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Revisiting the Typification of Thirty One Names in *Aporosa* and *Baccaurea* (Phyllanthaceae)

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Abstract: The present paper, based on the study of literature, protologues and type specimens, deals with formal lectotypification of 29 names in the genera *Aporosa* Blume and *Baccaurea* Lour. occurring in Southeast Asia and Malesia. Additionally, one name in each of these genera has been neotypified for correct application of these names.

Keywords: *Aporosa; Baccaurea; lectotypification; neotypification; Southeast Asia; Malesia.*

INTRODUCTION

The genus *Aporosa* Blume, comprising about 90 species, is Indo-Malesian in distribution, extending to the Solomon Islands (Chakrabarty & Balakrishnan, 2018). On the other hand, the genus *Baccaurea* Lour. is also Indo-Malesian in distribution, extending to the W. Pacific Islands and it comprises about 56 species (Chakrabarty & Balakrishnan, 2018). POWO (2026) lists 85 accepted species for the former and 50 accepted species for the latter. While studying these genera in Southeast Asia and Malesia, the author came across several names which are not properly typified or the typifications are ineffective due to non-compliance of the rules of the Madrid Code (Turland et al., 2025). Such 31 names have been treated here with formal typifications. While 29 names have been lectotypified, neotypes have been designated for two names to ensure correct application of these names.

MATERIALS AND METHODS

The present paper is based on study of the relevant protologues, literature and type materials or their images available at various herbaria. Type materials from the herbaria other than CAL were consulted through online sources including institutional websites, Global Biodiversity Information Facility (GBIF) and JSTOR Global Plants. Status of the accepted names and synonyms are based on the earlier revisionary works. The guidelines of the Madrid Code (Turland et al., 2025) were followed in designating the lectotypes and neotypes.

TYPIFICATIONS IN *APOROSA*

Aporosa arborea (Blume) Müll.Arg. in DC., Prodr. 15(2): 470. 1866. – *Leiocarpus arboreus* Blume, Bijdr. Fl. Ned. Ind. 582. 1826.

Type (lectotype designated here): Indonesia, Java, Salak, s.d., *C.L. Blume s.n.* (L0062743, image!). Additional original material: Indonesia, Java, Salak, s.d., *C.L. Blume 859* (K001056434, image!). Indonesia, Java, Salak, s.d., *C.L. Blume 779* (L0273593, image!). Indonesia, Java, Without locality and date, [Herb.] *C.L. Blume s.n.* (L0273595, image!).

Daphniphyllum kingii Hook.f., Fl. Brit. India 5: 354. 1887.

Type (lectotype designated here): Malaysia, Perak, April 1885, *King's collector 7454* (K001056307, image!; isolectotype K005125533, image!). Additional syntype: Malaysia, Perak, *B.Schortechini* – n.v.

Baccaurea forbesii Pax & K.Hoffm. in Engl., Pflanzenr. IV. 147. XV (Heft 81): 56. 1922.

Type (lectotype designated here): Indonesia, Sumatra, 1880, *H.O. Forbes 3165* (BM000951324, image!; isolectotypes BR0000006999308, GH00098304, L0016065, L0016066, L0041548, L0041549, images!).

Notes: Schot (2004: 322) cited the type of *Leiocarpus arboreus* as: "Type: *Blume s.n.* (L, barcode L 0062743), Java, Salak." This was not an effective lectotypification as per Art. 7.11 (Turland et al., 2025) in absence of a typification statement. An original material at L marked as type is selected here as the lectotype of the name. In case of *Daphniphyllum kingii*, two duplicates of the syntype *King's collector* 7454 could be traced out at K of which the better fruiting material is designated here as the lectotype. Next, in the protologue of *Baccaurea forbesii* only one collection, *Forbes* 3165 was cited. The holotype of the name is not extant at B. Schot (2004: 322) cited the type of *B. forbesii* as: "Type: *Forbes 3165* (holo BM; iso L), Sumatra." This was not an

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effective lectotypification as per Art. 7.11 (Turland et al., 2025). Hence, a good duplicate at BM is selected here as the lectotype as per Art. 9.11 (Turland et al., 2025).

