym: *Mespilodaphne complicata* Meisn. in DC., Prodr. 15(1): 103. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 199. 1866. Lectotype (designated by Assis and Mello Silva, 2010: 378): BRAZIL. Bahia, Ilhéus, “in sylv. arenosis maritimis pr. Ilheos,” May 1822, *L. Riedel 766* (G 00369363; Isolectotypes, B 10 0185255 [F neg. 3644], F [0061435F, fragment], G [as *Riedel 776*], GOET, K 000575058 [as *Riedel s.n.*], L 0036971 [as *Riedel s.n.*], LE 00000570, NY). Syntype: BRAZIL. Bahia, “in sylvis Catingas ad Sincorâ locis altis,” November 1818, fr., *C. F. P. von Martius s.n.* (M 0111195 [F neg. 19271; “*Ocotea firmula* Mart.,” herbarium name; “*Aydendron firmulum* Nees,” herbarium name], M 0111196).

As pointed out by Moraes (2012b), Assis and Mello-Silva (2010) reduced *Ocotea complicata* (Meisn.) Mez to synonymy under *O. fasciculata* (Nees) Mez, which is here reiteratively not accepted. The reason is based on differences between both taxa in habit, flower, fruit and vegetative characters, as well as in their habitats.

36. *Ocotea cujumarum* Mart. in Buchner, Repert. Pharm. 35: 178. 1830; *ibid.* in Spix and Martius, Reise Bras. 3: 1128. 1831; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 286. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 161. 1986 = *Aydendron cujumarum* (Mart.) Nees, Syst. Laur.: 247. 1836; Martius, Syst. Mat. Med. Bras.: 110. 1843; *ibid.* in Fl. Bras. 5(2): 318. 1868; Meissner in DC., Prodr. 15(1): 94. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 185, t. 66. 1866. TYPE: BRAZIL. Amazonas, “in sylvis Japurensibus et ad Ega, tum etiam in carapestribus sylvisque caeduis prope Barra do Rio negro,” December 1819, fr., *C. F. P. von Martius s.n.* (Holotype: M 0121076 [F neg. 6584]; Isotypes, B 10 0185244, M 0121077, NY 00355591 [fragment]).

Complete synonymy in Rohwer (1986).

Vernacular name: “Cujumarum” (Martius, 1843, 1868).

37. *Ocotea cymbarum* Kunth in Humboldt, Bonpland and Kunth, Nov. Gen. Sp. (quarto ed.) 2: 166. 1817 = *Nectandra cymbarum* (Kunth) Nees, Syst. Laur.: 305. 1836; Martius, Syst. Mat. Med. Bras.: 111. 1843; Meissner in DC., Prodr. 15(1): 156. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 265, t. 96. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 464. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 106. 1986; *ibid.* in Fl. Neotrop. Monogr. 60: 298. 1993; Moraes, Pl. Ecol. Evol. 146(3): 371. 2013 = *Licaria cymbarum* (Kunth) Pittier, Bol. Soc. Venez. Ci. Nat. 7: 135. 1941 = *Misanteca cymbarum* (Kunth) Lundell, Wrightia 4(3): 100. 1969. Lectotype (designated by Moraes, 2013: 371): VENEZUELA. “in sylvis Orinocensibus prope San Fernando de Atabapo,” May, fr., *F. W. H. A. von Humboldt & A. J. A. Bonpland 904* (B-W 07787 -01 0 [Mus. Bot. Berol. Film Nr. 657/28], B-W 07787 -00 0 [annotated by Willdenow as “*Laurus coruscans*” ex Bonpland, herbarium name]; Isolectotype, P 00128760).

Synonym: *Ocotea amara* Mart. in Buchner, Repert. 35: 180. 1830. TYPE: BRAZIL. Amazonas, “in sylvis aboriginibus Provinciae Fluminis nigri,” 1820, fr., *C. F. P. von Martius s.n.* (Holotype: M 0147301; Isotypes, B 10 0185242 [sterile], L 0036963 [“*Laurus longifolia* M. / Solimões”, herbarium name]).

Synonymy in Rohwer (1986: 106–107).

Vernacular name: “Páo Sassafras” (Martius, 1843).

38. *Ocotea deflexa* Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 214. 1986 = *Ocotea declinata* (Meisn.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 352. 1889, *nom. illegit.*, *hom. post.*

Basionym: *Oreodaphne declinata* Meisn. in DC., Prodr. 15(1): 114. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 208. 1866. TYPE: BRAZIL. Bahia, Ilhéus, September 1839, fl., *B. Luschnath s.n.* in *Martii Herbar. Florae Brasil. N° 1311* (Syntypes: BR [3 sheets]); BRAZIL. Bahia, loco haud indicato, “partie merid. de la prov. de Bahia,” s.d. [1840], fl., *J. S. Blanchet 3192* (Syntypes: F [0061684F], G [4 sheets], G-DC 00201332 [F neg. 7280; *Blanchet 3192A*], NY 00355707 [fragment], OXF 00000309, P 00757003, W n.v.); *idem*, July 1839, fl., *B. Luschnath 32* (Syntypes: B 10 0185239, B 10 0185240 [F neg. 3653], B 10 0185241, LE, M 0147123, M 0147124, M 0147125, M 0147126, M 0147127, NY 00355708, NY 00355709, P 00757004, US 00047713).

39. *Ocotea guianensis* Aubl., Hist. Pl. Guiane 2: 781, t. 310. 1775 [spelled “*Guyannensis*” in the plate]; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 157. 1986; Moraes, Pl. Ecol. Evol. 146(3): 371. 2013 = *Laurus ocotea* Rich., Actes Soc. Hist. Nat. Paris 1: 108. 1792, *nom. illegit.* = *Oreodaphne guianensis* (Aubl.) Nees, Linnaea 21: 268, 516. 1848 = *Oreodaphne guianensis* (Aubl.) Nees var. *argentea* Meisn. in DC., Prodr. 15(1): 112. 1864, *nom. illegit. superfl.*, = var. *guianensis*; *ibid.* in Martius, Fl. Bras. 5(2): 204. 1866. Lectotype (designated by Rohwer, 1986: 157, as “Holotyp”): FRENCH GUIANA. Loco haud indicato, April, fl., *J. B. F.*

Aublet s.n. (BM 000947302). Syntype ? : PATRIA HAUD INDICATA. Loco haud indicato, s.d. [June ?], fr., *J. B. F. Aublet s.n.* (P 00756908). Specimen: BRAZIL. Pará, loco haud indicato, May 1820, *C. F. P. von Martius s.n.* (M 0147117).

For a complete list of synonyms, see Rohwer (1986).

40. *Ocotea hypoglauc* (Nees & Mart.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 285. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 191. 1986; Moraes, Komarovia 6(1): 26. 2008 = *Persea scrobiculata* Meisn. in DC., Prodr. 15(1): 50. 1864, *nom. illegit.*; *ibid.* in Martius, Fl. Bras. 5(2): 161. 1866.

Basionym: *Persea hypoglauc* Nees & Mart. in Nees, Linnaea 8: 49. 1833. Lectotype (designated by Rohwer, 1986: 191): BRAZIL. Minas Gerais, “in summo Monte Itacolomi 4500’ alt.,” fr., *C. F. P. von Martius Obs. 903*: “arbor 10–15 ped. ... In summo Monte” (M 0111040 [annotated by Martius as “*Persea hypoglauc*”, by Meissner as “*Persea scrobiculata* nob. prodr.” and by Mez as “*Ocotea hypoglauc*”]; Isolectotype, GZU 000254394). Syntypes: BRAZIL. Paraná, fl., *F. Sellow 4803* (XXI) (B 10 0185196 [annotated by Nees], B 10 0185197, G 00020787 [as *Sellow s.n.*] [= *Persea venosa* Nees & Mart.]); BRAZIL. Loco haud indicato, fl., *F. Sellow s.n.* (B 10 0185313 [B neg. 1233/31; F neg. 3668]); *idem*, fl., *F. Sellow s.n.* (B 10 0185314 [B neg. 1233/32]).

41. *Ocotea indecora* (Schott) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 249. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 110. 1986; Moraes, Komarovia 6(1): 14. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 251. 2012 = *Oreodaphne indecora* (Schott) Nees, Syst. Laur.: 407. 1836 = *Mespilodaphne indecora* (Schott) Meisn. in DC., Prodr. 15(1): 102. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 196, t. 72. 1866 = *Ocotea pretiosa* Mez var. *indecora* (Schott) Vattimo-Gil, Rodriguésia 37: 87. 1966.

Basionym: *Persea indecora* Schott in Spreng., Syst. Veg. (ed. 16) 4(2): 405. 1827. Lectotype (designated by Moraes, 2008: 14): BRAZIL. Loco haud indicato, s.d., fl., *H. W. Schott s.n.* (B 10 0000017 [ex Herb. Sprengel no. 43, B neg. 5254 B]). Syntype: BRAZIL. Loco haud indicato, s.d., fl., *H. W. Schott 5610* (M 0121079 [F neg. 19273], M 0121080, NY, US 00099223) [also syntype of *Mespilodaphne indecora* (Schott) Meisn. var. *stricta* Meisn. in DC., Prodr. 15(1): 102. 1864]. Probable syntype: BRAZIL. Loco haud indicato, s.d., fl., *H. W. Schott 5600* (M 0121078, NY).

Synonym: ‘*Aiouea tenuiflora* Nees ex Meisn.’ in DC., Prodr. 15(1): 510. 1864, *nom. invalid.*; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 49. 1889. Specimen: BRAZIL. Rio de Janeiro, “in sylvis caeduis ad Sebastianopolin.,” September 1817, *C. F. P. von Martius s.n.* (M 0147112).

Other synonyms in Assis and Mello-Silva (2010), Moraes (2012b).

42. *Ocotea lancifolia* (Schott) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 289. 1889, *s. lat.*; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 188. 1986; Moraes, Komarovia 6(1): 34. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 254. 2012 = *Oreodaphne lancifolia* (Schott) Nees, Syst. Laur.: 410. 1836; Meissner in DC., Prodr. 15(1): 116. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 210. 1866. Specimens: BRAZIL. Minas Gerais, Serra do Caraça, May 1818, fl., *C. F. P. von Martius Obs. 1112* (M 0121035 [*"Ocotea subacris* Mart.," herbarium name]); *idem*, loco haud indicato, s.d., fl., *Anonymous s.n.* (MEL 2324399; [*"L[aurus]. dura M[art].,"* herbarium name]).

Basionym: *Persea lancifolia* Schott in Spreng., Syst. Veg. (ed. 16) 4(2): 405. 1827. TYPE: BRAZIL. Loco haud indicato, fl. ♂, *H. W. Schott s.n.* (Holotype: B 10 0000020 [B neg. 1234/1, F neg. 3675, NY neg. 8379, ex Herb. Sprengel nr. 42, annotated as "*Persea lancifolia* Schott"])).

Synonyms: *Strychnodaphne lanceolata* Nees, Linnaea 8: 39. 1833; Meissner in DC., Prodr. 15(1): 143. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 245. 1866; Moraes, Komarovia 6(1): 53. 2008 = *Ocotea lanceolata* (Nees) Nees, Syst. Laur.: 474. 1836, non Nees in Wallich (1831); Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 334. 1889. TYPE: BRAZIL. Loco haud indicato, s.d., immat fr., *F. Sellow s.n.* (Holotype: B[†] [possibly F neg. 3675, ex Herb. Sprengel]; Isotypes, GZU 000249333 [annotated by Nees, *Anonymous s.n.*], VT 001552).

Oreodaphne martiana Nees, Linnaea 8: 41. 1833, e.p., *mixtum compositum*; Meissner in DC., Prodr. 15(1): 134. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 235. 1866. Lectotype (designated by Rohwer, 1986: 189, as "Holotyp M"): BRAZIL. Minas Gerais, "in alpinis Serra do Caraça," April 1818, fl. ♀, *C. F. P. von Martius Obs. 1112*: "Frutex 4–6 ped. ramis patentibus glab. Serra de Carass." (M 0111038 [*"Ocotea daphnoides* Mart.," herbarium name]; Isolectotypes, GZU 000259998 [fragment], M 0121036, NY 00355742 [fragment]). Syntype: BRAZIL. Minas Gerais, loco haud indicato, s.d. [April], fr., *C. F. P. von Martius s.n.* (B 10 0185347, GZU 000254355 [fragment]) [= *Ocotea odorifera* (Vell.) Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 111. 1986].

Oreodaphne nitidula Nees & Mart. in Nees, Linnaea 8: 41. 1833 = *Oreodaphne nitidula* Nees & Mart. var. *lanceolata* Meisn. in DC., Prodr. 15(1): 136. 1864, *nom. invalid.* Lectotype (designated by Moraes, 2008: 53): BRAZIL. Minas Gerais, "editis Serro Frio, ad Tapanhoacanga," May 1818, fl. ♂, *C. F. P. von Martius s.n.* (M 0111039; Isolectotype: GZU 000254358).

Oreodaphne thymelaoides Nees & Mart. in Nees, Linnaea 8: 42. 1833. Lectotype (designated by Moraes, 2008: 43): BRAZIL. Minas Gerais, Serro, "in Serro Frio," May 1818, fl., *C. F. P. von Martius s.n.* (M 0111037 [annotated by Martius as "*Ocotea daphnoides*", by Nees as "*Oreodaphne angustifolia thymelaoides* N. ab. Es. / nomen mutandum ..., ob Oreod. angustifol. Schott. in Spr. Cur. post.," and by Meissner as "*Oreodaphne Martiana* Nees &

thymelaoides Meissner ipse"]; Isolectotype, GZU 000254370 [annotated by Nees as "*Oreodaphne angustifolia thymelaoides* / Serro frio, Prov. Min. / Majo"])).

Further synonyms in Rohwer (1986).

Rohwer (1986) has circumscribed *Ocotea lancifolia* in a broad sense and in such terms that it is still needed to be established whether several of the indicated synonyms really belong to this taxon (i.e., *Ocotea lancifolia*).

