



Supplement

The following supplementary materials are available for this article: Lin, T.P., Liu, H.-Y. 2025 Annotated checklist of the native orchids of Taiwan and their type information. *Taiwania* 70(1): 87-124. doi: 10.6165/tai.2024.70.87

Complete checklist of the native orchids of Taiwan

(Combined with Lin *et al.* 2016)

“●” indicates an endemic species.

Acampe praemorsa (Roxb.) Blatt. & McCann var. ***longepedunculata*** (Trimen) Govaerts, *Skvortsovia* 4(3): 75. 2018; Lin, Ill. Native Taiwan Orch. 266, f.132. 2022. *A. wightiana* var. β Thwaites, Enum. Pl. Zeyl. 303. 1864. *A. wightiana* var. *longepedunculata* Trimen, Syst. Cat. Fl. Pl. Ceylon: 90. 1885. **Type:** Sri Lanka: Central Province, Ambagamowa and Hunnasgiriya districts, G. H. K. Thwaites, *Ceylon Plant no.* 3392. 蕉蘭

Acampe praemorsa var. *rigida* (Buch.-Ham. ex Sm.) Barbhuiya, D.Verma & Vik.Kumar, *Phytotaxa* 303(3): 274, f.3. 2017. *Aerides rigida* Buch.-Ham. ex Sm., *Cycl.* 39: 12. 1818. *Acampe rigida* (Buch.-Ham. ex J.E. Sm.) P.F. Hunt, *Kew Bull.* 24: 98. 1970; Seidenf., *Bot. Mus. Leaflets Harv. Univ.* 25(2): 49-69. 1977; Lin, *Native Orch. Taiwan* 2: 42, Coloured pl.1-2. 1977; Lin *et al.*, *Taiwania* 61(2): 79. 2016. **Type:** Nepal: Buchanan-Hamilton drawing (holotype: LINN MS/401D/1/2 *Epidendrum rigidum*).

Acampe longifolia (Lindl.) Lindl., *Fol. Orch. Acampe* 1. 1853; Liu & Su, *Taiwan Mus.* 25(1-2): 149, f.1, 2. 1972. *Vanda longifolia* Lindl., *Gen. Sp. Orch.* 215. 1833. **Type:** Myanmar (Burma): Tavoy, Kilalien, Oct. 8, 1827, collected by W. Gomez, *Wallich Numer. List 7322* (holotype K001127173).

Acampe taiwaniana S.S. Ying, *Tech. Bull. Exp. For. Natl. Taiwan Univ.* 114: 156. 1974. **Type:** Taiwan: Mt. Alisan, 600-800 m, Aug. 1974, *Hung s.n.* (NTUF), not found.

Acanthophippium pictum Fukuy., *Bot. Mag. (Tokyo)* 49(586): 666-668. 1935; Chung *et al.*, *Taiwania* 50(3): 201, f.1, 2. 2005; Lin, *Orch. Fl. Taiwan* 300, f.132. 2019. *A. sylhetense* Lindl. var. *pictum* (Fukuy.) Hashimoto, *Ann. Tsukuba Bot. Gard.* 3: 11. 1985. *A. sylhetense auct. non* Lindl.: Nackej., *Enum. Orch. Ryukyu* 1: 47. 1971. **Type:** Taiwan: Lanyu: Kotosan [紅頭山], July 17, 1934, *N. Fukuyama 4679* (holotype KPM-NA0105501, no Fukuyama's no. on the label, photo T00010 in PoT). 延齡鏹花蘭

Acanthophippium striatum Lindl., *Edwards's Bot. Reg.* 24(Misc.): 41. 1838; Ying, *Coloured Ill. Indig. Orch. Taiwan* 1: 42. 1977; Lin, *Native Orch. Taiwan* 3: 1-3, Coloured pl.1-2. 1987. **Type:** Nepal, via Bateman; cult. Kew, June 1838, no specimen image found in Herbarium Lindley IDC microfiche 7395. 一葉鏹花蘭

Tainia unguiculata Hayata, *Icon. Pl. Formosan.* 4: 61, f.28. 1914. *Tainiopsis unguiculata* Hayata, *nom. nud.* in sched (on a label).

Acanthe[or]hippium unguiculatum (Hayata) Fukuy., *Bot. Mag. (Tokyo)* 48: 301. 1934; Hsieh, *Quart. J. Taiwan Mus.* 8: 213. 1955; Liu & Su, *Fl. Taiwan* 5: 868. 1978. **Type:** Taiwan. cult. Taipei (TI, photo T00868 in PoT).

Acanthophippium sylhetense Lindl., *Gen. Sp. Orch. Pl.* 177. 1833 & *J. Linn. Soc.* 3: 21. 1859; Nackej., *Enum. Orch. Ryukyu* 2: 114. 1971; Lin, *Orch. Fl. Taiwan* 301, f.134. 2019. **Type:** India/Bangladesh border: Sylhet, *Wallich s.n.* (not located). 台灣鏹花蘭

Acanthe[or]hippium yamamotoi Hayata, *Icon. Pl. Formosan.* 6: 73-74. 1916; Masam., *J. Geobot.* 14(3): pl.113. 1966. **Type:** Taiwan: Uraisha, K. Yamamoto *s.n.*, not found.

Acanthophippium mantinianum acut. non Linden & Cogn. 1896; Nackej., *Enum. Orch. Ryukyu* 1: 114. 1971; Ying, *Col. Ill. Indig. Orch. Taiwan* 1: 417. 1977.

Aeridostachya robusta (Blume) Brieger, *Schltr., Orchideen Beschreib. Kult. Zücht.*, ed. 3, 1 (11-12): 714. 1981; Lin, Ill. Native Taiwan Orch. 441, f. 264. 2022. *Dendrolirium robustum* Blume, *Bijdr. Fl. Ned. Ind.*: 347. 1825. *Eria robusta* (Blume) Lindl., *Gen. Sp. Orch.* 69. 1830; Liu & Su, *Fl. Taiwan* 5: 987, pl. 1593. 1978; Lin *et al.*, *Taiwania* 61(2): 96. 2016. *Pinalia robusta* (Blume) Kuntze, *Revis. Gen. Pl.* 2: 679. 1891. **Type:** Indonesia: Java, Borgor and Cianjur, Jun. 1, 1893, *C.L. Blume s.n.* (syntypes HBG506662, L0059900). 細花絨蘭

Eria sawadae Yamam., *J. Soc. Trop. Agric.* 3(3): 238. 1931. **Type:** Taiwan: Taitung, Shinsuieci [Chinshuiyin] 4,500 ped., flowering May 1931, K. Sawada *s.n.* (holotype TAI118719).

Eria uchiyamae Tuyama, *Bot. Mag. (Tokyo)* 54(643): 269. 1940. **Type:** Micronesia: Caroline, Palau; Ins. Baobeldaob, Aug 15, 1939, cult. in Ngathpan, flor. Aug. 29, 1939, *T. Tuyama & S. Uchiyama s.n.* (holotype TI); flor. Sept. 7, 1939, *T. Tuyama s.n.* (paratype); Gardok, Apr. 17, 1938, *S. Hatusima s.n.* (paratype).

Agrostophyllum formosanum Rolfe, *Ann. Bot. (Oxford)* 9(33): 157. 1895; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 92. 1896; Ormerod, *Taiwania* 57(3): 253, 2012; Lin, *Orch. Fl. Taiwan* 306, f.135. 2019. **Type:** Formosa. South Cape, [1893-1894,] *Henry 1350* (holotype K000810709; isotype NY00008563). 台灣糠穗蘭

Agrostophyllum inocephalum auct. non (Schauer) Ames; Liu & Su, *Fl. Taiwan* 5: 870. 1978



Agrostophyllum saccatilabium Ames & Quisumb., Philipp. J. Sci. 49: 487. 1932. **syn. nov.** **Type:** The Philippines: cult. in B.S. orchid house, May 6, 1931. *E. Quisumbing 82229* (AMES38147).

Amitostigma gracile (Blume) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 93. 1919; Lin et al., *Taiwania* 61(2): 80, 2016; Lin, *Orch. Fl. Taiwan* 83, f.24. 2019. *Mitostigma gracile* Blume, Mus. Bot. 2: 190. 1856, *nom. nud. non Mitostigma* Decaisne 1844 (type in Japan). *Orchis gracilis* (Blume) Soó, Ann. Hist.-Nat. Mus. Natl. Hung. 26: 348. 1929, *non Orchis gracilis* Fisch. 1835. *Ponerorchis gracilis* (Blume) X.H. Jin, Schuit. et W.T. Jin, Mol. Phylogenet. Evol. 77: 51. 2014. *Hemipilia gracilis* (Blume) Y. Tang, H. Peng & T. Yukawa, BMC Evol. Biol. 15(96): 27. 2015. **Types:** Korea: Tracey Isl., July 1983. *Oldham 1027* (syntypes K) 小雛蘭

Amitostigma yuukiana Fukuy., Bot. Mag. (Tokyo) 48(571): 429. 1934; Masam., J. Geobot. 18(3–4): 13, pl.163. 1970. **Type:** Taiwan: Shinchiku, Yuuki, 7000 ped., July 1932, *N. Fukuyama. 4116* (KPM-NA0105503 without Fukuyama's no., photo T00013 in PoT).

Orchis formosensis S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 266. 1977. **Type:** Taiwan: Nantou, Hohuanshan, 2300–2500 m, July 27, 1976, S.S. Ying 4921 (holotype NTUF, photo F00008213 in PoT).

Orchis sooi S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 2: 290–291. 1990, *nom. illeg.*

Ania hongkongensis (Rolfe) Tang & F.T. Wang, Acta Phytotax. Sin. 1: 88. 1951; Lin, Ill. Native Taiwan Orch. 2nd ed. 272, f.137. 2023. *Tainia hongkongensis* Rolfe, Kew Bull. 195. 1896. **Syntype:** China: Hong Kong, *C. Wright 522* (lectotype, designated by H. Turner in *Orch. Monogr.* 6: 54. 1992. K; isolectotypes: NY, P); *Wilford 384* (K); *Hance s.n.*(1670?) (K); *Ford s.n.* (12/79?) (K). 香港安蘭

Ania penangiana (Hook. f.) Summerh., Bot. Mag. 161: t.9553. 1939; Lin, Native Orch. Taiwan 2: 20. 1977. *Tainia penangiana* Hook. f., Fl. Br. India 5: 820. 1890. **Type:** Malaysia: Penang, *A.C. Maingay 1642* (holotype K000974259, with line-drawing; isotype L0058581). 綠花安蘭

Tainia hookeriana King & Pantling, J. Asiat. Soc. Beng. Pt.2 Nat. Hist. 64: 336. 1895; Seidenf., Opera Bot. 89: 32, f.13. 1986. *Ania hookeriana* (King & Pantling) Tang & F.T. Wang ex Summerhayes, Bot. Mag. 161, t.9553. 1939; Lin, Native Orch. Taiwan 3: 38, ph.12–14. 1987.

Type: India: Sikkim Himalaya, 1892, *R. Pantling 204* (BM000514233, BR0000009973305, P), *synType* K000387852.

Tainia taiwaniana S.S. Ying, Q. J. Chin. For. 20(2): 55. 1987. **Type:** Taiwan: Pingtung, Ching-shui-ying, Aug. 24, 1984, S.S. Ying *s.n.*, not found.

Anoectochilus formosanus Hayata, Icon. Pl. Formosan. 4: 101, pl.53. 1914; Masam., J. Geobot. 14(1): pl.107. 1965; Lin, *Orch. Fl. Taiwan* 86, f.26. 2019. **Type:** Taiwan, cult. Taipei. Mar. 1914, *B. Hayata s.n.*, not found. 台灣金線蓮

Anoectochilus koshunensis Hayata, Icon. Pl. Formosan. 4: 104, f.54. 1914; Lin, *Orch. Fl. Taiwan* 88, f.27. 2019. *Odontochilus koshunensis* (Hayata) S.S. Ying, Coloured Ill. Orch. Taiwan 1: 64. 1996. **Type:** Taiwan: cult. Koshun [恆春], not found. 恆春金線蓮

Anoectochilus tetsuoi Ohwi ex Hatus. & T. Amano, Fl. Okinawa S. Ryukyu 1: 148. 1958. **nom. inval.** **Type:** Ryukyus.

Anoectochilus semiresupinata T.C. Hsu & S.W. Chung, Ill. Fl. Taiwan 1: 294. 2016. **Type:** Taiwan. Ilan County: Mt. Tochiashen, ca. 1300 m, Jul. 12, 2011, *Hsu 4300* (holotype TAIIF).

Anoectochilus lalashanensis S.S. Ying, New Taxa New Names 6: 537–543. 2023. **syn. nov.** **Type:** Taiwan: Taoyuan, Fuhsin, Lalashan, 1989 m, Oct. 9, 2023 (holotype, NTUF).

Anoectochilus roxburghii (Wall.) Lindl., Ill. Bot. Himal. Mts.: 368. 1839; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 92. 1896; Masam., Trop. Hort. 3: 23. 1933; Seidenf., Opera Bot. 114: 32, 1992; Lin, *Orch. Fl. Taiwan* 124. 2022; Yu, *Orchids Taiwan: A Field Guide* 65, ph. 2024. *Chrysobaphus roxburghii* Wall., Tent. Fl. Nepal. 2: 37, t.27. 1826. **Syntype:** India: Mt. Silhet, NAPAUL. WALLICH", *Wallich s.n.* (lectotype, designated by Bhattacharjee & Chowdhery in *Taxon* 63(5): 1116. 2014. WU No. 044614, photo); India: Sylhet, *M.R. Smith s.n.*; Ceylon, *T. Hardwick s.n.* 金線蓮

Aphyllorchis montana Rchb. f., Linnaea 41: 57. 1876; Lin, Native Orch. Taiwan 1: 32, ph.1–2. 1975 & *Orch. Fl. Taiwan* 311, f.137-1. 2019. *Apturium montana auct. non Lindl.*: Lin, Native Orch. Taiwan 1: 32, photo.1-2. 1975. **Type:** Sri Lanka "Ambagumowa District", 1853, *G.H.K. Thwaites Ceylon Plant no. 3189* (K000942661) & *Walker s.n.* (K000387569 in the same sheet). 紫紋無葉蘭

Aphyllorchis tanegashimensis Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 344–345. 1911. **Type:** Japan: Tangeashima, Sept. 1891, *S. Tanaka 442*.

Aphyllorchis purpurea Fukuy., Bot. Mag. (Tokyo) 48(571): 431. 1934. **Type:** Taihoku, Syo-agyku-san [下阿玉山], Aug. 1933, *N. Fukuyama 4121* (holotype KPM-NA0105504, with flower damaged and without Fukuyama collection no., photo T00014 in PoT).

Aphyllorchis montana var. **membranacea** T.C. Hsu, Ill. Fl. Taiwan 1: 296. 2017 [Mar. 2017], ed. 2.; Lin, *Orch. Fl. Taiwan* 311, f.137-2. 2019. **Type:** Taiwan: Pingtung: Shouka, Sept. 3, 2016. *T.C. Hsu 8546* (holotype: TAIIF). ●薄唇無葉蘭



Aphyllorchis montana forma *pingtungensis* T.P. Lin, *Taiwania* 62(2): 205–210, f.1A, B, 2. 2017. **Type:** Taiwan: Pingtung: Shouka, 400 m, Sept. 9, 2016. *T.P. Lin s.n.* (holotype TAI286815, isotypes TAI286816, TAI286817).

Aphyllorchis montana* var. *rotundatipetala (C.S. Leou, S.K. Yu & C.T. Lee) T.P. Lin, *Taiwania* 61(2): 80. 2016; Lin, *Orch. Fl. Taiwan* 312, f.137-3. 2019. *Aphyllorchis rotundatipetala* C.S. Leou, S.K. Yu & C.T. Lee, *Ann. Bot. Fennici* 50: 179–182. 2013. **Type:** Taiwan: New Taipei City, Sanxia 400 m, Aug. 30, 2012, *C.T. Lee 033* (holotype TAI284548). 圓瓣無葉蘭

Appendicula fenixii (Ames) Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 1: 336. 1912; Ormerod, *Taiwania* 47(4): 239. 2002; Lin, *Orch. Fl. Taiwan* 316, f.138. 2019. *Podochilus fenixii* Ames, *Philipp. J. Sci. C* 6: 48. 1911. **Type:** Philippines: Batanes Isl., Mt. Iraya, June 8, 1907, *E. Fenix BS 3794* (holotype AMES00103323). 長葉竹節蘭

Appendicula terrestris Fukuy., *Bot. Mag. (Tokyo)* 50: 22. 1936. **Type:** Taiwan: insl. Koto-syo, monte Omori-yama [大森山], June 3, 1934, *Fukuyama 4809*, not found.

Appendicula lucbanensis (Ames) Ames, *Philipp. J. Sci., C* 8: 415. 1913 publ. 1914; Hsu, *et al.*, *Q. J. For. Res.* 37(1): 1–4. 2014. *Podochilus lucbanensis* Ames, *Leafl. Philipp. Bot.* 5: 1566. 1912. **Type:** Philippines: Luzon, Tayabas Prov., Lucban., May 1907, *A.D.E. Elmer 8068* (holotype AMES00103337; isotypes F265587, F0046464F, MO2140690, NY00009262). 多枝竹節蘭

Appendicula reflexa Blume, *Bijdr.* 301. 1825; Liu & Su, *Fl. Taiwan* 5: 880, 1978; Ormerod, *Taiwania* 47(4): 239. 2002; 49(3): 175–182. 2004; Lin, *Orch. Fl. Taiwan* 317, f.139-1. 2019. **Type:** Java: Tjapus River, *Blume s. n.* (synType L); Mt. Pantjoer, *Blume 296* (syntype L0052471–L0052473). 台灣竹節蘭

Appendicula formosana Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 340–341. 1911. *A. cornuta* var. *formosana* (Hayata) S.S. Ying, *Coloured Ill. Orch. Fl. Taiwan* 2: 395. 1990. *Podochilus formosanus* (Hayata) S.S. Ying, *Coloured Ill. Fl. Taiwan* 5: 609. 1995. **Type:** Taiwan: 1896, *T. Uchiyama s.n.* (holotype TI, photo T00873 in PoT, lip figure on label).

Podochilus taiwanianus S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 297. 1977. **Type:** Taiwan: Pingtung, Nanjenshan. Jan. 23, 1976, *S.S. Ying 4692* (holotype NTUF, photo F00008207 in PoT; isotype NTUF, photo F00008208 in PoT).

Appendicula reflexa* var. *kotoensis (Hayata) T.P. Lin, *Taiwania* 61(2): 81. 2016. *Appendicula kotoensis* Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 341. 1911. *Appendicula formosana* var. *kotoensis* (Hayata) T.P. Lin, *Native Orch. Taiwan* 2: 54, ph.7. 1977. *Podochilus kotoensis* (Hayata) S.S. Ying, *Coloured Ill. Orch. Fl. Taiwan* 1: 74. 1996. **Type:** Taiwan: Kotosho [Lanyu Isl.], Aug. 1906, *T. Kawakami et U. Mori 5802* (holotype TI, photo T00874 in PoT). ●蘭嶼竹節蘭

Arachnis labrosa (Lindl. & Paxton) Rehb. f., *Bot. Centralbl.* 28: 343. 1886; Seidenf., *Opera Bot.* 95: 140. 1988; Su, *Fl. Taiwan* 2nd ed. 5: 753. pl.320. 2000; Lin, *Orch. Fl. Taiwan* 321, f.140. 2019. *Arrhynchium labrosum* Lindl. ex Paxton., *Paxton's Fl. Gard.* 1: 142. 1851. *Renanthera labrosa* (Lindl. & Paxton) Rehb. f., *Xenia Orch.* 1: 88. 1855. *Armadorum labrosum* (Lindl. & Paxton) Schltr., *Repert. Spec. Nov. Regni Veg.* 10: 197. 1911; Liu & Su, *Q. J. Taiwan Mus.* 28(1–2): 269–276. 1975. **Type:** Tropical Asia, cult. by Philip Egerton in London. 龍爪蘭

Renanthera leptantha Fukuy. ex A.T. Hsieh, *Q. J. Taiwan Mus.* 8(3): 276. 1955. *nom. illeg.*, **Type:** [Kaohsiung: Chishan], Tyusinron [中心崙], Oct. 26, 1934, *N. Fukuyama 5568* (TAI118747).

Renanthera leptantha f. *flavicans* Fukuy. ex A.T. Hsieh, *Q. J. Taiwan Mus.* 8(3): 276. 1955. *nom. illeg.* **Type:** Taiwan: Taihoku-syu, Suoogun [蘇澳], Mt. Oobi [澳尾山], Apr. 23, 1938, *G. Masamune 7457* (TAI118748).

Renanthera taiwanensis Fukuy. ex A.T. Hsieh, *Q. J. Taiwan Mus.* 8(3): 276. 1955. *nom. illeg.* **Type:** Taiwan: Suao, Mt. Oobi [澳尾山], Apr. 23, 1938, *G. Masamune s.n.* (TAI115488).

Arundina graminifolia (D. Don) Hochr., *Bull. New York Bot. Gard.* 6: 270. 1910; Lin, *Native Orch. Taiwan* 1: 34, ph.3–5. 1975 & *Orch. Fl. Taiwan* 323, f.141. 2019. *Bletia graminifolia* D. Don, *Prodr. Fl. Nepal.* 29. 1825. **Type:** Nepal: Sembu, July 15, 1802, *Buchanan s.n.* (holotype BM000091395). 竹葉蘭/鳥仔花

Limodorum graminifolium Buch.-Ham. ex Hook. f., *Fl. Br. India [J.D. Hooker]* 5(16): 857. 1890, **pro syn.**

Arundina chinensis Blume, *Bijdr. Fl. Ned. Ind.* 8: 402. 1825; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 92. 1896. *A. graminifolia* var. *chinensis* (Blume) S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 51. 1977. **Type:** Java: cult., China introd. (holotype L0052540). Taiwan: Tamsui, 1893–1894, *A. Henry 1386*.

Bletilla formosana (Hayata) Schltr., *Repert. Spec. Nov. Regni Veg.* 10: 256. 1911; Lin, *Orch. Fl. Taiwan* 325, f.142. 2019. *Bletia formosana* Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 323–324. 1911; Masam., *J. Geobot.* 14(3): pl.115. 1966. **Types:** Taiwan: Yilan, Chiuchiung Lake (九芎湖), June 11, 1906, *T. Kawakami et U. Mori 1335* (isosyntype TAI6525, TAI6526 without collection no.). 台灣白及



Bletilla morrisonicola (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. 10: 256. 1911. *Bletia morrisonicola* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 324–325. 1911. **Type:** Taiwan: Mt. Morrison, 10000[8000] ped, Nov. 25, 1906. *T. Kawakami et U. Mori 2311* (holotype TI, photo T00875 in PoT; isotype TAI6536).

Bletilla kotoensis (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. 10: 256. 1911. *Bletia kotoensis* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 325–326. 1911. *B. striata* var. *kotoensis* (Hayata) Masam., Sci. Rep. Kanazawa Univ., Biol. 9: 126. 1964. *B. formosana* f. *kotoensis* (Hayata) T.P. Lin, Nat. Orch. Taiwan 2: 65. 1977. **Type:** Taiwan: Kotosho, Apr. 15, 1907, *T. Kawakami et U. Mori 2452* (holotype TI, photo T00876 in PoT; isotypes TAI6534 & 6535, K000942610).

Bletilla formosana (Hayata) Schltr. f. *rubrolabella* S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 30(2): 68. 1990. **Type:** Taiwan: Yilan, Tulishan [獨立山] to Chi-lan, June 17, 1990, *S.S. Ying s.n.* (NTUF).

Brachycorythis galeandra (Rchb. f.) Summerh., Kew Bull. 10: 241. 1955; Su, Fl. Taiwan 2nd ed. 5: 760. pl.324. 2000. *Platanthera galeandra* Rchb.f., Linnaea 25: 226. 1852. *Habenaria galeandra* (Rchb. f.) Benth., Fl. Hongk. 363. 1861; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 93. 1896. *Phyllomphax galeandra* (Rchb. f.) Schltr., Repert. Spec. Nov. Regni Veg. 16: 286. 1919. **Type:** (from Ołędzrzyńska & Szlachetko, Biodiv. Res. Conserv. 62: 5–116. 2021) China, 1845, *Fortune 78* (holotype W; isotypes: K000894310, K000894311, K000894446, BM, MNHN-P-P00363984). 寬唇芭葉蘭

Platanthera obcordata auct non Lindl.: Matsum. et Hayata, J. Coll. Sci. Univ. Tokyo 22: 419. 1906. Taiwan: Bankinsing, *A. Henry 850*.

Platanthera truncatolabellata Hayata, Icon. Pl. Formosan. 4: 124, f. 65. 1914. *Phyllomphax truncatolabellata* (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 119. 1919. *Brachycorythis truncatolabellata* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 422. 1977. **Type:** Taiwan: Nanto, Randaizan, July [30], 1907, *T. Kawakami et U. Mori 3482* (isotype TAI6919).

Brachycorythis peitawuensis T.P. Lin & W.M. Lin, Taiwania 54(4): 323–325, f.1. 2009. **Type:** Taiwan: Pingtung, Mt. Peitawu 2100 m, Aug. 3, 2009, *Y.F. Wang s.n.* (holotype TAI268953). 北大武芭葉蘭

Bulbophyllum affine Lindl., Gen. Sp. Orchid. Pl. 48. 1830; Nackej., Biol. Mag. (Okinawa) 8: 76. 1971; Seidenf., Bull. Mus. Hist. Nat. (Paris) 3. ser. 71. Bot. 109. 1973; Seidenf., Dansk Bot. Ark. 33(3): 18, f.3. 1979; Lin, Orch. Fl. Taiwan 328, f.143. 2019. **Type:** Nepal: 1821, *Wallich 1982* (holotype K000894322; isotypes BR0000009972834, E00157483, K001114844). 紋星蘭

Bulbophyllum kusukusense Hayata, Icon. Pl. Formosan. 4: 48, f.19. 1914. **Type:** Taiwan: Pingtung, Kusukusu [高士佛], June 1912, *B. Hayata et S. Sasaki s.n.*

Bulbophyllum albociliatum (T.S. Liu & H.J. Su) C. Nackej., Biol. Mag. (Okinawa) 10: 36. 1973 (publ. date: May 1974). *Cirrhopetalum albociliatum* T.S. Liu & H.J. Su, Q. J. Taiwan Mus. 24(1–2): 173, pl.1. 1971. *Bulbophyllum albociliatum* (T.S. Liu & H.J. Su) Seidenf., Dansk Bot. Ark. 29(1): 89, f.42. 1973 (publ. date: Aug. 1974); Lin *et al.*, Taiwania 61(2): 81, 2016. **Type:** Taiwan: Chinshuiying [浸水營], *H.J. Su 174* (holotype NTUF, photo F00017993 in PoT). ●白毛捲瓣蘭

Bulbophyllum taichungianum S.S. Ying, Q. J. Chin. For. 11(2): 102, f.1. 1978. **Type:** Taiwan: Lishan, 1850 m, [July 14, 1977], *S.S. Ying 6201* (holotype NTUF, photo F00000330 in PoT).

