

FIFTY NEW COMBINATIONS IN *PHANERA* LOUR. (LEGUMINOSAE: CAESALPINIOIDEAE) FROM PALEOTROPICAL REGION

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Abstract

Fifty new combinations are proposed in *Phanera* for species earlier treated in *Bauhinia* L.

Introduction

The subgenus *Phanera* (Lour.) Kurz (Wunderlin *et al.*, 1987; Bandyopadhyay, 1999) under *Bauhinia* L. is now recognized as a genus distinct from *Bauhinia* based on recent advances in molecular phylogeny (Lewis and Forest, 2005; Bruneau *et al.*, 2008; Sinou *et al.*, 2009). Thirty two new combinations have already been proposed in *Phanera* Lour. occurring in the Neotropical region from Brazil (Queiroz, 2006; Vaz, 2010) and for one species from the Palaeotropical region (Wunderlin, 2011). Fifty new combinations are proposed here in *Phanera* occurring in the Palaeotropical region from China, India and Myanmar to Malesia along with the types of the names which have been cited either by scrutinizing the relevant protogues or from the publication of Larsen and Larsen (1996).

1. ***Phanera aherniana* (Perkins) de Wit var. *subglabra* (Merr.) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, comb. et stat. nov.**
Bauhinia subglabra Merr., Philipp. J. Sci., C. 3: 230 (1908).
Bauhinia aherniana Perkins var. *subglabra* (Merr.) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 661 (1993). Type: F.W. Foxworthy, Bureau of Science no. 821 (K, image! lecto; NY, image! isolecto).
2. ***Phanera andersonii* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, comb. nov.**
Bauhinia andersonii K. Larsen & S.S. Larsen, Nordic J. Bot. 2: 330 (1982). Type: UNESCO Limestone Expedition 1962, no. 653 (K, image! holo; L, SING, iso).
3. ***Phanera aureifolia* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, comb. nov.**
Bauhinia aureifolia K. Larsen & S.S. Larsen, Nordic J. Bot. 11: 633 (1991).
Bauhinia chrysophylla K. Larsen & S.S. Larsen, Nordic J. Bot. 9: 253 (1989), non Vahl ex DC. (1825) nec Vogel (1839). Type: C. Niyomdham & W. Ueachirakan 1837 (AAU, holo; BKF, K, image! iso).
4. ***Phanera bidentata* (Jack) Benth. var. *breviflora* (Ridl.) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, comb. et stat. nov.**
Bauhinia breviflora Ridl., Fl. Malay Penins. 5: 306 (1925).
Bauhinia bidentata Jack var. *breviflora* (Ridl.) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 663 (1993). Type: Pahang, I.H. Burkhill & Haniff, Singapore Field no. 16867 (K, image! holo; SING, iso).