In the protologue of *Oreodaphne martiana*, Nees has described a species with flowers and fruits. The specimen at B 10 0185347 (annotated and cited by Mez 1889: 250–251, under *Ocotea pretiosa* Mez) bears a handwritten label by Nees with "*Oreodaphne martiana* N. et M. Var. α / Min. Ger. Apr. / a Mart." However, it is a fruiting specimen which belongs to *Ocotea odorifera* (Vell.) Rohwer, with a duplicate in GZU. Therefore, *Oreodaphne martiana* Nees must be taken only from the flowering material of Martius. Another specimen cited by Mez (1889: 250–251, under *Ocotea pretiosa* Mez), Martius "n. 79", has not been located so far.

43. *Ocotea laxa* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 381. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 211. 1986; Moraes, Komarovia 6(1): 8. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 264. 2012 = '*Persea laxa* Mart. ex Nees', Syst. Laur.: 468. 1836, *nom. invalid.*

Basionym: *Camphoromoea laxa* Nees, Syst. Laur.: 468. 1836; Meissner in DC., Prodr. 15(1): 144. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 247, t. 88, 89. 1866. Lectotype (designated by Moraes, 2008: 8): BRAZIL. Minas Gerais, "in sylvis Capoeira prope Faz. de S. Barbara et haud procul a Villa de Campanha," February 1818, fl., *C. F. P. von Martius Obs. 678*: "arbor cortice dilute cinereo. Altitude 15–20 ped. Rami laxi dependentes. In Capoeira" (M 0111035 [*"Persea laxa* Mart.," herbarium name]; Isolectotypes, B 10 0000022, GZU 000253885). Syntypes: BRAZIL. Minas Gerais e São Paulo, "in sylvis caeduis prope fluv. Sapucahy, prope Camapuão", fl., *C. F. P. von Martius s.n.* (M 0111036 [F neg. 19275]); BRAZIL. Loco haud indicato, s.d., sterile, *F. Sellow s.n.* (B 10 0000024); *idem*, s.d., sterile, *F. Sellow s.n.* (B 10 0000025); *idem*, s.d., sterile, *F. Sellow s.n.* (HAL 0010445).

44. *Ocotea longifolia* Kunth in Humboldt, Bonpland and Kunth, Nov. Gen. Sp. (quarto ed.) 2: 164. 1817; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 158. 1986; Moraes, Harvard Pap. Bot. 17(2): 254. 2012 = *Persea longifolia* (Kunth) Spreng., Syst. Veg. 2: 270. 1825 = *Oreodaphne longifolia* (Kunth) Nees, Syst. Laur.: 391. 1836. TYPE: COLOMBIA. Tolima, "in saxosis inter Mariquitam Novogranatensium et Santa Ana," June 1801, fr., *F. W. H. A. von Humboldt & A. J. A. Bonpland 1729* (Holotype: P 00128764; Isotypes, B-W 07789-01 0 [B neg. 657/26] & B-W 07789-00 0, P 00128765, P 00128766, P 00128767).

Synonyms: ? *Laurus aurantiodora* Ruiz & Pav., Fl. Peruv. 4(2): t. 349. 1804[–1830] (Ruiz and Pavón, 1956: 15, t. 349) = *Aydendron suaveolens* Nees var. β Nees,

Linnaea 21: 499. 1848, *nom. invalid.* = *Mespilodaphne aurantiadora* (Ruiz & Pav.) Meisn. in DC., Prodr. 15(1): 101. 1864 = *Ocotea aurantiadora* (Ruiz & Pav.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 295. 1889. Lectotype (designated by Moraes, 2012b: 255): PERU. “in Peruviae Andium nemoribus ad Chinchao et Cuchero,” 1794, *H. Ruiz L. & J. A. Pavón s.n.* (MA 811782; Isolectotypes, B 10 0247398 [B neg. 5215], F [0061413F; fragment], FI 005224, G, MA [2 sheets]). Icon: Laurographia t. 15 (G [F neg. 34262]).

Ocotea opifera Mart. in Buchner, Repert. 35: 179. 1830; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 291. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 158. 1986; Moraes, Harvard Pap. Bot. 17(2): 255. 2012 = *Oreodaphne opifera* (Mart.) Nees, Syst. Laur.: 390. 1836; Martius, Syst. Mat. Med. Bras.: 110. 1843 = *Mespilodaphne opifera* (Mart.) Meisn. in DC., Prodr. 15(1): 510. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 194, t. 70. 1866; Martius, Fl. Bras. 5(2): 318. 1868 = ‘*Laurus opifera* Mart. ex Meisn.’ in Martius, Fl. Bras. 5(2): 195. 1866, *nom. invalid.* Lectotype (designated by Rohwer, 1986: 158, as “Holotyp M”): BRAZIL. Amazonas, “in sylvis secus fluv. Amazonum et Rio Negro,” October 1819, fr., *C. F. P. von Martius Obs.* 2796: “Arbor 10–15 pedalis floribus in paniculis magnis terminalibus pallide flavo-ochroleucis, fructibus ellipticis in cupulis hemisphaericis. Rami angulati” (M 0121057). Syntypes: BRAZIL. Amazonas, “in sylvis ad Barra do Rio Negro,” October 1819, fr., *C. F. P. von Martius Obs.* 2796 (GZU 000254327, M 0121055); *idem*, Amazonas, “in sylvis Japurensibus” [Rio Japurá], December 1819, fl., *C. F. P. von Martius Obs.* 2796 (GZU 000254326, M 0121056, M 0174126); *idem*, Amazonas, “in sylvis Japurensibus” [Rio Japurá], January 1820, fl., *C. F. P. von Martius s.n.* (M 0121058); *idem*, Pará, “in sylvis secus fl. Amazonum,” May 1820, *C. F. P. von Martius s.n.* (B 10 0185382 [fr.], M 0121059 [fl.], M 0121061 [fl.]); *idem*, loco haud indicato, s.d., fl., *Anonymous s.n.* (B 10 0185383 [annotated by Nees]).

Further synonyms in Rohwer (1986).

Vernacular name: “Canella de cheiro” (Martius, 1843, 1868).

Mez (1889), Rohwer (1986), and van der Werff (2002b) have indicated *Ocotea longifolia* Kunth and *O. aurantiadora* (Ruiz & Pav.) Mez as probable synonyms. However, since there is no recent revision of the collections of these taxa (of specimens from Brazil, Colombia, Peru, and elsewhere), we keep here the traditional use of the first name for the Brazilian specimens, indicating the second name as a doubtful synonym. Once the synonymy is confirmed, *Ocotea aurantiadora* must be the correct name to be adopted for being the oldest one (Moraes, 2012b).

45. *Ocotea minarum* (Nees & Mart.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 305. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 148. 1986; Moraes, Komarovia 6(1): 13. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 256. 2012.

Basionym: *Gymnobalanus minarum* Nees & Mart. in Nees, Linnaea 8: 38. 1833; *ibid.* in Syst. Laur.: 480. 1836; Meissner in DC., Prodr. 15(1): 140. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 242, t. 84. 1866. Lectotype (designated by Rohwer, 1986: 148 [first-step]; second-step lectotype designated by Moraes, 2008: 12): BRAZIL. São Paulo, fl. ♀, *F. Sellow 5636* (B 10 0000037 [B neg. 5276 B]; Isolectotypes, B 10 0000036, B 10 0000038, VT). Probable isolectotypes, F [0061409F; as *Sellow s.n.*], HAL 0010433 [as *Sellow s.n.*]. Other syntypes: BRAZIL. Minas Gerais, “in sylvis ad Mariana,” April 1818, fl. ♀, *C. F. P. von Martius s.n.* (GZU 000253871, M 0111045); BRAZIL. Minas Gerais, Serro, “in sylvis capões Serro Frio,” May 1818, fl. ♀, *C. F. P. von Martius s.n.* (GZU 000253871, M 0111044); BRAZIL. São Paulo, “campis ad Ypanema et Ytu” [Real Fábrica de Ferro de São João de Ypanema, currently Floresta Nacional de Ipanema, Iperó; Itu], January 1818, fr., *C. F. P. von Martius s.n.* (GZU 000253871 [fragment], M 0111041 [“*Ocotea tubigera* Mart.”, herbarium name]).

Possible synonyms in Rohwer (1986).

46. *Ocotea neesiana* (Miq.) Kosterm., Meded. Bot. Mus. Herb. Utrecht 25: 16. 1936; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 183. 1986; Moraes, Komarovia 6(1): 32. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 257. 2012; *ibid.* in Pl. Ecol. Evol. 146(3): 372. 2013 = *Oreodaphne fallax* Miq., Stirp. Surinam. Select.: 203. 1851, *nom. illegit. superfl.* = *Ocotea fallax* Miq. ex Mez, Mitt. Bot. Vereins Kreis Freiburg 47/48: 422. 1888, *nom. illegit. superfl.*

Basionym: *Nectandra neesiana* Miq., Linnaea 18: 745. 1844. TYPE: SURINAME. “distr. Para,” February–April 1844, fl. ♂, *F. W. R. Hostmann & A. Kappler 1433* (Holotype: U 0008441; Isotypes, AWH 28263, B[†] [ex Herb. Döll, fide Mez 1888: 422; not located in KR], G 00021042, G 00021043, GOET 000744, JE 00004381, KIEL, LE, P 00571434, P 00571435, P 01964216).

Synonyms: *Oreodaphne japurensis* Meisn. in DC., Prodr. 15(1): 124. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 219. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 309. 1889 = *Oreodaphne dispersa* Nees & Mart. in Nees, Linnaea 8: 43. 1833, e.p. TYPE: BRAZIL. Amazonas, “Rio Negro, in sylvis Japurensibus,” fl. ♀, *C. F. P. von Martius s.n.* (Holotype: M 0111069; Isotypes, GZU 000254347, L [“*Laurus pauciflora* M.”, herbarium name, “R. Negro,” ex Herbarium Reinwardtianum], M 0111070, MEL 2318483 [“*Laurus pauciflora*,” herbarium name, “Para”], NY 00355728 [fragment]) [also syntype of *Oreodaphne dispersa* Nees & Mart.].

Further synonyms in Rohwer (1986) and Moraes (2008, 2012b).

The specimen at L seems slightly different from the others at GZU, M, MEL, and NY. It was identified by Kostermans in February 1935 as “*Ocotea tenuiflora* (Nees) Mez”, but definitely does not belong to it (see entry number 33, this work).

47. *Ocotea nutans* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 362. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 196. 1986; Moraes, Komarovia 6(1): 33. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 259. 2012 = *Mespilodaphne nutans* (Nees) Meisn. in DC., Prodr. 15(1): 98. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 189. 1866.

Basionym: *Oreodaphne nutans* Nees, Syst. Laur.: 421. 1836. TYPE: BRAZIL. São Paulo, "In campis Provinciae S. Pauli," January 1818, fl. ♀, *C. F. P. von Martius s.n.* (Holotype: M 0111192; Fig. 1; Isotypes, L ["*Laurus paulina* M.," herbarium name, "S. Paulo;" ex Herbarium Reinwardtianum; Fig. 2], MEL ["*L. paulina* M.," herbarium name, "St. Pauli"]).

Synonyms: *Oreodaphne nutans* Nees var. *sylvestris* Nees, Syst. Laur.: 421. 1836 = *Mespilodaphne glauca* (Nees) Meisn. var. *virescens* Meisn. in DC., Prodr. 15(1): 98. 1864, *nom. illegit.*; *ibid.* in Martius, Fl. Bras. 5(2): 188. 1866. TYPE: BRAZIL. Minas Gerais, Serro, "in sylvis Capões ad Tapanhoacanga, Serro Frio," May 1818, fl. ♀, *C. F. P. von Martius s.n.* (Holotype: M 0111191).

Mespilodaphne glauca (Nees) Meisn. var. *virescens* Meisn. in DC., Prodr. 15(1): 98. 1864, *excl. syn.* *Oreodaphne nutans* Nees var. *sylvestris* Nees = *Ocotea glauca* (Nees) Mez var. *virescens* (Meisn.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 362. 1889. TYPE: BRAZIL. Bahia, "circa Igreja Velha," s.d., fl., *J. S. Blanchet 3250* (Syntypes: B 10 0185330, BM 000993989, F [0061438F; F neg. 58155], G 00369419, G 00369420, G-DC 00200476, M 0147118 [F neg. 19272]); Bahia, Jacobina, s.d., fl., *J. S. Blanchet 3250B* (Syntypes: BR 0000008823410, BR 0000008823021, BR 0000008823366, F [0061439F], FI-W 005242, G 00369421, G [2 sheets], G-DC 00200475, K 000442015, KIEL, M 014 7118 [F neg. 19272], MO 247521, NY 00355343, P 00756893, P 00756894, P 00756895, P 00756896); *idem*, Igreja Velha, s.d., *J. S. Blanchet 301* (Syntypes: G, P).

Oreodaphne kunthiana Meisn. in DC., Prodr. 15(1): 119. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 213. 1866. TYPE: BRAZIL. Loco haud indicato, s.d., fl. ♂, *F. Sellow s.n.* (Holotype: B 10 0185388 [ex Herb. Kunth, B neg. 5286 B]; Isotypes, G 00021062, P 01958844).

Ocotea subdecumbens M.A. Lisboa & J. Badini, Rev. Esc. Minas 31(4): 32. 1974; Moraes, Harvard Pap. Bot. 17(2): 259. 2012. TYPE: BRAZIL. Minas Gerais, Mariana, entre Bento Rodrigues e Sta. Rita Durão, February 1971, fl. ♂, *M. A. Lisboa & J. Badini s.n.* (Holotype: OUPR 26600 [right-hand specimen; ex Herbário da Escola de Minas de Ouro Preto N°. 4030]; Isotype, OUPR 18212); *idem*, Minas Gerais, Mariana, entre Bento Rodrigues e Sta. Rita Durão, February 1971, fl. ♀, *M. A. Lisboa & J. Badini s.n.* (Paratype: OUPR 26600 [left-hand specimen; ex Herbário da Escola Federal de Farmácia e Bioquímica de Ouro Preto N°. 27003], HRCB).