Bulbophyllum taialpinum S.S. Ying, New Taxa New Names 6: 519–524. 2023. **syn. nov. Type:** Taiwan: Miaoli, Taian, Guanwu [觀霧], 2350 m, *S.S. Ying s.n.* May 30, 2023 (holotype, NTUF).

Bulbophyllum albociliatum var. **brevipedunculatum** (T.C. Hsu & S.W. Chung) W.M. Lin & Y.F. Wang, Wild Orch. Taiwan: 126 (ph.) 2014; Lin, Orch. Fl. Taiwan 330, f.144-2. 2019. *B. brevipedunculatum* T.C. Hsu & S.W. Chung, Taiwania 53(1): 23–26, f.1, 2a–c, 3. 2008. **Type:** Taiwan: Yilan, Taipingshan Forest Recreation Area, 1800 m, Apr. 18, 2007, *T.C. Hsu & S.W. Chung 766* (holotype TAI6326873; isotype TAI?). ●短梗豆蘭

Bulbophyllum albociliatum var. **remotifolium** (Fukuy.) Lin, Orch. Fl. Taiwan 333, f.144-3-1. 2019. *Cirrhopetalum remotifolium* Fukuy., Bot. Mag. (Tokyo) 49(586): 669–670. 1935; Lin *et al.*, Taiwania 61(2): 84. 2016. *B. remotifolium* (Fukuy.) S.S. Ying, Bull. Exp. For. Natl. Taiwan Univ. 114: 156. 1974. *B. remotifolium* (Fukuy.) C. Nackej., Biol. Mag. (Okinawa) 10: 36. 1973. **Type:** Taiwan: Karenko, Nogogoe, Sakahen, July 1933, *J. Ohwi 4710* (not in TAI or TI). ●長萼白毛捲瓣蘭

Bulbophyllum albociliatum var. **shanlinshiense** T.P. Lin & Y.N. Chang, Taiwania 58(4): 260–262, f.2F, 4. 2013. **Type:** Taiwan: Nantou, Shanlinshi, 1600–1800 m, June 2013, *B.N. Shen s.n.* (holotype TAI283128). ●杉林溪捲瓣蘭

Bulbophyllum albociliatum var. **weiminianum** T.P. Lin & L.L.K. Huang, Taiwania 50(4): 290–294, f.1, 4a–b. 2005. **Type:** Taiwan: Taitung, 1800–2300 m, *W.M. Lin s.n.* (holotype TAI6224766). ●維明豆蘭



Bulbophyllum cilisepalum T.C. Hsu & S.W. Chung, *Taiwania* 53(1): 26–27, f.2d–f, 3, 4. 2008; Lin, *Ill. Native Taiwan Orch.* 294, f.146-1. 2022. **Type:** Taiwan: Taichung, Daxueshan Forest Recreation Area, 2000–2100 m, June 30, 2007, *T.C. Hsu 874* (holotype TAI297354). ●毛緣萼豆蘭

Bulbophyllum cryptomeriicola T.P. Lin & S.K. Yu, *Taiwania* 67(3): 361–365, f.1, 2. 2022. **Type:** Taiwan: Chiayi Co., Alishan Township, 2200 m, Oct. 19, 2018, *S.K. Yu s.n.* (holotype TNM, S206748); Oct. 1, 2021, *S.K. Yu s.n.* (paratype TAI289896). ●柳杉捲瓣蘭

Bulbophyllum curranii Ames, *Philipp. J. Sci. C* 7: 130. 1912; Lin, *Ill. Native Taiwan Orch.* 295, f.146-2. 2022. **Type:** Philippines: Luzon, Benguet Subprovince, summit of Mt. Tonglon, Aug. 8, 1906, H.M. Curran, *For. Bur.* 4953 (holotype AMES8348 illustration on the label). 小豆蘭

Bulbophyllum gracillimum Hayata, *Icon. Pl. Formosan.* 2: 132–133. 1912. *non* Rolfe 1907, **Type:** Taiwan: Nokozen [能高], Jan. 16, 1908, *T. Kawakami et U. Mori [6260]* (holotype TI, photo T00879 in PoT).

Bulbophyllum calophyllum L.O. Williams, *Bot. Mus. Leafl.* 6: 98. 1938. **Type:** Philippines: Luzon, Prov. Rizal, Sept. 1909, *Loher 14649* (holotype AMES45900; isotype Herb. Bur. Sci., Manila).

Bulbophyllum aureolabellum T.P. Lin, *Native Orch. Taiwan* 1: 38–39. 1975; Lin *et al.*, *Taiwania* 61(2): 82. 2016; Lin, *Orch. Fl. Taiwan* 334, f.145. 2019 **Type:** Taiwan: Lintienshan 1200 m, Apr. 2, 1974, *T.P. Lin 63* (syntypes TAI183952, TAI203898).

Bulbophyllum drymoglossum Maxim. ex Ôkubo, *Bot. Mag. (Tokyo)* 1(1): 14, t.3. 1887; Lin, *Native Orch. Taiwan* 1: 40, ph.9. 1975; Lin, *Ill. Native Taiwan Orch.* 296, photo. 2022. **Type:** Japan: Awanokuni (south of Chiba ken), Mt. Kiyosumi [澄清山], 350 m, June, 1882. 日本狹萼豆蘭

Bulbophyllum drymoglossum Maxim. var. **somai** (Hayata) T.P. Lin, *Ill. Native Taiwan Orch.* 297, f.147-2. 2022. *B. somae* Hayata, *Icon. Pl. Formosan.* 9: 109, f.37. 1920; Masam., *J. Geobot.* 19(1–2): 1, pl.166. 1971; Lin *et al.*, *Taiwania* 61(2): 84. 2016. **Type:** Taiwan: Taipei, Uraisha, June 1916, *T. Soma, s.n.* (holotype TI, photo T00885 in PoT). ●狹萼豆蘭

Bulbophyllum electrinum Seidenf., var. **sui** T.P. Lin & W.M. Lin, *Taiwania* 54(4): 324–325, f.2A. 2009; Lin *et al.*, *Taiwania* 61(2): 82. 2016. Lin, *Orch. Fl. Taiwan* 339, f.146. 2019. *B. electrinum non* Seidenf.: Su, Q. J. Chin. For. 22(2): 20, pl.1. 1989. *B. hirundinis* var. *electrinum* (Seidenf.) S.S. Ying, *Coloured Ill. Orch. Taiwan* 2: 408. 1990. **Type:** Taiwan: Taitung: Chingshuiying, 1000–1500 m, Mar.–Apr. 1988, *Su 162* (holotype NTUF?). ●長軸捲瓣蘭

Bulbophyllum fimbriperianthium W.M. Lin, L.L.K. Huang & T.P. Lin, *Taiwania* 51(3): 162–163, f.1, 5A. 2006; Lin, *Orch. Fl. Taiwan* 339, f.147. 2019. **Type:** Taiwan: Pingtung, Tahanshan, 1300–1400 m, Sept. 10, 2005, *W.M. Lin s.n.* (holotype TAI 256489). ●流蘇豆蘭

Bulbophyllum flaviflorum (T.S. Liu & H.J. Su) Seidenf., *Bull. Mus. Paris* 3. s.71: 109. 1973; Lin *et al.*, *Taiwania* 61(2): 82. 2016. Lin, *Orch. Fl. Taiwan* 340, f.148. 2019. *Cirrhopetalum flaviflorum* T.S. Liu & H.J. Su, Q. J. Taiwan Mus. 24(1–2): 174, pl.2. 1971. **Type:** Taiwan: Nantou, Mt. Shui-she-ta-shan [水社大山], *H.J. Su 180* (holotype NTUF, photo F00017992 in PoT); Hsinchu: Mt. Li-tung, *H.J. Su 230*; Chinshuiying *H.J. Su 376* (paratype NTUF, photo F00008304 in PoT). ●翠華捲瓣蘭

Bulbophyllum griffithii (Lindl.) H. G. Rchb. F., *Ann. Bot. Syst.* 6: 247. 1861; Chen *et al.*, *Fl. China* 25: 408. 2009; Lin, *Orch. Fl. Taiwan* 344, f.149. 2019. *Sarcopodium griffithii* Lindl., *Fol. Orch.* 2: 6. 1853. **Type:** India: Khasia hills, *T. Lobb* (synType K000363908); Khasia hills, at 5000 ft, *J.D. Hooker & T. Thomson 53* (synType K000078663), Oct. 16, 1850, *J.D. Hooker & T. Thomson 2505* (Lectotype: K000894320 designated by Lin *et al.* 2016); Myrung wod, *Griffith s.n.* (synType). 溪頭豆蘭

Bulbophyllum calodictyon Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 70–71. 1919. **Type:** China: Yunnan, Szemao, *Henry 13609* (isotypes K000810995, NY39321).

Bulbophyllum chitouense S.S. Ying, *Coloured Ill. Fl. Taiwan* 5: 591–592, pl.83, 84. 1992. **Type:** Taiwan: Nantou, Chitou, 1160 m, Nov. 25, 1994, *S.S. Ying 9220* (holotype NTUF, photo F00000141 in PoT).

Bulbophyllum hirundinis (Gagnep.) Seidenf., *Dansk Bot. Ark.* 29: 76. 1973; Lin, *Native Orch. Taiwan* 1: 44–45, ph.11. 1975 & *Ill. Native Taiwan Orch.* 302, f.152-1-1. 2022. *Cirrhopetalum hirundinis* Gagnep. *Bull. Soc. Bot. France* 78: 5. 1931. **Type:** Vietnam, Tonkin, Mt. Bavi, pagoda de Dein-touan, Sept. 11, 1886, *M. Balansa 2032*. (P00348062). 朱紅冠毛蘭/花蓮捲瓣蘭

Bulbophyllum remotifolium auct. non (Fukuy.) C. Nackej.: Seidenf., *Dansk Bot. Ark.* 29(1): 76. 1973.



Bulbophyllum hirundinis var. *puniceum* T.P. Lin & Y.N. Chang, *Taiwania* 58(4): 260–261. 2013. *B. karenkoensis* var. *puniceum* (T.P. Lin & Y.N. Chang) T.P. Lin, Lin *et al.*, *Taiwania* 61(2): 83. 2016. **Type:** Taiwan: Taoyun: Xicun, N. Cross-Island Highway, 800 m, June 2013, cult. to flower, L.Z. Chang *s.n.* (holotype TAI283127).
Bulbophyllum hirundinis var. *rubriflorum* W.M. Lin & Y.F. Wang, *Wild Orch. Taiwan* 149(ph.) 2014. *nom. nud.*
Bulbophyllum hirundinis var. *pinlinianum* W.M. Lin & Y.F. Wang, *Wild Orch. Taiwan* 148(ph.) 2014. *nom. nud.*
Bulbophyllum karenkoensis T.P. Lin, *Taiwania* 61(2): 83. 2016. **nom. superfl.** **Type:** Taiwan: Taitung: Mt. Tulan, 900 m, Aug. 10, 2004, T.C. Hsu & S.W. Chung 109 (holotype TAI211529).

Bulbophyllum hirundinis* var. *calvum (T.P. Lin & W.M. Lin) T.P. Lin, *Ill. Native Taiwan. Orch.* 304, f.152-2. 2022.
B. electrinum var. *calvum* T.P. Lin & W.M. Lin, *Taiwania* 54(4): 325, f.2B. 2009; Lin *et al.*, *Taiwania* 61(2): 82. 2016.
B. karenkoensis var. *calvum* (T.P. Lin & W.M. Lin) Lin, *Orch. Fl. Taiwan* 351, f.152-2. 2019. **Type:** Taiwan: Pingtung, Shouka, 350 m, May 25, 2009, W.M. Lin *s.n.* (holotype TAI268955). ●無毛捲瓣蘭

Bulbophyllum hirundinis* × *B. setaceum* var. *confragosum T.P. Lin in *Ill. Native Taiwan. Orch.* 2nd ed. 46 & 306, ph.35. 2023. **Type:** Taiwan: I.F. Wang *s.n.*, Apr. 26, 2022 (TAI289906). ●富貴捲瓣蘭

Bulbophyllum insulsoides Seidenf., *Dansk Bot. Ark.* 29(1): 89, f.41. 1973; Liu & Su, *Fl. Taiwan* 5: 894. 1978; Lin *et al.*, *Taiwania* 61(2): 78, 2016; Lin, *Orch. Fl. Taiwan* 344, f.150. 2019. *Cirrhopetalum racemosum* (Hayata) Hayata, *Gen. Indig. Fl. Formosan.* 76. 1917. *Bulbophyllum racemosum* Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 317–318. 1911, *non* Rolfe 1893; Masam., *J. Geobot.* 22(2): 6, f.203. 1974. **Type:** Taiwan: Nantou, Shojodaizan [守城大山], Aug. [12], 1906, T. Kawakami *et U. Mori* 1239, (holotype TI, photoT00882 in PoT; isotype TAI26608). ●穗花捲瓣蘭

Bulbophyllum racemosum Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 317–318. 1911, *non* Rolfe 1893; Masam., *J. Geobot.* 22(2): 6, f.203. 1974. *Cirrhopetalum racemosum* (Hayata) Hayata, *Gen. Indig. Fl. Formosan.* 76. 1917. **Type:** Taiwan: Nantou, Shojodaizan [守城大山], Aug. [12], 1906, T. Kawakami *et U. Mori* 1239, (holotype TI, photoT00882 in PoT; isotype TAI26608).
Bulbophyllum insulsum auct. non (Gagnep.) Seidenf.: Su, *Q. J. Chin. For. Sci.* 22: 22, pl.2. 1989. (wrong identification indicated by *Opera Bot.* 114: 267. 1992).

Bulbophyllum japonicaum (Makino) Makino, *Bot. Mag. (Tokyo)* 24: 31. 1910; Lin, *Native Orch. Taiwan* 1: 48, ph.14. 1975. *Cirrhopetalum japonicum* Makino, *Ill. Fl. Jpn.* t.442. 1891. *Bulbophyllum japonicum* (Makino) J.J. Sm., *Bull. Jard. Bot. Buitenzorg, sér. 2*, 8: 25. 1912. **Type:** Japan: Osumi, Yaku-shima, Sept. 1909, T. Makino *s.n.* not found.
瘤唇捲瓣蘭

Bulbophyllum inabai Hayata, *Icon. Pl. Formosan.* 4: 47, pl.9. 1914. *Cirrhopetalum inabai* Hayata *nom. nud. in sched. Cirrhopetalum inabae* (Hayata) Hayata, *Gen. Indig. Fl. Formosan.* 76. 1917. **Type:** Taiwan: Maisha, July 1911, H. Inaba *s.n.*, not found.

Bulbophyllum kuanwuensis S.W. Chung & T.C. Hsu, *Taiwania* 51(2): 139–142, f.1–5. 2006; Lin *et al.*, *Taiwania* 61(2): 83. 2016. Lin, *Orch. Fl. Taiwan* 354, f.153-1. 2019. **Type:** Taiwan: Hsinchu, Kuanwu, 2000 m, epiphytic on *Tsuga chinensis*, July 11, 2004, T.C. Hsu 500 (holotype TAI277952). ●觀霧豆蘭

Bulbophyllum kuanwuensis* var. *luchuensis T.P. Lin & W.M. Lin, *Taiwania* 54(4): 325–326, f.2C. 2009. Lin *et al.*, *Taiwania* 61(2): 83. 2016. **Type:** Taiwan: Nantou, Luchushan, 2170 m, Aug. 11, 2005, W.M. Lin *s.n.* (holotype TAI256487). ●克森豆蘭

Bulbophyllum kuanwuensis* var. *rutilum T.P. Lin & W.M. Lin, *Taiwania* 54(4): 327, f.2D. 2009. Lin *et al.*, *Taiwania* 61(2): 83. 2016. **Type:** Taiwan: Nantou, Luchushan, 2140 m, Mar. 6, 2008, W.M. Lin *s.n.* (holotype TAI268961). ●石仙桃豆蘭

Bulbophyllum linearibractium S.S. Ying, *New Taxa New Names* 6: 514–518, f.637–641. 2023. **Type:** Taiwan: Miaoli County, Taian Townshai [泰安鄉], Guanwu 2150 m, May 16, 2023, S.S. Ying *s.n.* (holotype NTUF). ●線苞石豆蘭

Bulbophyllum macraei (Lindl.) Rchb. f., *Ann. Bot. Syst.* 6: 263. 1861; Nackej., *Biol. Mag.* 10: 36. 1973; Seidenf., *Dansk Bot. Ark.* 29(1): 217, f.118. 1973; Lin, *Native Orch. Taiwan* 1: 50, ph.15, 16. 1975. Lin *et al.*, *Taiwania* 61(2): 83. 2016. *Cirrhopetalum macraei* Lindl., *Gen. Sp. Orch. Pl.* 59. 1830. **Type:** Ceylon: sine loc., *Macrae s.n.* (Herb. Lindl., no specimen image found in Herbarium Lindley IDC microfiche 7395). 一枝瘤/烏來捲瓣蘭

Bulbophyllum uraiense Hayata, *Icon. Pl. Formosan.* 4: 50. 1914. *Cirrhopetalum uraiense* Hayata, *Icon. Pl. Formosan.* 4: 51. 1914. **Type:** Taiwan: Urai, June [1], 1912, B. Hayata *et S. Sasaki s.n.* (syntype TI, photo T000887–890 in PoT).

Bulbophyllum formosanum (Rolfe) Seidenf., *Dansk Bot. Ark.* 29(1): 172. 1973. *B. formosanum* (Rolfe) Nackej., *Biol. Mag.* 10: 36. 1973. *Cirrhopetalum formosanum* Rolfe, *Bull. Misc. Inform. Kew* 1914(10): 372–373. 1914 (Flowers are straw-yellow with a deep-yellow lip and a suffusion of pink in the petals). **Type:** Formosa. *W. R. Price* 1043 (syntype K000867018, K000867019).



Bulbophyllum macraei var. *autumnale* (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 424. 1977. *B. autumnale* (Fukuy.) S.S. Ying, Bull. Exp. For. Natl. Taiwan Univ. 114: 156. 1974. *Cirrhopetalum autumnale* Fukuy., Bot. Mag. (Tokyo) 49(587): 760. 1935. **Type:** Taiwan: Pintung, prope Botan-sya [牡丹], May 30, 1934, *N. Fukuyama 4722* (holotype KPM-NA0105521, photo T00023 in PoT).

Bulbophyllum tanegasimense Masam., J. Geobot. 16: 57. 1968. **Type:** Japan: Tanegasima, Kagosimaken, cult. Kagosima fl. 1927.

Bulbophyllum maxi W.M. Lin & Y.F. Wang ex. Lin, Orch. Fl. Taiwan 359, f.155. 2019, *emend.* *Taiwania* 66(1): 17–19, f.6. 2021. *Bulbophyllum* sp. Lin, W.M., Field Guide Wild Orch. Taiwan 3: 26. 2006. *B. maxii* W.M. Lin & Y.F. Wang, Wild Orch. Taiwan 162–163. 2014. *nom. nud.* **Type:** Taiwan: Kaohsiung, Tienchih, Southern Cross-island Highway, 2000–2100 m, Apr. 1, 2008, cult. *W.M. Lin s.n.* (holotype TAI268962). ●天池捲瓣蘭

Bulbophyllum melanoglossum Hayata, Icon. Pl. Formosan. 4: 49, pl.10. 1914; Lin, Native Orch. Taiwan 1: 52, ph.17, 18. 1975 & Orch. Fl. Taiwan 360, f.156. 2019; Masam., J. Geobot. 25(1): 3, f.237. 1977. *Cirrhopetalum melanoglossum* (Hayata) Hayata, Gen. Ind. Fl. Formos. 76. 1917. **Type:** Taiwan: location not indicated, cult. Taipei (holotype TI, photo T00880 in PoT). ●紫紋捲瓣蘭

Bulbophyllum striatum (T.S. Liu & H.J. Su) Nackej., Biol. Mag. 10: 36. 1973. *Cirrhopetalum striatum* T.S. Liu & H.J. Su, Q. J. Taiwan Mus. 24(1–2): 176, pl.3. 1971. **Type:** Taiwan: Taitung: Chi-pan [知本], 1200 m, Aug. 3, 1970, *H.J. Su 380* (holotype NTUF, photo F00017991 in PoT); Mt. Ta-pu [大埔山] *H.J. Su 268* (paratype); Liu-kuei *H.J. Su 272* (paratype).

Bulbophyllum linchianum S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 61. 1977. **Type:** Taiwan: Hualien, Taipalung, *S.S. Ying 3510* (NTUF).

Bulbophyllum rubropunctatum S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 75. 1977. *B. melanoglossum* var. *rubropunctatum* (S.S. Ying) S.S. Ying, Coloured Ill. Orch. Taiwan 2: 415. 1990. **Type:** Taiwan: Hualien, Taipalung, 1100 m, Feb. 4, 1975, *S.S. Ying s.n.*

Bulbophyllum omerandrum Hayata, Icon. Pl. Formosan. 4: 50. 1914; Lin, Orch. Fl. Taiwan 364, f.157. 2019. *Cirrhopetalum omerandrum* Hayata *nom nud. in sched.* & *C. omerandrum* (Hayata) Hayata, Gen. Indig. Fl. Formosan. 76. 1917. **Type:** Taiwan: Mt. Alisan: Heishana, 6000 ped. May 11, 1914, *B. Hayata et T. Ito s.n.* (holotype TI, photo T00881 in PoT). 毛藥捲瓣蘭

Bulbophyllum ×omerumbellatum T.P. Lin, *Taiwania* 67(2): 461–464, f.1, 2. 2022. **Type:** Taiwan: Chiayi Co., Alishan Township, 1650 m, Mar. 13, 2022, *K.C. Yueh s.n.* (holotype TAI289902). ●樂氏捲瓣蘭

Bulbophyllum pauciflorum Ames, Philipp. J. Sci. C 7: 132. 1912; Chen *et al.*, Fl. China 25: 437. 2009; Lin, Orch. Fl. Taiwan 364, f.158. 2019. **Type:** Philippines: Luzon: Bontoc Subprovince, 1650 m, Aug. 17, 1911, *F.M. Vanoverbergh 1381* (holotype AMES00105775, illustration on label). 非豆蘭

Bulbophyllum ryanum Fukuy., Bot. Mag. (Tokyo) 49(586): 668–669. 1935; Lin, Native Orch. Taiwan 1: 62, ph.23. 1975. **Type:** Taiwan: Taipei, Mt. Syoagyokusan [小阿玉山], Jan. 17, 1935, *K. Segawa et N. Fukuyama s.n.* (holotype KPM-NA0105506 without Fukuyama's no., photo T00016 in PoT).

Bulbophyllum pectinatum Finet, Bull. Soc. Bot. France 44: 268. 1897; Seidenf., Dansk Bot. Ark. 33(3): 25, f.9. 1979; Su, Fl. Taiwan, 2nd ed. 5: 771. pl.328. 2000. Lin *et al.*, *Taiwania* 83–84. 2016. **Type:** China: Yunnan, entre Mianning et Yung-Chan, 1894–1895, *H. d'Orléans s.n.* (holotype P00252785). 百合豆蘭/阿里山豆蘭

Bulbophyllum transarisanense Hayata, Icon. Pl. Formosan. 6: 73. 1916; Masam., J. Geobot. 17(2): 14, pl.149. 1969; Lin, Native Orch. Taiwan 1: 64, ph.24. 1975 & Orch. Fl. Taiwan 379, f.167. 2019. *B. viridiflorum* sensu Hayata, Icon. Pl. Formosan. 2: 133–134. 1912. *non* Schltr. *B. pectinatum* var. *transarisanense* (Hayata) S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 29: 51. 1989. **Type:** Taiwan: Mt. Alisan, Jan. 1912, *B. Hayata et S. Sasaki s.n.*

Bulbophyllum transarisanense Hayata f. *alboviride* Fukuy., List Vasc. Pl. Taiwan 167. 1954. *nom. nud.*

Bulbophyllum pingtungense S.S. Ying & S.C. Chen, Coloured Ill. Fl. Taiwan 1: 499. 1985; Lin, Orch. Fl. Taiwan 367, f.159. 2019. *Cirrhopetalum pingtungense* (S.S. Ying & S.C. Chen) Garay, Hamer & Siegerist, Nordic J. Bot. 14: 621. 1994. **Type:** Taiwan: Pingtung, Nanjenshan, 450 m, Apr. 1983, *S.C. Chen s.n.* (isotype NTUF, photo F00008282 in PoT). 屏東捲瓣蘭

Bulbophyllum wightii auct. *non* Rchb. f.: Su in Q. J. Chin. For. 20(4): 97, pl.1. 1987. Taiwan: Luliaoqi, *Su 6919 & Su 7029* (NTUF).

Bulbophyllum retusiusculum Rchb. f., Gard. Chron. 1869: 1182. 1869; Seidenf., Dansk Bot. Ark. 29(1): 195, f.106–108. 1973; Lin, Native Orch. Taiwan 1: 60, ph.21, 22. 1975 & Orch. Fl. Taiwan 367, f.160. 2019. *Cirrhopetalum retusiusculum* (Rchb. f.) Hook. f., Fl. Brit. India 5: 776. 1890. **Type:** Burma: Bhamo, Moulmein, *Benson Veitch 93* (Herb. Reichenb.); Nepal, 1819, stored under *Cirrhopetalum wallichii* (Lindl.) Rchb. f. (holotype W-R, IDC microfiche number 8802. 162/12, isotype BM000516919). 黃萼捲瓣蘭

Bulbophyllum flavisepalum Hayata, Icon. Pl. Formosan. 2: 131–132. 1912; Masam., J. Geobot. 17(2): 13, pl.148. 1969. *Cirrhopetalum flavisepalum* (Hayata) Hayata, Gen. Ind. Fl. Formos. 76. 1917. **Type:** Taiwan: Alisan, prope Taroyen [哆羅焉], Jan. 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T00877 in PoT; isotype TAI 6605).