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5. **Phanera bidentata** (Jack) Benth. var. **cornifolia** (Baker) Bandyop., P.P. Ghoshal *et M.K. Pathak, comb. et stat. nov.*
Bauhinia cornifolia Baker in Hook.f., Fl. Brit. India 2: 278 (1878).
Bauhinia bidentata Jack var. *cornifolia* (Baker) Bennet, Indian J. Forest. 5: 326 (1982).
Type: *Griffith* 1878 (K, image!).
6. **Phanera bidentata** (Jack) Benth. var. **gracilipes** (Merr.) Bandyop., P.P. Ghoshal *et M.K. Pathak, comb. et stat. nov.*
Bauhinia gracilipes Merr., Pap. Michigan Acad. Sci. 19: 157 (1934).
Bauhinia bidentata Jack var. *gracilipes* (Merr.) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 663 (1993). Type: *H.H. Bartlett* 7600 (A, holo; C, L, image!, NY, image!, W, iso).
7. **Phanera bidentata** (Jack) Benth. var. **monticola** (Ridl.) Bandyop., P.P. Ghoshal *et M.K. Pathak, comb. et stat. nov.*
Bauhinia monticola Ridl., J. Straits Branch Roy. Asiatic Soc. 75: 28 (1917).
Bauhinia bidentata Jack var. *monticola* (Ridl.) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 663 (1993). Type: *H.C. Robinson* s.n. (SING, holo; K, image! iso).
8. **Phanera bracteata** Benth. subsp. **astylosa** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et M.K. Pathak, comb. nov.*
Bauhinia bracteata (Benth.) J. Graham ex Baker subsp. *astylosa* K. Larsen & S.S. Larsen, Fl. Cambodge, Laos & Vietnam 18: 178 (1980). Type: *Dourne*s n.s. (P, image!).
9. **Phanera burbridgei** (Stapf) Bandyop., P.P. Ghoshal *et M.K. Pathak, comb. nov.*
Bauhinia burbridgei Stapf, Trans. Linn. Soc. London, Bot. 4: 143 (1894). Type: *O. Beccari* 633 (FI, image! holo).
10. **Phanera campanulata** (S.S. Larsen) Bandyop., P.P. Ghoshal *et M.K. Pathak, comb. nov.*
Bauhinia campanulata S. S. Larsen, Nordic J. Bot. 14: 289 (1994). Type: *D.A. Simpson & M. Marsh* 2051 (K, image! holo; AAU, BRUN, iso).
11. **Phanera clemensorum** (Merr.) Bandyop., P.P. Ghoshal *et M.K. Pathak, comb. nov.*
Bauhinia clemensorum Merr., J. Arnold Arbor. 23:171 (1942). Type: *J. Clemens & M.S. Clemens* 3621 (A, holo; P, K, image! iso).
12. **Phanera excurrens** (Stapf) Bandyop., P.P. Ghoshal *et M.K. Pathak, comb. nov.*
Bauhinia excurrens Stapf, Trans. Linn. Soc. London, Bot. 4: 143 (1894). Type: *G.D. Haviland* 1382 (K, image! holo).
13. **Phanera fabrilis** (de Wit) Bandyop., P.P. Ghoshal *et M.K. Pathak, comb. et stat. nov.*
Phanera riedelii (Baker) de Wit var. *fabrilis* de Wit, Reinwardtia 3: 464 (1956).
Bauhinia fabrilis (de Wit) K. Larsen & S.S. Larsen, Nordic J. Bot. 11: 634 (1991).
Type: *Anthony*, B.N.B. Forestry Department, No. A. 756 (L, holo; K, image!, KEP, SING, iso).
14. **Phanera foraminifera** (Gagnep.) de Wit var. **falcata** (K. Larsen & S.S. Larsen) Bandyop., P. P. Ghoshal *et M.K. Pathak, comb. nov.*
Bauhinia foraminifera Gagnep. var. *falcata* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 661 (1993). Type: *P.S. Ashton*, BRUN 5614 (L, holo; K, image! iso).

- 15. *Phanera ferruginea* (Roxb.) Benth. var. *griffithiana* (Benth.) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. et stat. nov.****
- Phanera griffithiana* Benth. in Miq., Pl. Jungh.: 263 (1852).
- Bauhinia ferruginea* Roxb. var. *griffithiana* (Benth.) Baker in Hook.f., Fl. Brit. India 2: 283 (1878). Type: *Griffith s.n.* (K, image!, BR).
- 16. *Phanera frankii* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia frankii* K. Larsen & S.S. Larsen, Nordic J. Bot. 11: 633 (1991). Type: *C.W. Franck* 1406 (C, image! holo).
- 17. *Phanera havilandii* (Merr.) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia havilandii* Merr., Philipp. J. Sci., C. 11: 79 (1916). Type: *Native collector*, Bureau of Science no. 199 (US, lecto).
- 18. *Phanera khasiana* (Baker) Thoth. subsp. *polystachya* (Gagnep.) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. et stat. nov.****
- Bauhinia polystachya* Gagnep., Notul. Syst. (Paris) 2: 178 (1912).
- Bauhinia khasiana* Baker subsp. *polystachya* (Gagnep.) K. Larsen & S.S. Larsen, Fl. Cambodge, Laos & Vietnam 18: 189 (1980). Type: *Massie s.n.* (P, image!).
- 19. *Phanera khasiana* (Baker) Thoth. var. *gigalobia* (D.X. Zhang) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia khasiana* Baker var. *gigalobia* D.X. Zhang, Nordic J. Bot. 13: 401 (1993). Type: *Cai Kehua* 584 (KUN, holo & iso).
- 20. *Phanera khasiana* (Baker) Thoth. var. *tomentella* (T.C. Chen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia khasiana* Baker var. *tomentella* T.C.Chen, Guihaia 8: 46 (1988). Type: *W.S. Liou* 303 (KUN, holo).
- 21. *Phanera kingii* (Prain ex King) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia kingii* Prain ex King, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 189 (1897). Type: *Scortechini* 320 (K, image! lecto).
- 22. *Phanera kockiana* (Korth.) Benth. var. *angustifolia* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia kockiana* Korth. var. *angustifolia* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 664 (1993). Type: *W.L. Chew* *et al.* 2968 (K, image! holo; L, image!, SING, iso).
- 23. *Phanera kockiana* (Korth.) Benth. var. *bakoensis* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia kockiana* Korth. var. *bakoensis* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 664 (1993). Type: *Ilias Paie* S.17902 (L, image! holo; K, SAN, SING, iso).
- 24. *Phanera kockiana* (Korth.) Benth. var. *beccarii* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia kockiana* Korth. var. *beccarii* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 664 (1993). Type: *Petrus & Dewol*, SAN 89576 (SAN, holo; AAU, MO, SING, iso).