48. *Ocotea phillyreoides* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 315. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 168. 1986; Moraes, Abc Taxa 3: 126. 2007; *ibid.* in Komarovia 6(1): 36. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 260. 2012 = '*Cryptocarya monticola* Mart. ex Nees', Syst. Laur.: 400. 1836, *nom. invalid.* = *Mespilodaphne phillyreoides* (Nees) Meisn. in DC., Prodr. 15(1): 100. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 193. 1866 = *Mespilodaphne phillyreoides* Nees (Meisn.) var. *oblonga* Meisn. in DC., Prodr. 15(1): 100. 1864 [homotypic by typification; lectotype designated by Moraes, 2008: 36]; *ibid.* in Martius, Fl. Bras. 5(2): 193. 1866.

Basionym: *Oreodaphne phillyreoides* Nees, Syst. Laur.: 400. 1836. Lectotype (designated by Moraes, 2008: 36): BRAZIL. São Paulo, "Rio das Pedras," fl. ♂, *F. Sellow B 1362 c 393* (B 10 0185369; Isolectotypes, B 10 0185367 [B neg. 5295], K 000575057). Probable isolectotypes: BRAZIL. Loco haud indicato, fl. ♂, *F. Sellow s.n.* (G-DC 00201230, HAL 0103830); *idem*, loco haud indicato, fl., *F. Sellow s.n.* (B 10 0185370, ex Herb. Baschant). Syntype: BRAZIL. Minas Gerais, "in montosis, alt. 2800–3600'," "*Cryptocarya monticola* Martius" [herbarium name], fl. ♀, immat. fr., *C. F. P. von Martius s.n.* (M 0111178 [annotated by Nees as "*Oreodaphne phillyraeoides*" and by Meissner as "*Mespilodaphne phillyreoides* β *oblonga*"]).

Further synonyms and information in Rohwer (1986) and Moraes (2008).

Ocotea phillyreoides (Nees) Mez belongs to the *Ocotea tristis* (Nees & Mart.) Mez Complex sensu Rohwer (1986), whose synonymy must be confirmed.

49. *Ocotea pulchella* (Nees & Mart.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 317. 1889 = *Mespilodaphne pulchella* (Nees & Mart.) Meisn. in DC., Prodr. 15(1): 99. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 191, t. 68. 1866; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 166. 1986; Moraes, Komarovia 6(1): 38. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 261. 2012. Basionym: *Oreodaphne pulchella* Nees & Mart. in Nees, Linnaea 8: 40. 1833; *ibid.* in Syst. Laur.: 397. 1836; Martius, Flora 20(2, Beibl.): 102. 1837. Lectotype (designated by Moraes, 2008: 39): BRAZIL. São Paulo, "inter Ypanema et Ytu, in Capões," January–February 1818, fl. ♂, *C. F. P. von Martius Obs. 595*: "...arbor 6–10 ped. ..." (M 0121047 [annotated by Nees]). Syntypes: BRAZIL. São Paulo, "in campestribus prope Caja pintada versus Civ. S. Pauli," December 1817, fl. ♀, *C. F. P. von Martius Obs. 512*: "...arbor 10–16 ped. in Campis" (M 0121046, M 0121048 [annotated by Martius as "in virgultetis prope Civ. S. Pauli"]); BRAZIL. São Paulo, fr., *F. Sellow 144* (B 10 0185456); BRAZIL. Minas Gerais, Serra da Moeda, fr., *F. Sellow B 1378 c 413* (B 10 0185472, B 10 0185471) [syntype of *Mespilodaphne pulchella* (Nees & Mart.) Meisn. var. *ferruginea* Meisn. in DC., Prodr. 15(1): 100. 1864]; BRAZIL. Rio Grande do Sul, fl. ♀, immat. fr., *F. Sellow d 2324* (B 10 0185458); BRAZIL. São Paulo, fl., *F. Sellow 459* (B 10 0185455). Probable syntype:

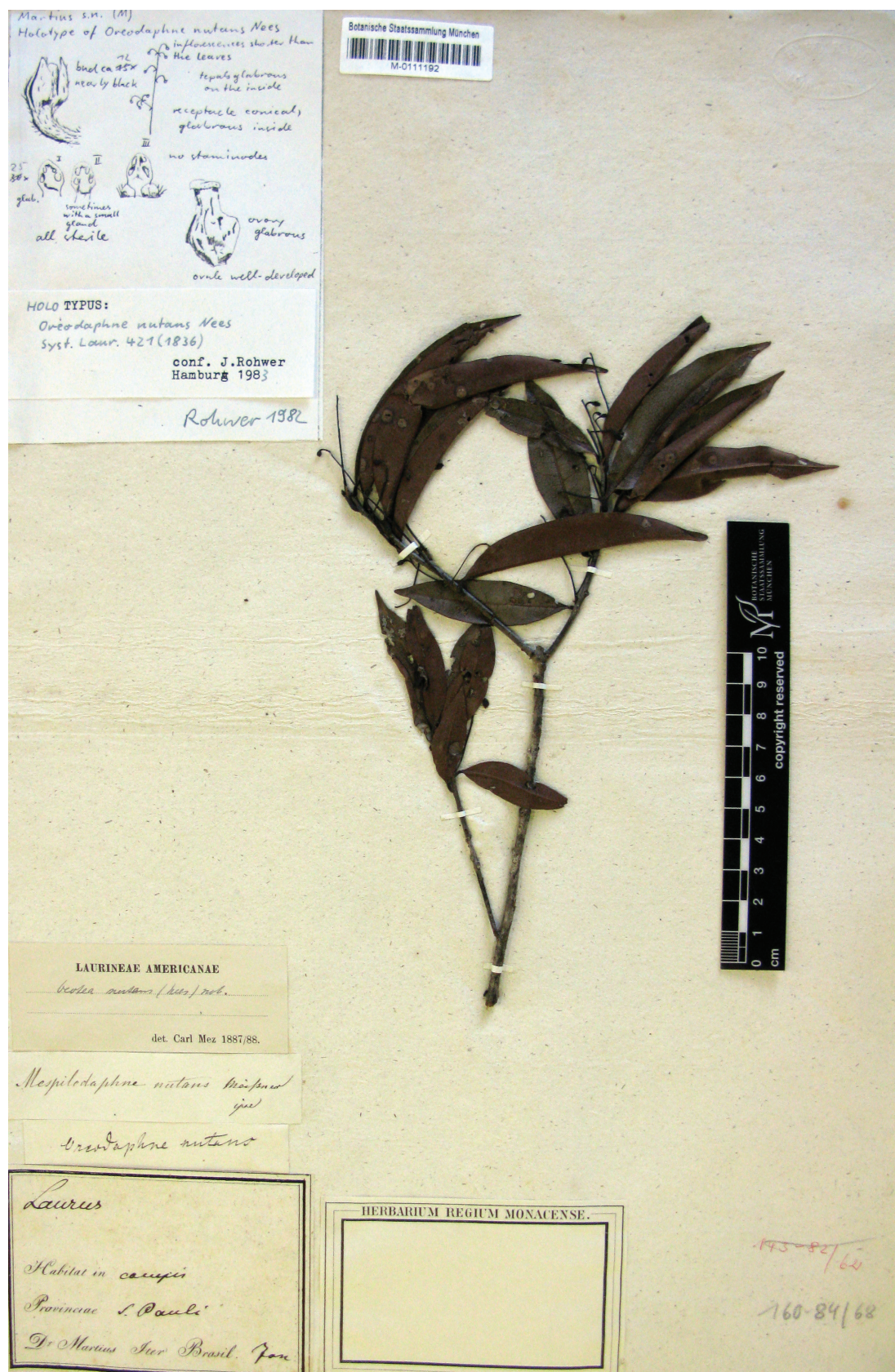
FIGURE 1. *Oreodaphne nutans* Nees: Holotype (M 0111192).

FIGURE 2. *Oreodaphne nutans* Nees: Isotype (L, ex Herbarium Reinwardtianum).

BRAZIL. Loco haud indicato, fr., *F. Sellow s.n.* (TUB 019041). Specimens: BRAZIL. Goiás, “prope Rio Claro,” June, fl. ♀, fr., *Martii Herbar. Florae Brasil. N° 117* [= *A. L. P. da Silva Manso* 278] (B 10 0185473, BR 000000880656, E 00259510, G 00021044, G-DC 00200973, K 000512688, LE 00006778, M 0121049, NY 00355381 [NY 00355365], P 00571418) [syntype of *Mespilodaphne pulchella* (Nees & Mart.) Meisn. var. *elliptica* Meisn. in DC., Prodr. 15(1): 100. 1864].

Further synonyms and additional information in Rohwer (1986) and Moraes (2008, 2012b).

50. *Ocotea spixiana* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 260. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 193. 1986 = ‘*Ocotea rufotomentosa* Mart.’, *nomen*.

Basionym: *Oreodaphne spixiana* Nees, Syst. Laur.: 382. 1836; Meissner in DC., Prodr. 15(1): 117. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 212. 1866. TYPE: BRAZIL. Minas Gerais, Serro, “in sylvis Capões, locis montosis, Serro Frio,” May 1818, fl., *C. F. P. von Martius s.n.* (Holotype: M 0111182 [F neg. 6587]; Isotypes, GZU 000254368, M 0111181 [annotated by Nees as “*Aperiphracta martiana*,” herbarium name], M 0111183, M 0111184, NY 00355782 [fragment]).

51. *Ocotea tabacifolia* (Meisn.) Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 173. 1986; Moraes, Harvard Pap. Bot. 17(2): 263. 2012.

Basionym: *Persea tabacifolia* Meisn. in DC., Prodr. 15(1): 51. 1864. TYPE: BRAZIL. Minas Gerais, “monte Itambé,” November 1820, immat. fr., *J. B. E. Pohl 3604* (Holotype: W⁺; Lectotype, designated by Moraes, 2008: 47; NY 00355862).

Synonyms: *Oreodaphne umbrosa* Nees, Syst. Laur.: 388. 1836, non (Kunth) Nees, Syst. Laur.: 456. 1836; Meissner in DC., Prodr. 15(1): 122. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 216. 1866 = *Ocotea umbrosa* (Nees) Mart. ex Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 350. 1889, non Kunth, 1818 = *Oreodaphne minarum* Steud., Nomencl. Bot. (ed. 2) 2: 226. 1841. TYPE: BRAZIL. Minas Gerais, “inter Taparoca et Tapanhoacanga, locis altis sylvaticis,” 13 May 1818, fl. ♂, *C. F. P. von Martius Obs. 1188*: “arbor alt. 10–15 ped. ... In Capoeira” (Holotype: M 0111067; Isotypes, GZU 000254371 [fragment], M 0111068, MEL 2324416).

Further synonym in Rohwer (1986).

52. *Ocotea teleiandra* (Meisn.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 382. 1889 = *Oreodaphne teleiandra* Meisn. in DC., Prodr. 15(1): 138. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 239. 1866; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 211. 1986; Moraes, Komarovia 6(1): 55. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 263. 2012.

Basionym: *Teleiandra glauca* Nees & Mart. in Nees, Linnaea 8: 46. 1833. TYPE: BRAZIL. São Paulo, fl. ♂, *F. Sellow 399* (Holotype: B 10 0000045; Isotypes, B 10 0000044, B 10 0000046 [ex Herb. Kunth, B neg. 5322], K 000442012, VT 001553). Probable isotypes:

BRAZIL. Loco haud indicato, fl. ♂, *F. Sellow s.n.* (BR 0000008767165, F [0061819F; fragment], G, GZU 000249332); *idem*, fl., *F. Sellow s.n.* (HAL 0103829, wrongly mounted with the label of “*Oreodaphne glauca* Nees ab Es.!” written by Schlechtendal).

Synonyms: *Camphoromoea venulosa* Nees, Syst. Laur.: 469. 1836 = *Oreodaphne venulosa* (Nees) Meisn. in DC., Prodr. 15(1): 126. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 222. 1866 = *Ocotea venulosa* (Nees) Baitello, Fl. Fanerog. Estado São Paulo 3: 208. 2003. TYPE: BRAZIL. São Paulo, “in sylvis Montis formosi” [Morro Formoso, prope Bananal], December 1817, *C. F. P. von Martius s.n.* (Holotype: M 0147133 [F neg. 19278]; Isotype, GZU 000253888).

As pointed out by Moraes (2012b: 264), Rohwer (1986: 211) synonymized *Ocotea teleiandra* (Meisn.) Mez with *Ocotea laxa* (Nees) Mez. However, according to Baitello and Marcovino (2003: 195, 197, 205), although both are similar in vegetative characters, *O. teleiandra* may be distinguished by tepals thick and papillose in the inner surface, leaves glabrous abaxially, absence of bullate and barbellated domatia, and larger fruits with cupule of smooth margin, whereas *O. laxa* has leaves pubescent abaxially, with conspicuous domatia, and fruits with hexalobed cupules.

53. *Ocotea tristis* (Nees & Mart.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 316. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 167. 1986; Moraes, Komarovia 6(1): 43. 2008; *ibid.* in Harvard Pap. Bot. 17(2): 264. 2012 = *Mespilodaphne tristis* Meisn. in DC., Prodr. 15(1): 100. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 193, t. 69. 1866 = *Oreodaphne tristis* Nees & Mart. var. *oblongifolia* Nees & Mart. in Nees, Linnaea 8: 40. 1833, *nom. illegit. superfl.*, = var. *tristis*.

Basionym: *Oreodaphne tristis* Nees & Mart. in Nees, Linnaea 8: 40. 1833. Lectotype (designated by Moraes, 2008: 45): BRAZIL. Minas Gerais, Serro, “Serro Frio,” “*Ocotea tristis* s. Aeneae (Virg. VI.) 493.) In campis tristibus, ubi animae illorum, quos amor peredit...,” May 1818, fl., *C. F. P. von Martius s.n.* (M 0111177).

Further synonyms and detailed information in Rohwer (1986) and Moraes (2008, 2012b).

54. *Ocotea variabilis* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 288. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 189. 1986 = ‘*Ocotea variabilis* Mart. ex Nees’, Syst. Laur.: 429. 1836, *nom. invalid*.

Basionym: *Oreodaphne variabilis* Nees, Syst. Laur.: 429. 1836; Meissner in DC., Prodr. 15(1): 116. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 211. 1866. TYPE: BRAZIL. Minas Gerais, Serro, “in campestribus altis Serro Frio,” May 1818, *C. F. P. von Martius s.n.* (Holotype: M 0121081 [F neg. 6588]; Isotypes, B 10 0185417 [F neg. 3737], GZU 000254373, L [“*Laurus adamantina* M.”, herbarium name, “Diam. District,” ex Herbarium Reinwardtianum], M 0121082, MEL 2324404 [“*Laurus adamantina* Mart.”, herbarium name, “Serro Frio”).