Bulbophyllum rubrolabellum T.P. Lin, *Taiwania* 20(2): 163. 1975; Liu & Su, *Fl. Taiwan* 5:899, 1978. Ormerod, *Taiwania* 47(4): 240, 2002. & *Orch. Fl. Taiwan* 370, f.161. 2019. *B. odoratissimum* var. *rubrolabellum* (T.P. Lin) S.S. Ying, *Coloured Ill. Orch. Fl. Taiwan* 2: 417. 1990. **Type:** Taiwan: Miaoli, Yangmeishan [楊梅山], Oct. 25, 1972, *T.P. Lin* 129 (holotype TAI 118097). 紅心豆蘭

Bulbophyllum fenghuangshanianum S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 2: 113–114. 1990. **Type:** Taiwan: Nantou, Fenghuang, May 1987, S.S. Ying, s.n. (NTUF).

Bulbophyllum tengchongense Z.H. Tsi, *Bull. Bot. Res., Harbin* 9(2): 29. 1989; Pengyue et al., *Taiwania* 69(1): 127, f5. 2024. **Type:** China: Yunnan: Tengchong County, Mar. 16, 2007, X. H. Jin 8922 (PE).

Bulbophyllum sasakii (Hayata) J.J. Verm., Schuit. & de Vogel, *Phytotaxa* 166(2): 105. 2014; Lin, *Ill. Native Taiwan Orch.* 319, f.165. 2022. *Ione sasakii* Hayata, *Icon. Pl. Formosan.* 2: 139–140. 1912; Liu & Su, *Fl. Taiwan* 5: 1037, pl.1614. 1978. *Sunipia sasakii* (Hayata) P.F. Hunt, *Kew Bull.* 26: 184. 1971; Lin, *Native Orch. Taiwan* 1: 208, ph.131. 1975. **Type:** Taiwan: Chiayi, Alisan, Jan. 1912, B. Hayata et S. Sasaki s.n. (holotype TI, photo T00987 in PoT). 綠花寶石蘭

Sunipia andersonii (King & Pantl.) P.F. Hunt, *Kew Bull.* 26: 183. 1971; Seidenf., *Opera Bot.* 89: 172, f.113. 1986; Lin et al., *Taiwania* 61(2): 118. 2016; Lin, *Orch. Fl. Taiwan* 806, f.389. 2019. *Ione andersonii* King & Pantl., *Ann. Roy. Bot. Gard. (Calcutta)* 8: 159. pl.217. 1898.

Type: Bhutan: above Buxa, *Anderson s.n.*, not found.

Sunipia flavescens (Rolfe) P.F. Hunt, *Kew Bull.* 26: 184. 1971. *Sunipia andersonii* var. *flavescens* (Rolfe) T.P. Lin, *Native Orch. Taiwan* 2: 28A. 1977. *Ione andersonii* var. *flavescens* (Rolfe) Tang & F.T. Wang, *Acta Phytotax. Sin.* 1: 90. 1951. *Ione flavescens* Rolfe, *Bull. Misc. Inform. Kew* 1914: 373. 1914. **Type:** Burma: Mount Victoria, flowered in Royal Botanic Garden, Glasnevin, Sept. 1914, Mrs. Wheeler Cuffe.

Bulbophyllum bifurcatoflorens (Fukuy.) J.J. Verm., Schuit. & de Vogel, *Phytotaxa* 166: 104. 2014. *Sunipia bifurcatoflorens* (Fukuy.) P.F. Hunt, *Kew Bull.* 26: 183. 1971. *Ione bifurcatoflorens* Fukuy., *Bot. Mag. (Tokyo)* 49(583): 440. 1935. **Type:** Taiwan: Takao, Naihonroku-goe, in silvis prope Fujieda, 1300 m, [藤枝] Oct. 21, 1934, *Fukuyama 4560* (holotype KPM-NA0105550, photo T00060 in PoT; isotype KPM-NA0105551, photo T00061 in PoT).

Bulbophyllum setaceum T.P. Lin, *Native Orch. Taiwan* 1: 55–57 (f). 1975 & *Orch. Fl. Taiwan* 370, f.162-1. 2019. **Type:** Taiwan: Miaoli, Guanwu, Apr. 25, 1974, *T.P. Lin 99* (TAIF?). ●鶴冠蘭

Bulbophyllum taitungianum S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 2: 111–112. 1990. **Type:** Taiwan: Taitung, Lidou, May 24, 1989, S.S. Ying s.n. (NTUF).

Bulbophyllum setaceum var. **confragosum** (T.P. Lin & Y.N. Chang) Lin, *Orch. Fl. Taiwan* 373, f.162-2. 2019. *B. confragosum* T.P. Lin & Y.N. Chang, *Taiwania* 58(4): 257, f.1, 2A. 2013; Lin et al., *Taiwania* 61(2): 82. 2016. **Type:** Taiwan: Taichung: forest above the Tech Reservoir, 1900 m, Apr. 1, 2008, *W.M. Lin s.n.* (holotype TAI283130). ●斷尾捲瓣蘭

Bulbophyllum setaceum var. **pilusiense** T.C. Hsu, *Ill. Fl. Taiwan* 1: 318. 2016. **Type:** Nantou, Pilusi Workstation, 2200 m, June 23, 2013, *S.K. Yu 8* (holotype TAI F). ●畢祿溪豆蘭

Bulbophyllum taiwanense (Fukuy.) C.Nackej., *Biol. Mag. (Okinawa)* 10: 36. 1973 (Pub. Date: May 1974); *Cirrhopetalum taiwanense* Fukuy., *Bot. Mag. (Tokyo)* 49(587): 761. 1935; Su, *Fl. Taiwan* 5: 774. 2000. *B. taiwanense* (Fukuy.) Seidenf., *Dansk Bot. Ark.* 29(1): 89. 1973 (Aug. 1974); Liu & Su, *Fl. Taiwan* 5: 901. 1978; Lin, *Orch. Fl. Taiwan* 374, f.164. 2019. *B. taiwanense* (Fukuy.) S.S. Ying, *Bull. Exp. For. Natl. Taiwan Univ.* 114: 157. 1974. **Type:** Taiwan: praef. Takao [Kaohsiung]: prope Botan-sya, collected by K. Segawa, Feb. 1934 cult. and flowering Mar. 1935, *N. Fukuyama 4731* (isotype KPM-NA0105522, photo T00004 in PoT). ●台灣捲瓣蘭

Bulbophyllum tenuislinguae T.P. Lin & Shu H. Wu, *Taiwania* 57(4): 377–378, f.1A, 2. 2012. **Type:** Taiwan: Miaoli, Mt. Hakanni, 1600 m, Mar. 22, 2012, *L.Z. Chang s.n.* (holotype TAI281142). ●金枝雙花豆蘭

Bulbophyllum tokioi Fukuy., *Bot. Mag. (Tokyo)* 49(583): 439. 1935; Masam., *J. Geobot.* 20(4): 14, f.185. 1972; Lin, *Native Orch. Taiwan* 3: 51, ph.21–22. 1987 & *Orch. Fl. Taiwan* 378, f.166. 2019. **Type:** Taiwan: Taipei, Mt. Kaposan prope Tonroku, 800 m, Apr. 26, 1933, *T. Suzuki 4548*. ●小葉豆蘭

Bulbophyllum tokioi f. *albiviride* Fukuy., *Bot. Mag. (Tokyo)* 52(617): 246. 1938. **Type:** Taiwan: Hsinchu, Inoue [清泉(五峰)] 600 m, collected by K. Segawa on Jan. 1, 1936, flowering in Apr. 1936. *N. Fukuyama 6102*.

Bulbophyllum derchianum S.S. Ying, *J. Jpn. Bot.* 64(5): 148. 1989. **Type:** Taiwan: Taichung, Derchi [德基] to Chingshan, 1500 m, May 4, 1988, S.S. Ying s.n. (holotype NTUF, photo F00000331 in PoT).

Bulbophyllum umbellatum Lindl., *Gen. Sp. Orch. Pl.* 56. 1830; Seidenf., *Dansk Bot. Ark.* 29(1):178, f.90. 1973; Lin, *Native Orch. Taiwan* 1: 66, ph.28, 29. 1975 & *Orch. Fl. Taiwan* 383, f.168. 2019. *Cirrhopetalum umbellatum* (Lindl.) Linden, *Ill. Hort.* 28: 80. 1881, *nom. illeg.* **Type:** Nepal: sine loc., *Wallich 151* (Wallich, *Numer. List.* 1984). 繖形捲瓣蘭



Bulbophyllum saruwatarii Hayata, Icon. Pl. Formosan. 6: 72–73. 1916; Masam., J. Geobot. 26(2): 9, f.250. 1978. **Type:** Taiwan: Nantou, Keitao, 4000 ped. Apr. [8], 1916, *B. Hayata s.n.* (holotype TI, photo T00884 in PoT; isotypes TAI6611 & 6612).

Calanthe alismatifolia Lindl., Fol. Orch. 6–7 (Calanthe): 8. 1855 [“alismaefolia”]; Garay & Sweet, Orch. S. Ryukyu Isl. 122. 1974; Liu & Su, Fl. Taiwan 5: 905. 1978; Lin, Orch. Fl. Taiwan 387, f.170. 2019. **Types:** India: Sikkim, 2000 ft, *J.D. Hooker s.n.* (synType BM000514443); Khasia, 4000 ft, *J. D. Hooker s.n.* (GH00106106). 細點根節蘭

Calanthe nigropuncticulata Fukuy., Bot. Mag. (Tokyo) 48(571): 437. 1934; Masam., J. Geobot. 28(1): 6, f.159. 1970. **Type:** Taiwan: Miaoli, Higashi-sensui-zan [東洗水山], July 1932, *N. Fukuyama 4133* (KPM-NA0105515 without Fukuyama’s no., photo T00020 in PoT); Kappanzan and Urai, July 15, 1931, *N. Fukuyama 4136* (paratype).

Calanthe alpina Hook. f. ex Lindl., Fol. Orch. 6–7(Calanthe): 4. 1855; Su, Fl. Taiwan 2nd ed. 5: 780. 2000. **Type:** India: Sikkim, Lachen, in Pine woods, 10,000 ft, 1859, *J.D. Hooker & Thomson s.n.* (holotype Herb. Lindl., Herbarium Lindley IDC microfiche 7395. 213/19; isotypes GH00106107, P00378785). 羽唇根節蘭

Calanthe fimbriata Franch., Nouv. Arch. Mus. Hist. Nat., ser. 2, 10: 86. 1888; King et Pantl., Ann. Bot. Gard. Calanthe 8: 170, pl.229. 1898; Su, Q. J. Exp. For. Natl. Taiwan Univ. 4(2): 152. 1990. *C. alpina* var. *fimbriata* (Franch.) F. Maek., Wild Orch. Japan Colour: 474. 1971. **Type:** China: Sichuan, Moupin [Baoxing 寶興], 1870, *A. David s.n.* (possible Type, original description indicated an 1869 flowering individual). *Calanthe fimbriatmarginata* Fukuy., Bot. Mag. (Tokyo) 48(569): 301. 1934. **Type:** Taiwan: Taipei, in silvis monte Mururoahu, inter Kyanraha et Saukan, prope Taihei-zan, 6000 ped. July 3, 1933, *N. Fukuyama 3978*. not found.

Calanthe angustifolia (Blume) Lindl., Gen. Sp. Orch. pl.251. 1833; Su, Q. J. Exp. For. Natl. Taiwan Univ. 4(3): 85, pl.1. 1990; Lin, Ill. Native Taiwan. Orch. 331, f-174, 2022. *Amblyglottis angustifolia* Blume, Bijdr. Fl. New. Ind. 369. 1825. *Styloglossum angustifolium* (Blume) T. Yukawa & P.J. Cribb, Bull. Natl. Mus. Nat. Sci., Tokyo, B 40(4): 147. 2014; Lin et al., Taiwania 61(2): 118. 2016; Lin, Orch. Fl. Taiwan 795, f.384. 2019. **Type:** Java: Crescit, in umbrosis montium Provinciae Buitenzorg. *Blume s.n.*, not found. 矮根節蘭

Calanthe pumila Fukuy., Bot. Mag. (Tokyo) 49(583): 438. 1935; Masam., J. Geobot. 21(2): 6, f.191. 1973. *C. striata* var. *pumila* (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 430. 1977. *Styloglossum pumilum* (Fukuy.) T.C. Hsu, Ill. Fl. Taiwan 2: 194. 2016. **Type:** Taiwan: Taitung, Chipon-goe [知本越嶺], prope Matsuyama, 6000 ped. S. Sasaki Oct. 10, 1934, *N. Fukuyama 4553* (holotype KPM-NA 0105516, photo T00021 in PoT).

Calanthe arcuata Rolfe, Bull. Misc. Inform. Kew 1896: 196. 1896; Chen *et al.*, Fl. Reipubl. Popularis Sin. 18: 295. 1999; Lin, Orch. Fl. Taiwan 388, f.172. 2019. **Type:** China: Hubei, Hsingshan, Mar. 1889, *A. Henry 6514* (holotype K000810936). 尾唇根節蘭

Calanthe arcuata subsp. *caudatilabella* (Hayata) T.P. Lin, Taiwania 61(2): 85. 2016. *C. caudatilabella* Hayata, Icon. Pl. Formosan. 4: 66, pl.13. 1914; Masam., J. Geobot. 17(4): 29, pl.154. 1969; Lin, Native Orch. Taiwan 1: 78, ph.32–33. 1975. **Type:** Taiwan Nantou, Rinkihou [林杞埔, Chushan]; Gosarin, 7000 ped., Aug. 1912, *H. Inaba s.n.* (holotype TI, photo T00892 in PoT).

Calanthe arisanensis Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 327–328. 1911; Masam., J. Geobot. 21(2): 5, f.190. 1973; Lin, Native Orch. Taiwan 1: 76, ph.30–31, 18. 1975 & Orch. Fl. Taiwan 389, f.173. 2019. **Type:** Taiwan: Alishan, Mar. 22, 1908, *T. Kawakami & U. Mori 3609* (isotype TAI6546). ●阿里山根節蘭

Calanthe sasakii Hayata, Icon. Pl. Formosan. 4: 71, f.35. 1914. **Type:** Taiwan: Ako, Mt. Buyesan [武威山], Mar. 1910. *S. Sasaki s.n.* (holotype TI with lip figure on the label, photo T00903 in PoT; isotypes TI with photo T00902 in PoT, TAI6585).

Calanthe aristulifera Rchb. f., Bot. Zeitung (Berlin) 36: 74. 1878; Liu & Su, Fl. Taiwan 5: 906, f.1557. 1978; Lin, Orch. Fl. Taiwan 394, f.174. 2019. **Type:** Japan: Satsuma, May 2, 1875, *J.J. Rein 187* (holotype GOET013925). 潤葉根節蘭

Calanthe kirishimensis Yatabe, Bot. Mag. (Tokyo) 6(65): 253–254, pl.7. 1892. *C. aristulifera* var. *kirishimensis* (Yatabe) Honda, Nom. Pl. Jap., ed. emend. 374. 1957. **Type:** Japan: Hiuga, Mt. Kirishima, Aug. 3, 1882, *Yatabe s.n.*, cult. in Botanical Garden, University of Tokyo.

Calanthe elliptica Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 329. 1911; Masam., J. Geobot. 17(4): 31, pl.156. 1969; Lin, Native Orch. Taiwan 1: 80, ph.34–35. 1975. **Type:** Taiwan: Shintiku, Gakokei [鶉公髻山], Apr. 1908, *T. Kawakami et K. Watanabe s.n.* (holotype TI, photo T00895 in PoT).

Calanthe raishaensis Hayata, Icon. Pl. Formosan. 6: 77–78. 1916. *C. furcata* f. *raishaensis* (Hayata) M. Hiroe, Orch. Flowers 2: 88. 1971. **Type:** Taiwan: Raisha [來義], 1000 m, Mar. 1914, *U. Faurie 905* (holotype TI, photo T00904 in PoT; isotypes HAST111711, KYO with photos T01666 & T01667 in PoT).

Calanthe clavata Lindl., Gen. Sp. Orch. Pl. 251. 1833; Seidenf., Dan. Bot. Ark. 29(3–4): 22, t.7. 1975; Su, Q. J. Exp. For. Natl. Taiwan Univ. 4(3): 86, pl.2. 1990; Lin, Ill. Native Taiwan. Orch. 339, f-182, 2022. *Styloglossum clavatum* (Lindl.) T. Yukawa & P.J. Cribb, Bull. Natl. Mus. Nat. Sci., Tokyo, B 40(4): 148. 2014; Lin et al., Taiwania 61(2): 118. 2016; Lin, Orch. Fl. Taiwan 797, f.385-1. 2019. **Type:** India/Bangladesh border, Sylhet, collected by F. De Silva, Wallich Number. List7343 (holotype K 001127202). 棒距根節蘭

Styloglossum pseudodendiflorum T.C. Hsu, Ill. Fl. Taiwan 2: 193. 2016 [Oct 2016]. **Type:** Taiwan: Pingtung, Mt. Kutzulun, T.C. Hsu 7287 (TAIF474796).



Calanthe davidii Franch., *Nouv. Arch. Mus. Hist. Nat.*, sér. 2, 10: 85. 1888; Lang & Tsi, *Icon. Corm. Sin.* 5: 725, f.8279. 1976; Su, Q. J. *Exp. For. Natl. Taiwan Univ.* 4(3): 149, pl.5. 1990; Lin, *Orch. Fl. Taiwan* 394, f.175. 2019. **Type:** China: Sichuan, Moupin [Baoxing 寶興]. 1870, *A. David s.n.* (holotype P00378879, isotype P00378880). 長葉根節蘭

Calanthe matsudae Hayata, *Icon. Pl. Formosan.* 9: 112, f.38, 39. 1920; Lin, *Nat. Orch. Taiwan* 1: 90, ph42–43. 1977. *C. furcata* f. *matsudae* (Hayata) M. Hiroe, *Orch. Flowers* 2: 88. 1971. *C. davidii* var. *matsudae* (Hayata) T.C. Hsu, *Ill. Fl. Taiwan* 1: 325. 2016. **Type:** Taiwan: Taoyuan, Rarazan, July [27], 1918, *Y. Matsuda [Eizi Matuda T401]* (holotype TI, photo T00901 in PoT; isotypes TAI118704, TAI6591).

Calanthe densiflora Lindl., *Gen. Sp. Orch. Pl.* 250. 1833; Masam., *J. Geobot.* 19(4): 10, pl.173, 1971; Lin, *Nat. Orch. Taiwan* 2: 67, ph17–18. 1977; Liu & Su, *Fl. Taiwan* 5: 908. 1978. *Styloglossum densiflorum* (Lindl.) T. Yukawa & P.J. Cribb, *Bull. Natl. Mus. Nat. Sci.*, Tokyo, B 40(4): 148. 2014; Lin *et al.*, *Taiwania* 61(2): 118. 2016; Lin, *Orch. Fl. Taiwan* 797, f.386. 2019. **Type:** India: Sylhet, Pandua, 4000 ft, collected by F. De Silva, *Wallich 7344* (holotype K001127203). 竹葉根節蘭

Calanthe kazuoi Yamam., *Trans. Nat. Hist. Soc. Formosa* 20(106): 38–39. 1930. **Type:** Taiwan: Taoyuan, Rarasan. Oct. 1, 1929, *Kazuo Goto s.n.* (holotype TAI118703).

Calanthe dolichopoda Fukuy., *Bot. Mag. (Tokyo)* 49(581): 296. 1935; Lin, *Ill. Native Taiwan. Orch.* 340, f-183, 2022. *Cephalantheropsis dolichopoda* (Fukuy.) T.P. Lin, *Taiwania* 59: 363, f.2. 2014; Lin *et al.*, *Taiwania* 61(2): 86. 2016; Lin, *Orch. Fl. Taiwan* 412, f.184. 2019. **Type:** Taiwan: Taipei: prope Shinten, Daitoozan [大桶山], Nov. 10, 1933, *N. Fukuyama 4536* (KPM-NA0105513-photo T00018 in PoT). ●白肖頭蕊蘭

Phaius longipes (Hook. f.) Holtt. var. *calanthoides* auct. non (Ames): Lin, *Native Orch. Taiwan* 1: 232. 1975. *Cephalantheropsis calanthoides* auct. non (Ames): Liu & Su, *Fl. Taiwan* 5: 918. 1978.

Calanthe tungyuanshanensis S.S. Ying, *New Taxa New Names* 7: 515–521. 2024. **syn. nov.** **Type:** Taiwan: Taoyuan City, Fuhsin District, Tungyuanshan, 1355 m, Nov. 23, 2023, *S.S. Ying s.n.* (holotype TPRCH).

Calanthe ×dominyi Lindl., *Gard. Chron.* 1858: 4. 1858; Su, Q. J. *Exp. For. Natl. Taiwan Univ.* 4(2): 148. pl.3. 1990; *Taiwania* 61(2): 85. 2016. **Type:** Original description indicated this plant was obtained from Mr. J. Veitch, of the Exotic Nursery, Chelsea on Oct. 28, 1856. The flower carried the features of both *C. furcata* and *C. masuca*. 長距白鶴蘭

Calanthe ×kintaroi Yamam., *J. Soc. Trop. Agric.* 6(3): 550.1934. **Type:** Taiwan: Alishan, cult. & fl. June 1933. *Y. Yamamoto s.n.*, not found.

Calanthe albolongicalcarata S.S. Ying, *Bull. Exp. For. Natl. Taiwan Univ.* 114: 155. 1974. **Type:** Taiwan: Urai, 700–800 m, Sept. 16, 1973, *S.S. Ying 2106* (holotype NTUF, photo F00000320 in PoT).

Calanthe graciliflora Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 329–330. 1911; *Taiwania* 61(2): 85. 2016; Lin, *Native Orch. Taiwan* 1: 84, ph.37–38. 1975 & *Orch. Fl. Taiwan* 395, f.176. 2019. **Type:** Taiwan: Yilan, Nano [南澳], Kimmonsha, 3200 ped, Apr. 1909, *U. Mori 15* (holotype TI, photo T00897 in PoT). 纖花根節蘭

Calanthe ×hsinchuensis Y.I. Lee, *Bot. Stud.* 54: 25. 2013; *Taiwania* 61(2): 85. 2016. **Type:** Taiwan: Hsinchu, Jiashih Township, Niaozuishan, 1500 m, Mar. 25, 2008, *Y.I. Lee 200902* (holotype TNM). ●新竹根節蘭

Calanthe ×insularis S.H. Oh, H.J. Suh & C.W. Park, *Phytotaxa* 218(1): 69–76. 2015; Lin, *Orch. Fl. Taiwan* 396, f.177. 2019. **Type:** Korea: Jeollanam-do: Sinan-gun, Heuksan-myeon, Gageodo Isl., 386 m, May 18, 2013, *Suh 5580* (holotype KB; isotype BH, TUT). 黃曉距根節蘭

Calanthe ×kibanakirishima F. Maek. *Wild Orch. Jpn. Colour* 363. 1971 *nom. nud.*; Lin & Wang, *Wild Orch. Taiwan, Ill. Guide* 208 and (ph.) 2014. Flowers orange-yellow.

Calanthe kinabaluensis auct. non Rolfe: Lin *et al.*, *Taiwania* 61(2): 85. 2016.

Calanthe kooshunensis Fukuy., *Annu. Rep. Taihoku Bot. Gard.* 3: 85. 1933; Lin, *Ill. Native Taiwan. Orch.* 343, f-186, 2022. **Type:** Taiwan: Pingtung, prope Kooshun, Manritoku-zan [萬里得山], Jan. 1, 1932, *N. Fukuyama 4101* (holotype KPM-NA0105514, photo T00019 in PoT). 細葉肖頭蕊蘭

Cephalantheropsis halconensis (Ames) S.S. Ying, *Coloured Ill. Fl. Taiwan* 3: 622. 1988; Lin *et al.*, *Taiwania* 61(2): 86. 2016. *Phaius halconensis* Ames Philipp. *J. Sci.*, C 2: 323 1907. **Type:** Philippines: Mindora Isl., Mt. Halcon, 1950 m, Nov. 16, 1906, *E.D. Merrill 5513* (holotype AMES00102891; isotype NMNH 710763.2138713 & K000829037).

Phaius calanthoides Ames, *Orchidaceae* 2: 153. 1908. **Types:** Philippines: Luzon, Benguet, Baguio. Oct. 25, 1904, *R.S. Williams 1947* (syntypes NY9150, NY9151; isosyntype AMES00102888, line drawing on the label); Feb 1903, *D.L. Topping 20* (syntype).

Calanthe longipes Hook.f., *Fl. Br. India* 6: 195. 1890; Lin, *Ill. Native Taiwan. Orch.* 344, f-187, 2022. *Phaius longipes* (Hook. f.) Holttum, *Gard. Bull. Singapore* 11: 286. 1947. *Cephalantheropsis longipes* (Hook. f.) Ormerod., *Orch. Digest* 62: 156. 1998; Lin, *Taiwania* 59: 360, f.1A, 2A, 3. 2014; *Taiwania* 61(2): 86. 2016; Lin, *Orch. Fl. Taiwan* 414, f.186, 2019. **Type:** Indonesia, Sumatra, Aceh Province, above Takengon, 1290 m, Aug. 1934, *C.G.G.J. van Steenis 6041* (holotype BO; floral sketch L, copy K). 三伯肖頭蕊蘭



Phaius mindorensis Ames, Philipp. J. Sci. C 2: 324. 1907. **Type:** Philippines: Mindoro Isl., Mt. Halcon 4300 ft. Nov. 13, 1906, *E. D. Merrill* 5612 (holotype AMES00056715).

