

**TYPE SPECIMENS OF NAMES IN *BAUHINIA* AND *PHANERA* (FABACEAE:
CAESALPINIOIDEAE) AT CENTRAL NATIONAL HERBARIUM,
HOWRAH (CAL)**

S. BANDYOPADHYAY AND P.P. GHOSHAL¹

*Central National Herbarium, Botanical Survey of India, P.O. Botanic Garden,
Howrah 711 103, West Bengal, India*

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Abstract

The types of the names in *Bauhinia* L. and *Phanera* Lour. at Central National Herbarium, Howrah (CAL) have been enumerated.

Introduction

In course of detailed taxonomic studies, types of the names have to be examined in order to confirm their identities. The types are deposited in many herbaria worldwide. It becomes easy to locate the types if databases of type specimens in different herbaria are made available. The purpose of the present paper is to inform the botanical community the 38 type specimens of names in *Bauhinia* L. and *Phanera* Lour. at CAL. Earlier, in the two volumes of the book entitled, 'Type collections in the Central National Herbarium', Datta *et al.* (1985) included two type specimens of *Bauhinia* viz. *B. hallteriana* Elmer and *B. whitfordii* Elmer as part of Elmer's collections and types at CAL, and Sammaddar (1991), in the second volume of the said book, included the types of *Phanera nicobarica* N.P. Balakr. & Thoth.

Materials and Methods

The protologues of all the names have been studied and the current status of the names has been given after scrutiny of relevant literature, viz., de Wit (1956); Thothathri (1965); Larsen and Larsen (1996); Govaerts (1996); Sinou *et al.* (2009); Bandyopadhyay *et al.* (2012); Bandyopadhyay (2013a); Mackinder and Clark (2014); Bandyopadhyay (2014) and Bandyopadhyay and Ghoshal (2015).

The names appearing in bold are presently the accepted names. If the name, whose type citation has been provided is presently not the accepted name, then after the type citation and notes (if any) the correct name has been provided either with the symbol '=' or '≡' to denote whether it is a heterotypic or homotypic synonym, respectively. The terms associated with the types have been given as far as possible. In case of lectotype and neotype, the name of the author(s) who has/have designated it has also been given. If the types are isotype or isosytype, then the location where the holotype or lectotype is deposited has been mentioned. The 13 character alpha-numeric barcode starting with the acronym CAL for each type specimen has been given if they are digitized; otherwise the accession number (6 digits) of CAL has been provided.

The majority of these type specimens at CAL have been digitized and barcoded. The images of the desired type specimens may be sent on request for study.

¹Corresponding author. Email: pp_ghoshal@rediffmail.com
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Systematic enumeration