Although Rohwer (1986) had proposed *Ocotea variabilis* as a synonym of *Ocotea lancifolia* (Schott) Mez, their fruits are different, mainly in relation to the cups, being cupola-shaped, with simple margin, without remnant tepals in the former, and dish-shaped, with double margin, and with remnant tepals in the latter, making it possible to distinguish and take them as belonging to different taxa.

55. *Ocotea velutina* (Nees) Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 172. 1986; Moraes, Komarovia 6(1): 47. 2008. Basionym: *Oreodaphne velutina* Nees, Syst. Laur.: 386. 1836; Meissner in DC., Prodr. 15(1): 132. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 231, t. 79. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 348. 1889. Lectotype (designated by Rohwer, 1986: 172): BRAZIL. Minas Gerais, “in Sumo Brasiliae Monte Itambé, Serro Frio,” May 1818, fl. ♀–♂, *C. F. P. von Martius s.n.* (M 0121084 [annotated by Martius with “*Ocotea velutina*” and by Nees as “*Aperiphracta velutina*”]; Isolectotypes, GZU 000254374 [ex Herb. Nees, annotated by Nees as “*Aperiphracta velutina*,” “hermaphr.-fem.,” “In summo Bras. Monte Itambé Serro Frio... Maio”], GZU 000254375 [fragments]). Syntypes: BRAZIL. Minas Gerais, “in montosis sylvaticis prope Taparaoca præd. Serro Frio,” May 1818, fl. ♀–♀, *C. F. P. von Martius Obs. 1183*: “arbor 15–20 ped. ram. paucis distantibus, ...” (GZU 000260730 [fragment], M 0121085); BRAZIL. Minas Gerais, loco haud indicato, s.d., fl., *C. F. P. von Martius s.n.* (M 0121086); BRAZIL. São Paulo, Iperó, “Ypanema,” fr., *F. Sellow B 1384 c 419* (B 10 0185416 [NY neg. 8383]); BRAZIL. São Paulo, “a S. Paulo ad meridiem,” fl., *F. Sellow 5867* (B 10 0185415 [NY neg. 8384], K 000602367); BRAZIL. São Paulo, *F. Sellow 5928* (B*); BRAZIL. Loco haud indicato, fr., *F. Sellow s.n.* (B 10 0185414); *idem*, fr., *F. Sellow s.n.* (CGE); *idem*, fl., fr., *F. Sellow s.n.* (E 00259499); *idem*, fr., *F. Sellow s.n.* (HAL 0010486); *idem*, fr., *F. Sellow s.n.* (LE 00006785).

Further synonyms in Rohwer (1986).

56. *Ocotea virgultosa* (Nees) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 252. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 226. 1986; *ibid.* in Fl. Neotrop. Monogr. 60: 301. 1993; Assis and Mello-Silva, Novon 20(4): 379. 2010. Basionym: *Nectandra virgultosa* Nees, Syst. Laur.: 304. 1836; Meissner in DC., Prodr. 15(1): 167. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 278. 1866. TYPE: BRAZIL. Minas Gerais, “in sylvulis udis depressis Capões dictis,” s.d., *C. F. P. von Martius s.n.* (Holotype: M 0121088 [F neg. 19279]; Isotype, GZU 000249348 [fragment]).

57. *Ocotea xanthocalyx* (Nees & Mart.) Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 288. 1889; Rohwer, Mitt. Inst. Allg. Bot. Hamburg 20: 161. 1986. Basionym: *Nectandra xanthocalyx* Nees & Mart. in Nees, Syst. Laur.: 312. 1836; Meissner in DC., Prodr. 15(1): 167. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 277. 1866.

TYPE: BRAZIL. Minas Gerais, “inter frutices in planitie Chapada do Paranán,” September 1818, fr., *C. F. P. von Martius Obs. 1770*: “Frutex 4–6 pedalis, foliis subcomplicatis subtus glauco rore adpersis, calycibus roseo-igneis. In camp. Carrasco” (Holotype: M 0111175 [F neg. 6589]; Isotypes, GZU 000254298, M 0111176).

58. *Persea americana* Mill., Gard. Dict. (ed. 8) s.n. 1768; Kopp, Mem. New York Bot. Gard. 14: 15. 1966; Moraes, Harvard Pap. Bot. 17(1): 204. 2012; *ibid.* in Pl. Ecol. Evol. 146(3): 372. 2013.

Basionym: *Laurus persea* L., Sp. Pl. 1: 370. 1753. Lectotype (designated by van der Werff, 2002a: 580): “Prunifera arbor, fructu maximo pyriformi viridi, pericarpio esculento butyraceo nucleum unicum maximum nullo ossiculo tectum, cingente. The Avocado or Alegator pear-tree,” in Sloane (1725: 132, t. 222, fig. 2). “Typotype” (original material): JAMAICA. Herb. Sloane Vol. VII: 77 (BM-SL 000594115).

Synonym: *Persea gratissima* Gaertn., Fruct. Sem. Pl. 3: 222, t. 221. 1807, *nom. illegit. superfl.* for *Persea americana* Mill.; Nees, Syst. Laur.: 128. 1836; Martius, Syst. Mat. Med. Bras.: 26, 112. 1843; *ibid.* in Fl. Bras. 5(2): 320. 1866; Meissner in DC., Prodr. 15(1): 52. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 158, t. 105, fig. 1. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 145. 1889. Specimen: BRAZIL. Pará, “circa Pará,” “in sylvis archipelagi Insularum Paraënsium,” August 1819, *C. F. P. von Martius s.n.* (GZU 000254384, M).

Further list of synonyms in van der Werff (2002a).

As pointed out by van der Werff (2002a), Kopp (1966: 17) designated the description in Clusius (1601: 2) as lectotype of *Laurus persea*. However, since descriptions are not accepted as lectotypes, according to Art. 8.1 of ICN (McNeill et al., 2012), the illustration in Sloane (1725) has been designated as lectotype of *Laurus persea* L. and, therefore of *Persea americana* Mill.

59. *Persea rufotomentosa* Nees & Mart. in Nees, Syst. Laur.: 153. 1836; Meissner in DC., Prodr. 15(1): 45. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 155. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 141. 1889; Kopp, Mem. New York Bot. Gard. 14: 67. 1966; Moraes, Harvard Pap. Bot. 17(1): 205. 2012 = *Mutisiopersea rufotomentosa* (Nees & Mart.) Kosterm., Rheede 3(2): 135. 1993. TYPE: BRAZIL. Minas Gerais, Serro, “in sylvis Capões et in Tabuleiro locis editis Montanis Serro Frio,” August 1818, fl., *C. F. P. von Martius s.n.* (Holotype: M 0147211 [F neg. 6582]; Isotypes, GZU 000254417 [fragment], M 0147212, M 0147213).

60. *Persea venosa* Nees & Mart. in Nees, Linnaea 8: 50. 1833; *ibid.* in Syst. Laur.: 144. 1836; Meissner in DC., Prodr. 15(1): 48. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 153, t. 48, fig. 1. 1866; Mez, Jahrb. Königl. Bot. Gart. Berlin 5: 172. 1889; Kopp, Mem. New York Bot. Gard. 14: 30. 1966; Moraes, Komarovia 6(1): 52. 2008; *ibid.* in Harvard Pap. Bot. 17(1): 206. 2012. TYPE: BRAZIL. São Paulo, Iperó, “Ypanema,” s.d., fl., *F. Sellow B 1387 c 422* (Holotype:

B⁺; Lectotype, designated by Moraes, 2008: 52: G-DC 00135213; Isolectotypes, GZU 000254420, HAL 0103845, K 000602076, K 000512722, NY 00355864 [fragment ex G-DC]).

Synonym: *Persea venosa* Nees & Mart. var. β *tersa* Nees & Mart. in Nees, Linnaea 8: 50. 1833; Meissner in DC., Prodr. 15(1): 49. 1864; *ibid.* in Martius, Fl. Bras. 5(2): 153, t. 48, fig. 2. 1866; Kopp, Mem. New York Bot. Gard. 14: 30. 1966; Moraes, Komarovia 6(1): 52. 2008; *ibid.* in Harvard Pap. Bot. 17(1): 206. 2012. TYPE:

BRAZIL. Loco haud indicato, s.d., fl., *F. Sellow XXIV* (Holotype: B⁺; Lectotype designated by Moraes, 2008: 52: GZU 000273810 [annotated by Nees with “ β ”]). Probable isolectotype: LISU [24000] ex Herbarium Brasiliense Dr. Alexandre Rodrigues Ferreira nr. 693. Specimen: BRAZIL. “in campestribus altis ad sylv. margines / Provinciae S. Pauli et Min. Ger.,” s.d., fr., C. F. P. von Martius s.n. (M 0147206 [“*Persea hypoglauca* Mart.,” herbarium name]).

Further information in Moraes (2008).

REMARKS

1. *Martii Herbar. Florae Brasil. N° 478*: BRAZIL. Rio de Janeiro, “in horto (Chacara) secundum viam ad S. Clemente, prope Sebastianopolin, cultum,” March–April 1833, fr., *L. Riedel s.n.* & *B. Luschnath s.n.* (BR 0000013332549, LE [4 sheets], NY 459793), belongs to *Cinnamomum camphora* (L.) J. Presl in Berchtold and J. Presl, Pfl. Rostlin 2: 36, 47–56, t. 8. 1825 [1823?].
2. Meissner (1866: 283) has reported a collection of Martius from Rio de Janeiro for *Goeppertia hirstuta* (Schott) Nees, Syst. Laur.: 366. 1836; Meissner in DC., Prodr. 15(1): 172. 1864 [= *Endlicheria paniculata* (Spreng.) J.F. Macbr., Publ. Field Mus. Nat. Hist., Bot. Ser. 13 (2/3): 850. 1938]. However, it seems to be a mistake since no other author has mentioned this material, neither it has been located in Munich, nor in any other herbarium.

3. Specimen at M 0111066 has been wrongly attributed to Martius. In fact, it is a Sellow collection belonging to *Ocotea acutifolia* (Nees) Mez (see Moraes, 2008).
4. The name *Laurus paniculigera* Mart. ex Colla, Herb. Pedem. 5: 62. 1836, according to Moraes et al. (2014), remains unresolved since no material has been located at TO. However, as indicated by the former authors, in Herbarium Sonder at MEL, there are two specimens that agree with the protologue and belong to *Metrodorea nigra* A. St.-Hil., Fl. Bras. Merid. (quarto ed.) 1: 81, t. 16. 1825.
5. Specimen at MEL 2324410 has two handwritten labels, one annotated with “*Strychnodaphne* Nees?”, the other with “*Laurus* Martius”. Although its identification is not solved yet, it resembles the pattern of specimen at M 0111065, thus of *Nectandra sarcocalyx* Nees.

LITERATURE CITED

- ALVAREZ LOPEZ, E. 1956. Comentario sobre “*Laurus*”, de Ruiz y Pavón, con notas de Dombey acerca de algunas de sus especies. *Anales Inst. Bot. Cavanilles* 13: 71–78.
- ASSIS, L. C. S. AND R. MELLO-SILVA. 2010. Taxonomic and nomenclatural changes in the *Ocotea indecora* group (Lauraceae). *Novon* 20: 377–380.
- BAITELLO, J. B. AND J. R. MARCOVINO. 2003. *Ocotea* Aubl. Pages 179–208 in M. G. L. WANDERLEY, G. J. SHEPHERD, A. M. GIULIETTI, T. S. MELHEM, EDS. *Flora Fanerogâmica do Estado de São Paulo*, vol. 3. FAPESP/RiMa, São Paulo.
- BENTHAM, G. 1880. Ordo CXLIII. *Laurineae*. Pages 146–165 in G. BENTHAM AND J. D. HOOKER. *Genera plantarum ad exemplaria imprimis in herbariis Kewensibus servata definita. Voluminis Tertii Pars I....* L. Reeve & Co., Williams & Norgate, Londini.
- BERNARDI, L. 1967. Emendationes laureae imprimis de *Nectandra*. *Candollea* 22: 49–67.
- BIBLIOTECA NACIONAL [DIVISÃO DE PUBLICAÇÕES E DIVULGAÇÃO; SEÇÃO DE EXPOSIÇÕES]. 1968. *Exposição comemorativa do centenário da morte de Karl Friedrich Philipp von Martius 1868 – 1968. Homenagem ao sesquicentenário do Museu Nacional*. Iguassú, Rio de Janeiro.
- BOMMER, J.-E. 1870. Notice sur le Jardin Botanique de Bruxelles. *Bull. Soc. Roy. Bot. Belgique* 9: 418–444.
- CANDOLLE, A. L. P. DE. 1856a. *Notice sur la vie et les ouvrages de M. de Martius...* Imprimerie de Ramboz et Schuchardt, Genève.
- . 1856b. Sketch of the life and writings of M. de Martius, Secretary to the Bavarian Academy of Science; by Alphonse de Candolle. *Hooker's J. Bot. Kew Gard. Misc.* 8: 362–369.
- . 1857. Sketch of the life and writings of M. de Martius, Secretary to the Bavarian Academy of Science; by Alphonse de Candolle. *Hooker's J. Bot. Kew Gard. Misc.* 9: 6–10, 41–47.
- CARUS, C. G. 1869. Erinnerung an Carl Friedrich Philipp von Martius. *Nov. Actorum Acad. Caes. Leop.-Carol. German. Nat. Cur.* 35: 103–111.
- CHANDERBALI, A. S. 2004. *Endlicheria* (Lauraceae). *Fl. Neotrop. Monogr.* 91: 1–141.
- CLUSIUS, C. 1601. *Caroli ClvsI Atrebatiss, Imp. Caes. Avgg. Maximiliani. II. Rudolphi. II. Aulæ quondam familiaris, Rariorvm Plantarvm Historia. Quæ accesserint, proxima pagina docebit.* Ex officina Plantiniana, apud Ioannem Moretum, Antverpiæ.
- DUTRA, J. S. 1942. *Martius*. Emiel, Rio de Janeiro.
- EICHLER, A. W. 1869a. C. F. Ph. von Martius. *Eine biographische Skizze*. Druck der Fr. Neubauer'schen Buchdruckerei (Krug's Wittwe), Regensburg.
- . 1869b. *Das Herbarium Martii*. Kgl. Hofbuchdruckerei von Dr. C. Wolf & Sohn., München.
- . 1869c. Karl Friedrich Philipp von Martius. *Gard. Chron.* 1869: 164–165, 191–192, 221–222, 248–249.
- . 1869d. Karl Friedrich Philipp v. Martius. *Allg. Zeitung* 1869, Beilage Nr. 19, 21, 22: 277–279, 309–310, 325–326.
- FÖRSTER, H. 1994. Die Geschichte des Martius-Herbariums: seine Brasilienkollektion und Empfehlungen zur Typuswahl. *Sendtnera* 2: 5–24.
- GARCIA, R. 1922. *Historia das Explorações Científicas*. Pages 856–910 in INSTITUTO HISTÓRICO E GEOGRÁFICO BRASILEIRO, *Dicionário Histórico, Geográfico e Ethnográfico do Brasil (Commemorativo do Primeiro Centenário da Independência)*. Introdução geral. Primeiro volume. Imprensa Nacional, Rio de Janeiro.
- HIND, D. J. N. 2011. *An annotated preliminary checklist of the Compositae of Bolivia. Version 2*. Kew Gardens, London. Available at www.kew.org/science/tropamerica/boliviacompositae; www.kew.org/science/tropamerica/boliviacompositae/checklist.pdf