Calanthe lyroglossa Rchb. f., Otia Bot. Hamburg. 1: 53. 1878. Seidenf., Dansk Bot. Ark. 29(1): 22, f.8. 1973; Lin, Native Orch. Taiwan 1: 88, ph.41. 1975; Lin, Ill. Native Taiwan. Orch. 345, f-188-1, 2022. *Styloglossum lyroglossum* (Rchb.f.) T. Yukawa & P.J. Cribb, Bull. Natl. Mus. Nat. Sci., Tokyo, B 40(4): 147. 2014; Lin *et al.*, Taiwania 61(2): 118. 2016; Lin, Orch. Fl. Taiwan 803, f.388-1. 2019. **Type:** Philippines, Luzon, Mt. Mahahai, 1838, Wilkes' expedition, without collector and number (holotype specimen image not found in IDC microfiche 8802 Reichenbach Herbarium; isotypes GH00106341; AMES00106343, possible drawing of isotype). 黃芭(連翹)根節蘭

Calanthe lyroglossa var. *forsythiiflora* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 88. 1977. *C. forsythiiflora* Hayata, Icon. Pl. Formosan. 4: 67, pl.14. 1914; Masam., J. Geobot. 17(1): 5, pl.145. 1969. **Type:** Taiwan: Koshun, June 1909, *T. Kawakami et T. Ito s.n.* (TAIF6570).

Calanthe lyroglossa* var. *actinomorpha (Fukuy.) P.J. Cribb & D.A. Clayton, The Genus *Calanthe*: 85. 2013; Lin, Ill. Native Taiwan. Orch. 345, f-188-2, 2022. *Calanthe actinomorpha* Fukuy., Bot. Mag. (Tokyo) 49(586): 668. 1935. *Phaius actinomorphus* (Fukuy.) T.P. Lin, Native Orch. Taiwan 1: 224. 1975. *Styloglossum lyroglossum* var. *actinomorphum* (Fukuy.) T. Yukawa & P.J. Cribb, Bull. Natl. Mus. Nat. Sci., Tokyo, B 40(4): 149. 2014; Lin, Orch. Fl. Taiwan 803, f.388-2. 2019. *S. formosanum* var. *actinomorphum* (Fukuy.) T.P. Lin, Lin *et al.*, Taiwania 61(2): 118. 2016. *S. actinomorphum* (Fukuy.) T.C. Hsu, Ill. Fl. Taiwan 2: 191. 2016 [Oct 2016]. **Type:** Taiwan: Taipei, Syoagyokusan. Jan. 17, 1935, *N. Fukuyama 4690* (holotype KPM-NA0105508 without Fukuyama's no., photo T00017 in PoT). ● 輻射根節蘭

Calanthe masuca (D. Don) Lindl., Gen. Sp. Orch. 249. 1833; Liu & Su, Fl. Taiwan 5: 912. 1978; Lin *et al.*, Taiwania 61(2): 85. 2016; Lin, Orch. Fl. Taiwan 401, f.178. 2019. *Bletia masuca* D. Don, Prodr. Fl. Nepal. 30. 1825. *Calanthe furcata* f. *masuca* (D. Don) M. Hiroe, Orch. Flowers 2: 87. 1971. **Type:** Nepal: Narainhetty, Feb. 21, 1803, *F. Buchanan-Hamilton s.n.* (holotype BM000514496). 長距根節蘭

Calanthe sylvatica auct. non (Thouars) Lindl.: J.B. Comber, Orch. Java 96. 1990; Seidenf. & Wood, Orch. Penin. Malaya Singapore 167. 1992; Su, Fl. Taiwan 5: 789. 2000.

Calanthe textorii Miq., Ann. Mus. Bot. Lugduno-Batavi 2: 204. 1866; Lin, Native Orch. Taiwan 1: 96, ph.47, 48. 1975. *C. furcata* f. *textorii* (Miq.) M. Hiroe, Orch. Flowers 2: 88. 1971. **Type:** Japan: *Textor s.n.* (holotype L0062120).

Calanthe longicalcarata Hayata ex Yamam., Trans. Nat. Hist. Soc. Formosa 20: 39. 1930; Masam., J. Geobot. 25(2): 7, f.240. 1977. *C. textorii* var. *longicalcarata* (Hayata ex Yamam.) Garay & H.R. Sweet, Orch. S. Ryukyu Is.: 121. 1974. **Type:** Taiwan: Taichung, Hosha. Mar. 27, 1908, *T. Kawakami et U. Mori s.n.* (holotype TAIF22311; isotype TL, photo T00898 in PoT, illustration on both *Types* shows a lip).

Calanthe seikooensis Yamam., J. Soc. Trop. Agric. 3(3): 237, f.1. 1931. **Type:** Taitung: Seikoozan [成廣澳山], 3700 ped. Aug. 1931, *Y. Yamamoto s.n.* (holotype TAI 118705, line drawing on label).

Calanthe mishmensis (Lindl. & Paxton) M.W. Chase, Christenh. & Schuit., Phytotaxa 472: 163. 2020. *Limatodes mishmensis* Lindl. & Paxt., Fl. Gard. 3: 36. 1852. *Phaius mishmensis* (Lindl. & Paxt.) Rchb. f., Bonplandia 5: 43. 1857; Garay & Sweet, Orch. S. Ryukyu Isl. 127. 1974; Lin, Native Orch. Taiwan 1: 228, ph.142. 1975; Lin *et al.*, Taiwania 61(2): 113. 2016. **Type:** NE. India: Mishmee Hills. *Griffith s.n.* (holotype K000974169). 細距鶴項蘭

Phaius gracilis Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 322–323. 1911; Masam., J. Geobot. 16(2): 13, pl.136. 1968. **Type:** Taiwan: Koshun, Botansha [恆春牡丹社], Dec. 1906, *T. Kawakami & G. Nakahara 788* (isotype TAIF6913).

Calanthe obcordata (Lindl.) M.W. Chase, Christenh. & Schuit., Phytotaxa 472: 164. 2020. *Bletia obcordata* Lindl. in Gen. Sp. Orch. Pl.: 123. 1831. *Cephalantheropsis obcordata* (Lindl.) Ormerod, Orch. Digest 62: 157. 1998; Lin *et al.*, Taiwania 61(2): 87. 2016; Lin, Orch. Fl. Taiwan 415, f.187. 2019. **Type:** India/Bangladesh border: Sylhet, *Wallich s.n.*, no specimen image found in Herbarium Lindley IDC microfiche no. 7395. 綠花肖頭蕊蘭

Calanthe gracilis Lindl., Gen. Sp. Orch. Pl. 251. 1833. *Cephalantheropsis gracilis* (Lindl.) S.Y. Hu, Q. J. Taiwan Mus. 25: 213. 1972. *Phaius gracilis* (Lindl.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 278. 1977, *nom. illeg.* **Type:** India: Sylhet, (Khasia hill), collected by *F. De Silva s.n.*, Wallich Numer. List. 7341 (syntype K001127199, K001127200).

Phaius longipes auct. non (Hook. f.) Holttum: Lin, Native Orch. Taiwan 1: 230, ph.143, 144. 1975.

Calanthe puberula Lindl., Gen. Sp. Orch. 252. 1833; Su, Q. J. Exp. For. Natl. Taiwan Univ. 4(3): 151, pl.9. 1990; Lin, Orch. Fl. Taiwan 401, f.179. 2019. *C. reflexa* var. *puberula* (Lindl.) Kudo, J. Soc. Trop. Agric. 2: 236. 1930. *Paracalanthe reflexa* var. *puberula* (Lindl.) Kudô, J. Soc. Trop. Agric. 2: 235. 1930. **Type:** NE. India: Sylhet, collected by *F. De Silva, Wallich Cat. no. 7342* (holotype K001127201). 反捲根節蘭

Calanthe reflexa Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg, sér. 3, 18: 68. 1872; Hayata, Icon. Pl. Formosan. 4: 71, f.34. 1914; Lin, Native Orch. Taiwan 1: 92, ph.44–45. 1975. *C. puberula* var. *reflexa* (Maxim.) M. Hiroe, Orch. Flowers 2: 86. 1971. **Type:** Japan: Kiusiu: Nagasaki, Wunzen, 1863, *C.J. Maximowicz s.n.* (lectotype LE; syntype GH00106359, LE, P00392472).



Calanthe puberula var. *formosana* (Murata) M. Hiroe, Orch. Flowers 2: 86. 1971. *C. reflexa* var. *formosana* Murata, Acta Phytotax. Geobot. 19: 71. 1962. **Type:** Taiwan: Mt. Nankotaizan, Ekijukei to Kiritto, July 17, 1933, *J. Ohwi 3900* (KYO).

Calanthe speciosa (Blume) Lindl., Gen. Sp. Orch. Pl. 250. 1833; Su, Q. J. Expt. Forest. Natl. Taiwan Univ. 4(3): 87, pl.3. 1990 & Fl. Taiwan 2nd ed. 5: 789. 2000. *Amblyglottis speciosa* Blume, Bijdr. Fl. Ned. Ind.: 371. 1825. *Styloglossum speciosum* (Blume) T. Yukawa & P.J. Cribb, Bull. Natl. Mus. Nat. Sci., Tokyo, B. 40: 150. 2014. **Type:** Indonesia: Java, Batam and Buitenzorg, *Blume s.n.* lectotype P00353007, isolectotype P00353008 designed by Aver. *et al.* (2023). 台灣根節蘭

Calanthe formosana Rolfe, Ann. Bot. (Oxford) 9(33): 157. 1895; Lin, Native Orch. Taiwan 1: 82, ph.36. 1975. *Styloglossum formosanum* (Rolfe) T.P. Lin, Lin *et al.*, Taiwania 61(2): 118. 2016; Lin, Orch. Fl. Taiwan 798, f.387. 2019. *C. pulchra* var. *formosana* (Rolfe) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 430. 1977. **Type:** Taiwan: South Cape, *Henry 1347* (holotype K000810932; isotype MO, NY8614). *Calanthe yushuni* K. Mori & Yamam., J. Soc. Trop. Agric. 4(2): 188. 1932. **Type:** Taiwan: Taitung, Shussuiha [出水坡 (達仁)], Dec. 27[29], 1930, *Y. Kudo et K. Mori s.n.* (holotype TAI18706).

Calanthe striata R. Br. ex Spreng., Syst. Veg. ed. 16. 3: 743. 1826; Lin, Orch. Fl. Taiwan 402, f.180. 2019. *Limodorum striatum* Sw., Nova Acta Regiae Soc. Sci. Upsal., ser. 2, 6: 79. 1799, *non* Thumb 1784. **Type:** Banks, Icon. Kaempf. t.2. 1791 (Cribb & Bailes, Curtis's Bot. Mag. 18(2): 107, pl.418. 2001[2004]). 黃根節蘭

Calanthe sieboldii Decne., Rev. Hort. (Paris), sér. 4, 4: 381. 1855. *C. striata* var. *sieboldii* (Decne.) Maxim., Mélanges Biol. Bull. Phys.-Math. Acad. Imp. Sci. Saint-Petersbourg 8: 644. 1873; Lin, Native Orch. Taiwan 1: 94, ph.46. 1975. *C. striata* f. *sieboldii* (Decne.) Ohwi, Bull. Natl. Sci. Mus. Tokyo 33: 70. 1953. **Type:** Japan: Jan. 1, 1863, *C.J. Maximowicz s.n.* (isotype GH00106364).

Calanthe kawakamii Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 330–331. 1911. **Type:** Taiwan: Shintiku, Gakokeizan [鶺鴒山], Apr. 1907, *T. Kawakami et K. Watanabe s.n.* (holotype TI, photo T00896 in PoT).

Calanthe takeoi Hayata, Icon. Pl. Formosan. 9: 111. 1920. *Paraphaius takeoi* (Hayata) J.W. Zhai, Z.J. Liu et F.W. Xing, Mol. Phylogenet. Evol. 77: 221. 2014; Lin *et al.*, Taiwania 61(2): 112. 2016; Lin, Orch. Fl. Taiwan 756, f.364. 2019. *Phaius takeoi* (Hayata) H.J. Su, Q. J. Exp. For. 3(4): 77. 1989. **Type:** Taiwan: Taipei, Urai. Oct. [24], 1917, *I. Takeo s.n.* (holotype TI, photo T00905 in PoT). 粗莖鶴頂蘭

Phaius longicuris Z.H. Tsi, Acta Phytotax. Sin. 19: 505. 1981. **Type:** China: Yunnan: Jinghong, C.W. Wang 79184 (holotype PE).

Calanthe tankervilleae (Banks) M.W. Chase, Christenh. & Schuit., Phytotaxa 472: 165. 2020. *Limodorum tankervilleae* Banks, Limodorum Tankervilleae [plate] 1788; Masam., List Vasc. Pl. Taiwan 164. 1954. *Bletia tankervilleae* (Banks) R.Br., Bot. Mag. 44: t. 1924. 1817. *Phaius tankervilleae* (Banks) Blume, Mus. Bot. 2: 177. 1856; Lin *et al.*, Taiwania 61(2): 114. 2016; Lin, Orch. Fl. Taiwan 762, f.366. 2019. *Phaius tancarvilleae* (L'Her.) Blume, Mus. Bot. Lugduno-Batavum 2(12): 1856. *Limodorum tancarvilleae* L'Her., Sert. Angl. 1: 28. 1789 [Jan. 1789], orth. var. **Type:** J. Sowerby, 'Limodorum Tankervilleae', engraving by MacKenzie from Sowerby's original drawing dated 1787 and now at BM, later published in W. Aiton, Hort. Kewensis 3: t. 12 [Aug.–Oct. 1789] (lectotype BM, designated by Mabberley in Kew Bull. 66(3): 476. 2011). 鶴頂蘭

Phaius tankervilleae f. *albo-florens* S.S. Ying, Coloured Ill. Fl. Taiwan 4: 798, ph.986. 1992. **Type:** Taiwan: Hualien, Yuli 300 m [玉里], June 1992, *S.S. Ying s.n.*

Calanthe tricarinata Lindl., Gen. Sp. Orch. Pl. 252. 1833; Lin, Native Orch. Taiwan 1: 98, ph.49, 50. 1975 & Orch. Fl. Taiwan 402, f.181. 2019; Cribb & Bailes, Curtis's Bot. Mag. 95, pl.416. 2001. *Paracalanthe tricarinata* (Lindl.) Kudô, J. Soc. Trop. Agric. 2: 236. 1930. **Type:** Nepal: Mt. Vallis, July 1821, *Wallichi 7339* (holotype K001127196). 綉邊根節蘭

Calanthe lamellate Hayata, Icon. Pl. Formosan. 4: 70, f.33. 1914; Masam., J. Geobot. 17(4): 30, pl.155. 1969. *Paracalanthe lamellata* (Hayata) Kudô, J. Soc. Trop. Agric. 2: 237. 1930. **Type:** Taiwan: Taitung, Mt. Rontabun, Apr. 17, 1910, *U. Mori s.n.* (holotype TI, photo T00899 in PoT).

Calanthe triplicata (Willemet) Ames, Philipp. J. Sci., C 2: 326. 1907; Liu & Su, Fl. Taiwan 5: 915. 1978; Lin, Orch. Fl. Taiwan 403, f.182. 2019. *Orchis triplicata* Willemet, Ann. Bot. (Usteri) 18: 52. 1796. *Limodorum veratrifolium* Willd., Sp. Pl., ed. 4. 4: 122. 1805, *nom. superfl.* *Calanthe veratrifolia* R. Br. ex Ker Gawl., Bot. Reg. 9: pl.720. 1823, *nom. illeg. superfl.*; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 92. 1896. **Type:** Indonesia: Maluku, Amboina, icon. in Rumphius, Herb. Amboin. 6: 115, f.2, t.52. 1750 (lectotype designated by Clements in Austral. Orch. Res. 1: 32. 1989). 白鶴蘭

Calanthe furcata Bateman ex Lindl., Bot. Reg. 24. 1838; Sasaki, List Pl. Formosa 122. 1928; Masam., J. Geobot. 19(4): 9, pl.172. 1971. **Type:** Philippines: *Cuming s.n.*, in Herb. J. Lindley.

Calanthe matsumurana Schltr. Repert. Spec. Nov. Regni Veg. 2: 168. 1906; Masam., J. Geobot. 26(1): 1, f.247. 1978. **Type:** Japan: Ryukyu, Yakunosima, *Matsumura s.n.* (holotype B, lost).

Calanthe rubicallosa Masam., J. Geobot. 23(2): t.7. 1975. *nom. nud.*

Calanthe triplicata f. *purpureoflora* S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 2: 127. 1990. 200–900 m, No *Type*.



Calanthe woodfordii (Hook.) M.W. Chase, Christenh. & Schuit., *Phytotaxa* 472(6): 166. 2020; Lin, *Ill. Native Taiwan. Orch.* 2nd ed. 343, f.188. 2023. *Bletia woodfordii* Hook., *Bot. Mag.* 54: t.2719. 1827. *Phaius woodfordii* (Hook.) Merr., *J. Arnold Arbor.* 29: 211. 1948. **Type:** Trinidad, 1820, collected by R. Woodford, not found. The plate of the original publication was made from a drawing in the possession of W.T. Aiton. 黃花鶴頂蘭

Phaius flavus (Blume) Lindl., *Gen. Sp. Orch. Pl.* 128. 1831; Garay & Sweet, *Orch. S. Ryukyu Isl.* 126. 1974; Lin, *Native Orch. Taiwan* 1: 226, ph.140, 141. 1975. *Limodorum flavum* Blume, *Bijdr. Fl. Ned. Ind.* 375. 1825. *Bletia flava* Wall. ex Lindl., *Gen. Sp. Orch. Pl.* 127. 1831. *Praphaius flavus* (Blume) J.W. Zhai, Z.J. Liu & F.W. Xing, *Mol. Phylogenet. Evol.* 77: 221. 2014; Lin, *Orch. Fl. Taiwan* 755, f.363. 2019. **Type:** Java: Jawa Barat, Mount Gede, Java Gedeh, *Blume s.n.* (syntypes L0061867, L0061868).

Phaius undulatomarginata Hayata, *Icon. Pl. Formosan.* 4: 59, f.27. 1914; Masam., *J. Geobot.* 15(1–3): 13, f.129. 1966. **Type:** Taiwan: Koshun, Botansha, Dec. 1906, *G. Nakahara 788* (syntypes TI, photo T01173, T01174, T01175 in PoT; isosyntype TAI6913).

Phaius somai Hayata, *Icon. Pl. Formosan.* 6: 74–75. 1916. **Type:** Taiwan: Urai, May [6], 1916, *B. Hayata et T. Soma s.n.* (syntypes TI, photo T01171 & T01172 in PoT).

Cephalanthera erecta (Thunb.) Blume, *Coll. Orchid.*: 188. 1859; Iwatsuki *et al.*, in *Fl. Japan IVb*: 255. 2016; Chung & Hsu, *Ill. Fl. Taiwan* 2: 19. 2016; Yu, *Orchids Taiwan: A Field Guide* 150, ph, 2024. *Serapias erecta* Thunb., *Syst. Veg.*, ed. 14 (J. A. Murray). 816. 1784; *Icones Plantarum Japonicarum Fasc.* 1: 4. 1794. *Epipactis erecta* (Thunb.) Sw., *Neues J. Bot.* 1(1): 65. 1805. *Cymbidium erectum* (Thunb.) Sw. *J. Bot. (Schrader)* 1799(2): 226. 1800. **Type:** Japan: Kutji rawa itzigo, *Thunberg 21322* (holotype UPS V-134017). Specimen: Taiwan: Yilan: Datong Township, Nanshan Village, May 24, 2016. *T.C. Hsu 8489* (TAIF497075). 銀蘭

Cephalanthera longifolia (L.) Fritsch, *Oesterr. Bot. Z.* 38: 81. 1888; Yukawa, *Bull. Natl. Mus. Nat. Sci., Tokyo*, B 42(3): 104. 2016; Lin, *Orch. Fl. Taiwan* 409, f.183, pl.19. 2019. *Serapias helleborine* var. *longifolia* L., *Sp. Pl.* 950. 1753. *S. longifolia* (L.) Huds., *Fl. Angl.*: 341. 1762. **Neotype:** *Herb. Linn. No. 1057.4 (LINN)*, designated by Renz in Nasir & Ali (ed.), *Fl. Pakistan* 164: 12.1984. 高山頭蕊蘭/高山金蘭

Cephalanthera elegans Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 58. 1919. **Type:** Japan, Hokkaido, Hakodate, *Miyabe s.n.* (holotype B, destr. by fire in 1943).

Cephalanthera alpicola Fukuy., *Bot. Mag. (Tokyo)* 52(617): 242. 1938; Masam., *J. Geobot.* 14(1): pl.109. 1965; Liu & Su, *Fl. Taiwan* 5: 916. 1978; Lin *et al.*, *Taiwania* 61(2): 86. 2016; Lin, *Orch. Fl. Taiwan* p.409. 2019. **Type:** Taiwan: Karenko, Gokwan-zan [合歡山], collected by K. Segawa, June 16, 1935, *N. Fukuyama 5915* (holotype KPM-NA0105517 without Fukuyama's no., photo T00005 in PoT); Taityu, Tataka et Niitaka-sita, *N. Fukuyama 5998* (paratype KPM without Fukuyama's no., photo G00241 in PoT); Taihoku, Mt. Nanko-taizan, June 1, 1935, *J. Ohwi 2584* (paratype).

Cephalanthera taiwaniana S.S. Ying, *Mem. Coll. Agric. Natl. Taiwan Univ.* 28(2): 37, pl.3, ph.7, 8. 1988; Lin *et al.*, *Taiwania* 61(2): 86. 2016. **Type:** Taiwan: Tayulin [大禹嶺], Hohuanchi, 2350 m, May. 12, 1988, *S.S. Ying s.n.* (holotype NTUF, photo F00000344 in PoT).

Cheirostylis chinensis Rolfe, *Ann. Bot. (Oxford)* 9(33): 158. 1895; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 92. 1896; Masam., *J. Geobot.* 26(1): 2, f.248. 1978; Lin, *Orch. Fl. Taiwan* 93, f.30. 2019. **Types:** S. Taiwan, Jan. 26, 1887, *A. Hance 390* (lectotype K000942815 designated by Lin *et al.*, *Taiwania* 61(2): 87. 2016); Taiwan: Takow, Summit of Ape's Hill, *A. Henry 320* (syntype K000942816, NY8644). 台灣指柱蘭

Cheirostylis philippinensis Ames, *Orchidaceae (Ames)* 2: 59, f.1908. **Type:** Philippines: Luzon, Prov. Benguet, Baguio, Mar. 22, 1904, *A.D.E. Elmer 6035* (synType AMES00106690).

Cheirostylis taiwanensis Yamam., *J. Soc. Trop. Agric.* 5(1): 54. 1933. **Type:** Taiwan: Pintung, Kusukusu [高士佛], Jan. 1, 1929, *Y. Kudo & S. Suzuki 16016* (holotype TAI118708).

Cheirostylis chinensis* var. *takeoi (Hayata) T.P. Lin, *Taiwania* 66(2): 353–359, f.3A, B. 2021. *Arisanorchis takeoi* Hayata, *Icon. Pl. Formosan.* 4: 110, pl.57. 1914; Masam., *J. Geobot.* 16(4): 31, pl.144. 1968. *Cheirostylis takeoi* (Hayata) Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 171. 1919; Lin, *Nat. Orch. Taiwan* 2: 80, ph25. 1977; Lin *et al.*, *Taiwania* 61(2): 87, 2016. **Type:** Taiwan: Chiayi: Alishan, inter Karapin et Suisharyo, 3300 ped., Mar. 28, 1914, *Takeo Ito s.n.* (TI, photo T00906 in <https://tai2.ntu.edu.tw/> with Hayata's handwriting. This was collected by U. Mori and the date on the label is Mar. 27, 1914). 全唇指柱蘭

Cheirostylis tatewakii Masam., *J. Soc. Trop. Agric.* 4(2): 195. 1933. **Type:** Taiwan: Taroko, Mar. 14, 1932, *Tatewaki et Kitamura s.n.*

Arisanorchis tairae Fukuy., *Acta Phytotax. Geobot.* 14: 136. 1952. *C. tairae* (Fukuy.) Masam., *Sci. Rep. Kanazawa Univ., Biol.* 9(1): 129. 1964. **Type:** Ryukyus: Ins. Okinawahonto, Taniu-take, *Y. Taira 3465* (holotype TAI).

Cheirostylis liukuensis Masam., *J. Soc. Trop. Agric.* 2(1): 36. 1930; Lin, *Native Orch. Taiwan* 2: 78 (f.). 1977. **Type:** Japan: Ryukyu: Insula Uchina [Kunigami], *S. Sonohara s.n.* (holotype TAI118707). Taiwan: Taichung: Erkengshan [二崙山] (TAI267960); Nantou: Shenmutsun (TAI282766). 墨綠指柱蘭

Cheirostylis kanashiroi Ohwi, *Acta Phytotax. Geobot.* 7: 134. 1938. **Type:** Japan: Ryukyu: Okiuna, ins. Okinawa, *T. Kanashmo 243* (KYO).

Cheirostylis okabeana Tuyama, *J. Jpn. Bot.* 26: 296–297, pl.11. 1951. **Type:** Japan: Kiushiu: Prov. Oosumi, Ins. Tanega-shima, Apr. 16. 1951, *M. Okabe s.n.* (TNS87941).