1. *Bauhinia chalcophylla* H.Y. Chen, J. Arnold Arbor. 19: 130 (1938).
Type: China, Yunnan, Talang, 3500 ft, 1901, *A. Henry* 13240 (isotype 137840).
Notes: The holotype is at NY.
 ≡ ***Phanera chalcophylla*** (L. Chen) Mackinder & R. Clark, Phytotaxa 166: 54 (2014).
2. *Bauhinia curtisii* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 195 (1897).
Type: Malaysia, Kedah, Polo Langkawi, at the Lake Suni(?), 1890, *Curtis* 2619 (syntype CAL0000011272).
 ≡ ***Phanera curtisii*** (Prain) Bandyop. & Ghoshal, Telopea 18: 141 (2015).
3. *Bauhinia diptera* Collett & Hemsl., J. Linn. Soc., Bot. 28: 52 (1890).
Type: Burma, Upper Burma: Shan Hills, Ywangan, 4000 ft, May 1888, *H. Collett* 727 (lectotype CAL0000011313; isolectotypes CAL0000011311, CAL0000011312); Shan Hills, Koni, 4000 ft, Apr. 1888, *H. Collett* 586 (syntypes CAL0000011314, CAL0000011315).
Notes: Thothathri (1965) designated the lectotype.
 = ***Phanera yunnanensis*** (Franch.) Wunderlin, Phytoneuron 19: 1 (2011).
4. *Bauhinia enigmatica* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 496 (1897).
Type: Burma, Upper Burma, Southern Shan State, Fort Stedman, 1893, *Abdul Khalil s.n.* (lectotype CAL0000011306); Fort Stedman, 1894, *Abdul Khalil s.n.* (syntype CAL0000011304); Maymyo, June 1888, *Badal Khan* 89 (syntype CAL0000011305).
Notes: Thothathri (1965) designated the lectotype.
 = ***Bauhinia brachycarpa*** Wall. *ex* Benth. in Miq., Pl. Jungh. 2: 261 (1852).
5. *Bauhinia ferruginea* Roxb., Fl. Ind. (ed. Carey) 2: 331 (1832).
Type: Penang, *Wall. Cat. num. list no. 5776* (isoneotype 137421).
Notes: The neotype, designated by de Wit (1956: 454), is at K.
 ≡ ***Phanera ferruginea*** (Roxb.) Benth. in Miq., Pl. Jungh. 2: 262 (1852).
6. *Bauhinia foveolata* Dalzell, J. Linn. Soc., Bot. 13: 188 (1872).
Type: India, North Canara, near Yellapore, 18 [no year given], *W.A. Talbot* 20 (neotype CAL0000007180).
Notes: Bandyopadhyay (2011) designated the neotype.
 ≡ ***Piliostigma foveolatum*** (Dalzell) Thoth., Bull. Bot. Soc. Bengal 19: 131, 1967 (1965).
7. *Bauhinia glabrifolia* (Benth.) Baker var. *maritima* K. Larsen & S.S. Larsen, Thai Forest Bull., Bot. 25: 14 (1997).
Type: Burma, Tenasserim & Andamans, *Helper* 1880 (isotype CAL0000011309).
Notes: The holotype is at K.
 ≡ ***Phanera glabrifolia*** Benth. var. ***maritima*** (K. Larsen & S.S. Larsen) Bandyop., Edinburgh J. Bot. 70: 363 (2013).
8. *Bauhinia hallieriana* Elmer, Leafl. Philipp. Bot. 2: 691 (1910).
Type: Philippine, Romblon, March 1910, *A.D.E. Elmer* 12172 (isolectotype CAL0000011332).