- HOEHNE, F. C. 1942. Notas bio-bibliográficas de naturalistas botânicos que pretendemos homenagear com a denominação de caminhos e picadas no Jardim Botânico e na Estação Biológica do Alto da Serra. Pages 19–246 in F. C. HOEHNE, M. KUHLMANN AND O. HANDRO. *O Jardim Botânico de São Paulo*. Secretaria da Agricultura, Indústria e Comércio, Departamento de Botânica do Estado, São Paulo.
- HOOKE, W. J. 1841. I. Martius on the Botany of Brazil. *J. Bot. (Hooker)* 4: 1–37.
- HOWARD, R. A. 1981. Nomenclatural notes on the Lauraceae of the Lesser Antilles. *J. Arnold Arbor.* 62: 45–61.
- IMKHANITSKAYA, N. N. 1974. Lavrovye Kuby (Lauraceae Cubae). *Novosti Sist. Vyssh. Rast.* 11: 192–209. (in Russian).
- KOPP, L. E. 1966. A Taxonomic revision of the genus *Persea* in the Western hemisphere. (*Perseae*–Lauraceae). *Mem. New York Bot. Gard.* 14: 1–120.
- KOSTERMANS, A. J. G. H. 1936. Revision of the Lauraceae I. *Recueil Trav. Bot. Néerl.* 33: 719–757.
- . 1937. Revision of the Lauraceae II. The genera *Endlicheria*, *Cryptocarya* (American species) and *Licaria*. *Recueil Trav. Bot. Néerl.* 34: 500–609.
- . 1938a. Revision of the Lauraceae III. The genera *Aiouea*, *Systemonodaphne*, *Urbanodendron*, *Mezilaurus*; additions and corrections to *Licaria* and *Cryptocarya*. *Recueil Trav. Bot. Néerl.* 35: 56–129.
- . 1938b. Revision of the Lauraceae V. A monograph of the genera: *Anaueria*, *Beilschmiedia* (American species) and *Aniba*. *Recueil Trav. Bot. Néerl.* 35: 834–931.
- . 1950. 81^e Famille.—Lauracées. Pages 1–86 in H. HUMBERT, ED. *Flore de Madagascar et des Comores*. Typographie Firmin-Didot et Cie, Paris.
- . 1953. Notas sobre as Lauraceae-Lauroidae sul americanas. *Bol. Técn. Inst. Agron. N.* 28: 49–75.
- . 1964. *Bibliographia Lauracearum*. Departemen Urusan Research Nasional; P. T. Djulie “Archipel,” Bogor.
- . 1986. A monograph of the genus *Cinnamomum* Schaeff. (Lauraceae), Part I. *Ginkgoana* 6: 1–171. Academia Scientific Book Inc., Tokyo.
- KUBITZKI, K. AND S. RENNER. 1982. Lauraceae I (*Aniba* and *Aiouea*). *Fl. Neotrop. Monogr.* 31: 1–124.
- KURZ, H. 2000. Revision der Gattung *Licaria* (Lauraceae). *Mitt. Inst. Allg. Bot. Hamburg* 28–29: 89–221.
- LASÈGUE, A. 1845. *Musée Botanique de M. Benjamin Delessert. Notices sur les collections de plantes et la bibliothèque qui le composent; contenant en outre des documents sur les principaux herbiers d'Europe Et l'exposé des Voyages entrepris dans l'intérêt de la Botanique*. Librairie de Fortin, Masson et C^{ie}, Paris.
- LISBOA, K. M. 1995. Viagem pelo Brasil de Spix e Martius: Quadros da natureza e esboço de uma civilização. *Rev. Bras. Hist.* 15: 73–91.
- . 1997. *A Nova Atlântida de Spix e Martius: natureza e civilização na Viagem pelo Brasil (1817-1820)*. Editora Hucitec/FAPESP, São Paulo.
- LOREA-HERNÁNDEZ, F. G. 1996. A systematic revision of the Neotropical species of *Cinnamomum* Schaeffer (Lauraceae). Unpublished PhD. thesis, University of Missouri, Saint Louis.
- LUNAN, J. 1814. *Hortus Jamaicensis, or a botanical description, (according to the Linnean system) and an account of the virtues, &c. of its indigenous plants hitherto known, as also of the most useful exotics. Compiled from the best authorities, and alphabetically arranged. In Two Volumes*. Printed at the Office of the St. Jago de la Vega Gazette, Jamaica.
- MÄGDEFRAU, K. 1990. Martius, Carl Ritter von. *Neue Deutsche Biogr.* 16: 310–312.
- MARTIUS, C. F. P. VON. 1817–1820. *Observationes botanicae, Plantae in Itinere Brasiliensi annis 1817–1820 a Car. Frid. Phil. Martio descriptae*. 6 Vols. (Manuscript; copy handwritten by Progel in M, copy in K).
- . 1829. Ueber einige brasilianische Arzneimittel. *Buchner, Repert. Pharm.* 31: 337–383.
- . 1830. Dr. von Martius, über einige von ihm in der brasilianischen Provinz von Rio Negro beobachtete Arzneipflanzen. *Buchner, Repert. Pharm.* 35: 169–199.
- . 1837–[1841]. *Herbarium Florae Brasiliensis. Plantae brasilienses exsiccatae, quas denominatas, partim diagnosi aut obsevationibus instructas Botanophilis offert Dr. C. Fr. Ph. de Martius*. Monachii. 1837: *Flora* 20(2, Beibl.): 1–128; 1838: *Flora* 21(2, Beibl.): 49–96; 1839: *Flora* 22(1, Beibl.): 1–64; 1841: *Flora* 24(2, Beibl.): 1–112.
- . 1843a. *Systema materiae medicae vegetabilis brasiliensis*. Apud F. Fleischer, Lipsiae; apud F. Beck in comm., Vindobonae.
- . 1843b. *Plantae medicinales Florae Brasiliensis secundum Ordines naturales dispositae*. 10 Junii 1843. (Manuscript in University of California at Los Angeles Library–Louise M. Darling Biomedical Library).
- . 1850. Ueber das königliche Herbarium zu München. *Gel. Anz.* 31: 717–747.
- . 1868. De Lauracearum qualitatibus et usu. Pages 315–320 in C. F. P. VON MARTIUS, ED. *Flora Brasiliensis*, Vol. 5(2). Typographia Regia C. Wolf et fil. in Offic. Lithograph. S. Minsinger tum B. Keller, Munich; apud Frid. Fleischer in Comm., Leipzig.
- . AND J. H. RODRIGUES. 1956. Como se deve escrever a Historia do Brasil. *Rev. Hist. América* 42: 433–458.
- MCNEILL, J., F. R. BARRIE, W. R. BUCK, V. DEMOULIN, W. GREUTER, D. L. HAWKSWORTH, P. S. HERENDEEN, S. KNAPP, K. MARHOLD, J. PRADO, W. F. PRUD'HOMME VAN REINE, G. F. SMITH, J. H. WIERSEMA, AND N. J. TURLAND. 2012. *International Code of Nomenclature for algae, fungi, and plants (Melbourne Code) adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011*. Koeltz Scientific Books, Königstein. [Regnum Vegetabile 154].
- MEISSNER, C. F. 1864. Lauraceae. Pages 1–260 in A. L. P. P. DE CANDOLLE, ED. *Prodromus Systematis Naturalis Regni Vegetabilis*, Vol. 15(1). Sumptibus Victoris Masson et filii, Paris.
- . 1866. Lauraceae et Hernandiaceae. Pages 137–302, 309–310, tab. 45–107 in C. F. P. VON MARTIUS, ED. *Flora Brasiliensis*, Vol. 5(2). Typographia Regia C. Wolf et fil. in Offic. Lithograph. S. Minsinger tum B. Keller, Munich; apud Frid. Fleischer in Comm., Leipzig.
- . 1869. *Denkschrift auf Carl Friedr. Phil. von Martius*. Akademische Buchdruckerei von F. Straub, in Commission bei G. Franz, München.
- . 1870. Notice sur Charles-Frédéric-Philippe de Martius, traduit de l'allemand par le docteur Postel. *Bull. Soc. Linn. Normandie*, Ser. 2, 5: 308–341.
- MEZ, C. 1888. Die amerikanischen Lauraceen des Döll'schen Herbars. *Mitt. Bot. Vereins Kreis Freiburg* 47/48: 420–422.
- . 1889. Lauraceae americanae: monographice descriptis. *Jahrb. Königl. Bot. Gart. Berlin* 5: 1–556.
- . 1892. *Spicilegium laureanum*. *Arbeiten Königl. Bot. Gart. Breslau* 1: 71–166.
- MIQUEL, F. A. W. 1864. *Cinnamomi generis revisio*. *Ann. Mus. Bot. Lugduno-Batavi* 1: 254–270.
- MORAES, P. L. R. DE. 2005. Lectotypification of names of Brazilian species of *Cryptocarya* (Lauraceae). *Taxon* 54: 789–795.
- . 2007. Taxonomy of *Cryptocarya* species of Brazil. *Abc Taxa* 3: 1–191.