- Cheirostylis liukuensis** var. **derchiensis** (S.S. Ying) T.P. Lin, *Taiwania* 61(2): 87. 2016 & *Orch. Fl. Taiwan* 99, f.32-2. 2019. *C. derchiensis* S.S. Ying, *Mem. Coll. Agric. Natl. Taiwan Univ.* 31(1): 20, ph.1, 2. 1991. **Type:** Taiwan: Taichung: Derchi Dam, 1400 m, Apr. 4, 1991, S.S. Ying s.n. (holotype NTUF, photo F00008281 in PoT). 德基指柱蘭
Cheirostylis acuminata Z.L. Liu & Q. Liu, *Phytotaxa* 247(2): 138–142, f.1, 2. 2016. **syn. nov.** **Type:** China: Yunnan: Mengla Co., Mengyuan Town, Paozhuqing Village, limestone forest, 800 m, Jan. 7, 2015, Liu 12 (holotype HITBC).
- Cheirostylis liukuensis** var. **nantouensis** (T.P. Lin) T.P. Lin, *Taiwania* 65(4): 463–472. 2020. *C. nantouensis* T.P. Lin, *Taiwania* 62(2): 205–208, f.1C, D, 3. 2017 & *Orch. Fl. Taiwan* 102, f.33. 2019. **Type:** Taiwan: Nantou, Feb. 3, 2017, 1300 m, P.N. Shen s.n. (holotype TAI286823). ●南投指柱蘭
- Cheirostylis monteiroi** S.Y. Hu & Barretto, *Chung Chi J.* 13(2): 15, f.7. 1976; Lin *et al.*, *Taiwania* 61(2): 86. 2016. **Types:** Hong Kong: Mt. Violet, Mar. 6, 1973, collect by R. Clibborndyer, S.Y. Hu 13056 (holotype K000942813; isotypes A 00106687, CUHK, HK, PE00271162); May 17, 1972, R. Clibborn-Dyer s.n. (paratype AMES00556371); Mount Parker, U. A on Herb. HK 7133 (paratype HK). 雉尾指柱蘭
Cheirostylis cochinchinensis auct. non Blume: Leou, Q. J. Exp. For. Natl. Taiwan Univ. 3(4): 119, f.1–3. 1989; Lin, *Orch. Fl. Taiwan* 94, f.31-1. 2019.
Cheirostylis taichungensis S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 2: 135–136. 1990. **Type:** Taiwan: Taichung, Tashiehshan, May 25, 1987, S.S. Ying s.n. (NTUF).
- Cheirostylis monteiroi** var. **clibborndyeri** (S.Y. Hu & Barretto) T.P. Lin, **com. nov.** *C. clibborndyeri* S.Y. Hu & Barretto, *Chung Chi J.* 13(2): 15. 1976; Ormerod, *Taiwania* 47(4): 240. 2002. *C. chinensis* var. *clibborndyeri* (S.Y. Hu & Barretto) T.P. Lin, *Taiwania* 61(2): 87. 2016. **Type:** Hong Kong: Victoria Peak, Mar. 6, 1973, S.Y. Hu 13055 (holotype K000942814; isotypes A00106686, CUHK, PE00271157, HK). 斑葉指柱蘭
Cheirostylis hungyehensis T.P. Lin, *Native Orch. Taiwan* 2: 73. 1977. **Type:** Taiwan: Taitung, Hungyeh Village. Y.P. Young & S.Y. Lu 5089 (TAIF), not found.
Cheirostylis cochinchinensis var. *clibborndyeri* (S.Y. Hu & Barretto) Lin, *Orch. Fl. Taiwan* 97, f.31-2. 2019. **syn. nov.**
- Cheirostylis octodactyla** Ames, *Philipp. J. Sci.*, C, 2: 314. 1907; Ormerod, *Taiwania* 47(4): 241. 2002; Lin, *Orch. Fl. Taiwan* 102, f.34-1. 2019. **Type:** Philippines: Mt. Halcon, Mindanao, 8200 ft, Nov. 22, 1906, E.D. Merrill 5834 (holotype AMES00106688; isotype K000942807). 羽唇指柱蘭
Cheirostylis inabai Hayata, *Icon. Pl. Formosan.* 4: 108, f.56. 1914; Lin, *Natl. Orch. Taiwan* 2: 76, ph.21–22. 1977. **Type:** Taiwan: Rinkoho, 5000 ped. Aug. 19, 1911, H. Inaba s.n. (holotype TI, photo T00908 in PoT).
Cheirostylis oligantha Masam. & Fukuy., *Trans. Nat. Hist. Soc. Formosa* 30(200–201): 241. 1940. **Type:** Taiwan: Nantou, Musya [霧社山地農場], Aug. 1, 1939, G. Masamune et K. Mori [& T. Nakamura] 2220 (holotype KPM-NA0105520 without collection no., photo T0009 in PoT).
Cheirostylis wenshanensis J.B. Chen, L.J. Chen & W.H. Rao, *Phytotaxa* 404 (2): 74–78, f.1, 2. 2019. **Type:** China: Yunnan: Wenshan, 2000 m, Sept. 27, 2018, Z.J. Liu 11312 (holotype NOCC). **syn. nov.**
- Cheirostylis octodactyla** f. **cymbiformes** T.P. Lin, *Taiwania* 64(1): 43–51, f.2, 3E, F. 2019; *Cheirostylis* sp. in Chung and Hsu, *Ill. Fl. Taiwan* 2: 348. 2016. **Holotype:** Taiwan: Hsinchu, Jianshi Township, 1500 m, Sept. 2, 2018, D.M. Huang s.n. (TAI287433). ●舟形指柱蘭
- Cheirostylis pusilla** Lindl. var. **simplex** T.P. Lin, *Taiwania* 62(2): 205–210, f.1E, F, 4. 2017. **Type:** Taiwan: Nantou, 1500 m, Nov. 2, 2016, P.N. Shen s.n. (holotype TAI286822). ●沈氏指柱蘭
- Cheirostylis tortilacinia** C.S. Leou, Q. J. Exp. For. Natl. Taiwan Univ. 4(4): 71–76, f.1, 2. 1990; Lin, *Orch. Fl. Taiwan* 109, f.38. 2019. *C. chinensis* Rolfe var. *tortilacinia* (C.S. Leou) S.S. Ying, *Coloured Ill. Orch. Taiwan* 1: 224. 1996. **Type:** Taiwan: Nantou, Hoshe, 1000 m, C.S. Leou 4143, not found. 和社指柱蘭
- Cheirostylis tortilacinia** var. **rubrifolia** (T.P. Lin & W.M. Lin) T.P. Lin, *Taiwania* 65(4): 463–472. 2020. *C. rubrifolia* T.P. Lin & W.M. Lin, *Taiwania* 54(4): 327, f.2E, 3. 2009; Lin *et al.*, *Taiwania* 61(2): 87. 2016. **Type:** Taiwan: Pingtung: Shantimen Township, Feb. 16, 2009, W.M. Lin s.n. (holotype TAI268960). ●紅衣指柱蘭
- Cheirostylis tortilacinia** var. **wutaiensis** T.P. Lin, *Taiwania* 65(4): 463–472, f.3D–F, 5, 6. 2020. **Type:** Taiwan: Pingtung Co. Wutai Township, 1050 m, Jan. 5, 2020, S.H. Tseng s.n. (holotype TAI289755). ●擬紅衣指柱蘭
- Chiloschista parishii** Seidenf., *Opera Bot.* 95: 176. 1988; Lin & Lin, *Taiwania* 54(4): 328, f.4. 2009; Gyeltshen *et al.*, *Lankesteriana* 20(3): 281–299, f.3, 4. 2020. **Type:** Myanmar: Mon State: Moulmein [Mawlamyine District], Parish 55 (holotype W-R 26237; isotype K000894349; icon. K, W-R 11583) (Ormerod *et al.* *Phytotaxa* 481(1): 62. 2021). 寬囊大蜘蛛蘭



Chiloschista segawae (Masam.) Masam. & Fukuy., Bot. Mag. (Tokyo) 52: 247. 1938; Lin, Native Orch. Taiwan 1: 104, ph.54. 1975 & Orch. Fl. Taiwan 419, f.189. 2019. *Sarcochilus segawae* Masam., Trans. Nat. Hist. Soc. Formosa 24(132): 212. 1934 & J. Geobot. 15(1–3): 9, f.125. 1966. *Thrixspermum segawae* (Masam.) Masam., Trans. Nat. Hist. Soc. Formosa 24: 212. 1934. **Type:** Miaoli: Taikogun [大湖郡], Mapiururi [麻必浩], July 6, 1933, *Segawa s.n.* (holotype KPM-NA0105603, photo T00080 in PoT; isotype KPM-NA0105617, photo T00081 in PoT). 大蜘蛛蘭

Chiloschista segawae var. *taiwaniana* S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 107. 1977. *C. segawae* f. *taiwaniana* (S.S. Ying) S.S. Ying, Coloured Illu. Orch. Fl. Taiwan 2: 446. 1990. **Type:** Taiwan: Nantou, Hosheh, S.S. Ying 2430 (NTUF), not found.

Chiloschista hoi S.S. Ying, Q. J. Exp. For. Natl. Taiwan Univ. 1(1): 89. 1987. **Type:** Taiwan: Taichung, June 1986, F.S. Ho *s.n.* (NTUF), not found.

Chrysoglossum ornatum Blume, Bijdr. Fl. Ned. Ind. 7: 338. 1825; Lin, Native Orch. Taiwan 1: 106, ph.55. 1975. **Type:** Java: in sylvis Salak ad ripas Tjapus, C.L. Blume 295 (holotype L0360184). 金蟬蘭

Chrysoglossum formosanum Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 318–319. 1911; Hsu, Ill. Fl. Taiwan 1: 350. 2016. **Type:** Taiwan: Nanto, Tokunkei, July [30], 1907, Kawakami & U. Mori 3490 (holotype TI, photo T00907 in PoT).

Cleisostoma paniculatum (Ker Gawl.) Garay, Bot. Mus. Leaf. Harv. Univ. 23: 173. 1972; Seidenf., Dansk Bot. Ark. 29: f.16. 1975 (line drawing of *C. Ford 93* of *C. formosanum*); Lin, Native Orch. Taiwan 2: 82, ph.26, 27. 1977. *Aerides paniculata* Ker Gawl., Bot. Reg. 3: t.220. 1817. **Type:** China: cult. in J. Banks' Smallberry-Green greenhouse, London, specimen not found. 虎紋隔距蘭

Cleisostoma formosanum Hance, J. Bot. 22: 364. 1884. *Sarcanthus formosanus* (Hance) Rolfe, J. Linn. Soc. Bot. 36(249): 37. 1903. **Type:** Taiwan: Taipei, Tamsui, June 1884, C. Ford. *s.n.* (holotype BM000539543).

Sarcanthus fuscomaculatus Hayata, Icon. Pl. Formosan. 4: 94, f.48. 1914. *Cleisostoma fuscomaculatum* (Hayata) Garay, Bot. Mus. Leaf. 23: 171. 1972. **Type:** Taiwan: location not indicated, [July 1, 1913], cult. [in Taipei] (holotype TI with Hayata's handwriting, photo T01192 in PoT).

Cleisostoma uraiense (Hayata) Garay & H.R. Sweet, Orch. S. Ryukyu Isl. 156. 1974; Lin, Nat. Orch. Taiwan 2: 86, ph28–29. 1977 & Orch. Fl. Taiwan 424, f.192. 2019. *Sarcanthus uraiensis* Hayata, Icon. Pl. Formosan. 8: 130, f.58. 1919. **Type:** Taiwan: Taipei, Urai [wrong location], B. Hayata *s.n.* (holotype TI, photo T01194 in PoT). 綠花隔距蘭

Sarcanthus viridescens Fukuy., Bot. Mag. (Tokyo) 50(589): 24. 1936; Masam., J. Geobot. 22(4): 14, f.209. 1975. *Cleisostoma viridescens* (Fukuy.) Garay, Bot. Mus. Leaf. Harv. Univ. 23(4): 175. 1972. **Type:** Taiwan: Koto-syo [Lanyu], prope Imaururu [紅頭村], 200 m, July 7, 1934. N. Fukuyama 4818 (holotype KPM-NA0105577 without Fukuyama's no., photo T00040 in PoT); prope Irararai, 100 m, July 29, 1934, N. Fukuyama 4819 (paratype KPM without Fukuyama's no., photo G00845 in PoT); Kotozan, July 1934, N. Fukuyama 4820 (paratype).

Coelogyne cantonensis (Rolfe) R. Rice, Photo Intro. Asian *Bulbophyllum Coelogyne Dendrobium* Orch. 171. 2019. *Pholidota cantonensis* Rolfe, Bull. Misc. Inform. Kew 1896: 196. 1896; Su, Fl. Taiwan 5: 1005. 2000; Lin *et al.*, Taiwan 61(2): 114. 2016; Lin, Orch. Fl. Taiwan 768, f.369. 2019. **Type:** China: Guangdong, North River. Collected by native collector in 1888, Feb. 9, 1889, flower cult. C. Ford 139 (holotype K000943708). 烏來石山桃

Pholidota uraiensis Hayata, Icon. Pl. Formosan. 4: 64, f.29. 1914; Masam., J. Geobot. 15(1–3): 11, f.126. 1966. **Type:** Taiwan: Uraisha, Jan. 1913, S. Sasaki *s.n.* (holotype TI, photo T01176 in PoT).

Coelogyne uncatata (Rchb. f.) M.W. Chase & Schuit., Phytotaxa 510: 130. 2021; Lin, Ill. Native Taiwan. Orch. 370. 2022. *Dendrochilum uncatatum* Rchb. f., Bonplandia 3: 222. 1855; Su, Q. J. Chin. For. 21(1): 116, pl.1. 1988; Lin *et al.*, Taiwan 61(2): 94. 2016; Lin, Orch. Fl. Taiwan 504, f.233. 2019. **Type:** Philippines, 1841? H. Cuming 2103 (holotype GOET013907; isotype K000943726). 穗花蘭/黃穗蘭

Dendrochilum uncatatum var. *formosanum* (Schltr.) T. Hashim., J. Jpn. Bot. 57: 26. 1982. *D. formosanum* (Schltr.) Schltr., Repert. Sp. Nov. Fedde Beih. 4: 185. 1919; S. Sasaki, List Pl. Formosa 3: 128. 1928; Lin, Native Orch. Taiwan 1: 155. 1975. *Platyclinis formosana* Schltr., Bull. Herb. Boissier Sér. 2 6(4): 302. 1906. **Type:** Taiwan: Isle Kotosho., Nov. [22], 1899, K. Miyake *s.n.* [lectotype TI, designated by T. Yukawa and H. Ohba in Lindleyana 10: 31. 1995, photo T01183 in PoT].

Collabium chinense (Rolfe) Tang & F.T. Wang, Fl. Hainan. 4: 217, f.1101. 1977; Seidenf., Opera Bot. 72: 24, f.8. 1983; Su, Q. J. Chin. For. 22(2): 24, pl.4. 1989; Lin, Orch. Fl. Taiwan 429, f.193. 2019. *Nephelaphyllum chinense* Rolfe, Kew Bull. 194. 1896. *Collabiopsis chinensis* (Rolfe) S.S. Ying, Coloured Ill. Orch. Taiwan 2: 456. 1990. **Type:** China: Guangdong, Tinghushan, July 17, 1872, Hance 17733 (holotype BM000090315). 柯麗白蘭

Collabium uraiense Fukuy., Bot. Mag. (Tokyo) 48. 300. 193. 193; Hsieh, Q. J. Taiwan Mus. 8: 228. 1955; Hu, Q. J. Taiwan Mus. Hist. Nat. 26: 131. 1973. *Collabiopsis uraiensis* (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 435. 1977. **Type:** Taiwan: Taipei, Agyoku, Sep. 7, 1932, Fukuyama 3977, not found.

Collabium formosanum Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 319–320. 1911; Su, Q. J. Chin. For. 22(2): 24. 1989; Lin, Nat. Orch. Taiwan 2: 96, ph30–31. 1977 & Orch. Fl. Taiwan 429, f.194. 2019. *Collabiopsis formosana* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1, 2: 112. 1977. **Type:** Taiwan: Nantou, Randaizan, July 30, 1907, T. Kawakami *et* U. Mori 3181 (isotype TAIF6621). 臺灣柯麗白蘭



Corybas puniceus T.P. Lin & W.M. Lin, *Taiwania* 54(4): 329. f.2F. 2009. **Type:** Taiwan: Yunlin, Shyrpishan, 1200 m, July 22, 2009, *W.M. Lin s.n.* (holotype TAI268952). 艷紫盞蘭

Corybas huonensis S.P. Lyon, *Malesian Orch. J.* 18: 93. 2016. **Type:** Papua New Guinea, Morobe Province, Huon Peninsula, Faseu, Dec. 2011, *S.P. Lyon SPL 425* (holotype L). **syn. nov.**

Corybas purpureus J. Joseph & Yogan., *Indian For.* 93: 815, pl.1. 1967; Lin, *Ill. Native Taiwan Orch.* 2nd ed. 143, f.37-1-1. 2023. **Type:** India: Assam, United Khasi and Jaintia Hills, Shillong, Elephant Falls, 1500 m, June 27, 1966, *J. Joseph 36892A* (holotype in CAL); Elephant Falls, *J. Joseph 36892B-J* (isotype in Kanjilal' Herbarium, Botanical Surveys of India, Assam); Oct. 1965, *J. Joseph 36891A* (CAL), *B-H* (Kanjilal' Herbarium, Botanical Surveys of India, Assam) (paratype). 杉林溪盞蘭

Corybas himalaicus auct. non (King & Pantl.) Schltr.: Chung & Hsu, *Taiwan J. For. Sci.* 23(1): 99–103, f.1–3. 2008 & Rao *et al.*, *NeBio* 4(2): 34–36, fl. Apr. 2013.

Corybas shanlinshiensis W.M. Lin, T.C. Hsu & T.P. Lin, *Taiwania* 52(4): 281–282, f.1, 2A. 2007. **Type:** Taiwan: Nantou, Shanlinshi, 1750 m, July 2007, *Weimin Lin s.n.* (holotype TAI259402).

Corybas shanlinshiensis f. hsinchui D.M. Huang & Lin, *Orch. Fl. Taiwan* 114. 2019. **Type:** Taiwan: Hsinchu Co.: Mt. Dahun, 1400 m, *D.M. Huang s.n.* (TAI288985).

Corybas sinii Tang & F.T. Wang, *Acta Phytotax. Sin.* 1(2): 186. 1951; Su, *Fl. Taiwan* 5: 815. 2000; Lin *et al.*, *Taiwania* 61(2): 88, 2016; Lin, *Orch. Fl. Taiwan* 114, f.41. 2019. **Type:** China: Kwangsi, Yaoshan, 1500 m, Nov. 6, 1931, *S. Sin 21529*. 辛氏盞蘭

Corybas taiwanensis auct. non T.P. Lin & S.Y. Leu: Wang & Lu, *Biol. Bull. Natl. Taiwan Normal Univ.* 29(1): 53, f.1. 1994. Taiwan: Nantou: Shanlinshi, June 17, 1994, *Y.C. Lu 1528* (TNU).

Corybas taiwanensis T.P. Lin & S.Y. Leu, *Taiwania* 20(2): 162. 1975; Lin *et al.*, *Taiwania* 61(2): 88, 2016; Lin, *Orch. Fl. Taiwan* 115, f.42. 2019. **Type:** Taiwan: Taoyuen, Nachiehshan, 1400 m, Aug. 4, 1974, *S.Y. Leu 2093* (holotype TAI167096). ●紅盞蘭

Corymborkis veratrifolia (Reinw.) Blume, *Coll. Orch. Arch. Ind.* 125, pl.43, 44. 1858; Ying, *Coloured Ill. Orch. Taiwan* 1: 436. 1977 et 2: 457. 1992; Yeh *et al.*, *Taiwania* 51(1): 53–57, f.1, 2. 2006; Lin, *Orch. Fl. Taiwan* 430, f.195. 2019. *Hysteria veratrifolia* Reinw., *Syll. Pl. Nov.* 2: 5. 1825. *Corymbis veratrifolia* (Reinw.) Rehb. f., *Flora* 48: 184. 1865. **Type:** Indonesia: Jawa, *T. Lobb 162* (neoType K000942850, designated by Rasmussen in *Bot. Tidsskr.* 71: 170. 1977; isoneoType BM000076806). 管花蘭

Cremastra appendiculata (D. Don) Makino var. **appendiculata** Bot. Mag. (Tokyo) 18: 24. 1904; Lin, *Native Orch. Taiwan* 1: 110, ph.58. 1975; Liu & Su, *Fl. Taiwan* 5: 935, pl.1569. 1978; Lund, *Nord. J. Bot.* 8(2): 197–203, *Trop.* 169, f.1. 1988; Kumar, *Feddes Repert.* 135: Mar. 29. 2024. *Cymbidium appendiculatum* D. Don, *Prodr. Fl. Nepal.*: 36. 1825. *Cremastra wallichiana* Lindl., *Gen. Sp. Orchid. Pl.*: 173. 1833. *nom. superfl.* *Aplectrum appendiculatum* (Blume) F. Maek., *Wild Orch. Jpn. Colour* 60, without basionym ref. 1971. **Type:** Nepal: Kathmandu District, Bagmati Zone, Shivapuri, 1821, *N. Wallich 7349* p.p. [W-Reichenbach 25222, lectotype designated by Lund (1988); W0149572]. Isolectotypes: BM-BM000526057, BM000526058; K-K000894433, K001127212; L). 馬鞭蘭

Cremastra triloba Hayata, *Icon. Pl. Formosan.* 2: 135–136. 1911. *C. appendiculata* var. *triloba* (Hayata) S.S. Ying, *Chin. Fl.* 26: 4. 1976.

Type: Mt. Nashitanzan (T00913), Mt. Rontabunzan (TAIF6623), Jiogsha, Apr. [17], 1910, *U. Mori s.n.* (holotype TI, photo T00913 in PoT; isotype Apr. [17], 1910, TAI6623).

Cremastra appendiculata (D. Don) Makino var. *variabilis auct. non* (Blume) I.D. Lund: Lin *et al.*, *Taiwania* 61(2): 89. 2016.

Crepidium bancanoides (Ames) Szlach., *Fragm. Florist. Geobot. Suppl.* 3: 124. 1995. *Malaxis bancanoides* Ames, *Orchidaceae* 2: 129. 1908; Nackej., *Enum. Orch. Ryukyu* 2: 111. 1971; Lin, *Native Orch. Taiwan* 2: 255, ph.126, 127. 1977. **Type:** Philippines: mountains back of San Fernando, Sibuyan Isl., 609 m, July 9, 1904, *R.C. McGregor 14* (holotype AMES00101599, illustration on the label). 涼草/蘭嶼小柱蘭

Microstylis miyakei Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 437. 1911. *Malaxis miyakei* (Schltr.) Tang & F.T. Wang, *Acta Phytotax. Sin.* 1: 73. 1951. **Type:** Taiwan: Insel Kotosho. Nov. 24, 1899, *K. Miyake 129* (holotype B destr.; lectotype TI, designated by Yukawa and Ohba in *Lindleyana* 10: 30. 1995, photo T01155 in PoT).

Microstylis kotoensis Fukuy. *nom. nud. in sched.*; Masam., *J. Geobot.* 25(3): 9, f.241. 1977. **Type:** Taiwan: Taitung, Daishinzan [大森山], Oct. 10, 1934, *N. Fukuyama s.n.* (KPM, photo T00088 in PoT).

Microstylis iriomotensis Masam., *Trans. Nat. Hist. Soc. Formosa* 24: 208. 1934 *nom. nud.* & *J. Geobot.* 20(2): 6, f.179. 1972.

Crepidium macgregorii (Ames) M.A. Clem. & D.L. Jones, *Lasianthera* 1: 38. 1996. *Malaxis macgregorii* Ames, *Philipp. J. Sci. Bot.* 6: 45. 1911. **Type:** Philippines: Polillo Isl., Oct.–Nov. 1909, *R.C. MacGregor s.n.* (syntype AMES00101142, 00101143).

Crepidium ×cordilabium T.P. Lin, *Taiwania* 66(1): 11–19. 2021. **Type:** Taiwan: Taoyuan City, Fuxing Township, July 6, 2020, *J.Y. Wang s.n.*, 900 m (TAI289768). 心唇小柱蘭



Crepidium matsudae (Yamam.) Szlach., *Fragm. Florist. Geobot. Suppl.* 3: 129. 1995; Lin, *Native Orch. Taiwan* 2: 260, ph.130. 1977 & *Orch. Fl. Taiwan* 436, f.198. 2019. *Microstylis matsudae* Yamam., *Icon. Pl. Formosan. Suppl.* 2: 4, f.2. 1926. *Malaxis matsudae* (Yamam.) Hatus. ex Naczej., *J. Geobot.* 20: 65. 1972. *M. matsudae* (Yamam.) S.S. Ying, *Bull. Exp. For. Natl. Taiwan Univ.* 114: 154. 1974. **Type:** Taiwan: Pintung, Daizyurin, July [24], 1919, *E. Matsuda* [22] (holotype TI, photo T01152 in PoT). 凹唇小柱蘭

Crepidium ophrydis (J. Koenig) M.A. Clem. & D.L. Jones, *Lasianthera* 1: 38. 1996; Lin, *Orch. Fl. Taiwan* 436, f.199. 2019. *Epidendrum ophrydis* J. Koenig in A.J. Retzius, *Observ. Bot.* 6: 46. 1791. *Malaxis ophrydis* (J. Koenig) Ormerod, *Seidenf., Descr. Epidendrorum* J.G. König: 18. 1995; Ormerod, *Fl. Taiwan* 2nd ed. 6: 136. 2003. *Dienia ophrydis* (J. Koenig) Seidenf., *Contr. Orch. Fl. Thai.* 13: 18. 1997; Lin *et al.*, *Taiwania* 61(2): 95, 2016. **Type:** Thailand: Phuket region, *J. König s.n.* (lectotype LHS specimen labelled type, K, designated by M.A. Clem. & D.L. Jones in *Lasianthera* 1: 38. 1996; isotype LIV). 花柱蘭/貓尾蘭

Malaxis congesta (Lindl.) Deb, *Bull. Bot. Surv. India* 3: 128. 1962. *Microstylis congesta* (Lindl.) Rchb. f., *Ann. Bot. Syst.* 6: 206. 1861.

Dienia congesta Lindl., *Bot. Reg.* 10: t.825. 1824. **Type:** Nepal, Lambert s/n., specimen not found.

Dienia shuicae (S.S. Ying) T.P. Lin, *Taiwania* 61(2): 95. 2016. *Malaxis shuicae* S.S. Ying, *J. Jpn. Bot.* 62(3): 70, as 'shuicai'. 1987. **Type:** Taiwan: Kaohsiung, Shouka, Feb. 14, 1986, flowering Aug. S.S. Ying s.n. (holotype NTUF, photo F00008223 in PoT).

Malaxis kizanensis (Masam.) S.Y. Hu, *Q. J. Taiwan Mus.* 27: 433. 1974. *Malaxis kizanensis* (Masam.) Hatus., *Fl. Ryukyus* 863. 1971.

Microstylis kizanensis Masam., *Ann. Rep. Taihoku Bot. Gard.* 3: 75. 1933. **Type:** Taiwan: Yilan, Kueishan Isl., July 3, 1932, *G. Masam.* & *S. Suzuki s.n.* (TAI033097, this *Type* is confirmed by the label since no *Type* has been designated).