- Notes:* The lectotype, designated by Larsen and Larsen (1996: 461), is at NY.
= **Phanera aherniana** (Perkins) de Wit, *Reinwardtia* 3: 448 (1956).
9. *Bauhinia hullettii* Prain, *J. Asiat. Soc. Bengal*, Pt. 2, Nat. Hist. 66: 183 (1897).
Type: Malaysia, Perak, Tapa, *L. Wray (Jr.)* 177 (syntype CAL0000011337); Malay Archipelago, Penang, 100–300 ft, Feb. 1881, *Dr. King's Collector* 1347 (syntype CAL0000011336).
= **Phanera ferruginea** (Roxb.) Benth. in *Miq., Pl. Jungh.* 2: 262 (1852).
10. *Bauhinia integrifolia* Roxb., *Fl. Ind.* (Ed. Carey) 2: 331 (1832).
Type: Penang, *Wall. Cat. num. list no.* 5780 (isolectotypes 137126, 137127).
Notes: The lectotype, designated by de Wit (1956: 478), is at K.
≡ **Phanera integrifolia** (Roxb.) Benth. in *Miq., Pl. Jungh.* 2: 263 (1852).
11. *Bauhinia khasiana* Baker in *Hook.f., Fl. Brit. India* 2(5): 281 (1878).
Type: Meghalaya, Khasia, 1000–3000 ft, *J.D. Hooker & T. Thomson s.n.* (isolectotype CAL0000011245).
Notes: The first-step designated by Larsen and Larsen (1980a) and second-step lectotype, designated by Bandyopadhyay (2013b), are at K.
≡ **Phanera khasiana** (Baker) Thoth., *Bull. Bot. Soc. Bengal* 19: 131, 1967 (1965).
12. *Bauhinia kingii* Prain, *J. Asiat. Soc. Bengal*, Pt. 2, Nat. Hist. 66: 189 (1897).
Type: Malay Peninsula, Perak, *B. Scortechini* 320 (isolectotypes CAL0000011274, CAL0000011276, CAL0000011277, CAL0000011278); Malay Peninsula, Perak, Gunung Batu Pateh, 4500 ft, 1887, *L. Wray (Jr.)* 392 (syntypes CAL0000011273, CAL0000011275, CAL0000011280); Selangor, Bukit Etam, *H. Kellsall* 2001 (syntype CAL0000011279).
Notes: The lectotype, designated by de Wit (1956: 499), is at K.
≡ **Phanera kingii** (Prain) Bandyop. *et al.*, *Bangladesh J. Pl. Taxon.* 19: 57 (2012).
13. *Bauhinia meeboldii* Craib, *Repert. Spec. Nov. Regni Veg.* 12: 392 (1913).
Type: Burma, Lower Burma, Maunglow, Mergui, March 1911, *A. Meebold* 14280 (CAL0000011296, CAL0000011297, CAL0000011298, CAL0000011299).
≡ **Phanera meeboldii** (Craib) Thoth., *Bull. Bot. Soc. Bengal* 19: 133, 1967 (1965).
14. *Bauhinia mirabilis* Merr., *Univ. Calif. Publ. Bot.* 15: 103 (1929).
Type: Borneo, Elphinstone Province, Tawao, *A.D.E. Elmer* 21432 (isolectotype CAL0000011333).
Notes: The lectotype, designated by Larsen and Larsen (1996: 503), is at A.
= **Lysiphyllum dipterum** (Blume *ex* Miq.) Bandyop. & Ghoshal, *Phytotaxa* 178: 288 (2014).
15. *Bauhinia mollissima* Wall. *ex* Prain, *J. Asiat. Soc. Bengal*, Pt. 2, Nat. Hist. 66: 176 (1897).
Type: *Wall. Cat. num. list no.* 5782 (isolectotype 137282).
Notes: de Wit (1956: 403) cited *Wallich num. list no.* 5782 (K) as the ‘type’. This should be considered as effective lectotypification according to Art. 7.10 of ICN (McNeill *et al.*, 2012). Larsen and Larsen (1979: 8) cited *Wallich num. list no.* 5782 (K) as the lectotype but in *Flora Malesiana* (Larsen and Larsen, 1996: 451), *Wallich num. list no.* 5782 (K) as the holotype.