Aporosa banahaensis (Elmer) Merr., Enum. Philipp. Fl. Pl. 2: 410. 1923. – *Baccaurea banahaensis* Elmer in Leafl. Philipp. Bot. 4: 1475. 1912.
Type (lectotype designated here): Philippines, Luzon, Tayabas Province, Lucban (Mt. Banahao), May 1907, *A.D.E. Elmer 9106* (NY00246266, image!; isolectotypes BM000611737, BO-1246180, E00504766, G00434092, HBG516571, K005861775, L0041525, MO herb. acc. no. 705431, US00109959, Z-000015892, images!).
Aporosa similis Merr. in Philipp. J. Sci. C 9: 472. 1914 (publ. 1915).
Type (lectotype designated here): Philippines, Negros, 1907, *H.D. Everett FB 7279* (P00610404, image!; isolectotype US00109956, image!).
Aporosa agusanensis Elmer in Leafl. Philipp. Bot. 7: 2636. 1915.
Type (lectotype designated here): Philippines, Mindanao, Agusan Province, Cabadbaran (Mt. Urdaneta), August 1912, *A.D.E. Elmer 13415* (K001056404, image!; isolectotypes A00102944, BISH1001482, BM000611755, BO-1246181, GH00045719, HBG516597, L0041524, MO herb. acc. no. 749530, P00610403, U0226326, US00109949, US01266256, Z-000015876, images!).
Notes: *Baccaurea banahaensis* was described from the Philippines based on a single collection by *Elmer* bearing field number 9106. Duplicates of this number are available at several herbaria. Of these, a material at NY containing field notes by Elmer is selected here as the lectotype. Schot (2004: 217) cited the type as: "Type: *Elmer 9106* (iso BM, BO, L), Philippines, Luzon, Lucban." This was a mere type citation and not a lectotypification. *Aporosa similis* was also described from the Philippines based on a single collection, *Everett* 7279. Additionally, three paratypes were cited. The holotype at PNH is not extant. However, two duplicates are available at G and US of which the better material at US is selected here as the lectotype. In this case, Schot (2004: 214) cited the type as: "Type: *FB (Everett) 7279* (iso P), Philippines, Negros." This was not an effective lectotypification. As regards *Aporosa agusanensis*, only a single collection, *Elmer* 13415 was cited in the protologue. Duplicates of this collection are available at several herbaria. Of these, the material at K, showing fruits (outside a packet), is designated here as the lectotype of the name. Schot (2004: 214) cited the type as: "Type: *Elmer 13415* (iso A, BM, BO, L, P), Philippines, Mindanao, Cabadbaran." This was a mere citation of type rather than lectotypification.

Aporosa basilanensis Merr. in Philipp. J. Sci. C9: 471. 1915.
Type (lectotype designated here): Philippines, Basilan, 7 Sept. 1912, *J.Reillo BS 16168* (K001056403, image!; isolectotypes BM000611736, P00610402, US00109951, images!).
Notes: *Aporosa basilanensis* was described from the Philippines based on a single gathering, *Reillo* 16168. Schot (2004: 324) cited the type as: "Type: *BS (Reillo) 16168* (holo K; iso BM, P; photo A), Philippines, Basilan." This was not an effective lectotypification under Art. 7.11 (Turland et al., 2025). Hence, a good fruiting material at K is designated here as the lectotype of the name.

Aporosa confusa Gage in Rec. Bot. Surv. India 9: 229. 1922.
Type (lectotype designated by Schot 2004: 217): Singapore, Bukit Timrah, 1894, *H.N. Ridley 6486* (SING, n.v.; isolectotypes CAL0000023060!, K001056312, image!). Additional syntypes: Singapore, Garden Jungle, 1894, *H.N. Ridley 6301* (CAL0000023057!). Singapore, Bukit Mandai, 1894, *H.N. Ridley 6490* (CAL0000023061!). Malaysia, Perak, Chanderian, March 1884, *King's collector 5742* (CAL0000023067!, K005749915, image!). Malaysia, Perak, Ulu Bubong, July 1886, *King's collector 10383* (CAL0000023068!, K005749913, image!). Malaysia, Perak, Ulu Bubong, September 1886, *King's collector 10997* (CAL0000023058!). Malaysia, Pahang, Kwala Lepis, May 1903, *A.D. Machado 11554* (CAL0000023059!).
Aporosa mollis Merr. in Univ. Calif. Publ. Bot. 15: 144. 1929.
Type (lectotype designated here): Malaysia, Borneo, Elphinstone Province, Tawao, October 1922 – March 1923, *A.D.E. Elmer* 21765 (BR0000005055883, image!; isolectotypes A00045714, BM000951327, BM000951328, BO-1246185, C10022294, CAS0026931, CM200161, HBG516590, K001056422, L0041514, M0233624, MO herb. acc. no. 936069, NY00246230, P00610399, PH00003562, S07-14717, U0111868, Z-000015880, images!).
Notes: *Aporosa mollis* was described from Malaysian Borneo based on a single collection, *Elmer* 21765. Schot (2004: 217) cited the type as: "Type: *Elmer 21765* (holo A; iso L), Sabah, Tawau." This was a mere citation of the type and

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not lectotypification because Art. 7.11 (Turland et al., 2025) was not followed. Hence, a good duplicate at BR is designate here as the lectotype of the name.