Dienia latifolia (Sm.) M.A. Clem. & D.L. Jones, *Lasianthera* 1: 41. 1996. *Malaxis latifolia* Sm. in A. Rees, *Cycl.* 22. *Malaxis* n. 3. 1812; Sasaki, *List Pl. Formosa* 134. 1928; Lin, *Native Orch. Taiwan* 2: 258, ph.128, 129. 1977. **Type:** Nepal: Narainhetty Upper Nepal, Aug. 12, 1802, *F. Buchanan-Hamilton s.n.* (holotype LINN-HS 1396.3.1).

Malaxis latifolia var. *nana* S.S. Ying, *Mem. Coll. Agric. Natl. Taiwan Univ.* 25(2): 101. 1985. **Type:** Taiwan: Nanjenshan, Aug. 23, 1974, S.S. Ying s.n.

Malaxis sampoae T.P. Lin & W.M. Lin, *Taiwania* 56(4): 319. 2011. **Type:** Taiwan: Pingtung, Shouka. S.S. Lin s.n. (holotype TAI274758).

Crepidium purpureum (Lindl.) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 131. 1995; Lin, *Orch. Fl. Taiwan* 437, f.200. 2019; Kumar *et al.*, *Bot. J. Linnean Soc.* 20: 14. 2021. *Microstylis purpurea* Lindl. *Gen. Sp. Orch. Pl.* 20. 1830. *Malaxis purpurea* (Lindl.) Kuntze., *Revis. Gen. Bot.* 2: 673. 1891; Su, Q. J. *Chin. For.* 23(3): 48, pl.3. 1986. **Type:** Ceylon: near Galle, *Macrae s.n.* (K-Lindl.). Taiwan: Kaohsiung: Sanping, *Su & Chen 9087*; Pingtung: Mt. Tahan, *Su & Chen 9337*. 紫花軟葉蘭

Crepidium bilobum (Lindl.) Szlach. ex Lucksom, *Orch. Sikkim N.E. Himalaya* 323. 2007. *Microstylis biloba* Lindl., *Gen. Sp. Orchid. Pl.* 20. 1830. *Malaxis biloba* (Lindl.) Ames, *Orchidaceae* 2: 122. 1908; Leou, Q. J. *Exp. For. Natl. Taiwan Univ.* 11(2): 74, f.1. 1997. *M. acuminata* var. *biloba* (Lindl.) Ames, *Enum. Philipp. Apost.* 302. 1926. **Type:** Nepal: Gossainthan, *Wallich 1940/1* (K-LINDL). Taiwan: Nantou, 300 m, June 1996, *C.S. Leou 6193*.

Crepidium rizalense (Ames) M.A. Clem. & D.L. Jones, *Lasianthera* 1: 40. 1996. *Malaxis rizalensis* Ames, *Philipp. J. Sci., C* 6: 46. 1911. **Type:** Philippines: Luzon, Rizal, Bosoboso, Aug. 14, 1907, *M. Ramos BS4561* (holotype AMES00101164).

Microstylis wallichii Lindl. var. *biloba* King & Pantling, *Ann. Roy. Bot. Gard. Calcutta* 8: 16, pl.19. 1898. **Type:** India: Sikkim Himalaya, Aug. 6, 1897, *R. Pantling 37* (lectotype: CAL, isolectotype: K).

Crepidium ramosii (Ames) Szlach., *Fragm. Florist. Geobot. Suppl.* 3: 131. 1995; Lin, *Orch. Fl. Taiwan* 438, f.201. 2019. *Malaxis ramosii* Ames, *Philipp. J. Sci. C* 6: 45. 1911; Lin & Hu, Q. J. *Chin. For.* 9(1): 53, pl.3. 1976. **Type:** Philippines: Bosoboso, Luzon Isl., Aug. 12, 1907, *M. Ramos BS 4567* (holotype AMES00101163). 圓唇小柱蘭

Pseudoliparis moluccana non (J.J. Sm.) H.B. Marg.: Lin *et al.*, *Taiwania* 61(2): 117, 2016.

Crepidium roohutuensis (Fukuy.) T.P. Lin, *Taiwania* 61(2): 89. 2016; Lin, *Orch. Fl. Taiwan* 444, f.202. 2019. *Microstylis roohutuensis* Fukuy., *Trans. Nat. Hist. Soc. Formosa* 22: 415. 1932. *Malaxis roohutuensis* (Fukuy.) Naczej., *Biol. Mag. (Okinawa)* 9: 41. 1972. *M. roohutuensis* (Fukuy.) S.S. Ying, *Bull. Expert. Nat. Taiwan Univ.* 114: 154. 1974 (Oct.); Lin, *Native Orch. Taiwan* 2: 267, ph.134. 1977. *Malaxis roohutuensis* (Fukuy.) Naczej., *Biol. Mag. (Okinawa)* 9: 41. 1972. *Crepidium roohutuense* (Fukuy.) T.C. Hsu, *Ill. Fl. Taiwan* 1: 359. 2016. **Type:** Taiwan: Pintung, Koosyun, Roohutu-san [老佛山], 1000 ped. Dec. 31, 1931, cult. & flowering Oct. 1932, *N. Fukuyama 3553* (holotype KPM-NA0105566, photo T00029 in PoT). ●紫背小柱蘭

Cryptostylis arachnites (Blume) Hassk., *Cat. Hort. Bot. Bogor. Alt.*: 48. 1844; Lin, *Native Orch. Taiwan* 1: 112, ph.59, 60. 1975 & *Orch. Fl. Taiwan* 123, f.43. 2019. *C. arachnites* (Blume) Blume, *Coll. Orch.* 133, ill.46. 1858 with description & illustration; Lin *et al.*, *Taiwania* 61(2): 89. 2016; *Zosterostylis arachnites* Blume, *Bijdr. Fl. Ned. Ind.* 8: 419. 1825, *nom. invalid. sine descript.* **Type:** Indonesia: Java, *Blume 323* (holotype L0059262; isotype S07-558); *Blume s.n.* (isotype U0074227). 滿綠隱柱蘭

Cryptostylis erythroglossa Hayata, *Icon. Pl. Formosan.* 4: 117–118, pl.18. 1914. **Type:** Taiwan: Location not indicated, cult. Taipei, Jan. 1912, *B. Hayata s.n.* (holotype TI, photo T00915 in PoT).



Cryptostylis taiwaniana Masam., Trans. Nat. Hist. Soc. Formosa 23(126): 208. 1933; Lin, Orch. Fl. Taiwan 123, f.44. 2019. *C. arachnites* var. *taiwaniana* (Masam.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 3: 622. 1988. **Type:** Taiwan: Pingtung, Nanninzan [南仁山], Mar. 21, 1929, *Segawa s.n.* (holotype KPM-NA0105595, photo T00073 in PoT). 蓬萊隱柱蘭

Cymbidium cochleare Lindl., J. Proc. Linn. Soc., Bot. 3: 28. 1858; Chen et al., Fl. Reipubl. Popul. Sin. 18: 212. 1999; Su, Fl. Taiwan, 5: 822. 2000; Lin, Ill. Native Taiwan. Orch. 386, f.219. 2022. *Cyperorchis cochleare* (Lindl.) Benth., J. Linn. Soc. Bot. 18: 317. 1881. **Type:** India: Sikkim, hot valleys, Apr. 1850, *J.D. Hooker 235* (holotype K000852995; isotype K000838851), *J.D. Hooker s.n.* (isotype K000838850). 香莎草蘭

Cyperorchis babae Kudo ex Masam., J. Jpn. Bot. 8: 258–260, (f.). 1932; Mark et al., Orch. Dig. Jan.–Feb. 14. 1986; Lin, Nat. Orch. Taiwan 2: 131, ph60–62. 1977. *Cymbidium babae* (Kudo ex Masam.) Masam., Trop. Hort. 3: 333. 1933 & J. Geobot. 16(4): pl.143. 1968. *Cyperorchis kanran* var. *babae* (Kudô ex Masam.) S.S. Ying, Chin. Flowers 23: 7. 1976. **Type:** cult.?

Cymbidium dayanum Rchb. f., Gard. Chron. 1869: 710. 1869; Masam., J. Geobot. 16(3): 21, pl.139. 1968 & J. Geobot. 20(3): 11, f.183. 1972; Seidenf., Opera Bot. 72: 82. 1983; Lin, Orch. Fl. Taiwan 447, f.204. 2019. *C. eburneum* var. *dayanum* (Rchb.f.) Hook. f., Fl. Br. India 6: 12. 1891. **Type:** India: Assam, 1868, *J. Day s.n.* (Reichenbach Herbarium IDC microfiche 8802: 166/4; K000838849). 鳳蘭

Cymbidium leachianum Rchb. f., Gard. Chron. 10: 106. 1878. *C. dayanum* subsp. *leachianum* (Rchb. f.) S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 29(1): 84. 1989. **Type:** Taiwan: *A. Corner s.n.* (Reichenbach Herbarium IDC microfiche 8802: 166/32, 167/1; K).

Cymbidium simonsianum King & Pantl., J. Asiat. Soc. Bengal, Pt. 2 Nat. Hist. 64(2): 338. 1895; Sasaki, List Pl. Formosa 126. 1928. **Type:** India: Sikkim, tropical valleys to 3000 ft, Aug. 1895, *R. Pantling 51* (syntype K000891136; isosyntype BR0000009973916, GH00098562).

Cymbidium alborubens Makino, Bot. Mag. (Tokyo) 16: 11. 1902; F. Mark et al., Orch. Dig. Jan.–Feb. 14. 1986. **Types:** Japan: Musashi, Tokyo Bot. Gard. Koishikawa, cult. Jan. 1902, *T. Makino s.n.* This orchid originated from Taiwan?

C. dayanum var. *albiflorum* S.S. Ying, Coloured Ill. Fl. Taiwan 5: 594, pl.87. 1995. **Type:** Taiwan: Taipei, Pinglin, Sept.1993, *S.S. Ying s.n.* (NTUF).

Cymbidium ensifolium (L.) Sw., Nova Acta Regiae Soc. Sci. Upsal., ser. 2, 6: 77. 1799; Lin, Native Orch. Taiwan 2: 106, ph.36–39. 1977 & Orch. Fl. Taiwan 450, f.205. 2019. *Epidendrum ensifolium* L., Sp. Pl. 954. 1753. **Type:** China: Canton, *Osbeck s.n.* (lectotype LINN 1062-10, designated by Du Puy & Cribb, Genus Cymbidium 156. 1988). 焦尾蘭/四季蘭

Cymbidium arrogans Hayata, Icon. Pl. Formosan. 4: 76–77. 1914. **Type:** Taiwan: Kusukusu, June 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T00918 in PoT).

Cymbidium miseriors Hayata, Icon. Pl. Formosan. 4: 79, f.386. 1914. *C. ensifolium* var. *miseriors* (Hayata) T.P. Lin, Native Orch. Taiwan 2: 105, ph.36–39. 1977. *C. ensifolium* var. *miseriors* (Hayata) T.S. Liu & H.J. Su, Fl. Taiwan 5: 942. 1978. *C. kanran* var. *miseriors* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 440. 1977. **Type:** Taiwan: Tamsui, Mt. Kwannonzan; cult. Taipei, Mar. 22, 1914, *B. Hayata et T. Soma s.n.* (holotype TI, photo T00922 in PoT).

Cymbidium rubrigemmum Hayata, Icon. Pl. Formosan. 6: 81, f.15. 1916; Masam., J. Geobot. 20(4): 15, f.186. 1972. *C. ensifolium* var. *rubrigemmum* (Hayata) T.S. Liu & H.J. Su, Fl. Taiwan 5: 940. 1978. **Type:** Taiwan: cult. Taipei, Mar. 1914. *T. Soma s.n.*, not found.

Luiguioshania taiwanensis Z.J. Liu & J.N. Zhang, J. S. China Agric. Univ. 19(1): 73–74, f.1. 1998. **Type:** Taiwan: Kaohsiung, Luiguioshan [六龜山], Aug 20, 1995, *Z.J. Liu 145* (holotype Shenzhen City Wutongshan Nurseries).

Cymbidium faberi Rolfe, Bull. Misc. Inform. Kew 1896: 198. 1896; Lin, Native Orch. Taiwan 2: 109, ph.40. 1977 & Orch. Fl. Taiwan 452, f.206. 2019. **Type:** China: Zhejiang, Ningpo, Mt. Tientai 2000 ft. 1889, *E. Faber 94* (synType K000838841; isosynType NY00008688); Sichuan, S Wushan, *A. Henry 5515* (synType K000838839). 一莖九華

Cymbidium oiwakensis Hayata, Icon. Pl. Formosan. 6: 80, f.14. 1916. **Type:** Taiwan: Gokwanzan [合歡山], Oiwake [追分] 7500 ped., Apr. 1916, *B. Hayata s.n.* (isotype TAI6642).

Cymbidium faberi var. *viridiflorum* S.S. Ying, Alp. Pl. Taiwan 2: 446. 1978. **Type:** Taiwan: Lishan, *S.S. Ying 5282*. not found.

Cymbidium floribundum Lindl., Gen. Sp. Orch. Pl. 162. 1833; Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 30(1): 30. 1990; Lin, Orch. Fl. Taiwan 452, f.207. 2019. **Type:** icon in Bibl. Hort. Soc. Lond. 金稜邊蘭

Cymbidium pumilum Rolfe, Bull. Misc. Inform. Kew 1907: 130. 1907, *nom. illeg.* *C. floribundum* var. *pumilum* (Rolfe) Y.S. Wu & S.C. Chen, Acta Phytotax. Sin. 18: 301. 1980. **Type:** China: Yunnan, Tsekou, date? *T. Monberg s.n.* (holotype K000891143; isotype K000891144).

Cymbidium illiberale Hayata, Icon. Pl. Formosan. 4: 78–79. 1914; Masam., J. Geobot. 16(3): 22, pl.140. 1968. **Type:** Taiwan: Location not indicated, (fl.) Mar. [24], 1914, *B. Hayata s.n.* (holotype TI, photo T00920 in PoT).

Cymbidium formosanum Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 335. 1911; Masam., J. Geobot. 16(1): 6, pl.134. 1968; Lin, Nat. Orch. Taiwan 2: 112. 1977 & Orch. Fl. Taiwan 455, f.208. 2019. *C. goeringii* var. *formosanum* (Hayata) S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 30: 31. 1990. **Type:** Taiwan: Ako, Raisha, 3000 ped., Jan. 1907, *G. Nakahara s.n.* (holotype TI, photo T0919 in PoT). 台灣春蘭



Cymbidium gracillimum Fukuy., Trans. Nat. Hist. Soc. Formosa 22: 413–414, f.12. 1932. *C. formosanum* var. *gracillimum* (Fukuy.) T.S. Liu & H.J. Su, Fl. Taiwan 5: 943. 1978. *C. goeringii* var. *gracillimum* (Fukuy.) Govaerts, World Checkl. Seed Pl. 3(1): 20. 1999. **Type:** Sintiku: monte Tyotui-zan, 5000 [4000] ped., Jan. 1931, *N. Fukuyama 3220* (holotype KPM-NA0105529 without Fukuyama's no., photo T00025 in PoT; isotype KPM-NA0105530).

Cymbidium goeringii auct. non (Rchb. f.) Rchb. f.: D.D. Puy & P. Crib, Genus *Cymbidium*. 182–183. 1988; Su, Fl. Taiwan 5: 826. 2000.

Cymbidium formosanum f. *albiflorum* S.S. Ying, Q. J. Chin. For. 20(2): 54. 1987. without a *Type*. *C. goeringii* f. *albiflorum* (S.S. Ying) S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 30: 33. 1990.

Cymbidium goeringii f. var. *serratum* auct. non (Schltr.) W.S. Wu & S.C. Chen: Su in Fl. Taiwan 5: 826. 2000.

Cymbidium kanran Makino, Bot. Mag. (Tokyo) 16: 10. 1902; W.N. Simmons, Orch. Rev. 69(882): 375. 1961; Liu & Su, Fl. Taiwan 5: 946. 1978; Lin, Nat. Orch. Taiwan 2: 116, ph45–46. 1977 & Orch. Fl. Taiwan 457, f.209. 2019.

Type: Japan: Musashi; cult. Tokyo Bot. Gard. Koishikawa, Jan. 1902, *Makino s.n.* not found. 寒蘭

Cymbidium oreophilum Hayata, Icon. Pl. Formosan. 4: 80, f.38(c). 1914. *C. misericos* Hayata var. *oreophilum* Hayata in sched. **Type:** Formosa: Location not indicated, Mar. 1914, *B. Hayata s.n.* (holotype TI, photo T00925 in PoT).

Cymbidium purpureohiemale Hayata, Icon. Pl. Formosan. 4: 81. 1914; Masam., J. Geobot. 22(4): 15, f.210. 1975. *C. kanran* var. *purpureohiemale* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 440. 1977. **Type:** Taiwan: Location not indicated, Mar. 1914, *B. Hayata s.n.* (holotype TI, photo T00926 in PoT).

Cymbidium linearisepalum Yamam., Trans. Nat. Hist. Soc. Formosa 20(106): 40. 1930. **Type:** Taiwan: No collection information given, but two forma (see below) with specimen cited immediately followed.

Cymbidium linearisepalum f. *atropurpureum* Yamam., Trans. Nat. Hist. Soc. Formosa 20(106): 41. 1930. *C. linearisepalum* var. *atropurpureum* (Yamam.) Masam., Trop. Hort. 3: 30. 1933. **Type:** Taiwan: Yilan, monte Taihei [太平山], prope Kashinoki-daira, Oct. 26, 1929, 3000 ped, *T. Noya s.n.-A.* (TAI118710).

Cymbidium linearisepalum f. *atrovirens* Yamam., Trans. Nat. Hist. Soc. Formosa 20(106): 41. 1930. *C. linearisepalum* var. *atrovirens* (Yamam.) Masam., Trop. Hort. 3: 30. 1933. **Type:** Taiwan: Yilan, monte Taihei, prope Kashinoki-daira, Oct. 26, 1929, 3000 ped, *T. Noya s.n.-B.* (TAI118710).

Cymbidium tosaensis Masam., Trans. Nat. Hist. Soc. Formosa 25(136–139): 14. 1935. **Type:** Taiwan: Takao-syu, Heitogun [霧台], Tosga (cult., collected by Watanabe).

Cymbidium lancifolium Hook., Exot. Fl. 1: t.51. 1823; Hayata, Icon. Pl. Formosan. 4: 79. 1914; Lin, Native Orch. Taiwan 2: 119. 1977. **Types:** Nepal, cult. Liverpool Botanic Gardens, Shepherd ex 'East Indies', 1821, *Wallich s.n.* (holotype K000395361). 竹柏蘭

Cymbidium nagifolium Masam., Bot. Mag. (Tokyo) 45: 220. 1930; F. Mark *et al.*, Orch. Dig. Jan.–Feb. 19. 1986. **Type:** Japan: Yakusima Isl., *G. Masamune s.n.*

Cymbidium lancifolium* f. *aspidistrifolium (Fukuy.) T.P. Lin, Native Orch. Taiwan 2: 122, ph.49, 50. 1977. *C. aspidistrifolium* Fukuy., Bot. Mag. (Tokyo) 48(571): 438, f.2, 3. 1934. *C. javanicum* var. *aspidistrifolium* (Fukuy.) F. Mack., J. Jpn. Bot. 33: 320. 1958. *C. lancifolium* var. *aspidistrifolium* (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 439. 1977. Lin *et al.*, Taiwan 61(2): 91. 2016. **Type:** Taiwan: Taihoku, Syo-agyku-san [小阿玉山], Oct. 1933, *N. Fukuyama 4137* (KPM-NA0105605 without Fukuyama's no. and dated Aug., photo T00024 in PoT). 綠花竹柏蘭

Cymbidium bambusifolium Fowlie, F. Mark & F.S. Ho, Orch. Digest, Jan.–Feb. 18–19. 1986. *non* Roxburgh 1832. **Type:** Taiwan: Taichung, 800–1000 m, *Fu-shun Ho s.n.* (FMH83 T 8) [Aug. 15, 1985] blossom (UCLA Herbarium).

Cymbidium lancifolium* var. *syunitianum (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 439. 1977; Lin, Orch. Fl. Taiwan 462, f.210-3. 2019. *C. syunitianum* Fukuy., Bot. Mag. (Tokyo) 49(587): 757. 1935; Masam., J. Geobot. 20(2): 5, pl.178. 1972. *C. lancifolium* f. *syunitianum* (Fukuy.) Lin, Orch. Fl. Taiwan 462. 2019. **Type:** Taiwan: Hualien, Kwarenko, Taroko-taizan [太魯閣大山], collected by S. Sasaki, June 1933. cult. flowering Jan. 1935. *N. Fukuyama 4688* (holotype KPM, photo T00084 in PoT; isotype KPM without Fukuyama's no., photo T00085 in PoT).

●大竹柏蘭

Cymbidium macrorhizon Lindl., Gen. Sp. Orch. Pl. 162. 1833. Yang & Wang, Taiwan J. Biodivers. 16(1): 85–93. 2014. **Type:** India: Cashmir, *Royle s.n.* (K000395362 ill. only). 大根蘭

Bletia nipponica Franch. & Sav., Enum. Pl. Jpn. 2: 511. 1878; F. Mark *et al.*, Orch. Dig. Jan.–Feb. 14. 1986. *Cymbidium nipponicum* (Franch. & Sav.) Rolfe, Orch. Rev. 3: 38 1895. **Type:** Japan: peninsula Parry, *Savater P.A.L. s.n.* (P00385292).

Cymbidium ×oblancifolium Z.J. Liu & S.C. Chen, For. Stud. China 3(1): 23–25, f. 2001; Taiwan 65(4): 463–472, f.3A–C, 4. 2020. **Type:** China: Guangdong, Shenzhen, Nov. 24, 1999, cult. *Zhongjian Liu 100* (Herbarium, Shenzhen City Wutongshan Nurseries, Guangdong). 四季竹柏蘭



Cymbidium sinense (Andrews) Willd., Sp. Pl. 4: 111. 1805; Lin, Nat. Orch. Taiwan 2: 126, ph53–55. 1977 & Orch. Fl. Taiwan 465, f.212. 2019. *Epidendrum sinense* Andrews, Bot. Repos. 3: t.216. 1802. **Type:** ex China, cult. G. Hibbert, imported to London by J. Slater in 1793. Icon. in Andr. Bot. Rep. 3: t.216. 1802. 拜歲蘭

Cymbidium albojucundissimum Hayata, Icon. Pl. Formosan. 4: 74. 1914. *C. sinense* f. *albojucundissimum* (Hayata) Fukuy., Trans. Nat. Hist. Soc. Formosa 22: 415. 1932. *C. sinense* var. *albojucundissimum* (Hayata) Masam., Trop. Hort. 3: 31. 1933. **Type:** Taiwan: Location not indicated, Taipei, cult., Mar. 1914. B. Hayata s.n. (holotype TI, photo T00917 in PoT).

Cymbidium sinense var. *margicoloratum* Hayata, Icon. Pl. Formosan. 6: 82, f.16b, 17. 1916. *C. sinense* f. *margicoloratum* (Hayata) Fukuy., Short Fl. Formosa: 287. 1936. **Type:** Taiwan: Taipei, cult., Feb. 1914. T. Soma s.n. (holotype TI, photo T00928 in PoT).

Cymbidium sinense var. *pallidiflorum* S.S. Ying, Q. J. Chin. For. 20(2): 54. 1987. **Type:** Taiwan: Taipei, cult., Feb. 5, 1987, S.S. Ying s.n. (NTUF).

Cymbidium sinense var. *taiwanianum* S.S. Ying, Q. J. Chin. For. 20(2): 54. 1987. *C. sinense* f. *taiwanianum* (S.S. Ying) S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 30: 45. 1990. **Type:** Taiwan: Taipei, cult., Feb. 5, 1987, S.S. Ying s.n. (NTUF).

Cymbidium tortisepalum Fukuy., Bot. Mag. (Tokyo) 48(569): 304, f.1. 1934; Masam., J. Geobot. 17(4): 32, pl.157. 1969; Lin, Nat. Orch. Taiwan 2: 129, ph56–59. 1977 & Orch. Fl. Taiwan 467, f.213. 2019. *C. goeringii* var. *tortisepalum* (Fukuy.) Y.S. Wu & S.C. Chen, Acta Phytotax. Sin. 18(3): 300. 1980; Su, Fl. Taiwan 5: 828. **Type:** Taiwan: Shinchiku, Taiko, Higashi-sensuizan, Apr. 10, 1932, N. Fukuyama 3983. not found. 菅草蘭

Cymbidium tentyozanense Masam. nom. nud. in sched.; Lin et al., Taiwania 61(2): 91. 2016.

Cymbidium tortisepalum f. *albiflorum* S.S. Ying, Q. J. Chin. For. 20(2): 54. 1987. *C. goeringii* var. *tortisepalum* f. *albiflorum* (S.S. Ying) S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 30(1): 35. 1990. without **Type**.

Cymbidium tortisepalum var. *viridiflorum* S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 41. 1977. **Type:** Taiwan: Lishan, S.S. Ying 5282 not found.

Cynorkis fastigiata Thouars, Hist. Orch. t.13. 1822; Chung & Hsu, Ill. Fl. Taiwan 2: 369. 2016; Lin, Ill. Native Taiwan Orch. 150, f.42. 2022. *Orchis fastigiata* (Thouars) Spreng., Syst. Veg. 3: 687. 1826. *Gymnadenia fastigiata* (Thouars) A. Rich., Mém. Soc. Hist. Nat. Paris 4: 23. 1828. **Type:** Madagascar, Du Petit-Thouars L.M.A. s.n. (holotype P00102259, designated by Hermans & Cribb, Lankesteriana 21 (2): 103. 2021). 非洲紅蘭

Cypripedium debile Rchb. f., Xenia Orch. 2: 223. 1874; Masam., List Vasc. Pl. Taiwan 1954; Liu & Su, Fl. Taiwan 5: 951. 1978; Lin, Orch. Fl. Taiwan 72, f.20. 2019. **Type:** Japan. Based on a figure in Soc-Mok-Dru-Sets vol. 8. 小喜普鞋蘭/小老虎七

Cypripedium formosanum Hayata, Icon. Pl. Formosan. 6: 66, f.9. 1916; Lin, Native Orch. Taiwan 3: 56, ph.24–25. 1987 & Orch. Fl. Taiwan 74, f.21. 2019. *C. japonicum* Thunb. var. *formosanum* (Hayata) S.S. Ying, Chin. Flower 15: 33, pl.1. 1975. **Type:** Taiwan: Oiwake, 7500 ped [合歡山追分], Apr. [22], 1916, B. Hayata s.n. (holotype TI, photo T00931 in PoT; isotypes K000077937, TAIF6654 & 6655). ●台灣喜普鞋蘭

Cypripedium japonicum auct. non Thunb.: Hayata, Icon. Pl. Formosan. 2: 136. 1912.