- ≡ **Bauhinia pottsii** G. Don var. **mollissima** (Wall. ex Prain) Govaerts, World Checkl. Seed Pl. 2: 10 (1996).
Notes: *B. pottsii* G. Don var. *mollissima* (Wall. ex Prain) K. Larsen & S.S. Larsen, Bot. Tidsskr. 74: 8 (1979) is not a valid combination because the basionym page was not cited.
16. *Bauhinia ornata* Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 72 (1873).
Type: Pegu, 11.2 (1871), *S. Kurz* 2579 (lectotype CAL0000011252); (isolectotypes CAL0000011248, CAL0000011249, CAL0000011251); Pegu, 8.4 (1871), *S. Kurz* 2579 (syntype CAL0000011247); Burma, Pegu, E. and W. Slopes, Choungmenah Chg, 8.4.71, *S. Kurz* 2579 (syntype CAL0000011250).
Notes: Thothathri (1965) designated the lectotype. Bandyopadhyay (2012a) discussed in details about the typification of the name.
 ≡ **Phanera ornata** (Kurz) Thoth., Bull. Bot. Soc. Bengal 19: 134, 1967 (1965).
17. *Bauhinia ornata* Kurz subsp. *mizoramensis* Bandyop., B.D. Sharma & Thoth., Nordic J. Bot. 12: 223 (1992).
Type: Mizoram, Mizo hills, *R. Dutta* 33793 (holotype CAL0000011253).
Notes: The type specimen was collected from Saiha, now in East Chintuipui district, sometimes in July or August, 1963 (see Bandyopadhyay, 2001a).
 ≡ **Phanera ornata** (Kurz) Thoth. subsp. **mizoramensis** (Bandyop. *et al.*) Bandyop. *et al.*, Bangladesh J. Pl. Taxon. 19: 58 (2012).
18. *Bauhinia polycarpa* Wall. ex Benth. in Miq., Pl. Jungh. 2: 261 (1852).
Type: 1827, *Wall. Cat. num. list no.* 5787 (isolectotypes 136699, 136706).
Notes: The lectotype, designated by Larsen and Larsen (1996: 455) is at K.
 = **Bauhinia viridescens** Desv., Ann. Sci. Nat. (Paris) 9: 429 (1826).
19. *Bauhinia pottingeri* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 67: 289 (1898).
Type: N.E. of Burma, Namlao to Bansparao, 500–2000 ft, 23.3. ?, *R.A. Pottinger s.n.* (lectotype CAL0000011318).
Notes: Thothathri (1965) cited *R.A. Pottinger s.n.* (CAL) as ‘type’. This has to be considered as an effective lectotypification according to Art. 7.10 of ICN (McNeill *et al.*, 2012).
 ≡ **Phanera pottingeri** (Prain) Thoth., Bull. Bot. Soc. Bengal 19: 133 (1967).
20. *Bauhinia ridleyi* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 185 (1897).
Type: Malay Peninsula, Perak: Pangkalin Bahra, Dec. 1880, *Dr. King's Collector* 1096 (syntypes CAL0000011321, CAL0000011326); Thwbing, Aug. 1884, *B. Scortechini* 519 (syntype CAL0000011322); Batu Gajch?, Feb. 1885, *B. Scortechini* 140a (syntype CAL0000011323); *B. Scortechini* 140 (syntype CAL0000011324).
 ≡ **Phanera ridleyi** (Prain) A. Schmitz, Bull. Soc. Roy. Bot. Belgique 110: 15 (1977).
21. *Bauhinia rosea* Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 72 (1873).
Type: Burma, Pegu, Ein Forest Palween, between Kwaymapyoo chg., May 54, *D. Brandis s.n.* (lectotype CAL0000011302); *D. Brandis s.n.* (isolectotype CAL0000011301).
Notes: Thothathri (1965) cited *D. Brandis s.n.* (CAL) as ‘type’. This has to be considered as an effective lectotypification according to Art. 7.10 of ICN (McNeill *et al.*, 2012).
 = **Phanera kurzii** (Prain) Thoth., Bull. Bot. Soc. Bengal 19: 133 (1967).