- 25. *Phanera kockiana* (Korth.) Benth. var. *brevipedicellata* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, **comb. nov.**
Bauhinia kockiana Korth. var. *brevipedicellata* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 664 (1993). Type: *Mogea* 3508 (L, image! holo; BO, iso).**
- 26. *Phanera kockiana* (Korth.) Benth. var. *calcicola* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, **comb. nov.**
Bauhinia kockiana Korth. var. *calcicola* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 664 (1993). Type: *P.J. Martin* S. 38676 (L, image! holo; AAU, K, KEP, iso).**
- 27. *Phanera kockiana* (Korth.) Benth. var. *scarlatina* (Backer ex Cammerl.) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, **comb. et stat. nov.**
Bauhinia scarlatina Backer ex Cammerl., Bul. Fac. Sti. Cernăuti 3: 171 (1929).
Bauhinia kockiana Korth. var. *scarlatina* (Backer ex Cammerl.) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 665 (1993). Type: *Jaheri* 1181 (BO, holo; L, image! iso).**
- 28. *Phanera kostermansii* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, **comb. nov.**
Bauhinia kostermansii K. Larsen & S.S. Larsen, Nordic J. Bot. 11: 629 (1991).
Type: A. *Kostermans* 13549 (L, holo; BO, K, image!, P, iso).**
- 29. *Phanera lingua* (DC.) Miq. var. *antipolana* (Perkins) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, **comb. et stat. nov.**
Bauhinia antipolana Perkins, Fragm. Fl. Philipp. 1: 9 (1904).
Bauhinia lingua DC. var. *antipolana* (Perkins) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 660 (1993). Type: *E.D. Merrill* 1317 (NY, image! lecto).**
- 30. *Phanera lingua* (DC.) Miq. var. *riedelii* (Baker) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, **comb. et stat. nov.**
Bauhinia riedelii Baker, J. Linn. Soc., Bot. 15: 98 (1876).
Bauhinia lingua DC. var. *riedelii* (Baker) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 660 (1993). Type: *Riedel s.n.* (K, lecto; P, W, iso).**
- 31. *Phanera merrilliana* (Perkins) de Wit var. *borneensis* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, **comb. nov.**
Bauhinia merrilliana Perkins var. *borneensis* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 658 (1993). Type: *Ilias bin Paie* S. 28594 (L, image! holo; E, K, SAR, SING, iso).**
- 32. *Phanera ornata* (Kurz) Thoth. subsp. *mizoramensis* (Bandyop. *et al.*) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, **comb. nov.**
Bauhinia ornata Kurz subsp. *mizoramensis* Bandyop. *et al.*, Nordic J. Bot. 12: 223 (1992).
Type: *R. Dutta* 33793 (CAL!, holo).**
- 33. *Phanera ornata* (Kurz) Thoth. var. *balansae* (Gagnep.) Bandyop., P.P. Ghoshal *et al.* M.K. Pathak, **comb. et stat. nov.**
Bauhinia balansae Gagnep., Notul. Syst. (Paris) 2: 168 (1912).
Bauhinia ornata Kurz var. *balansae* (Gagnep.) K. Larsen & S.S. Larsen, Fl. Cambodge, Laos & Vietnam 18: 209 (1980). Type: *M. Balansa* 2140 (P, image!).**