Aporosa elmeri Merr. in Univ. Calif. Publ. Bot. 15: 142. 1929.
Type (lectotype designated here): Malaysia, Elphinstone Province, Sabah, Tawao, October 1922, *A.D.E. Elmer 20954* (BM000951329, image!; isolectotypes BISH1001483, BO-1246187, BR0000006994402, BRIT952495, C10022291, CAS0026934, CM1240, G00434088, GH00045709, HBG516593, K001056420, L0041580, NY00246228, P00610398, PH00003555, Z-000015878, images!). Paratypes: Malaysia, Elphinstone Province, Sabah, Tawao, October 1922, *A.D.E. Elmer 20826* (BR0000005218622, GH02487382, HBG516595, K005860997, L0274249, NY03932051, PH00756600, U.1464212, images!). Malaysia, Elphinstone Province, Sabah, Tawao, October 1922, *A.D.E. Elmer 21255* (A02487383, BISH1193297, BR0000005218967, CAS662473, CM2776, HBG516594, K005860998, L0274251, U01211922, Z-000091340, images!).
Notes: *Aporosa elmeri* was described from Malaysian Borneo based on *Elmer* 20954. Additionally, two more collections (paratypes), *Elmer* 20826 and 21255 were cited in the protologue. Schot (2004: 331) cited the type as: "Type: *Elmer 20954* (iso BM, BO, L, P), Sabah, Tawau." Thus, she merely cited the type but did not lectotypify the name. As several duplicates of the 'type' are available at different herbaria, a good specimen at BM is selected here as the lectotype of the name.

Aporosa grandistipula Merr. in Philipp. J. Sci. 21: 521. 1922.
Type (lectotype designated here): Malaysia, Sandakan, August 1918, *J.Agama 579* (K001056418, image!; isolectotypes A00026429, P00610394, images!).
Notes: *Aporosa grandistipula* was described from British North Borneo based on a single collection, *Agama* 579. Schot (2004: 333) cited the type as: "Type: *Agama* 579 (iso A, K, P), Sabah." This citation does not account for an effective lectotypification as per Art. 7.11 (Turland et al., 2025). Duplicates of the collection are available at A, K and P. Of these, a good specimen at K is selected here as the lectotype of the name.

Aporosa ledermanniana Pax & K.Hoffm. in Engl., Pflanzenr. IV. 147. XV (Heft 81): 84. 1922.
Type (lectotype designated here): Papua New Guinea, "Kaiser Wilhelmsland, Pionierlager am Sepik, im Sumpfwald.", s.d., *C.L. Ledermann 7270* (K001056394, image!).
Notes: Only one collection, *Ledermann* 7270 was cited in the protologue of *Aporosa ledermanniana.* Schot (2004: 299) cited the type as: "Type: *Ledermann 7270* (holo B†; iso K), Papua New Guinea, Sepik river." The holotype at B is not extant. Hence, the only duplicate found at K is selected here as the lectotype of the name following Art. 9.11 (Turland et al., 2025).

Aporosa leytensis Merr. in Philipp. J. Sci. C 9: 368. 1914 (publ. 1915).
Type (lectotype designated by Schot 1995: 452): Philippines, Leyte, 3 March 1914, *C.A. Wenzel 614* (A00026430, image!; isolectotypes BM000611729, L0041560, US00109955, US01014167, images!).
Aporosa alvarezii Merr. in Philipp. J. Sci. C 9: 470. 1914 (publ. 1915).
Type (lectotype designated here): Philippines, Luzon, Camarines Province, April 1914, *J.R. Alvarez F.B. 21245* (US00109950, image!; isolectotype K001056400, image!). Additional syntypes: Philippines, Luzon, Laguna Province, San Antonio, February 1913, *M.Ramos BS 20567* (K005861791, US01266289, images!).
Notes: *Aporosa alvarezii* was described from the Philippines based on two collections, *Alvarez* 21245 and *Ramos* 20567. Schot (1995: 452) cited the type as: "Type: FB *(Alvarez) 21245* (iso K), Philippines, Luzon." She repeated the citation in a subsequent publication (Schot, 2004). The citation of 'isotype' is not correctable under Art. 9.10 (Turland et al., 2025). Hence, a good specimen, *Alvarez* 21245 at US is designated here as the lectotype of the name.

Aporosa lucida (Miq.) Airy Shaw in Kew Bull., Addit. Ser. 4: 38. 1975. – *Tetractinostigma lucidum* Miq., Fl. Ned. Ind., Eerste Bijv. 471. 1861.
Type (lectotype designated by van Welzen (2024: 193): Indonesia, Sumatra, Lampong Province, Near Tega-nennin, s.d., *J.E. Teysmann HB 4558* (U0001858, image!). Additional syntype: Indonesia, Sumatra, Lampong, s.d., *J.E. Teysmann s.n.* (K001056356, image!).
Aporosa miqueliana Müll. Arg. in DC., Prodr. 15(2): 474. 1866.
Type (neotype designated here): Indonesia, Sumatra, Bingong, s.d., *J.E. Teysmann s.n.* (L0274989, image!).