22. *Bauhinia scortechinii* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 188 (1897).
Type: Perak, G. Haram, May 84, *B. Scortechini* 698 (isolectotypes CAL0000011319, CAL0000011320).
Notes: The lectotype, designated by Larsen and Larsen (1996: 507), is at K.
 = ***Phanera bidentata*** (Jack) Benth. in Miq., Pl. Jungh. 2: 263 (1852).
23. *Bauhinia sulphurea* C.E.C.Fisch., Bull. Misc. Inform. Kew 1927: 85 (1927).
Type: Burma, Tenasserim, Tenasserim river, 28.2.1926, *C.E. Parkinson* 1951 (paratype CAL0000011316).
 ≡ ***Phanera sulphurea*** (C.E.C. Fisch.) Thoth., Bull. Bot. Soc. Bengal 19: 133, 1967 (1965).
24. *Bauhinia strychnoidea* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 195 (1897).
Type: Perak, Larut, Goping, 300–500 ft, April 1884, *Dr. King's Collector* 5914 (isolectotypes CAL0000011267, CAL0000011268); Malaya Peninsula, Perak, Kinta, 300–800 ft, January 1885, *Dr. King's Collector* 7054 (syntypes CAL0000011265, CAL0000011269, CAL0000011270); Selangor, Caves Kuwala Lumpur, *H. Kelsall* 1971 (syntype CAL0000011266); Perak, *Scortechini s.n.* (syntype CAL0000011271).
Notes: The lectotype, designated by de Wit (1956: 429), is at K.
 ≡ ***Phanera strychnoidea*** (Prain) Bandyop. & Ghoshal, Telopea 18: 142 (2015).
25. *Bauhinia tenuiflora* Watt. ex C.B. Clarke, J. Linn. Soc., Bot. 25: 18 (1889).
Type: India, Muneypore, Nongjaibang, 1700 ft, 30 Nov. 1885, *C.B. Clarke* 42342 B (syntype CAL0000011243); *C.B. Clarke* 42304 D (syntype CAL0000011244).
Notes: A loose pod (CAL0000011243) mounted on the same herbarium sheet bearing the flowering specimen *C.B. Clarke* 42304 D (CAL0000011244).
 ≡ ***Phanera glauca*** Benth. subsp. ***tenuiflora*** (Watt ex C.B. Clarke) A.Schmitz, Bull. Soc. Roy. Bot. Belgique 110: 14 (1977).
26. ***Bauhinia tortuosa*** Collett & Hemsl., J. Linn. Soc., Bot. 28: 52, t. 8 (1890).
Type: Burma, Upper Burma, Shan Hills, Koni, 5000 ft, May 1888, *H. Collet* 561 (lectotype CAL0000011303; isolectotype CAL0000011317)
27. *Bauhinia viridiflora* Backer, Bull. Jard. Bot. Buitenzorg Ser. 3, 2: 323 (1920).
Type: Indonesia, Java, Birak Dense (Fiji Pasoedja), *Backer* 8801 (isolectotype CAL0000011307).
Notes: The lectotype, designated by de Wit (1956: 473), is at BO.
 ≡ ***Phanera bassacensis*** (Pierre ex Gagnep.) de Wit var. ***backeri*** de Wit, Reinwardtia 3: 473 (1956).
28. ***Bauhinia whitfordii*** Elmer, Leafl. Philipp. Bot. 1: 229 (1907).
Type: Philippine, Luzon Island, Province Benguet, Baguio, March 1907, *A.D.E. Elmer* 8897 (CAL0000011331).
Notes: de Wit (1956: 483) cited *A.D.E. Elmer* 8897 (A) as the holotype. Larsen and Larsen (1996: 480) designated *A.D.E. Elmer* 8897(NY) as the lectotype.
 = ***Phanera integrifolia*** Benth. var. ***nymphaeifolia*** (Perkins) Mackinder & R.Clark, Phytotaxa 166: 57 (2014).