Cypripedium segawae Masam., Trans. Nat. Hist. Soc. Formosa 23: 209. 1933; Trop. Hort. 3: 31. 1933; J. Geobot. 17(3): 22, pl.152. 1969; Lin, Orch. Fl. Taiwan 79, f.22. 2019. *C. guttatum* var. *segawae* (Masam.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 357. 1977. *C. reginae* var. *segawae* (Masam.) S.S. Ying, Coloured Ill. Orch. Fl. Taiwan 1: 340. 1996. **Type:** Taiwan: Hualien, Kiraisyuzan, Mar. 28, 1930, Segawa s.n. (holotype TI, photo T00932 in PoT). ●寶島喜普鞋

Cypripedium taiwanalpinum Y.I. Lee, P.C. Liao, & T.P. Lin, Taiwania 64(4): 339–346, f.11, J, 3, 6. 2019. *C. macranthos* auct. non Sw.: Hayata, Icon. Pl. Formosan. 2: 136. 1912; H.J. Su, Fl. Taiwan 5: 834, pl. 352. 2000. **Type:** Taiwan: Nantou Co., Hohuanshan East Peak, 3394 m, June 4, 2012, C.F. Chen 3522 (TAIF390875). ●奇萊喜普鞋蘭

Cypripedium taiwanianum Masam., Trop. Hort. 3: 31. 1933. nom. nud. *C. macranthos* Sw. var. *taiwanianum* (Masam.) F. Maek., Wild Orch. Jpn. Colour 80. 1971, nom. illeg.

Cyrtosia falconeri (Hook. f.) Aver., Turczaninowia 14(2): 38. f.15, 24c, d. 2011; Wang et al., Taiwania 63(4): 321–326, 2018; Lin, Orch. Fl. Taiwan 27, f.1. 2019. *Galeola falconeri* Hook. f., Fl. Br. India 6: 88. 1890; King & Pantl., Ann. Roy. Bot. Gard. Calcutta 8: 265, t.353. 1898; Su, Taiwania 45(3): 244. pl.2B. 2000 & Fl. Taiwan 5: 882, pl.376. 2000; Lin et al., Taiwania 61(2): 97. 2016. **Syntypes:** NE. India: Garhwal, Falconer s.n.; Sikkim, T. Thomson s.n. 直立山珊瑚/小囊山珊瑚

Galeola kuhlii auct. non (Rchb. f.) Rchb. f.: Liu & Su, Fl. Taiwan 5: 996, pl.1596. 1978.

Galeola matsudai auct. non Hayata: Lin, Native Orch. Taiwan 3: 91(f.) 1987.

Cyrtosia lindleyana Hook. f. & Thomson, Ill. Himal. Pl. t.22. 1855; Wang et al., Taiwania 63(4): 321–326. 2018; Lin, Orch. Fl. Taiwan 28, f.2. 2019. *Erythrorchis lindleyana* (Hook. f. & Thomson) Rchb. f., Bonplandia (Hannover) 5: 37. 1857. *Galeola lindleyana* (Hook. f. & Thomson) Rchb. f., Xenia Orch. 2: 78. 1865; Ying, Coloured Ill. Indig. Orch.



Taiwan 1: 456. 1977; Su, *Taiwania* 45(3): 243. pl.2A. 2000 & Fl. Taiwan 5: 884. 2000; Lin *et al.*, *Taiwania* 61(2): 97. 2016. **Type:** NE. India (“India, Khasia”), 1219 m, *J.D. Hooker 357* (K000387590); Sikkim: July 7, 1857, 1524–2134 m, *T. Thomson s.n.* (K000387588 fruit only). 山珊瑚

Galeola matsudai Hayata, *Icon. Pl. Formosan.* 9: 114, f.40. 1920. **Type:** Taiwan: Akocho: Paiwan, June 1917. not found.

Cyrtosia septentrionalis (Rchb. f.) Garay, *Bot. Mus. Leafl.* 30: 233. 1986; Wang *et al.*, *Taiwania* 63(4): 321–326, f.2C–E, 4. 2018. *Galeola septentrionalis* Rchb. f. *Xenia Orch.* 2: 78. 1865. **Type:** Japan. (W-R, Reichenbach Herbarium IDC microfiche 8802:36/9). 血紅肉果蘭

Cyrtosia taiwanica K.H. Wang & T.P. Lin, *Taiwania* 64(4): 339–346, f.1G, H, 2. 2019; Lin, *Orch. Fl. Taiwan* 34, f.4. 2019. **Type:** Taiwan: Nantou: between Chitou and Shanlinchi, June 6, 2011, *L.H. Yang 197* (TAIE28272). ●肉果蘭

Cyrtosia javanica auct. non Blume: Leou & Chung in *Q. J. Exp. For. Natl. Taiwan Univ.* 9(4): 20, f.1, 2. 1995; Su, *Fl. Taiwan* 2nd ed. 5: 835. pl.354. 2000.

Dactylorhiza viridis (L.) R.M. Bateman, Pridgeon & M.W. Chase, *Lindleyana* 12: 129. 1997; Lin, *Orch. Fl. Taiwan* 125, f.45. 2019. *Satyrium viride* L., *Sp. Pl.* 944. 1753. *Orchis viridis* (L.) Crantz, *Stirp. Austr. Fasc.*, ed. 2, 2: 491. 1769. *Coeloglossum viride* (L.) Hartm., *Handb. Skand. Fl.* 329. 1820; Lin, *Native Orch. Taiwan* 1: 108, ph.56, 57. 1975. **Type:** Europe, unknown country. *Anon. s.n.* (lectotype LINN1055-3, designated by Renz, *Fl. Pakistan* 164: 32. 1984). 窩舌蘭

Herminium nankotaizanense Masam., *J. Soc. Trop. Agric.* 4(2): 194. 193. *Platathera nankotaizanense* (Masam.) Masam., *Bot. Mag. (Tokyo)* 46: 773. 1932 & *J. Geobot.* 14(4): 31, f.118. 1966. *Coeloglossum nankotaizanensis* (Masam.) S.S. Ying, *Q. J. Chin. For.* 8(4): 149. 1975.

Type: Taiwan: Nankotaizan, July 15, 1931, *G. Masam. et K. Mori. s.n.* not found.

Coeloglossum taiwanianum S.S. Ying, *Alp. Pl. Taiwan Colour* 1: 74, pl.101. 1975. **Type:** Taiwan: Taichuang, Hseusuan, 3750 m, July 8, 1975, *S.S. Ying 3843* (holotype NTUF-F00000318; isotype: *S.S. Ying 3845*, NTUF-F00008280).

Dendrobium aphyllum (Roxb.) C.E.C. Fisch., *Fl. Madras*: 1416. 1928; Lin, *Ill. Native Taiwan Orch.* 402, f.231. 2022. *Limodorum aphyllum* Roxb., *Pl. Coromandel* 1: 34, 1795. *Cymbidium aphyllum* (Roxb.) Sw., *Nova Acta Regiae Soc. Sci. Upsal.*, ser. 2, 6: 73. 1799. **Type:** India: Coromandel Coast, cult. in W. Roxburgh Garden and dead. 天宮石斛

Dendrobium chameleon Ames, *Orchidaceae* 2: 174. 1908; Lin, *Native Orch. Taiwan* 1: 140, ph.79, 80. 1975 & *Orch. Fl. Taiwan* 470, f.215. 2019. **Type:** Philippines: Baguio, Prov. Benguet, northern Luzon, Sept. 30, 1904, *R.S. Williams 1940* (holotype NY8718; isotypes AMES00074969, K001085102, NY8717, NY8719). 長距石斛/巒大石斛

Dendrobium randaiense Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 315. 1911. **Type:** Taiwan: Nantou, Randaizan, July [30], 1907, *T. Kawakami et U. Mori s.n.* (holotype TI, photo T00945 in PoT).

Dendrobium longicalcaratum Hayata, *Icon. Pl. Formosan.* 4: 43, pl.8. 1914. **Type:** Taiwan: Urai, Aug. 1912. Flowering Nov. 1912 in Tokyo, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T00940 in PoT).

Dendrobium chryseum Rolfe, *Gard. Chron.*, ser. 3, 3: 233. 1888; Chen *et al.*, *Fl. China* 25: 386. 2009; Lin, *Orch. Fl. Taiwan* 471, f.216. 2019. **Type:** India: Assam, collector unknown. cult. in Chelsea J. Veitch & Sons Ltd. nursery. 金草

Dendrobium clavatum Lindl. var. *aurantiacum* (Kuntze) Tang & F.T. Wang, *Acta Phytotax. Sin.* 1: 40, 80. 1951; Lin, *Native Orch. Taiwan* 1: 122, ph.63. 1975; Yang *et al.*, *Man. Taiwan Vasc. Pl.* 5: 240. 2001. *D. aurantiacum* Rchb. f., *Gard. Chron.*, ser. 3, 2: 98. 1887, *non* F. Mueller 1870. **Type:** Myanmar (Burma): *Hildebrandt s.n.*

Dendrobium flaviflorum Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 312–313. 1911. **Type:** Taiwan: Location not indicated. July [10], 1907 (holotype TI, photo T00935 in PoT; isotype K000943765).

Dendrobium comatum (Blume) Lindl., *Gen. Sp. Orch. Pl.* 76. 1830; Schuit. & Adams, *Muelleria* 29(1): 67. 2011; Lin, *Orch. Fl. Taiwan* 475, f.217. 2019. *Desmotrichum comatum* Blume, *Bijdr. Fl. Ned. Ind.* 7: 329. 1825. *Flickingeria comata* (Blume) Hawkes, *Orch. Week.* 2: 453. 1961. *Ephemerantha comata* (Blume) P.F. Hunt & Summerh., *Taxon* 10(4): 103. 1961; Lin, *Native Orch. Taiwan* 1: 157, ph.91, 92. 1975. **Type:** Java: Buitenzorg, flower in Sept. (holotype L0063871). 木斛

Dendrobium fimbriatolabellum Hayata, *Icon. Pl. Formosan.* 4: 38, f.13(b). 1914. *Desmotrichum fimbriatolabellum* (Hayata) Hayata, *Icon. Pl. Formosan.* 4: 38. 1914. *Ephemerantha fimbriatolabella* (Hayata) P.F. Hunt & Summerh., *Taxon* 10: 104. 1961. *Flickingeria fimbriatolabellum* (Hayata) A.D. Hawkes, *Orch. Week.* 2(46): 454. 1961. **Type:** Taiwan: Kuskusu, July 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T00934 in PoT).

Dendrobium crumenatum Sw., *J. Bot. (Schrader)* 2: 237. 1799; Sasaki, *List Pl. Formosa* 126. 1928; Lin, *Native Orch. Taiwan* 1: 124, ph.64, 65. 1975 & *Orch. Fl. Taiwan* 475, f.218. 2019. *Angraecum crumenatum* Rumph., *Herb. Amboin.* 6: 105, t. 47, f.2. 1750. *Onychium crumenatum* (Sw.) Blume, *Bijdr. Fl. Ned. Ind.*: 326. 1825. *Aporum crumenatum* (Sw.) Brieger, *F.R.R. Schltr. in Orchideen Beschreib. Kult. Zücht.*, ed. 3, 1(11–12): 671. 1981. **Type:** India: Iaua. 鵝石斛



Dendrobium kwashotense Hayata, Icon. Pl. Formosan. 4: 41, f.13d–g, 15. 1914. **Type:** Taiwan: Kwashoto [火燒島], June 1, 1913, *T. Soma s.n.* (holotype TI, photo T00938 in PoT, isotype TAI6681).

Dendrobium equitans Kraenzl., Engler (ed.), Pflanzenr., IV. 50. II. B. 21: 228. 1910; Hayata, Mat. Fl. Formos. 315. 1911; Sasaki, List Pl. Formosa 126. 1928; Lin, Native Orch. Taiwan 1: 126, ph.85–87. 1975 & Orch. Fl. Taiwan 476, f.219. 2019. *Aporum equitans* (Kraenzl.) Brieger, F.R.R. Schltr. in Orch. Beschreib. Kult. Zücht. ed. 3 1(11–12): 673. 1981. **Type:** Taiwan: cult. H. Goldsmith collection (holotype HBG501523). 燕石斛

Dendrobium falconeri Hook., Bot. Mag. 82: t.4944. 1856; Henry, Trans. Asia. Soc. Jpn. 24 (Suppl): 91. 1896; Lin, Native Orch. Taiwan 1: 128, ph.66. 1975 & Orch. Fl. Taiwan 476, f.220. 2019. *Callista falconeri* (Hook.) Kuntze, Revis. Gen. Pl. 2: 654. 1891. **Type:** Bhutan, 4000 ft: Purchased in London by G. Reid, in Apr. 1856. One specimen in Herb. H.G. Reichenbach 21640. 紅鸚石斛/新竹石斛

Dendrobium erythroglossum Hayata, Icon. Pl. Formosan. 4: 36, f.19a. 1914; Masam., J. Geobot. 25(2): 5, f.238. 1977. **Type:** Taiwan: Location not indicated, June 1912, *R. Kanehira s.n.* not found.

Dendrobium furcatopedicellatum Hayata, Icon. Pl. Formosan. 4: 39, f.14. 1914; Lin, Orch. Fl. Taiwan 484, f.222. 2019. **Type:** Taiwan: Maisha, Aug. 1912, *B. Hayata et S. Sasaki s.n.* not found. ●雙花石斛

Dendrobium goldschmidtianum Kraenzl., Repert. Spec. Nov. Regni Veg. 7: 40. 1909; Christenson, Brittonia 46(4): 344–354. 1994; Lin, Orch. Fl. Taiwan 484, f.223. 2019. **Type:** Philippines: cultivated and flowered in July 1907, *H. Goldschmidt-Essen s.n.* (holotype HBG501530). 紅石斛

Dendrobium hainanense auct. non Rolfe: Matsum. and Hayata in J. Coll. Sci. Imp. Univ. Tokyo 22: 408. 1906.

Dendrobium miyakei Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 64–65. 1919; Masam., J. Geobot. 21(2): 7, f.192. 1973; Lin, Native Orch. Taiwan 1: 134 (f.). 1975. *D. victoriae-reginae* var. *miyakei* (Schltr.) T.S. Liu & J.H. Su, Fl. Taiwan 5: 969. 1978. **Type:** Taiwan: Isle Kotosho, Nov. [20], 1899, *K. Miyake s.n.* (B, destr.; lectotype TI, photo T00941 in PoT).

Dendrobium pseudohainanense Masam., Trop. Hort. 3: 33. 1933. *nom. nud.*

Dendrobium leptocladum Hayata, Icon. Pl. Formosan. 4: 43. 1914; Lin, Native Orch. Taiwan 1: 130, ph.67, 68. 1975 & Orch. Fl. Taiwan 487, f.224. 2019. *D. tenuicaule* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 316–317. 1911, *non* Hook. f. 1890 & *non* Ridley 1899. **Type:** Taiwan: Shokwa, July 30, 1907, *T. Kawakami & U. Mori s.n.* (holotype TI, photo T00939 in PoT); July 1907, *Y. Shimada s.n.* (isotype K000943747). ●細莖石斛

Dendrobium linawianum Rchb. f., Ann. Bot. Syst. 6: 284. 1861; Lin, Native Orch. Taiwan 1: 132, ph.69, 70. 1975 & Orch. Fl. Taiwan 487, f.225. 2019. **Type:** No data listed, with references to Lindl., Edwards's Bot. Reg. 16: t.1314. 1830 and Hook. f., Bot. Mag. n.s. 71: t.4153. 1845. 金石斛/櫻石斛

Dendrobium alboviride Hayata, Icon. Pl. Formosan. 9: 108, f.36. 1920. **Type:** Taiwan: Kappanzan, July [May 15], 1917, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T00933 in PoT; isotype TAI6671).

Dendrobium luzonense Lindl., Edwards's Bot. Reg. 30(Misc.): 54. 1844; Merrill, Enum. Philipp. Flower. Pl. 1: 351. 1925; W.M. Lin *et al.*, Taiwania 52(4): 281–286, f.2B, 4. 2007. **Type:** Philippines: Luzon, not found. 呂宋石斛

Dendrobium moniliforme (L.) Sw., Nova Acta Regiae Soc. Sci. Upsal., ser. 2, 6: 85. 1799; Hayata, Icon. Pl. Formosan. 4: 44. 1914; Nackej., Biol. Mag. (Okinawa) 13: 27. 1975; Lin, Orch. Fl. Taiwan 490, f.227. 2019. *Epidendrum moniliforme* L., Sp. Pl. 954. 1753. **Type:** Japan. "Fu Ran" in Kaempfer, Amoen. Exot. Fasc. 864, 865. 1712 (designated by Merrill in J. Arnold Arbor. 19: 330. 1938). 石斛

Dendrobium heishanense Hayata, Icon. Pl. Formosan. 4: 40, f.13c. 1914. **Type:** Taiwan: Alisan, inter Heishana et Nimandaira, 7000 ped., Apr. 28, 1914, *B. Hayata s.n.* (holotype TI, photo T00937 in PoT).

Dendrobium taiwanianum S.S. Ying, Q. J. Chin. For. 11(2): 102. 1978. *D. moniliforme* f. *taiwanianum* S.S. Ying, Q. J. Chin. For. 11(2): 102. 1978, *pro syn. D. moniliforme* var. *taiwanianum* S.S. Ying, Q. J. Chin. For. 11(2): 102. 1978, *pro syn. D. moniliforme* var. *taiwanianum* (S.S. Ying) S.S. Ying, Coloured Ill. Orch. Fl. Taiwan 1: 377. 1996. **Type:** Taiwan: Taichung, Wu-lin, Ying 6521.

Dendrobium tosaense var. *chingshuishanianum* S.S. Ying, J. Jpn. Bot. 64(5): 151. 1989. **Type:** Taiwan: Taichung, Derchi to Chingshan, May 4, 1988, S.S. Ying *s.n.* (holotype NTUF, not found).

Dendrobium okinawense Hatus. & Ida, J. Geobot. 18: 77. 1970; Chung & Lu, Taiwania 52(1): 106. 2007. *D. moniliforme* subsp. *okinawense* (Hatus. & Ida) T.P. Lin, Taiwania 61(2): 93. 2016. **Type:** Ryukyu Is., Okinawa (Japan).

Dendrobium nakaharae Schltr., Repert. Spec. Nov. Regni Veg. 2 (24): 169. 1906; Liu & Su, Fl. Taiwan 5: 965, pl.1582. 1978; Lin *et al.*, Taiwania 61(2): 93. 2016 & Orch. Fl. Taiwan 494, f.228. 2019. *Epigeneium nakaharae* (Schltr.) Summerh., Kew Bull. 12: 263. 1957; Su, Q. J. Chin. For. 22(2): 27, pl.6. 1989. **Type:** Taiwan: Bei Rakurakusha,



Aug. 1905, *G. Nakahara s.n.* (holotype B, destr.; lectotype TI, designated by T. Yukawa & H. Ohba in Lindleyana 10: 29–32, 1995, photo T00942 in PoT). 臘石斛

Dendrobium nobile Lindl. var. **formosanum** Rchb. f., Gard. Chron., n.s. 19: 432. 1883; Sasaki, List Pl. Formosa 128. 1928; Lin, Orch. Fl. Taiwan 496, f.229. 2019. *D. formosanum* (Rchb. f.) Masam., Trop. Hort. 3: 32. 1933. **Type**: "...grown by the lte General Munro, and kindly sent in Apr. 1876 by the Rev. C. S. P. Parish. It was introduced from Formosa by Mr. B. S. Williams." Specimen not found. ●台灣石斛

Dendrobium officinale Kimura & Migo, J. Shanghai Sci. Inst. Sec. 3, 3: 122. 1936; Jin & Huang, Taxon 64(2): 385–386. 2015. **Type**: China, Zhejiang, Fenghua Co., *Kimura & Migo s.n.* (TI). 黃石斛

Dendrobium catenatum Lindl., Gen. Sp. Orch. Pl. 84. 1830, **nom. rej. prop.**; Ormerod, Taiwania 47(4): 241. 2002; Lin, Orch. Fl. Taiwan 469, f.214. 2019. **Type**: China: icon *Reeves s.n.* (v. ic. pict. sinens. in Bibl. Hort. Soc.) (lectotype RHS, designated by Ormerod in Oasis (Dora Creek) 1(4): 14. 2000); Japan: *Thunberg s.n.*

Dendrobium pere-fauriei Hayata, Icon. Pl. Formosan. 6: 70. 1916. *D. tosaense* var. *pere-fauriei* (Hayata) Masam. J. Soc. Trop. Agric. 4: 196. 1933. **Type**: Taiwan: Kwareenko, July 1915, *U. Faurie s.n.* (isotype TAI6695, no flower).

Dendrobium stricklandianum Rchb. f., Gard. Chron., n.s., 7: 749. 1877. **Type**: Japan, *Strickland s.n.* (holotype W, Reichenbach Herbarium IDC microfiche 8802:155/22; isotype PE).

Dendrobium tosaense Makino, J. Bot. 29: 383. 1891; Bot. Mag. (Tokyo) 19: 136. 1905; Lin, Native Orch. Taiwan 1: 144, ph.83–84. 1975. **Type**: Japan: Shikoko I., Tosa, Kochi, Nov. 1895, *Makino s.n.* (holotype TI n.v.). **Lectotype**: the icon in Makino, Ill. Fl. Jpn. 1(8): 1, t.46. 1891 was designated by Jin and Huang (2015).

Dendrobium tosaense Makino var. *chingshuishanianum* S.S. Ying, J. Jpn. Bot. 64(5): 151, f.2. 1989. **Type**: Taiwan: Hualien, Chingshuishan [清水山] 800 m, Apr. 5, 1988, *S.S. Ying s.n.* (NTUF). not found.

Dendrobium parietiforme J.J. Sm., Icon. Bogor. 2: 92, t.117c. 1904; Lin, Orch. Fl. Taiwan 498, f.230. 2019. *Desmotrichum parietiforme* (J.J. Sm.) Kraenzl., Pflanzenr. IV, 50 II B 21: 349. 1910. *Ephemerantha parietiformis* (J.J. Sm.) P.F. Hunt & Summerh. Taxon 10: 105. 1961. *Flickingeria parietiformis* (J.J. Sm.) A.D. Hawkes, Orch. Week. 2: 457. 1961. **Type**: Indonesia: Celebes, Palele, *Behaghel s.n.* 士富暫花蘭

Flickingeria shihfuana T.P. Lin & Kuo Huang, Taiwania 50(4): 292, f.3. 2005. *Dendrobium shihfuana* (T.P. Lin & Kuo Huang) Schuit. & P.B. Adams, Muelleria 29(1): 67. 2011. **Type**: Taiwan: Pingtung, Wutai, 1200 m, Sept. 25, 2004, *S.F. Huang s.n.* (holotype TAI6224764).

Dendrobium sanseiense Hayata, Icon. Pl. Formosan. 6: 70–71. 1916; Lin *et al.*, Taiwania 61(2): 94. 2016. *Epigeneium sanseiense* (Hayata) Summerh., Kew Bull. 12: 264. 1957. *E. sanseiense* (Hayata) Nackej., Biol. Mag. Okinawa 9: 37. 1972; Lin, Native Orch. Taiwan 3: 62. 1987. **Type**: Taiwan: Girancho, Mt. Sanseizan [三星山], May [16], 1916, *B. Hayata s.n.* (holotype TI, photo T00946 in PoT; isotype TAI6696, flower missing). ●小攀龍

Dendrobium fargesii auct. non Finet: Lin, Orch. Fl. Taiwan 477, f.230. 2019.

Dendrobium somae Hayata, Icon. Pl. Formosan. 6: 71–72. 1916; Lin, Native Orch. Taiwan 1: 142, ph.81–82. 1975 & Orch. Fl. Taiwan 498, f.231. 2019. **Type**: Taiwan: Taihoku, cult. Aug. 1915, *T. Soma s.n.* (holotype TI, photo T00947 in PoT). ●小双花石斛

Dendrobium xantholeucum Rchb. f., Xenia Orch. 2: 73. 1865; Hsu *et al.*, Taiwania, 57(3): 275, f.1M–O. 2012; Lin, Orch. Fl. Taiwan 499, f.232-1. 2019. *Desmotrichum xantholeucum* (Rchb. f.) Kraenzl., Pflanzenr., IV, 50 II B 21: 354. 1910. *Ephemerantha xantholeuca* (Rchb. f.) P.F. Hunt & Summerh., Taxon 10: 107. 1961. *Flickingeria xantholeuca* (Rchb. f.) A.D. Hawkes, Orch. Week. 2: 460. 1961. **Type**: Java: Hariang, *H. Kuhl & J.C. Van Hasselt 22* (holotype L0061258). 淺黃暫花蘭

Dendrobium xantholeucum var. **tairukounia** (S.S. Ying) T.P. Lin, Taiwania 61(2): 94. 2016 & Orch. Fl. Taiwan 499, f.232-2. 2019. *Ephemerantha tairukounia* S.S. Ying, Q. J. Chin. For. 11(2): 103, f.2. 1978. *Dendrobium tairukounia* S.S. Ying, Q. J. Chin. For. 11(2): 103, f.2. 1978, *pro syn.* *Flickingeria tairukounia* (S.S. Ying) T.P. Lin, Native Orch. Taiwan 3: 85, ph.29, 30. 1987. **Type**: Taiwan: Tairukou, near Changchuan Bridge [長春橋], Apr. 22, 1978, *S.S. Ying 7218* (NTUF). not found. ●尖葉暫花蘭

Didymoplexiella siamensis (Rolfe ex Downie) Seidenf., Bot. Tidsskr. 67: 99. 1972; Su, Q. J. Chin. For. 20(4): 100. 1987; Lin, Orch. Fl. Taiwan 506, f.234. 2019. *Leucolena siamensis* Rolfe ex Downie, Bull. Misc. Inform. Kew 1925: 416. 1925. *Didymoplexis siamensis* (Rolfe ex Downie) Suetsugu & T.C. Hsu, Phytotaxa 388(2): 177. 2019. **Type**: Thailand: Chiangmai, Doi Suthep, 2300 ft, on humus in evergreen jungle, May 8, 1910, *A.F.G. Kerr 245* (lectotype K000942689, designated by Seidenfaden, Dansk Bot. Ark. 32 (2): 176. 1978); Doi Suthep, 3000 ft, May 19, 1912, *A.F.G. Kerr 305* (K000942688). Taiwan: Pingtung: Luliaoqi, Apr. [year?]. *Su 7035* (NTUF). 錨柱蘭



Didymoplexis micradenia (Rchb. f.) Hemsl., J. Linn. Soc. Bot. 20: 311. 1883; Hsu & Chung, *Taiwania* 52(4): 360–364, f.1–3. 2007; Lin, *Orch. Fl. Taiwan* 508, f.235. 2019. *Epiphanes micradenia* Rchb. f., *Fl. Vit.* 295. 1868. **Type:** Fiji: Ovalau, in forest. 1860, *B.C. Seemann 610* (holotype W-R, Reichenbach Herbarium IDC microfiche 8802: 37/18, isotype K000942690). Taiwan: Lanyu: Tianchi, 220 m, Apr. 13, 2004, *S.W. Chung 8327* (TAIF273640). 鬼蘭/小鬼蘭

Didymoplexis pallens Griff., *Calcutta J. Nat. Hist.* 4: t.17. 1844; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 93. 1896; Liu & Su, *Fl. Taiwan* 5: 973. 1978; Lin, *Orch. Fl. Taiwan* 510, f.236. 2019. *Epiphanes pallens* (Griff.) Rchb. f., *Fl. Vit.* 296. 1868. **Type:** India: Near Sultan's Battery in Coory under a clump of bamboo, *R. Wight s.n.* (K000387608, CAL, BR). Taiwan: Takow, *Henry 1878*. 吊鐘鬼蘭

Didymoplexis subcampanulata Hayata, *Icon. Pl. Formosan.* 2: 136–137. 1912. **SynTypes:** Taiwan: Koshun, Mar. 14, 1910, *T. Kawakami s.n.* (TI, photo T00948 in PoT); Aug. 1912. *B. Hayata s.n.* not found.