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Aporosa microsphaera Hook.f., Fl. Brit. India 5: 350. 1887.
Type (lectotype designated by Schot 2004: 253): Malaysia, Perak, August 1885, *King's collector [H.Kunstler] 7933* (P00610420, image!; isolectotype K001056377, image!). Additional syntypes: Malaysia, Perak, Larut, September 1882, *King's collector 3322* (CAL0000023087!). Malaysia, Perak, Larut, October 1882, *King's collector 3501* (G00434124, image!). Malaysia, Perak, s.d., *B.Scortechini s.n.* (CAL0000023088!, G00434123, image!).
Aporosa borneensis Pax & K. Hoffm. in Engl., Pflanzenr. IV, 147. XV (Heft 81): 87. 1922.
Type (lectotype designated here): Indonesia, Borneo, s.d., *P.W. Korthals s.n.* (L0290026, image!). Additional syntypes: Indonesia, Borneo, s.d., *P.W. Korthals s.n.* (K001056354, L0290043, L0290044, L0209945, L0290046, L0290220, images!).
Notes: As per the protologue of *Aporosa miqueliana*, it was described from Sumatra, based on a collection of *Teijsmann* (from Palembang Province, Near Muara-enim) at B. The holotype at B is not extant. Hence, another collection by *Teijsmann* from Sumatra at L is designated here as the neotype. *Aporosa borneensis* was described from Borneo in Indonesia based on a single collection by *Korthals*, without any field number. According to the protologue, the male flowers were not available on the material. The holotype at B is not extant. Schot (2004: 253) cited the type as: "Type: *Korthals s.n.* (iso L), Borneo." This was not an effective lectotypification as per Art. 7.11 (Turland et al., 2025). Hence, a female flowering material at L is designated here as the lectotype of the name.

Aporosa lunata (Miq.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 239. 1873. – *Antidesma lunatum* Miq., Fl. Ned. Ind., Eerste Bijv. 467. 1861.
Type (lectotype designated here): Indonesia, Sumatra, Palembang, Selatan, s.d., *J.E. Teijsmann HB 3960* (U0001860, image!). Additional syntypes: Indonesia, Sumatra, Palembang, s.d., *J.E. Teijsmann s.n.* (L0041501, K001056360, images!).
Bridelia rugosa Miq., Fl. Ned. Ind., Eerste Bijv. 445. 1861.
Type (lectotype designated here or perhaps holotype): Indonesia, Sumatra, Lampong, s.d., *J.E. Teijsmann HB 4544* (U0001859, image!).
Notes: *Antidesma lunatum* was described from Palembang in Sumatra based on a collection by *Teijsmann*. Schot (2004: 281) cited the type as: "Type: *Teysmann s.n.* (holo BO; iso K, L), Sumatra, Palembang." This was not an effective lectotypification as per Art. 7.11 (Turland et al., 2025). Hence the original material collected by *Teijsmann* at U is selected here as the lectotype. In case of *Bridelia rugosa*, the only original material available at U is designated here as the lectotype. Schot (2004: 281) cited the type as: "Type: *Teysmann HB 4544* (holo U, barcode U 0001859), Indonesia, Sumatra, Lampong." Being a publication of 2004, the term 'holo' is not correctable under Art. 9.10 (Turland et al., 2025).

Aporosa nervosa Hook.f., Fl. Brit. India 5: 350. 1887.
Type (lectotype designated here): Malaysia, Malacca, 16 July 1867, *A.C. Maingay* Kew Distrib. No. *1365* (K001056313, image!). Uncited original material: Malaysia, Malacca, 1867-68, *A.C. Maingay 2516*, Kew Distrib. No. *1345* (K001056314, image!).
Notes: The protologue of *Aporosa nervosa* cites: "MALACCA, *Maingay* (*Kew Distrib.* 1365)." The corresponding specimen at K is a fruiting material. However, the protologue also contains a short description of the male inflorescences. There is another specimen collected by *Maingay* at K (barcode K001056314) which bears male inflorescences. Furthermore, it contains drawing of the male flower and bears identification by Hooker in his own handwriting. Thus, this may be regarded as an uncited original material. Schot (2004: 342) cited the type as: Type: *Maingay KD 1365* (holo K), Peninsular Malaysia." However, the name requires lectotypification due to the presence of two different gatherings by *Maingay* at K as stated above. Hence, the fruiting material (barcode K001056313) is designated here as the lectotype.