- . 2008. The lauraceous collections of Friedrich Sellow. *Komarovia* 6: 1–67.
- . 2012a. The Lauraceae collected in Brazil by Ludwig Riedel–I. *Harvard Pap. Bot.* 17: 185–216.
- . 2012b. The Lauraceae collected in Brazil by Ludwig Riedel–II. *Ocotea*. *Harvard Pap. Bot.* 17: 245–273.
- . 2013. The collections of Lauraceae in the Herbarium of Henri Van Heurck (AWH). *Pl. Ecol. Evol.* 146: 360–383.
- , S. DE SMEDT, H.-J. ESSER, C. GALAGHER, AND L. GUGLIEMONE. 2013. On some Brazilian plants distributed by Martius in 1827 and published by Colla in 1833. *Harvard Pap. Bot.* 18: 23–36.
- , S. DE SMEDT, AND L. GUGLIEMONE. 2014. On some Brazilian plants distributed by Martius in 1827 and published by Colla in *Herbarium Pedemontanum*–V. *Harvard Pap. Bot.* 19: 143–155.
- NEES VON ESENBECK, C. G. D. 1833. *Revisio laurinarum ab Sellowio in Brasilia collectarum et iam in Herbario Regio Berolinensi asservatarum*. *Linnaea* 8: 36–51.
- . 1836. *Systema Laurinarum*. Sumtibus Veitii et sociorum, Berolini.
- . 1848. *Laurinae Vent. / Laurineae Kunth in Beiträge zu einer Flora der Aequinoctial-Gegenden der neuen Welt, von Joh. Friedr. Klotzsch*. *Linnaea* 21: 487–526.
- PAPAVERO, N. 1971. *Essays on the history of Neotropical Dipterology, with special reference to collectors (1750–1905)*, Vol. 1. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- PRANTL, C. 1872. *Geschichte der Ludwig-Maximilians-Universität in Ingolstadt, Landshut, München, zur Festfeier ihres vierhundertjährigen Bestehens im Auftrage des Akademischen Senates. Zweiter Band*. Christian Kaiser, München.
- RAMBO, B. 1952. *Martius*. Inst. Hans Staden, São Paulo.
- RAU, C. 1871. Memoir of C. F. P. von Martius. *Annu. Rep. Board Regents Smithsonian Inst.* [for the year 1869] (1871): 169–178.
- ROHWER, J. G. 1986. *Prodromus einer Monographie der Gattung Ocotea Aubl. (Lauraceae) sensu lato*. *Mitt. Inst. Allg. Bot. Hamburg* 20: 1–278.
- . 1988. The genera *Dicypellium*, *Phyllostemonodaphne*, *Systemonodaphne* and *Urbanodendron* (Lauraceae). *Bot. Jahrb. Syst.* 110: 157–171.
- . 1993. Lauraceae: *Nectandra*. *Fl. Neotrop. Monogr.* 60: 1–333.
- ROSS, H. 1917. Zum Andenken der Forschungsreise von Spix und Martius in Brasilien 1817–1820. *Ber. Deutsch. Bot. Ges.* 35: 119–128.
- RUIZ, H. AND J. PAVÓN. 1956. *Flora Peruviana, et Chilensis, sive descriptiones et icones plantarum Peruvianarum, et Chilensium, secundum Systema Linnaeanum digestae, cum characteribus plurium generum evulgatorum reformatis. Tomus IV (Pars II)*. *Anales Inst. Bot. Cavanilles* 13: 5–70.
- AND ———. 1989. *Laurographia Florae Peruviana et Chilensis*. Introducción, transcripción y notas by A. GONZÁLEZ BUENO AND M. C. NAVARRO ARANDA. Ayuntamiento de la Villa de Belorado, Burgos.
- SCHOEPF, J. D. 1787. *D. Io. Davidis Schoepf... Materia medica americana potissimum Regni Vegetabilis. Svmtibvs Io. Iac. Palmii, Erlangae*.
- SCHRAMM, H. 1869a. C. F. Ph. v. Martius. *Sein Lebens- und Characterbild insbesondere seine Reiseerlebnisse in Brasilien*. Vol. 1. Ludwig Denicke, Leipzig.
- . 1869b. C. F. Ph. v. Martius. *Sein Lebens- und Characterbild insbesondere seine Reiseerlebnisse in Brasilien*. Vol. 2. Ludwig Denicke, Leipzig.
- SEEMANN, B. 1869. Carl Friedrich Phillipp von Martius. *J. Bot.* 7: 17–21.
- . 1870. *Botanical news*. *J. Bot.* 8: 136, 165.
- SHEPHERD, G. J. 2002. *A brief history of the Flora Brasiliensis*. Available at <http://florabrasiliensis.cria.org.br/info?history> (accessed in May 2015).
- SLOANE, H. 1725. *A voyage to the Islands Madera, Barbadoes, Nieves, St Christophers, and Jamaica; with the Natural History of the herbs and trees, four-footed beasts, fishes, birds, insects, reptiles, &c. of the last of those Islands. To which is prefix'd, and Introduction, wherein is an Account of the inhabitants, air, waters, diseases, trade, &c. of that Place; with some Relations concerning the Neighbouring Continent, and Islands of America. Illustrated with the figures of the Things described, which have not been heretofore engraved. In large Copper-Plates as big as the Life. By Sir Hans Sloane, Bart. In Two Volumes*. Vol. II. Printed for the Author, London.
- SOMMER, F. 1953. *A vida do Botânico Martius: Pai das Palmeiras*. Melhoramentos, São Paulo.
- SPIX, J. B. VON AND C. F. P. VON MARTIUS. 1823. *Reise in Brasilien auf Befehl Sr. Majestät Maximilian Joseph I. Königs von Baiern in den Jahren 1817 bis 1820... Erster Theil. Mit einer geographischen Charte und fünfzehn Abbildungen*. Gedruckt bei M. Lindauer, München.
- AND ———. 1828. *Reise in Brasilien auf Befehl Sr. Majestät Maximilian Joseph I. Königs von Baiern in den Jahren 1817 bis 1820... Zweiter Theil, bearbeitet und herausgegeben von Dr. C. F. P. von Martius. Mit vier Charten und vier und zwanzig Abbildungen*. Gedruckt bei I. J. Lentner, München.
- AND ———. 1831a. *Reise in Brasilien auf Befehl Sr. Majestät Maximilian Joseph I. Königs von Baiern in den Jahren 1817 bis 1820... Dritter und letzter Theil, bearbeitet und herausgegeben von Dr. C. F. P. von Martius. Mit einer Karte vom Amazonenstrom*. Bei dem Verfasser, München; in Comm. bei Friedr. Fleischer, Leipzig.
- AND ———. 1831b. *Atlas zur Reise in Brasilien*. Gedruckt bei M. Lindauer, München.
- AND ———. 1968. *Viagem pelo Brasil 1817–1820: Excertos e ilustrações*. Tradução de L. F. LAHMEIER, revisado por B. F. R. GALVÃO E B. DE MAGALHÃES – segundo versão de E. WINKLER. Introdução de H. BALDUS. Edições Melhoramentos, São Paulo.
- SPRING, A. 1870. Prologue a la mémoire de Charles-Fréd.-Phil. von Martius, 1794–1868. *Ann. Hort. Belge Étrangère* 20: V–XXIV.
- . 1871. Notice sur Charles-Fréd.-Phil. von Martius. *Annuaire Acad. Roy. Sci. Belgique* 37: 257–294.
- STAFLEU, F. A. AND COWAN, R. S. 1981. *Taxonomic literature*. 2nd ed. Vol. 3: Lh–O. *Regnum Vegetabile* 105. Dr. W. Junk b.v., Bohn, Scheltema & Holkema, Utrecht, The Hague.
- STAPP, O. 1912. Order CXVI. Laurineae. Pages 493–502 in W. T. THISELTON-DYER, ED. *Flora Capensis*, Vol. 5(1). Lovell Reeve & Co., Ltd., London.
- THIERS, B. [continuously updated]. *Index Herbariorum: A global directory of public herbaria and associated staff*. New York Botanical Garden's Virtual Herbarium. Available at <http://sweetgum.nybg.org/ih/> (accessed in May 2015).
- TIEFENBACHER, L. 1983. Die Brasilienexpedition von J. B. v. Spix und C. F. Ph. v. Martius in den Jahren 1817 bis 1820. *Spixiana*, Supplement 9: 35–42.
- URBAN, I. 1906. *Vitae itineraque collectorum botanicorum, Notae collaboratorum biographicae, Flora Brasiliensis ratio edendi chronologica, Systema, Index Familiarum*. Pages 1–268 in C. F. P. VON MARTIUS, A. W. EICHLER, AND I. URBAN, EDS. *Flora Brasiliensis*, Vol. 1 (1). Apud R. Oldenbourg in comm., München et Leipzig.
- . 1908. *Martii Flora Brasiliensis*. *Verh. Bot. Vereins Prov. Brandenburg* 49: 1–6.

- VAN DER WERFF, H. 2002a. A synopsis of *Persea* (Lauraceae) in Central America. *Novon* 12: 575–586.
- . 2002b. A synopsis of *Ocotea* (Lauraceae) in Central America and Southern Mexico. *Ann. Missouri Bot. Gard.* 89: 429–451.
- VANZOLINI, P. E. 1996. A contribuição zoológica dos primeiros naturalistas viajantes no Brasil. *Revista USP* 30: 190–238.
- VOGEL, A. 1869. Carl Friedrich von Martius. *Nekrolog. Neues Repert. Pharm.* 18: 121–128.
- WALLICH, N. 1851. Das Königliche Herbarium zu München geschildert. (Sketch of the Royal Herbarium at Munich.) By Dr. C. F. Ph. von Martius. Translated from the German in the *Gelehrten Anzeigen*, Bd. XXXI. No. 89–93 [separately printed at Munich 1850]; by N. Wallich, ... *Hooker's J. Bot. Kew Gard. Misc.* 3: 65–74, 102–111.
- WEBER, J. Z. 1981. A taxonomic revision of *Cassytha* (Lauraceae) in Australia. *J. Adelaide Bot. Gard.* 3: 187–262.
- WITTROCK, V. B. 1903. *Catalogus illustratus iconothecae botanicae horti Bergiani Stockholmiensis anno 1903; notulis biographicis adjectis.* *Acta Horti Berg.* 3: 136.
- WUNSCHMANN, E. 1884. Karl Friedrich Philipp von Martius. *Allg. Deutsche Biogr.* 20: 517–527.
- WUSCHEK, E. 1889. *Die Beiträge des Botanikers Carl Friedrich Philipp von Martius (1794-1868) zur Pharmakognosie und zur Erforschung tropischer Nutzpflanzen, mit einer Bearbeitung seines Systema Materiae Medicae Vegetabilis Brasiliensis von 1843.* Dissertation der Fakultät für Chemie und Pharmazie der Ludwig-Maximilians-Universität München.
- WUU-KUANG, S. 2011. Taxonomic revision of *Cinnamomum* (Lauraceae) in Borneo. *Blumea* 56: 241–264.

INDEX TO SCIENTIFIC NAMES

Current accepted names in **boldface italics**. Synonyms in *italics*. Unpublished (herbarium) names in regular typeset. Numbers in parentheses indicate entries of the respective species in the text.

- Acrodictidium brasiliense* Nees (12)
- Acrodictidium cannella* (Meisn.) Mez (13)
- Acrodictidium cayennense* (Meisn.) Mez (13)
- Acrodictidium guianense* Nees var. *caudatum* Meisn. (14)
- Acrodictidium meisneri* Mez (14)
- Acrodictidium puchury-major* (Mart.) Mez (15)
- Aiouea laevis*** (Mart.) Kosterm. (1)
- Aiouea brasiliensis* Meisn. (1)
- Aiouea brasiliensis* Meisn. var. *attenuata* Meisn. (1)
- Aiouea riedelii* Mez (1)
- Aiouea tenuiflora* Nees ex Meisn. (41)
- Aniba canelilla*** (Kunth) Mez (2)
- Aniba citrifolia*** (Nees) Mez (3)
- Aniba desertorum*** (Nees) Mez (4)
- Aniba permollis*** (Nees) Mez (5)
- Aniba puchury-minor*** (Mart.) Mez (6)
- Aperiphracta martiana* Nees (50)
- Aperiphracta velutina* Nees (55)
- Aydendron brasiliense* (Nees) Meisn. (12)
- Aydendron cannella* Meisn. (13)
- Aydendron cayennense* Meisn. (13)
- Aydendron citrifolium* Nees (3)
- Aydendron cujumary* (Mart.) Nees (2, 36)
- Aydendron desertorum* Nees (4)
- Aydendron firmulum* Nees (35)
- Aydendron permolle* Nees (5)
- Aydendron suaveolens* Nees (2)
- Aydendron suaveolens* Nees var. β Nees (44)
- Camphoromoea laxa* Nees (43)
- Camphoromoea subtriplinervia* Nees (31)
- Camphoromoea tenuiflora* (Nees) Meisn. (33)
- Camphoromoea venulosa* Nees (52)
- Cassytha americana* Nees var. *brasiliensis* (Nees) Meisn. (7)
- Cassytha americana* Nees var. *puberula* (Nees) Meisn. (7)
- Cassytha brasiliensis* Mart. ex Nees (7)
- Cassytha filiformis*** L. (7)
- Cinnamomum camphora*** (L.) J. Presl (Remarks)
- Cinnamomum erythropus*** (Nees & Mart.) Kosterm. (8)
- Cinnamomum verum*** J. Presl (9)
- Cinnamomum zeylanicum* Blume (9)
- Cinnamomum zeylanicum* Blume var. *microphyllum* Nees (9)
- Cinnamomum zeylanicum* Breyn. (9)
- Chlorocardium rodiei*** (R.H. Schomb.) Rohwer, H.G. Richt. & van der Werff (10)
- Cryptocarya ai-üva* Mart. ex Nees (5)
- Cryptocarya canelilla* Kunth (2)
- Cryptocarya guianensis* Meisn. (10)
- Cryptocarya laevis* Nees ex Mart. (1)
- Cryptocarya mandioccana*** Meisn. (10)
- Cryptocarya monticola* Mart. (48)
- Cryptocarya monticola* Mart. ex Nees (48)
- Cryptocarya moschata* Mart. (10)
- Cryptocarya moschata*** Nees & Mart. (10)
- Cryptocarya pretiosa* Mart. (2)
- Cryptocarya pyriformis levis* Nees (1)
- Cryptocarya riedeliana*** P.L.R. Moraes (10)
- Dicypellium caryophyllatum* Nees (11)
- Dicypellium caryophyllaceum*** (Mart.) Nees & Mart. (2, 11)
- Endlicheria paniculata*** (Spreng.) J.F. Macbr. (Remarks)
- Goeppertia hirstuta* (Schott) Nees (Remarks)
- Gymnobalanus minarum* Nees & Mart. (45)
- Laurus adamantina* Mart. (54)
- Laurus aiüuva* Mart. (5)
- Laurus amazonum* Mart. (17)
- Laurus amoena* Mart. (26)
- Laurus aurantiodora* Ruiz & Pav. (44)
- Laurus canelilla* Willd. (2)
- Laurus cassioides* Mart. (9)
- Laurus cassioides* Mart. ex Miq. (9)
- Laurus ceanothifolia* Mart. (32)
- Laurus cinnamomum* L. (9)
- Laurus coruscans* Bonpl. ex Willd. (37)
- Laurus crassifolia* Poir. (13)
- Laurus cuspidata* Mart. (19)
- Laurus dura* Mart. (42)
- Laurus egensis* Mart. (19)
- Laurus hihua* Ruiz & Pav. (20)