29. *Bauhinia wrayi* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 191 (1897).
Type: Malay Peninsula, within 300 ft, Dec. 1883, *Dr. King's Collector* 5243 (isolectotypes CAL0000011290, CAL0000011291, CAL0000011292); Malay Peninsula, Perak, Larut, within 300 ft, 1881, *H. Kunstler* 2446 (syntype CAL0000011281); Perak, *B. Scortechini* 1652 (syntype CAL0000011282); Perak, Assan Kumbong, May 1888, *L. Wray (Jr.)* 1934 (syntype CAL0000011283); Assan Kumbong, *L. Wray (Jr.)* 2782 (syntypes CAL0000011284, CAL0000011285); Malay Peninsula, near ? Selangore, 1000–1200 ft, April 1886, *H. Kunstler* 8758 (syntype CAL0000011286); Malay Peninsula, Perak, Larut, within 300 ft, Aug. 1881, *Dr. King's Collector* 2466 (syntype CAL0000011287); Malay Peninsula, Perak, Larut, within 300 ft, March 1883, *H. Kunstler* 4049 (syntype CAL0000011288); Malay Peninsula, Perak, Larut, within 300 ft, Aug. 1881, *Dr. King's Collector* 2238 (syntype CAL0000011289).
Notes: The lectotype, designated by de Wit (1956: 518), is at K (also see Bandyopadhyay, 2001b).
 ≡ ***Phanera wrayi*** (Prain) de Wit, Reinwardtia 3: 517 (1956).
30. ***Phanera glabrifolia*** Benth. in Miq., Pl. Jungh. 2: 263 (1852).
Type: Cultivated at Hort. Bot. Calc. (labelled as '*Bauhinia piperifolia* Roxb. '), (isolectotypes CAL0000011293, CAL0000011294, CAL0000011295, CAL0000011308).
Note: The lectotype, designated by Larsen and Larsen (1980b), is at K.
31. ***Phanera glauca*** Benth. in Miq., Pl. Jungh. 2: 265 (1852).
Type: Amherst, 18 Feb. 1827, *Wall. Cat. num. list no.* 5785 (137381).
Notes: The lectotype, designated by Larsen and Larsen (1996: 478), is at K.
32. ***Phanera glauca*** Benth. subsp. ***tenuiflora*** (Watt ex C.B. Clarke) A. Schmitz var. ***gandhiana*** Gogoi & Bandyop., J. Bot. Res. Inst. Texas 8: 71 (2014).
Type: Arunachal Pradesh, Anjaw district, in between Changwanti and Walong, 800 m, 20 May 2011, *R. Gogoi* 24374A (holotype CAL0000025065).
33. ***Phanera glauca*** Benth. subsp. ***tenuiflora*** (Watt ex C.B. Clarke) A. Schmitz var. ***murlenensis*** Ram Kumar *et al.*, Phytotaxa 166: 155 (2014).
Type: Mizoram, Murlen National Park, in the buffer region of the Park between Vapar to Ngur, ca. 1400 m, 11.4.2013, *Ramesh Kumar & party* 128363 (holotype CAL0000026092).
34. *Phanera griffithiana* Benth. in Miq., Pl. Jungh. 2: 263 (1852).
Type: Malay Peninsula, Malacca, *Griffith* 1867 (CAL0000011330).
 ≡ ***Phanera ferruginea*** (Roxb.) Benth. var. ***griffithiana*** (Benth.) Bandyop. *et al.*, Bangladesh J. Pl. Taxon. 19: 57 (2012).
35. *Phanera jampuiensis* Darlong & D. Bhattach., Kew Bull. 69: 9534 (2014).
Type: Tripura, North district, Jampui hill range, Tlangsang, 770 m, 16 April 2013, *L. Darlong* 10397 (holotype CAL000025210).
 = ***Phanera glabrifolia*** Benth., Pl. Jungh. 2: 263 (1852).
36. ***Phanera lucida*** Benth. in Miq., Pl. Jungh. 2: 262 (1852).
Type: *Wall. Cat. num. list no.* 5779A (isolectotype 137039).

- Notes:* The lectotype, designated by de Wit (1956: 511), is at K.
37. ***Phanera nervosa*** Benth. in Miq., Pl. Jungh. 2: 262 (1852).
Type: Mt. Sillhet, Wall. Cat. num. list no. 5777 (isolectotype 137449).
Notes: The lectotype, designated by Bandyopadhyay (2012b), is at K.
38. *Phanera nicobarica* N.P. Balakr. & Thoth., Bull. Bot. Surv. India 17: 201 1978 (1975).
Type: Andaman & Nicobar Islands, Great Nicobar: 15 km on East-West Road, ± 100 m, 23 Aug. 1975, N.P. Balakrishnan 3043 A (holotype CAL0000011257); 3043 B (isotype CAL0000011258), 3043 C (isotype CAL0000011259), 18 km on North-South Road, ± 25 m, 17 July 1976, N.P. Balakrishnan 3824 A (paratype CAL0000011260, CAL0000011261), 3824 B (paratype CAL0000011262, CAL0000011263); on the way from Galathea Bay to Pulobaha Bay, ± 125 m, 26.3.1966, K. Thothathri & S.P. Banerjee 11661, '10661' typo. Error in protologue (paratype CAL0000011264).
 = ***Phanera stipularis*** (Korth.) Benth. in Miq., Pl. Jungh. 2: 263 (1852).

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