Aporosa nigricans Hook.f., Fl. Brit. India 5: 347. 1887.
Type (lectotype designated here): Malaysia, Perak, Larut, October 1882, *King's collector 3539* (K001056311, image!; isolectotypes CAL0000023073!, CAL0000023074!). Additional syntypes: Malaysia, Perak, Larut, September 1882, *King's collector 3347* (CAL0000023075!, K005860198, image!).
Notes: The species was described from Perak in Malaysia based on two collections by *King's collector* bearing field numbers 3347 and 3539. The later field number at K is written in such a way that it would appear to be '3839' but clear cut number is written on the duplicates at CAL. Of the two specimens available at K, the better fruiting

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material is selected here as the lectotype of the name. Schot (2004: 258) cited the type as: "Type: *King's Collector 3839* (holo K), Peninsular Malaysia, Perak." This citation does not account for an effective lectotypification under Art. 7.11 (Turland et al., 2025).

Aporosa nigropunctata Pax & K. Hoffm. in Engl., Pflanzenr. IV. 147. XV (Heft 81): 98. 1922.
Type (lectotype designated here): Papua New Guinea, Sepikgebiet, s.d., *C.L. Ledermann 9698* (K001056392, image!; isolectotype L0041497, image!). Additional syntypes: Papua New Guinea, Sepikgebiet, s.d., *C.L. Ledermann 9791* (L0290424, image!). Papua New Guinea, Sepikgebiet, s.d., *C.L. Ledermann 9807* (L0290425, image!).
Notes: *Aporosa nigropunctata* was described from Papua New Guinea based on three collections by *Ledermann* bearing field numbers 9698, 9791 and 9807. These specimens are now not extant at B. Schot (2004: 305) cited the type as: "Lectotype (proposed here): *Ledermann 9698* (holo B†; iso L), Papua New Guinea, Sepik Prov., April river." Thus, she designated an isolectotype of the name! Four specimens of the above three collections available at K and L. Of these, the best specimen at K is designated here as the lectotype.

Aporosa nitida Merr. in Univ. Calif. Publ. Bot. 15: 143. 1929.
Type (lectotype designated here): Malaysia, Elphinstone Province, Sabah, Tawao, October 1922 – March 1923, *A.D.E. Elmer 21773* (NY00246231, image!; isolectotypes BO-1246938, BM000951332, BR0000005054565, C10022292, CAS0026932, CM1242, G00434121, GH00045716, HBG516586, K001056413, L0041515, L0041516, M0233628, MICH1107951, MO herb. acc. no. 536007, NY00246232, PH00003561, U0111869, UC290281, Z-000015881, Z-000015882, images!). Paratypes: Malaysia, Myburgh Province, Sandakan, October 1921 – December 1921, *A.D.E. Elmer 20243* (A02487897, BISH1193378, BR0000005218950, HBG516587, K005861409, PH00756609, PH00756610, images!). Malaysia, Elphinstone Province, Tawao, October 1922 – March 1923, *A.D.E. Elmer 21084* (BR0000005218646, GH02487899, HBG516589, K005861404, L0290495, PH00003560, S07-14696, U0226333, images!). Malaysia, Elphinstone Province, Tawao, October 1922 – March 1923, *A.D.E. Elmer 21146* (A02487904, BISH1193377, F0055901F, HBG516588, K005861405, L0290496, PH00003559, S07-14698, U0226334, images!).
Notes: *Aporosa nitida* was described from the Philippines based on *Elmer* 21773. Additionally, three more specimens (paratypes) were cited in the protologue. Schot (2004: 223) cited the type as: "Type: *Elmer 21773* (iso BM, BO, L, P), Sabah, Sandakan." This was not an effective lectotypification as per Art. 7.11 (Turland et al., 2025). Hence a good duplicate at NY is designated here as the lectotype of the name.

Aporosa prainiana King ex Gage in Rec. Bot. Surv. India 9: 228. 1922.
Type (lectotype designated at the first-step by Airy Shaw 1971: 476; at the second-step here): Malaysia, Penang, Government Hill, April 1893, *C.Curtis 1476* (K001056380, image!; isolectotypes CAL0000023062!, K001056381, image!).
Notes: *Aporosa prainiana* was described from Penang in Malaysia based on a single collection, *Curtis* 1476. An additional specimen (paratype), *Curtis* 1477, was also cited in the protologue. Airy Shaw (1971: 476) cited the type as: "Type: Government Hill, Penang, *Curtis* 1476." Subsequently, Schot (2004: 226) also cited the type as: "Type: *Curtis 1476* (holo SING), Peninsular Malaysia, Penang." As per Art. 9.22 (Turland et al., 2025), Airy Shaw (1971) effectively lectotypified the name because there was no need to cite a herbarium before 1990 so long as a single gathering was cited. The designation by Airy Shaw (1971) is narrowed here to a single specimen at K in a second-step lectotypification under Art. 9.17 (Turland et al., 2025).