- 34. *Phanera ornata* (Kurz) Thoth. var. *burmanica* (K.Larsen & S.S.Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.**
Bauhinia ornata Kurz var. *burmanica* K. Larsen & S.S. Larsen, Thai Forest Bull., Bot. 13: 42 (1980). Type: *J. Keenan et al.* 735 (E, holo; A, K, image! iso).**
- 35. *Phanera ornata* (Kurz) Thoth. var. *kerrii* (Gagnep.) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. et stat. nov.**
Bauhinia kerrii Gagnep., Notul. Syst. (Paris) 2: 173 (1912).
Bauhinia ornata Kurz var. *kerrii* (Gagnep.) K. Larsen & S.S. Larsen, Fl. Cambodge, Laos & Vietnam 18: 208 (1980). Type: *Kerr* 1740 (K, image! lecto; P, image!, BM, image! isolecto).**
- 36. *Phanera ornata* (Kurz) Thoth. var. *subumbellata* (Pierre *ex* Gagnep.) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. et stat. nov.**
Bauhinia subumbellata Pierre *ex* Gagnep., Notul. Syst. (Paris) 2: 180 (1912).
Bauhinia ornata Kurz var. *subumbellata* (Pierre *ex* Gagnep.) K. Larsen & S.S. Larsen, Fl. Cambodge, Laos & Vietnam 18: 209 (1980). Type: *Harmand* 1119 (P, image! holo).**
- 37. *Phanera pachyphylla* (Merr.) de Wit var. *wenzelii* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.**
Bauhinia pachyphylla Merr. var. *wenzelii* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 659 (1993). Type: *Wenzel* 2537 (NY, image! holo; BO, BR, K, MO, PR, iso).**
- 38. *Phanera rahmatii* (Merr.) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.**
Bauhinia rahmatii Merr., Pap. Michigan Acad. Sci. 19: 158 (1934). Type: *Rahmat Si Toroes* 161 (A, holo; NY, image! iso).**
- 39. *Phanera ridleyi* (Prain *ex* King) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.**
Bauhinia ridleyi Prain *ex* King, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 185 (1897).
Type: *Ridley s.n.* (K, lecto).**
- 40. *Phanera semibifida* (Roxb.) Benth. var. *acuminata* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.**
Bauhinia semibifida Roxb. var. *acuminata* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 660 (1993). Type: *F. Krispinus*, SAN 105335 (K, image! holo; SAN, iso).**
- 41. *Phanera semibifida* (Roxb.) Benth. var. *bruneiana* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.**
Bauhinia semibifida Roxb. var. *bruneiana* K. Larsen & S. S. Larsen, Nordic J. Bot. 13: 660 (1993). Type: *J.P. van Neil* 3455 (L, image! holo).**
- 42. *Phanera semibifida* (Roxb.) Benth. var. *longebracteata* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.**
Bauhinia semibifida Roxb. var. *longebracteata* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 660 (1993). Type: *Winkler* 176 (HBG, holo; AAU, L, iso).**
- 43. *Phanera semibifida* (Roxb.) Benth. var. *perkinsiae* (Merr.) Bandyop., P.P.Ghoshal *et* M.K.Pathak, **comb. et stat. nov.**
Bauhinia perkinsiae Merr., Publ. Bur. Sci. Gov. Lab. 17: 21 (1904), ‘*perkinsae*’.
Bauhinia semibifida Roxb. var. *perkinsiae* (Merr.) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 661 (1993). Type: *E.D. Merrill* 731 (NY, lecto; K, image! isolecto).**

- 44. *Phanera stipularis* (Korth.) Benth. var. ***brachystylus*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia stipularis* Korth. var. *brachystylus* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 659 (1993). Type: *J. van Borssum Waalkes* 2552 (L, image! holo; BO, K, iso).
- 45. *Phanera steenisii* (K. Larsen & S. S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia steenisii* K. Larsen & S.S. Larsen, Nordic J. Bot. 11: 630 (1991). Type: *A. Kanis*, SAN No. 50115 (L, image! holo; K, SAN, iso).
- 46. *Phanera wrayi* (Prain ex King) de Wit var. ***blumeana*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia wrayi* Prain ex King var. *blumeana* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 662 (1993). Type: *T.C. Whitmore* 3342 (K, holo; L, image! iso).
- 47. *Phanera wrayi* (Prain ex King) de Wit var. ***borneensis*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia wrayi* Prain ex King var. *borneensis* K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 662 (1993). Type: *W. Meijer* 47492 (L, image! holo; K, SAN, iso).
- 48. *Phanera wrayi* (Prain ex King) de Wit var. ***cardiophylla*** (Merr.) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. et stat. nov.****
- Bauhinia cardiophylla* Merr., Philipp. J. Sci., C. 11: 79 (1916).
- Bauhinia wrayi* Prain ex King var. *cardiophylla* (Merr.) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 662 (1993). Type: *Native collector* 1858 (A, image!). Dr. Emily W. Wood (*pers. comm.*) informed that there is only a photo of *Native collector* 1858 at A and not any specimen as cited by Larsen and Larsen (1996).
- 49. *Phanera wrayi* (Prain ex King) de Wit var. ***moultonii*** (Merr.) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. et stat. nov.****
- Bauhinia moultonii* Merr., Philipp. J. Sci., C. 11: 82 (1916).
- Bauhinia wrayi* Prain ex King var. *moultonii* (Merr.) K. Larsen & S.S. Larsen, Nordic J. Bot. 13: 662 (1993). Type: *Native collector*, Bureau of Science no. 202 (A, holo; K, image! iso).
- 50. *Phanera wuzhengyii* (S.S. Larsen) Bandyop., P.P. Ghoshal *et* M.K. Pathak, **comb. nov.****
- Bauhinia wuzhengyii* S.S. Larsen, Novon 9: 526 (1999). Type: *H.Y. Ying & W. S. Kong* 580812 (KUN, holo).

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