- Laurus japurensis* Mart. (21)
Laurus leptobotra Ruiz & Pav. (33)
Laurus longifolia Mart. (37)
Laurus membranacea Sw. (23)
Laurus nitida Ruiz & Pav. (33)
Laurus ocotea Rich. (39)
Laurus opifera Mart. ex Meisn. (44)
Laurus paniculigera Mart. ex Colla (Remarks)
Laurus pauciflora Mart. (46)
Laurus paulina Mart. (47)
Laurus persea L. (58)
Laurus pichurim Mart. (15)
Laurus pretiosa Mart. (2)
Laurus pubescens Dombey (29)
Laurus purpurea Ruiz & Pav. (28)
Laurus quixos Lam. (2)
Laurus reticulata Ruiz & Pav. (29)
Laurus riparia Mart. (12)
Laurus sanguinea (Rol.) Sw. (11)
Laurus saporosa Mart. (26)
[Laurus] *sarcocalyx* Mart. (24)
Laurus villosa Willd. (29)
Leptodaphne subalpina Nees (33)
Leptodaphne tenuiflora Nees (33)
Licaria brasiliensis (Nees) Kosterm. (12)
Licaria cannella (Meisn.) Kosterm. (13)
Licaria cayennensis (Meisn.) Kosterm. (13)
Licaria crassifolia (Poir.) P.L.R. Moraes (13)
Licaria cymbarum (Kunth) Pittier (37)
Licaria polyphylla (Nees) Kosterm. (14)
Licaria puchury-major (Mart.) Kosterm. (15)
Mespilodaphne aurantiodora (Ruiz & Pav.) Meisn. (44)
Mespilodaphne ceanothifolia Nees (32)
Mespilodaphne complicata Meisn. (35)
Mespilodaphne glauca (Nees) Meisn. var. *virescens* Meisn. (47)
Mespilodaphne indecora (Schott) Meisn. (41)
Mespilodaphne indecora (Schott) Meisn. var. *stricta* Meisn. (41)
Mespilodaphne nitida (Ruiz & Pav.) Meisn. (33)
Mespilodaphne nutans (Nees) Meisn. (47)
Mespilodaphne opifera (Mart.) Meisn. (2, 44)
Mespilodaphne phillyreoides (Nees) Meisn. (48)
Mespilodaphne phillyreoides Nees (Meisn.) var. *oblonga* Meisn. (48)
Mespilodaphne pretiosa Nees & Mart. (2)
Mespilodaphne pretiosa Nees & Mart. var. *angustifolia* Nees (2)
Mespilodaphne pulchella (Nees & Mart.) Meisn. (49)
Mespilodaphne pulchella (Nees & Mart.) Meisn. var. *elliptica* Meisn. (49)
Mespilodaphne pulchella (Nees & Mart.) Meisn. var. *ferruginea* Meisn. (49)
Mespilodaphne tristis Meisn. (53)
Metrodorea nigra A. St.-Hil. (Remarks)
Mezilaurus navalium (Allemão) Taub. ex Mez (10)
Misanteca brasiliensis (Nees) Lundell (12)
Misanteca cannella (Meisn.) Lundell (13)
Misanteca cayennensis (Meisn.) Lundell (13)
Misanteca cymbarum (Kunth) Lundell (37)
Misanteca polyphylla (Nees) Lundell (14)
Misanteca puchury-major (Mart.) Lundell (15)
Mutisiopersea rufotomentosa (Nees & Mart.) Kosterm. (59)
Nectandra acuminata (Nees & Mart.) J.F. Macbr. (16)
Nectandra acutifolia (Ruiz & Pav.) Mez (16)
Nectandra acutissima Nees ex Meisn. (25)
Nectandra amara Meisn. var. *chartacea* Meisn. (27)
Nectandra amara Meisn. var. *subevenia* Meisn. (27)
Nectandra amazonum Nees (17)
Nectandra berchemiifolia Meisn. (16)
Nectandra berchemiaefolia Meisn. (16)
Nectandra canescens Nees & Mart. (18, 27)
Nectandra cuspidata Nees & Mart. (19)
Nectandra cuspidata Nees & Mart. var. *macrocarpa* Nees (23)
Nectandra cymbarum (Kunth) Nees (2, 37)
Nectandra hihua (Ruiz & Pav.) Rohwer (20, 22)
Nectandra japurensis Nees & Mart. (21)
Nectandra latifolia (Kunth) Mez (28)
Nectandra leucantha Nees & Mart. (10, 22)
Nectandra leucantha Nees var. *peruviana* Meisn. (20)
Nectandra lucida Nees (20)
Nectandra megapotamica (Spreng.) Mez (24, 26)
Nectandra membranacea (Sw.) Griseb. (23)
Nectandra membranacea (Sw.) Griseb. ssp. *cuspidata* (Nees & Mart.) Rohwer (19)
Nectandra mollis (Kunth) Nees (29)
Nectandra mollis (Kunth) Nees ssp. *oppositifolia* (Nees & Mart.) Rohwer (25)
Nectandra neesiana Miq. (46)
Nectandra nitidula Nees & Mart. (24)
Nectandra nitidula Nees & Mart. var. *maior* Nees (13, 24)
Nectandra nitidula Nees & Mart. var. *minor* Nees (24)
Nectandra nitidula Nees & Mart. var. *nitidula* (24)
Nectandra oppositifolia Nees & Mart. (25)
Nectandra oppositifolia Nees & Mart. fo. *intermedia* Mez (25)
Nectandra oppositifolia Nees & Mart. var. *angustifolia* Nees & Mart. (25)
Nectandra oppositifolia Nees & Mart. var. *oppositifolia* (25)
Nectandra polita Nees & Mart. (28)
Nectandra polyphylla Nees (14)
Nectandra psammophila Nees & Mart. (26)
Nectandra puberula (Schott) Nees (27)
Nectandra puchury-major (Mart.) Nees & Mart. (2, 15)
Nectandra puchury-minor (Mart.) Nees (2, 6)
Nectandra purpurea (Ruiz & Pav.) Mez (28)
Nectandra reticulata (Ruiz & Pav.) Mez (29)
Nectandra rigida (Kunth) Nees var. *canescens* Mez (18)
Nectandra rodgiaei Schomb. (10)
Nectandra rodioei R.H. Schomb. (10)
Nectandra sarcocalyx Nees (24, Remarks)
Nectandra schomburgkii Meisn. (20)
Nectandra schottii Meisn. (25)

- Nectandra villosa* Nees & Mart. var. *venosa* Nees (29)
Nectandra virgultosa Nees (56)
Nectandra xanthocalyx Nees & Mart. (57)
Ocotea acutifolia (Nees) Mez (Remarks)
Ocotea amara Mart. (37)
Ocotea aurantiodora (Ruiz & Pav.) Mez (44)
Ocotea bracteolata (Nees) Mez (30)
Ocotea camphoromoea Rohwer (31)
Ocotea caryophyllacea (Mart.) Kostel. (11)
Ocotea ceanothifolia (Nees) Mez (32)
Ocotea cernua (Nees) Mez (33)
Ocotea citrosmoides (Nees) Mez (34)
Ocotea complicata (Meisn.) Mez (35)
Ocotea cujumary Mart. (36)
Ocotea cymbarum Kunth (37)
Ocotea daphnoides Mart. (42)
Ocotea declinata (Meisn.) Mez (38)
Ocotea deflexa Rohwer (38)
Ocotea desertorum Mart. (4)
Ocotea fallax Miq. ex Mez (46)
Ocotea fasciculata (Nees) Mez (35)
Ocotea firmula Mart. (35)
Ocotea glauca (Nees) Mez var. *virescens* (Meisn.) Mez (47)
Ocotea guianensis Aubl. (39)
Ocotea hypoglauca (Nees & Mart.) Mez (40)
Ocotea indecora (Schott) Mez (41)
Ocotea lanceolata (Nees) Nees (42)
Ocotea lancifolia (Schott) Mez (42, 54)
Ocotea latifolia Kunth (28)
Ocotea laxa (Nees) Mez (43, 52)
Ocotea leptobotra (Ruiz & Pav.) Mez (33)
Ocotea longifolia Kunth (44)
Ocotea lucida Mart. (20)
Ocotea membranacea (Sw.) R.A. Howard (23)
Ocotea minarum (Nees & Mart.) Mez (45)
Ocotea mollis Kunth (29)
Ocotea neesiana (Miq.) Kosterm. (46)
Ocotea nutans (Nees) Mez (47)
Ocotea obtusifolia Mart. (4)
Ocotea odorifera (Vell.) Rohwer (2, 42)
Ocotea opifera Mart. (44)
Ocotea petalanthra (Meisn.) Mez (30)
Ocotea phillyreoides (Nees) Mez (48)
Ocotea pretiosa (Nees & Mart.) Benth. (2)
Ocotea pretiosa Mez (2, 42)
Ocotea pretiosa Mez var. *indecora* (Schott) Vattimo-Gil (41)
Ocotea puchury-major Mart. (15)
Ocotea puchury-minor Mart. (6)
Ocotea pulchella (Nees & Mart.) Mez (49)
Ocotea quixos (Lam.) Kosterm. (2)
Ocotea rufotomentosa Mart. (50)
Ocotea spixiana (Nees) Mez (50)
Ocotea suaveolens (Meisn.) Benth. ex Hieron. (2)
Ocotea subacris Mart. (42)
Ocotea subalpina (Nees) Mez (33)
Ocotea subdecumbens M.A. Lisboa & J. Badini (47)
Ocotea subtriplinervia (Nees) Mez (31)
Ocotea tabacifolia (Meisn.) Rohwer (51)
Ocotea teleiandra (Meisn.) Mez (52)
Ocotea tenuiflora (Nees) Mez (33, 46)
Ocotea tristis (Nees & Mart.) Mez (48, 53)
Ocotea tubigera Mart. (45)
Ocotea umbrosa Kunth (51)
Ocotea umbrosa (Nees) Mart. ex Mez (51)
Ocotea variabilis Mart. ex Nees (54)
Ocotea variabilis (Nees) Mez (54)
Ocotea velutina Mart. (55)
Ocotea velutina (Nees) Rohwer (55)
Ocotea venulosa (Nees) Baitello (52)
Ocotea virgultosa (Nees) Mez (56)
Ocotea xanthocalyx (Nees & Mart.) Mez (57)
Oreodaphne bracteolata Meisn. (30)
Oreodaphne cernua Nees (33)
Oreodaphne citrosmoides Nees (34)
Oreodaphne declinata Meisn. (38)
Oreodaphne dispersa Nees & Mart. (46)
Oreodaphne fallax Miq. (46)
Oreodaphne glauca Nees (52)
Oreodaphne guianensis (Aubl.) Nees (39)
Oreodaphne guianensis (Aubl.) Nees var. *argentea* Meisn. (39)
Oreodaphne guianensis (Aubl.) Nees var. *guianensis* (39)
Oreodaphne indecora (Schott) Nees (41)
Oreodaphne japurensis Meisn. (46)
Oreodaphne kunthiana Meisn. (47)
Oreodaphne lancifolia (Schott) Nees (42)
Oreodaphne leptobotra (Ruiz & Pav.) Nees (33)
Oreodaphne longifolia (Kunth) Nees (44)
Oreodaphne martiana Nees (42)
Oreodaphne martiana Nees var. *thymelaeoides* Meisn. (42)
Oreodaphne minarum Steud. (51)
Oreodaphne nitidula Nees & Mart. (42)
Oreodaphne nitidula Nees & Mart. var. *lanceolata* Meisn. (42)
Oreodaphne nutans Nees (47)
Oreodaphne nutans Nees var. *sylvestris* Nees (47)
Oreodaphne opifera (Mart.) Nees (44)
Oreodaphne phillyreoides Nees (48)
Oreodaphne pulchella Nees & Mart. (49)
Oreodaphne spixiana Nees (50)
Oreodaphne suaveolens Meisn. (2)
Oreodaphne subalpina (Nees) Meisn. (33)
Oreodaphne teleiandra Meisn. (52)
Oreodaphne thymelaeoides Nees & Mart. (42)
Oreodaphne tristis Nees & Mart. (53)
Oreodaphne tristis Nees & Mart. var. *oblongifolia* Nees & Mart. (53)
Oreodaphne tristis Nees & Mart. var. *tristis* (53)
Oreodaphne umbrosa Nees (51)
Oreodaphne umbrosa (Kunth) Nees (51)
Oreodaphne variabilis Nees (54)
Oreodaphne velutina Nees (55)
Oreodaphne venulosa (Nees) Meisn. (52)
Persea acuminata Nees & Mart. (16)

Persea americana Mill. (58)
Persea canescens Mart. (18)
Persea caryophyllacea Mart. (11)
Persea caryophyllata Mart. (11)
Persea ceanothifolia Mart. ex Nees (32)
Persea erythropus Mart. (8)
Persea erythropus Nees & Mart. (8)
Persea erythropus Nees & Mart. var. *angustata* Meisn. (8)
Persea erythropus Nees & Mart. var. *mixtinervia* Meisn. (8)
Persea gratissima Gaertn. (58)
Persea hypoglaucula Mart. (60)
Persea hypoglaucula Nees & Mart. (40)
Persea indecora Schott (41)
Persea lancifolia Schott (42)
Persea laxa Mart. (43)
Persea laxa Mart. ex Nees (43)
Persea leucantha Mart. (22)
Persea longifolia (Kunth) Spreng. (44)
Persea membranacea (Sw.) Spreng. (23)
Persea mollis (Kunth) Spreng. (29)

Persea paniculigera Mart. (24)
Persea puberula Schott (27)
Persea rufotomentosa Nees & Mart. (59)
Persea sarcocalyx Mart. (24)
Persea scrobiculata Meisn. (40)
Persea subtripplinervia Mart. ex Nees (31)
Persea tabacifolia Meisn. (51)
Persea tenuiflora Mart. (33)
Persea tenuiflora Mart. ex Nees (33)
Persea venosa Nees & Mart. (40, 60)
Persea venosa Nees & Mart. var. β *tersa* Nees & Mart. (60)
Petalanthera bracteolata Nees (30)
Petalanthera paniculigera Nees (24)
Phoebe erythropus (Nees & Mart.) Mez (8)
Phoebe membranacea (Sw.) Nees (23)
Pomatium canescens Mart. (18)
Pomatium oppositifolium Nees (25)
Silvia navalium Allemão (10)
Strychnodaphne lanceolata Nees (42)
Teleiandra glauca Nees & Mart. (52)

INDEX TO COLLECTIONS

Numbers in **bold** in parentheses refer to the species number in treatment.