Aporosa sclerophylla Pax & K.Hoffm. in Engl., Pflanzenr. IV. 147. XV (Heft 81): 98. 1922.
Type (lectotype designated here): Papua New Guinea, Sepikgebeit, s.d., *C.L. Ledermann 10255* (K001056391, image!; isolectotype L0041568, image!). Additional syntype: Papua New Guinea, Sepikgebeit, s.d., *C.L. Ledermann 9897* (K005861939, image!).
Notes: *Aporosa sclerophylla* was described from Papua New Guinea based on two collections by *Ledermann* bearing field numbers 9897 and 10255. The original gatherings are now not extant at B. Schot (2004: 311) cited the type as: "Lectotype (proposed here): *Ledermann 10255* (K, L), Papua New Guinea, Sepik Prov., Lordberg." This was not an effective lectotypification because more than one herbarium was cited. Hence, the specimen *Ledermann* 10255 at K is designated here as the lectotype of the name.

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Aporosa selangorica Pax & K.Hoffm. in Engl., Pflanzenr. IV. 147: XV (Heft 81): 105. 1922.
Type (lectotype designated at the first-step by Airy Shaw 1971: 481; at the second-step here): Malaysia, Selangor, Klang Gates, August 1900, *Ridley 13385* (K001056371, image!; isolectotype SING, n.v.).
Notes: *Aporosa selangorica* was described from Selangor in Malaysia based on a single collection, *Ridley* 13385. The holotype at B is now not extant. Airy Shaw (1971: 481) cited the type as: "SELANGOR: Klang Gates, Aug. 1908, *Ridley* 13385 (type)." Subsequently Schot cited the type as: "Type: *Ridley 13385* (iso K, SING), Peninsular Malaysia, Selangor." As per Art. 9.22 (Turland et al., 2025), there was no need to cite a herbarium before 1990 for an effective lectotypification. Hence, the choice of Airy Shaw (1971), who effectively lectotypified the name, is narrowed here to a duplicate at K in a second-step lectotypification as per Art. 9.17 (Turland et al., 2025).

Aporosa symplocifolia Merr. in Philipp. J. Sci. 1(Suppl.): 77. 1906 (as *symplocosifolia*).
Type (lectotype designated at the first-step by Schot 2004: 268; at the second-step here): Philippines, Luzon, Bataan Province, Lamao River, Mt. Mariveles, April 1904, *H.N. Whitford 53* (K001056397, image!; isolectotypes K005861856, P00610384, images!).
Aporosa elliptifolia Merr. in Philipp. J. Sci. C 9: 472. 1914 (publ. 1915).
Type (lectotype designated here): Philippines, Palawan, Silanga, May 1913, *E.D. Merrill 9609* (US00109952, image!; isolectotypes A00045720, BM000951337, BO-1246936, BRI-AQ0342430, CM1239, F0055877F, GH00045721, K001056396, MO herb. acc. no. 756461, NY00246227, P00610385, P00610386, UVMVT026639, images!).
Notes: *Aporosa symplocifolia* was described from the Philippines based on 23 collections. However, Schot (2004: 268) cited the type as: "Lectotype (proposed here): *Whitford 53* (holo K; iso P), Philippines, Luzon, Mt Mariveles." This was an effective lectotypification of the name although she wrote 'holo K' while proposing the lectotype! As there are two duplicates of the designated lectotype at K, and none of them bear any annotation by Schot, her choice is narrowed here to a single specimen in a second-step lectotypification as per Art. 9.17 (Turland et al., 2025). As regards *Aporosa elliptifolia*, it was also described from the Philippines based on a single collection, *Merrill* 9609. Here Schot (2004: 268) cited the type as: "Type: *Merrill 9609* (iso L), Philippines, Palawan." This was a mere citation of the type. Hence, a good duplicate at US is selected as the lectotype of the name.

Aporosa symplocoides (Hook.f.) Gage in Rec. Bot. Surv. India 9: 229. 1922. – *Baccaurea symplocoides* Hook.f., Fl. Brit. India 5: 376. 1887.
Type (lectotype designated here): Malaysia, Perak, s.d., *B.Scortechini 19* (K005860015, image!). Additional syntypes: Malaysia, Perak, Larut, March 1885, *King's collector [H.Kunstler] 7375* (K005860014, image!). Malaysia, Perak, Larut, May 1885, *King's collector 7650* (K00586008, US01106080, images!). Malaysia, Perak, Goping, June 1883, *King's collector 4288* (CAL0000023083!, L0291322, image!). Malaysia, Perak, Goping, August 1883, *King's collector 4773* (CAL0000023085!, L0291323, image!).
Notes: *Baccaurea symplocoides* was described from Malaysia at Perak, Larut and Goping based on collections by *King's collector* and *Scortechini*. Schot (2004: 234) cited the type as: "Type: *King's Collector* (holo K), Peninsular Malaysia, Perak." This citation was not an effective lectotypification as per Art. 7.11 (Turland et al., 2025). Hence, a lectotype is designated here based on the collection by *Scortechini* at K with female flowers and fruits and bearing drawing of the female flower and Hooker's handwriting.

TYPIFICATIONS IN *BACCAUREA*

Baccaurea angulata Merr. in Univ. Calif. Publ. Bot. 15: 148. 1929.
Type (lectotype designated at the first-step by Haegens 2000: 96; at the second-step here): Malaysia, Borneo, Sabah, Elphinstone Province, Tawao, October 1922 – March 1923, *A.D.E. Elmer 21842* (A00045772, image!; isolectotypes A00045773, BO-1402955, BRI-AQ0342436, CAS0027957, G00434146, HBG516575, K001056496, M0233635, MICH1107946, MO herb. acc. no. 936106, NY00246265, PH00007486, S07-14714, U0008296, UC290319, USF herb. acc. no. 112644, Z-000015890, images!). Paratypes: Malaysia, Borneo, Sabah, Elphinstone Province, Tawao, October 1922 – March 1923, *A.D.E. Elmer 21271* (A02490611, B_10_0241107, BISH1193460, BR0000006999773, CAS662991, GH02490618, HBG516576, L0162602, L0163083, MO herb. acc. no. 935356, NY03932915, NY03932916, PH00007485, U0020159, Z-000015897, images!).
Notes: *Baccaurea angulata* was described from Malaysian Borneo based on a single collection, *Elmer* 21842. An additional specimen (paratype),

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Elmer 21271 was also cited in the protologue. Haegens (2000: 96) cited the type as: "Type: *Elmer 21842* (holo A; iso B, DS, G, L, U), Borneo, Sabah, Tawau." Citation of 'holotype' is correctable to lectotype under Art. 9.10 (Turland et al., 2025). However, as there are two duplicates of this gathering available at A and both of them bear annotation by Haegens, the designation by him (Haegens, 2000) is narrowed here to a single specimen in a second-step lectotypification as per Art. 9.17 (Turland et al., 2025).

Baccaurea annamensis Gagnep. in Bull. Soc. Bot. France 70: 235. 1923.
Type (lectotype designated at the first-step by Haegens 2000: 98; at the second-step here): Vietnam, Annam, Quang Tri Province, Lang Khoai, 3 April 1920, *E.Poilane 1269* (P00610383, image!; isolectotypes A00098647, P00610382, images!).
Baccaurea harmandii Gagnep. in Bull. Soc. Bot. France 70: 235. 1923.
Type (lectotype designated at the first-step by Haegens 2000: 98; at the second-step here): Lao PDR, Attopeu Plteau, March 1877, *F.J. Harmand 1436* (P00610376, image!; isolectotypes A00045771, P00610377, P00610378, images!).
Notes: *Baccaurea annamensis* was described from Annam in Vietnam based on a single collection of *Poilane* bearing field number 1269. Haegens (2000: 98) cited the type as: "Type: *Polaine 1269* (holo P; iso A, K), Indo-China, Prov. de Quang-tri, Lang-khoai." Citation of 'holotype' is correctable to lectotype as per Art. 9.10 (Turland et al. 2025). The specimen bearing barcode P00610383 bears annotation by Haegens as holotype. However, there are two duplicates of *Poilane* 1269 at P and the other duplicate bearing barcode P00610382 was not annotated by Haegens. Now, according to Art. 40.3 Ex 4 (Turland et al., 2025) these specimens are syntypes. However, as they belong to a single gathering, the choice of Haegens (2000) is narrowed here to a single specimen; the specimen with drawing of flower is designated here as the second-step lectotype of the name. In case of *Baccaurea harmandii*, it was described from Lao PDR based on a single collection of *Harmand* bearing field number 1436. Here also Haegens (2000: 98) cited the type as: "Type: *Harmand 1436* (holo P; iso A), Laos, Attopeu Plateau." As there are three duplicates of the collection at P, all of them bearing annotation by Heagens, a second-step lectotype of the name is designated here based on the best specimen out of these three as per Art. 9.17 (Turland et al., 2025).

Baccaurea bracteata Müll.Arg. in DC., Prodr. 15(2): 466. 1866.
Type (lectotype designated at the first-step by Haegens 2000: 99; at the second-step here): Malaysia, Penang and Singapore, 1835, *N.Wallich Numer. List No. 7834* (K001128061, image!; isolectotypes G00318234, G00434144, K001128062, images!).
Notes: *Baccaurea bracteata* was described from Malaysia at Penang and Singapore based on *Wallich* 7834. Haegens (2000: 99) cited the type as: "Type: *Wallich 7834* (holo K; iso G), Singapore and Penang (both are mentioned on specimen label)." The citation of 'holotype' is correctable to lectotype as per Art. 9.10 (Turland et al., 2025). There are two twigs mounted on a single sheet at K-W bearing different barcodes. Hence, the choice of Haegens (2000) is a first-step lectotypification, now narrowed here to a single specimen in a second-step lectotypification as per Art. 9.17 (Turland et al., 2025).