Ackermann V no. 121 = Martii Herbar. Florae Brasil. N° 169 (**29**)
 Ackermann s.n. = Martii Herbar. Florae Brasil. N° 1238 (**8**)
 Anonymous s.n. [JE 00000523] (**1**)
 Anonymous s.n. [GZU 000265498] (**8**)
 Anonymous s.n. [GZU 000249358] (**24**)
 Anonymous s.n. [GZU 000259200] (**24**)
 Anonymous s.n. [K 000642237] (**26**)
 Anonymous s.n. [K 000642238] (**26**)
 Anonymous s.n. [MEL 2324399] (**42**)
 Anonymous s.n. [B 10 0185383] (**44**)
 Aublet s.n. [BM 000947302] (**39**)
 Aublet s.n. [P 00756908] (**39**)
 Blanchet 301 (**47**)
 Blanchet 3192 (**38**)
 Blanchet 3192A (**38**)
 Blanchet 3250 (**47**)
 Blanchet 3250B (**47**)
 Claussen 47 (**27**)
 Claussen 78 (**27**)
 Claussen 106 = Martii Herbar. Florae Brasil. N° 1239 (**24**)
 Claussen 107 = Martii Herbar. Florae Brasil. N° 1239 (**24**)
 Claussen 108 (**8**)
 Claussen 2078 (**27**)
 Claussen s.n. = Martii Herbar. Florae Brasil. N° 1239 (**24**)
 Dombey s.n. [B 10 0185149, G-DC, GZU 000254296, MA 811775, P 00745320, P 00745321, P-JU 00662847] (**29**)
 Dombey s.n. [P 00756826, P 00756827] (**33**)
 Guillemin 667 (**27**)
 Herb. Clifford: 154, Laurus 6, sheet B [BM 000558701] (**9**)
 Herb. Sloane Vol. VII: 77 [BM-SL 000594115] (**58**)
 Hornemann s.n. [C, GZU 000260297] (**33**)
 Hostmann & Kappler 1433 (**46**)
 Humboldt & Bonpland 904 (**37**)

Humboldt & Bonpland 1018 (**2**)
 Humboldt & Bonpland 1729 (**44**)
 Humboldt & Bonpland s.n. [P 00128755] (**28**)
 Humboldt & Bonpland s.n. [B 10 0185155, B-W 07796 -01 0 & B-W 07796 -00 0, F (0061634F), GZU 000254324, NY 00355629, NY 00355630, P 00128743, P 00128746, U 0002912, US 00028321] (**29**)
 Kohaut s.n. = Sieber Flora martin. N° 106 (**33**)
 Lisboa & Badini s.n. [OUPR (26600), OUPR (18212)] (**47**)
 Lisboa & Badini s.n. [HRCB, OUPR (26600)] (**47**)
 Luschnath 32 (**38**)
 Luschnath s.n. = Martii Herbar. Florae Brasil. N° 420 (**28**)
 Luschnath s.n. = Martii Herbar. Florae Brasil. N° 477 (**9**)
 Luschnath s.n. = Martii Herbar. Florae Brasil. N° 478 (**Remarks # 1**)
 Luschnath s.n. = Martii Herbar. Florae Brasil. N° 1307 (**27**)
 Luschnath s.n. = Martii Herbar. Florae Brasil. N° 1311 (**38**)
 Luschnath s.n. [BR 0000008808042] (**28**)
 Martii Herbar. Florae Brasil. N° 117 (**49**)
 Martii Herbar. Florae Brasil. N° 169 (**29**)
 Martii Herbar. Florae Brasil. N° 237 (**1**)
 Martii Herbar. Florae Brasil. N° 420 (**28**)
 Martii Herbar. Florae Brasil. N° 477 (**9**)
 Martii Herbar. Florae Brasil. N° 478 (**Remarks # 1**)
 Martii Herbar. Florae Brasil. N° 1238 (**8**)
 Martii Herbar. Florae Brasil. N° 1239 (**24**)
 Martii Herbar. Florae Brasil. N° 1307 (**27**)
 Martii Herbar. Florae Brasil. N° 1311 (**38**)
 Martius Obs. 261 (**33**)
 Martius Obs. 411 (**26**)
 Martius Obs. 512 (**49**)
 Martius Obs. 546 (**24**)
 Martius Obs. 595 (**49**)
 Martius Obs. 678 (**43**)

- Martius Obs. 883 **(8)**
 Martius Obs. 903 **(40)**
 Martius Obs. 1095 b **(10)**
 Martius Obs. 1112 **(42)**
 Martius Obs. 1183 **(55)**
 Martius Obs. 1188 **(51)**
 Martius Obs. 1223 **(34)**
 Martius Obs. 1704 **(22)**
 Martius Obs. 1770 **(57)**
 Martius Obs. 2617 **(11)**
 Martius Obs. 2750 **(18)**
 Martius Obs. 2796 **(44)**
 Martius Obs. 2908 **(5)**
 Martius Obs. 3174 **(32)**
 Martius "n. 79" **(42)**
 Martius s.n. [M 0121069, M 01121070, M 0121071, M 0121072, MEL 2318499] **(2)**
 Martius s.n. [G, MEL 2318499] **(2)**
 Martius s.n. [BR 0000008685865] **(2)**
 Martius s.n. [M 0147109] **(3)**
 Martius s.n. [M 0147104, M 0147105, M 0147106, M 0147107, M 0147108] **(4)**
 Martius s.n. [M 0147107] **(4)**
 Martius s.n. [B[†], M 0113213] **(6)**
 Martius s.n. [GZU 000254329, M 0112564] **(6)**
 Martius s.n. [M 0112563] **(6)**
 Martius s.n. [M] **(7)**
 Martius s.n. [M] **(7)**
 Martius s.n. [M 0147195] **(8)**
 Martius s.n. [BR, M 0147232] **(9)**
 Martius s.n. [L 0036030, M 0147236] **(9)**
 Martius s.n. [B 10 0185010, B 10 0185011, G, GZU 000254389, M 0147268] **(11)**
 Martius s.n. [M 0147266] **(11)**
 Martius s.n. [M 0147267] **(11)**
 Martius s.n. [L 0308064, M 0147427, M 147428, M 0147429, MEL 2324398, S (R-7276)] **(12)**
 Martius s.n. [GZU 000256425, M 0147426] **(13)**
 Martius s.n. [GZU 000254280, M 0147422] **(14)**
 Martius s.n. [B[†], BR 0000008812841, G 00368872, GZU 000254328, L 0036458, M 0147419, M 0147420, M 0147421] **(15)**
 Martius s.n. [M 0147319] **(16)**
 Martius s.n. [GZU 000254251, M 0147314] **(17)**
 Martius s.n. [B 10 0185108, G, GZU 000254252, L 0037115, M 0147315, M 0147316, M 0147317, M 0147318, MEL 2324402, U 0002889] **(17)**
 Martius s.n. [B 10 0185095] **(18)**
 Martius s.n. [B 10 0086138, GZU 000254262, L 0037121, L 0037122, L 1802480, M 0147303, M 0147304] **(19)**
 Martius s.n. [GZU 000254262, M 0147302, M 0147306] **(19)**
 Martius s.n. [GZU 000254261, M 0147305] **(19)**
 Martius s.n. [GZU 000249367, M 0121041] **(20)**
 Martius s.n. [M 0147294] **(20)**
 Martius s.n. [B 10 0185058, B 10 0185059, GZU 000254272, HBG, L 0037128, M 0147292, M 0147293] **(21)**
 Martius s.n. [M 0147307] **(23)**
 Martius s.n. [GZU 000249360, M 0111060] **(24)**
 Martius s.n. [GZU 000256425, M 0111063] **(24)**
 Martius s.n. [GZU 000249359, M 0111061] **(24)**
 Martius s.n. [GZU 000254287, M 0111065] **(24)**
 Martius s.n. [M 0121027] **(25)**
 Martius s.n. [M 0121029] **(25)**
 Martius s.n. [GZU 000249322, M 0121030] **(25)**
 Martius s.n. [M 0121033] **(26)**
 Martius s.n. [BR 0000008810526] **(27)**
 Martius s.n. [GZU 000249355, M 0121031] **(28)**
 Martius s.n. [B 10 0185271, GZU 000254422, HBG, M 0147154, M 0147155, NY 00355873] **(30)**
 Martius s.n. [GZU 000265483, M 0147153] **(30)**
 Martius s.n. [B 10 0185426, M 0147134, M 0147135, M 0147136, M 0147137, M 0147138, M 0147139] **(31)**
 Martius s.n. [GZU 000254159, M 0147140] **(33)**
 Martius s.n. [M 0111195, M 0111196] **(35)**
 Martius s.n. [B 10 0185244, M 0121076, M 0121077, NY 00355591] **(36)**
 Martius s.n. [B 10 0185242, L 0036963, M 0147301] **(37)**
 Martius s.n. [M 0147117] **(39)**
 Martius s.n. [M 0147112] **(41)**
 Martius s.n. [B 10 0185347, GZU 000254355] **(42)**
 Martius s.n. [GZU 000254358, M 0111039] **(42)**
 Martius s.n. [GZU 000254370, M 0111037] **(42)**
 Martius s.n. [M 0111036] **(43)**
 Martius s.n. [M 0121058] **(44)**
 Martius s.n. [B 10 0185382, M 0121059, M 0121061] **(44)**
 Martius s.n. [GZU 000253871, M 0111041] **(45)**
 Martius s.n. [GZU 000253871, M 0111044] **(45)**
 Martius s.n. [GZU 000253871, M 0111045] **(45)**
 Martius s.n. [GZU 000254347, L, M 0111069, M 0111070, MEL 2318483, NY 00355728] **(46)**
 Martius s.n. [L, M 0111192, MEL] **(47)**
 Martius s.n. [M 0111191] **(47)**
 Martius s.n. [M 0111178] **(48)**
 Martius s.n. [GZU 000254368, M 0111181, M 0111182, M 0111183, M 0111184, NY 00355782] **(50)**
 Martius s.n. [GZU 000253888, M 0147133] **(52)**
 Martius s.n. [M 0111177] **(53)**
 Martius s.n. [B 10 0185417, GZU 000254373, L, M 0121081, M 0121082, MEL 2324404] **(54)**
 Martius s.n. [GZU 000254374, GZU 000254375, M 0121084] **(55)**
 Martius s.n. [M 0121086] **(55)**
 Martius s.n. [GZU 000249348, M 0121088] **(56)**
 Martius s.n. [GZU 000254384, M] **(58)**
 Martius s.n. [GZU 000254417, M 0147211, M 0147212, M 0147213] **(59)**
 Martius s.n. [M 0147206] **(60)**
 Osbeck s.n. [LINN 519.1] **(7)**
 Osbeck s.n. [S (05-4065)] **(7)**
 Patris 41 **(13)**
 Poeppig 2426 **(30)**
 Poeppig 2769 **(5)**
 Pohl 3604 **(51)**
 Richard s.n. [P 00128463, P 00128464, P 00128465, P-JU 00662838] **(13)**

- Riedel 307 (28)
 Riedel 374 (7)
 Riedel 480 (27)
 Riedel 688 (1)
 Riedel 766 (35)
 Riedel 776 (35)
 Riedel 2777 (8)
 Riedel s.n. [B[†], G 00020674, GOET [2 sheets], K 000601965, L 0035527, LE [3 sheets], NY 00354799] (1)
 Riedel s.n. [B[†], GOET 007344, GOET 007345, K 000601800, L 0036185, L 0036186, LE [2 sheets], NY 00355045, OXF 00057026, OXF 00057027, U, US 00051077] (10)
 Riedel & Luschnath s.n. = Martii Herbar. Florae Brasil. N° 478 (Remarks # 1)
 Ruíz & Pavón s.n. [B 10 0185160, BM 000947299, F (0040316F), G 00369268, MA 811806, OXF 00000255] (28)
 Ruíz & Pavón s.n. [F (0040293F), MA 811776, MA 811778, MA 811780] (29)
 Ruíz & Pavón s.n. [A 00041960, B 10 0185150, BC 872724, BM 000947252, BR 0000008808370, F (0040319F), F (0040320F), FI-W, G 00020755, G 00020756, G 00020758, G (14 sheets), GZU 000261284, HAL 0010378, MA 811777, MA 811779, MA 811781, P 00571439, P 00571440, P 00571441] (29)
 Ruíz & Pavón s.n. [B 10 0247502, BM 000947285, F (0061414F), F (0061419F), G [2 sheets], G, HAL 0103800, MA 811787, MA 811788, NY 00355164, P 00756828] (33)
 Ruíz & Pavón s.n. [B 10 0247503, F (0061415F), F (0061416F), G, GZU 000254142, MA 811790, MA 811791, NY 00355162] (33)
 Ruíz & Pavón s.n. [B 10 0247398, F (0061413F), G, MA [2 sheets], MA 811782] (44)
 Sagot 1190 (13)
 Schott 5600 (41)
 Schott 5607 (25)
 Schott 5609 (27)
 Schott 5610 (41)
 Schott s.n. [B 10 0185167, GZU 000254414, P 00711066, P 00711067] (27)
 Schott s.n. [B 10 0000017] (41)
 Schott s.n. [B 10 0000020] (42)
 Sellow XXIV (60)
 Sellow LVI (25)
 Sellow 28 (24)
 Sellow 144 (49)
 Sellow 399 (52)
 Sellow 459 (49)
 Sellow 1360 (8)
 Sellow 1368* (24)
 Sellow 4428 (25)
 Sellow 4495 (24)
 Sellow 4803 (XXI) (40)
 Sellow 5636 (45)
 Sellow 5722 (25)
 Sellow 5867 (55)
 Sellow 5928 (55)
 Sellow B 1362 c 393 (48)
 Sellow B 1378 c 413 (49)
 Sellow B 1384 c 419 (55)
 Sellow B 1387 c 422 (60)
 Sellow d 2324 (49)
 Sellow s.n. [B 10 0185048] (22)
 Sellow s.n. [B 10 0185227] (24)
 Sellow s.n. [B 10 0185226, BR 0000008808479, CGE, E 00259309] (24)
 Sellow s.n. [GZU 000249356, HAL 0010385] (25)
 Sellow s.n. [GZU 000249357] (25)
 Sellow s.n. [B 10 0185172] (25)
 Sellow s.n. [B 10 0185175] (25)
 Sellow s.n. [B 10 0185313] (40)
 Sellow s.n. [B 10 0185314] (40)
 Sellow s.n. [B[†], GZU 000249333, VT 001552] (42)
 Sellow s.n. [B 10 0000024] (43)
 Sellow s.n. [B 10 0000025] (43)
 Sellow s.n. [HAL 0010445] (43)
 Sellow s.n. [B 10 0185388, G 00021062, P 01958844] (47)
 Sellow s.n. [G-DC 00201230, HAL 0103830] (48)
 Sellow s.n. [B 10 0185370] (48)
 Sellow s.n. [TUB 019041] (49)
 Sellow s.n. [BR 0000008767165, F (0061819F), G, GZU 000249332] (52)
 Sellow s.n. [HAL 0103829] (52)
 Sellow s.n. [B 10 0185414] (55)
 Sellow s.n. [CGE] (55)
 Sellow s.n. [E 00259499] (55)
 Sellow s.n. [HAL 0010486] (55)
 Sellow s.n. [LE 00006785] (55)
 Sellow s.n. [M 0111066] (Remarks # 3)
 Sieber Flora martin. N° 106 (33)
 Sieber Flora mixta. N° 385 (33)
 Silva Manso 278 = Martii Herbar. Florae Brasil. N° 117 (49)
 Silva Manso s.n. = Martii Herbar. Florae Brasil. N° 1307 (27)
 Spruce 3058 (14)
 Swartz s.n. [BM 000758874, S (R-3166), S (09-16300)] (23)
 Swartz s.n. [SBT 11582] (23)
 Tafalla s.n. [B 10 0185060, F [0040309F], FI-W 005165, G 00369022, MA 811751, MA 811752] (20)
 Tweedie s.n. [E 00259433] (24)
 Wied s.n. [B 10 0185169, BR 0000008808066, BR 0000008808363, GOET 000753, GZU 000254281, MEL 2324403, MEL 2324386] (26)