Baccaurea celebica Pax & K.Hoffm. in Engl., Pflanzenr. IV. 147. XV (Heft 81): 69. 1922.
Type (neotype designated here): Indonesia, Sulawesi [Celebes], Malili, Ilawatta, 19 November 1930, *Boschproefstation Cel/II-440* (K005681049, image!, Fig. 1).
Notes: *Baccaurea celebica* was described from Celebes in Indonesia based on a single collection of *Warburg* bearing field number 15565. The holotype is not extant at B, nor any other duplicate available in any other herbarium. Haegens (2000: 192) cited the type as: "Type: *Warburg 15565* (n.v.)." Hence, a neotype of the name is designated here based on a collection from Celebes at K bearing male inflorescences and agreeing well with the protologue. The species appears to be closely related to *B. pubera* (Miq.) Müll.Arg. of Malaysia, Borneo and Sumatra and may prove to be conspecific when further gatherings are made available.

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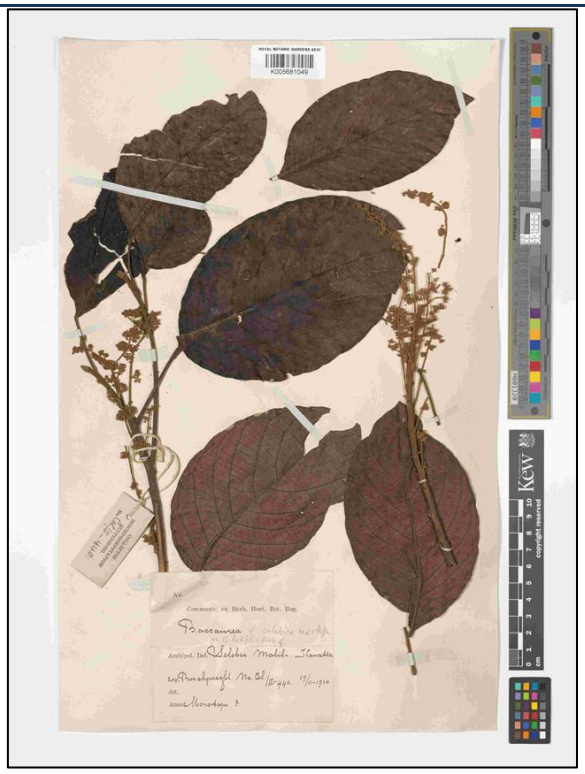


Figure 1. Neotype of *Baccaurea celebica* (K005681049) – © Trustees of RBG, Kew.

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REFERENCES

1. Airy Shaw, H.K. 1971. "Notes on Malesian and other Asiatic Euphorbiaceae." *Kew Bulletin* 25.3 (1971): 473–553.
2. Chakrabarty, T. & Balakrishnan, N.P. "Indo-Burmese Phyllanthaceae: a taxonomic revision." *Dehra Dun, Bishen Singh Mahendra Pal Singh* (2018): 437 p.
3. Haegens, R.A.M.P. "Taxonomy, Phylogeny, and Biogeography of *Baccaurea*, *Distichirhops* and *Nothobaccaurea* (Euphorbiaceae)." *Blumea Supplement* 12 (2000): 1–218.
4. Schot, A.M. "Systematics of *Aporosa* (Euphorbiaceae)." *Blumea Supplement* 17 (2004): 1–380.
5. POWO. "Plants of the World Online." (2026). Available at: https://powo.science.kew.org/
6. Turland, N.J., Wiersema, J.H., Barrie, F.R., Gandhi, K.N., Gravendyck, J., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Klopper, R.R., Knapp, S., Kusber, W.-H., Li, D.-X., May, T.W., Monro, A.M., Prado, J., Price, M.J., Smith, G.F. & Senoret, J.C.Z. (Editors). "International Code of Nomenclature for Algae, Fungi and Plants (Madrid Code)." *Chicago, The University of Chicago Press* (2025): 303 p.
7. van Welzen, P.C., Esser, H.-J., Middleton, D.J. & Lindsay, S. "Flora of Singapore precursors, 45: Typifications and nomenclatural clarifications in Euphorbiaceae, Phyllanthaceae, Picrodendraceae, Rutaceae and Sapindaceae for the Flora of Singapore." *Gardens' Bulletin Singapore* 76.2 (2024): 183–214.

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