Diploprora championii (Lindl.) Hook. f., *Fl. Br. India* 6: 26. 1890; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 93. 1896; Lin, *Native Orch. Taiwan* 2: 135, ph.63, 64. 1977. *Cottonia championii* Lindl., *Hooker's J. Bot. Kew Gard. Misc.* 7: 35. 1855. *Diploprora championii* (Lindl. ex Benth.) Hook. f. ex Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 281. 1919. **Type:** Hong Kong, Victoria Peak, April. *J.G. Champion 277* (holotype K000883992 with illustration). Taiwan: Bankingsing, *A. Henry 898 & 1606*. 黃吊蘭

Diploprora kusukusensis Hayata, *Icon. Pl. Formosan.* 4: 86, f.42. 1914. **Type:** Taiwan: Kusukusu, June 1912, *B. Hayata et S. Sasaki s.n.* not found.

Diploprora uraiensis Hayata, *Icon. Pl. Formosan.* 4: 87, f.43. 1914. *Diploprora championii* var. *uraiensis* (Hayata) S.S. Ying, *Mem. Coll. Agric. Natl. Taiwan Univ.* 28: 36. 1988. **Type:** Taiwan: Uraisha, May 1914, *B. Hayata s.n.* (holotype TI, photo T00950 in PoT).

Disperis neilgherrensis Wight, *Icon. Pl. Ind. Orient.* 5(1): t.1719. 1851; X. Chen *et al.*, *Fl. China* 25: 165. 2009; Lin, *Orch. Fl. Taiwan* 127, f.46. 2019. **Type:** S. India: Neilgherri Hills, South India, Coimbatore, *R. Wight 3018*, date not cited (lectotypes K000827269, K000827270, designated by H. Kurzweil, *Blumea* 50: 145. 2005; isolectotypes C, GH00098943, GOET008394. LE01254354, M0225994, P00362244, P00362245, S07-1697, W, ZT00014369); *R. Wight s.n.* (K827270). 蘭嶼草蘭

Disperis siamensis Rolfe ex Downie, *Kew Bull.* 1925: 422. 1925; Seidenf., *Dansk Bot. Ark.* 31(3): 139, f.89. 1977. **Type:** Thailand: Doi Sutep 660–900 m, deciduous jungle, Aug. 27, 1911, *A.F.G. Kerr 1987* (holotype K000827015, isotype C10016216).

Disperis orientalis Fukuy., *Bot. Mag. (Tokyo)* 50(589): 17. 1936; Masam., *J. Geobot.* 20(4): 13, f.184. 1972; Lin, *Native Orch. Taiwan* 2: 145, (f.). 1977. **Type:** Taiwan: Koto-syo, monte Sadakirei, July 25, 1935, *N. Fukuyama 4839* (holotype KPM-NA0105536 without Fukuyama's no., photo T00028 in PoT).

Epipactis fascicularis T.P. Lin, *Taiwania* 60(4): 169, f.2A, B. 2015. **Type:** Taiwan: Taichung, near Lishan, 1900 m, July 21, 2013, *S.K. Yu s.n.* (holotype TAI286042). ●余氏鈴蘭

Epipactis ohwii Fukuy., *Bot. Mag. (Tokyo)* 48(569): 298. 1934; Masam., *J. Geobot.* 21(4): 15, f.198. 1974; Lin, *Orch. Fl. Taiwan* 516, f.239. 2019. *E. helleborine* ssp. *Ohwii* (Fukuy.) H.J. Su, *Fl. Taiwan* 5: 861. 2000. **Type:** Taiwan: Taihoku, Nankotaizan, Bunakkei-Piyanan-anbu [南湖園谷–思源啞口] 8000 ped. July 21, 1933, *N. Fukuyama 3973* (holotype KPM-NA0105537 without Fukuyama's no., photo T00049 in PoT). ●台灣鈴蘭

Epipogium aphyllum Sw., *Summa Veg. Scand.* 32. 1814; Chung & Tzeng, *Taiwan J. For. Sci.* 16(4): 317–320 (f.). 2001; Lin, *Orch. Fl. Taiwan* 518, f.240. 2019. *Satyrrium epipogium* L., *Sp. Pl.* 2: 945. 1753. *Epipogium epipogium* (L.) H. Karst., *Deut. Fl.*: 455. 1881, *not validly publ.* *Orchis aphylla* F.W. Schmidt, *Samml. Phys. Aufsätze Böhm. Naturgesch.* 1: 240. 1791 (*non O. aphylla* Forssk. 1775). **Type:** “Epipogum” in Gmelin, *Fl. Sibirica* 1: 12, t.2, f.2, 1747 (Lectotype, designated by Renz & Taubenheim in Davis (ed.), *Fl. Turkey* 8: 470. 1984). Taiwan: Tapachienshan 3100 m, Sept. 19, 2014, *W.S. Wu s.n.* (TAI284549). 無葉上鬚蘭

Epipogium japonicum Makino, *Bot. Mag. (Tokyo)* 18: 131. 1904; Su, *J. Exp. For. Natl. Taiwan Univ.* 13(3): 207. 1999; Lin, *Orch. Fl. Taiwan* 520, f.241. 2019. **Type:** Japan: Shimotsuke, Nikko, Mt. Nyoho, Sept. 28, 1904, *N. Aoki and M. Kurushima s.n.* (Herb.?). Sept. 29, 1904, *M. Kurushima & B. Ioki s.n.*; Oct. 16, 1904, *T. Makino & B. Ioki s.n.* Taiwan: Meifong, 2200 m, Nov. 16, 1997, *Su et al.* 9569 (HAST). 日本上鬚蘭

Epipogium kentingense T.P. Lin & Shu H. Wu, *Taiwania* 57(4): 378–379, f. 1B, C, 3. 2012. **Type:** Taiwan: Pingtung, Kenting, Mar. 27, 2012, *Shu H. Wu s.n.* (holotype TAI281012). 墾丁上鬚蘭

Epipogium ×meridianum T.P. Lin, *Taiwania* 63(3): 241–247, f.1C, D, 2A, B, 3. 2018. **Type:** Taiwan: Pingtung Co., Tahanshan 1050 m, Mar. 24, 2012, *S.H. Lin s.n.* (holotype TAI281145). ●間型上鬚蘭



- Epipogium roseum** (D. Don) Lindl., J. Proc. Linn. Soc. Bot. 1: 177. 1857; Lin, Native Orch. Taiwan 2: 148–150, ph.67–69. 1977 & Orch. Fl. Taiwan 526, f.244. 2019. *Limodorum roseum* D. Don, Prodr. Fl. Nepal. 30. 1825. **Type:** Nepal: 1818, *N. Wallichii s.n.* (BM000061526). 泛亞上鬚蘭
Epipogium rolfei (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. 10: 5. 1911. *Galera rolfei* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 348. 1911; Icon. Pl. Formosan. 4: 121–122, f.64. 1914. **Type:** Okinawa, May 1891. *S. Tanaka 147*. not found.
Epipogium kusukusense (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 153. 1919. *Galera kusukusensis* Hayata, Icon. Pl. Formosan. 4: 121, pl.20. 1914. *Epipogon kusukusense* Hayata nom. nud. in sched.; Masam., J. Geobot. 26(2): 11, f.252. 1978. **Type:** Taiwan: Kusukusu [高士佛], July 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T00967 in PoT).
Epipogium poneranthum Fukuy. Trans. Nat. Hist. Soc. Formosa 32: 243. 1942. **Type:** Ryukyu, *N. Fukuyama 7123*, June 7, 1938 (TAI 123093; IsoType 118717).
Epipogium lalashanense S.S. Ying, New Taxa New Names 5: 472–477. 2022. **Type:** Taiwan: Taoyuan, Fuhsin, Lalashan 1953 m, *S.S. Ying s.n.* June 17, 2022 (holotype, NTUF). **syn. nov.**
- Epipogium taiwanense** T.C. Hsu, Ill. Fl. Taiwan 2: 26. 2016; Lin, Orch. Fl. Taiwan 528, f.245. 2019. **Type:** Hsinchu, Jianshih, Sept. 18, 2012, *S.K. Yu s.n.* (holotype TAI). *E. aphyllum auct. non* Swartz: Chung, Orch. Taiwan 146. 2008. 台灣上鬚蘭
Epipogium aphyllum auct. non Swartz: Chung, Orch. Taiwan 146. 2008.
- Eria gagnepainii** A.D. Hawkes & A.H. Heller, Lloydia 20: 130. 1957; Hu *et al.*, Taiwan J. For. Sci. 25(4): 369–375. 2010. **Type:** China: Yunnan, Szemao (Simao), *Simond 96* (P). 香港毛蘭
Eria herklotsii P.J. Cribb, Orch. Rev. 84: 131. 1976; Barretto, G., Cribb, P., Gale, S. Wild Orch. Hong Kong 498. 2011. **Type:** Hong Kong: S. of Ma On Shan, *G.A.C. Herklots s.n.* (holotype K000827413).
- Eria javanica** (Sw.) Blume, Rumphia 2: 23. 1836; Lin, Native Orch. Taiwan 2: 157. 1977 & Orch. Fl. Taiwan 531, f.247. 2019. *Dendrobium javanicum* Sw., Neues J. Bot. 1(1): 96. 1805. **Type:** Indonesia: E. Java, *Thunberg s.n.*, not found. Taiwan: Nantou: Chusan 300 m, Sept. 10, 1976, *F.S. Ho s.n.* (TAIF). 大葉絨蘭
- Eria scabrilinguis** Lindl., J. Proc. Linn. Soc. Bot. 3: 51. 1858; Lin, Orch. Fl. Taiwan 535, f.249. 2019. *Pinalia scabrilinguis* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 679. 1891. **Type:** Sikkim, *Cathcart s.n.* (K000396193 illustration only). 黃絨蘭
Eria corneri Rchb. f., Gard. Chron. 10: 106. 1878; Masam., J. Geobot. 14(1): pl.108. 1965; Lin, Native Orch. Taiwan 2: 154, ph.72. 1977; Lin *et al.*, Taiwania 61(2): 95. 2016. **Type:** Taiwan: *A. Corner s.n.* (W-R, Reichenbach Herbarium IDC microfiche 8802:158/2).
Eria goldschmidtiana Schltr., Orchis 4: 107. 1910. **Type:** Taiwan, cult. H. Goldschmidt, *Unger s.n.* (holotype B?).
Eria septemlamella Hayata, Icon. Pl. Formosan. 4: 56, f.24. 1914. **Type:** Taiwan: Rinkihō [竹山], Aug. 1911 [flowering Oct. 9, 1914], *H. Inaba s.n.* (holotype TI with Hayata's handwriting, photo T00956 in PoT).
Eria yakushimensis Nakai, Bot. Mag. (Tokyo) 36: 20. 1922. **Type:** Japan: ins. Yakushima, collected by M. Kishida and cult. in Bot. Garden & blossomed in Nov. 1921.
- Erythrodes aggregata** (T.P. Lin & W.M. Lin) T.P. Lin, Taiwania 61(2): 96. 2016. *Erythrodes blumei* var. *aggregata* T.P. Lin & W.M. Lin, Taiwania 54(4): 329, f.2G. 2009. **Type:** Taiwan: Kaohsiung, Lieukuei, Minghaishan 1200 m, *Weimin Lin s.n.* (holotype TAI268959). ●密花小唇蘭
- Erythrodes chinensis** (Rolfe) Schltr., Orch. Beschreib. Kult. Zücht. 117, f.3C–F. 1914; Ormerod, Lindleyana 17: 194, f.3C–F. 2002; Lin, Orch. Fl. Taiwan 129, f.48-1. 2019. *Physurus chinensis* Rolfe, Bull. Misc. Inform. Kew 1896: 200. 1896; Forbes and Hemsl., J. Linn. Soc. Bot. 36 (249): 41. 1903; J. Matsum. & B. Hayata, J. Coll. Sci. Imp. Univ. Tokyo 22: 99, f.52. 1906; Hayata, Icon. Pl. Formosan. 4: 99, t.52. 1914. **SynTypes:** China: Kwangtung, Guangzhou, Lienchow River, coll. Ford, cult. Hong Kong Bot. Garden, specimen made on Apr. 1, 1889, *Ford 134* (K000482472, K000482473, K000942726). 小唇蘭
Erythrodes formosana Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 169. 1919. **Type:** Taiwan: Karapin, Mar. 24, 1914, *B. Hayata s.n.* (lectotype TI, photo T00960 in PoT; designated by Yukawa and Ohba 1995).
- Erythrodes chinensis** var. **triantherae** (C.L. Yeh & C.S. Leou) T.P. Lin, Taiwania 61(2): 96. 2016 & Orch. Fl. Taiwan 130, f.48-2. 2019. *E. triantherae* C.L. Yeh & C.S. Leou, Taiwania 51(4): 266–269, f.1, 2. 2006. **Type:** Taiwan: Lanyu, Kotoshan, Feb. 2, 2006, *C.R. Yeh 4068* (holotype PPI); Tienchi, *C.R. Yeh 4069* (paratype PPI); Oubenlin, *C.R. Yeh 4070* (paratype PPI). ●三藥細筆蘭
Erythrodes triantherae var. *ecalcarata* T.C. Hsu, Ill. Fl. Taiwan 2: 31, ph. 2016. **Type:** Taiwan: Lanyu, Hsianggaishan, *T.C. Hsu 8327* (holotype TAI).
- Erythrorchis altissima** (Blume) Blume, Rumphia 1: 200. 1837; Gagnep., Fl. Gen. Indochine 6, 5: 632, f.61, 2–8. 1934; Seidenf., Dansk Bot. Ark. 32(1): 136. f.85. 1978; Su, Q. J. Chin. For. 20(4): 100, pl.2. 1987; Lin, Orch. Fl. Taiwan 35,



f.5. 2019. *Cyrtosia altissima* Blume, Bijdr. Fl. Ned. Ind.: 396. 1825. *Galeola altissima* (Blume) Rchb. f., Xenia Orch. 2: 77. 1865; Liu & Su, Fl. Taiwan 5: 996. 1978. **Type:** Indonesia: Java, in Mt. Seribu (GH00099432). 倒吊蘭/蔓莖山珊瑚

Galeola ochobiensis Hayata, Icon. Pl. Formosan. 6: 87, f.19. 1916. *Erythrorchis ochobiensis* (Hayata) Garay, Bot. Mus. Leaflet. Harv. Univ. 30(4): 234. 1986; Seidenf., Opera Bot. 114: 73. 1992. **Type:** Taiwan: Ochochi [烏石鼻], May 14, 1916, B. Hayata s.n., not found.
Vanilla taiwaniana S.S. Ying, Q. J. Chin. For. 20(2): 55, ph.7. 1987. **Type:** Taiwan: Taichung, July 1984, F.S. Ho s.n. not found.
Taiwan: Pingtung: Luliaohsi to Lanjenhsi, June 5, 1986, Su 7163 (HAST104618).

Eulophia brachycentra Hayata, Icon. Pl. Formosan. 4: 72, f.36a. 1914. **Type:** Taiwan: Taitung, Shinkogai [新港街] June [8], 1906, Z. Kobayashi s.n. (holotype TI, photo T00961 in PoT). ●台東芋蘭/短裂芋蘭

Eulophia bicallosa auct. non (D. Don) P.F. Hunt & Summerh.: Lin, Orch. Fl. Taiwan 537. 2019.

Eulophia dentata Ames, Philipp. J. Sci., C 6: 51. 1911 (March); Ormerod, Taiwania 48(2): 89. 2003; Lin, Orch. Fl. Taiwan 537, f.250. 2019. **Type:** Philippines: Luzon Isl. Jan. 1909, H.M. Curran 17035 (holotype AMES00099441; isotype K000078343). 紫芋蘭

Eulophia taiwanensis Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 333–334. 1911; Lin, Native Orch. Taiwan 3: 80, ph.39–40. 1987; Lin et al., Taiwania 61(2): 96. 2016. **Type:** Taiwan: Taito: Takai, Jan. 1906, T. Kawakami et G. Nakahara 684 (lectotype TI, photo T00964 in PoT, designated by Lin et al., Taiwania 61(2): 96. 2016); isosyntypes: Ako, Feb. 1906, T. Kawakami 1087 (TI-photo T00963 in PoT); T. Kawakami s.n. (K000078311).
Eulophia kitamurai Masam., J. Soc. Trop. Agric. 4(2): 192. 1932. *E. taiwanensis* var. *kitamurai* Masam. Bot. Mag. (Tokyo) 46(552): 803. 1932. *E. graminea* var. *kitamurae* (Masam.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 455. 1977. **Type:** Taiwan: Taitung, Tamari, Mar. 12, 1932, S. Kitamura s.n. not found.

Eulophia graminea Lindl., Gen. Sp. Orch. Pl. 182. 1833; Liu & Su, Fl. Taiwan 5: 993. 1978; Lin, Orch. Fl. Taiwan 538, f.251. 2019. **Type:** Singapore: 1822, *Wallichii* 7372 (holotype K001127245). 美冠蘭

Eulophia ramosa Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 332–333. 1911; Icon. Pl. Formosan. 4: 72, f.36b–h. 1914 (*non E. ramosa* Ridl. 1885); Masam., J. Geobot. 22(4): 13, f.208. 1975. **Type:** Taiwan: Nokoizan, Jan. 16, 1908, T. Kawakami et U. Mori 6281 (isotype TAIF6733).

Eulophia gusukumae Masam., Trans. Nat. Hist. Soc. Formosa 24(132): 208. 1934. **Type:** Ryukyu: Okinawa Isl.: Kunigami, Nago, July 13, 1933, *Gusukuma* s.n.

Eulophia picta (R.Br.) Ormerod, Checkl. Papuanian Orch.: 293. 2017; Naive et al., Phytotaxa 548(2): 288–294. 2022. *Cymbidium pictum* R. Br., Prodr. Fl. Nov. Holland.: 331. 1810. *Geodorum pictum* (R. Br.) Lindl., Gen. Sp. Orch. Pl. 175. 1833 *nom. illeg. non* Link & Otto (1821). **Type:** Australia: Northern Territory: Dec. 1802, R. Brown [Bennett No. 5507] (lectotype BM000525343, designated by Hallé, Fl. Nouv. Caledonie 8: 250. 1977 as ‘holotype’; isolectotype K000890997). 垂頭地寶蘭

Geodorum densiflorum (Lam.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 259. 1919; Lin, Native Orch. Taiwan 1: 164, ph.96, 97. 1975; Lin et al., Taiwania 61(2): 99, 2016; Lin, Orch. Fl. Taiwan 601, f.283. 2019 (*non Eulophia densiflora* Lindl. 1858); *Limodorum densiflorum* Lam., Encycl. 3: 516. 1792. **Type:** India, Kerala, Malabar coast H.A. van. Rheede tot Draakestein’s ‘Bela pola’ in Hort. Malab. 11: 69, t.35. 1692 (lectotype, designated by Seidenfaden 1983: 61).

Eulophia cernua (Wild.) T.C. Hsu in Hsu & Chung, Ill. Fl. Taiwan 2: 36. 2016. *Malaxis cernua* Willd., Sp. Pl. ed. 4, 4: 93. 1805. *nom. illeg.* *Otandra cernua* Salisb., Trans. Hort. Soc. London 1: 298. 1812, *not validly publ.* **Type:** India, Kerala, Malabar coast, H.A. van. Rheede tot Draakestein’s ‘Bela pola’ in Hort. Malab. 11: 69, t.35. 1692.

Geodorum semicristatum Lindl., Fol. Orch. 6: 2. 1855. **Type:** Philippines: *Cuming* s.n. Taiwan: Takow, Ape’s Hill. *Playfair* 96.

Geodorum formosanum Rolfé, Ann. Bot. (Oxford) 9(33): 157. 1895; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 92. 1896. **Type:** Taiwan: Takow, A. Henry 1137 (syntypes K000891008 & K000891006); South Cape, A. Henry 1375 (syntypes K000891006 & K000891007); syntypes: BM000525309, CAL, NY00008850; isosyntypes BM, L.

Eulophia pulchra (Thouars) Lindl., Gen. Sp. Orch. Pl. 182. 1833; Lin, Native Orch. Taiwan 3: 70, 79, ph.36, 37. 1987. *Limodorum pulchrum* Thouars, Hist. Orch. t.43. 1822. *Lissochilus pulcher* (Thouars) H. Perrier, Fl. Madag. 49(2): 41. 1941 *nom. illeg. non L. pulcher* Schltr. 1915. *Oeocloides pulchra* (Thouars) P.J. Cribb & M.A. Clem., Austr. Orch. Res. 1: 99. 1989; Lin, Orch. Fl. Taiwan 739, f.356-1. 2019. **Type:** Madagascar: 1816, D.P. Thouars 3 (isotype BM000525727). 大芋蘭

Eulophia macrostachya Lindl., Gen. Sp. Orch. Pl. 183. 1833; Fukuy., Bot. Mag. (Tokyo) 48: 304. 1934. **Type:** Sri Lanka: *Macrae* s.n. Taiwan: Hengchun, *Fukuyama* 3985, Jan. 1, 1932.

Eulophia pulchra var. **pelorica** (D.L. Jones & M.A. Clem.) T.P. Lin, Taiwania 61(2): 97. 2016. *Eulophia pelorica* D.L. Jones & M.A. Clem., Orchadian 14(8): Sci. Suppl. 9. 2004; Hsu & Chung, Taiwania 54(1): 82–87. 2009. *Oeocloides pelorica* (D.L. Jones & M.A. Clem.) T.C. Hsu, Ill. Fl. Taiwan 2: 152. 2016. *Oeocloides pulchra* var. *pelorica* (D.L. Jones & M.A. Clem.) Lin, Orch. Fl. Taiwan 742, f.356-2. 2019. **Type:** Australia: Adjacent to Rocky Claudie River Crossing, 40 m, May 14, 2003, B. Gray 9624 & D.L. Jones (holotype QRS). 輻射芋蘭



Eulophia pulchra var. *actinomorpha* W.M. Lin, Kuo. Huang & T.P. Lin, *Taiwania* 51(3): 163–164, f.2, 5B. 2006. **Type:** Taiwan: Pingtung, Beyishan, *Weimin Lin s.n.* (holotype TAI256485).

Eulophia segawae Fukuy., *Bot. Mag. (Tokyo)* 48(571): 437, f.1. 1934. **Type:** Taiwan: Taitoo, Riran-shichoo, Tokobanryo, Feb. 15, 1933, *K. Segawa s.n.* (holotype KPM-NA0105538, photo T00050 in PoT). ●瀨川氏芋蘭

Eulophia zollingeri (Rchb. f.) J.J. Sm., *Orch. Java*, 228. 1905; S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1: 456. 1977; Ormerod, *Taiwania* 49(2): 98. 2004; Lin, *Native Orch. Taiwan* 3: 82, ph.41–43. 1987 & *Orch. Fl. Taiwan* 541, f.252. 2019. *Cyrtopera zollingeri* Rchb. f., *Bonplandia (Hannover)* 5: 38. 1857. **Types:** Indonesia: Java, Lampung Province, Sept. 1845, *Zollinger s.n.* (synType W); Gebbok Klakka, Nov. 1844, *Zollinger 585* (synType W-Rchb. Orch. 0044978) (W-R indet. IDC microfiche 8802:132/37). 山芋蘭

Cyrtopera formosana Rolfe, *Bull. Misc. Inform. Kew* 1896(119): 198. 1896; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 92. 1896. *Eulophia formosana* (Rolfe) Rolfe, *J. Linn. Soc. Bot.* 36: 28. 1903. **Type:** Taiwan: South Cape, *A. Henry 1974* (holotype K000078314). *Eulophia ochobiensis* Hayata, *Icon. Pl. Formosan.* 6: 78. 1916. **Type:** Taiwan: Ochobi, May 13, 1916, *B. Hayata s.n.* not found.

Gastrochilus ciliaris Maek., *J. Jpn. Bot.* 12: 92. 1936; Chung & Leou, *Q. J. Exp. For. Natl. Taiwan Univ.* 7(1): 80, f.1, 2. 1993; Lin, *Orch. Fl. Taiwan* 543, f.253. 2019. *Saccolabium ciliare* (Maek.) Ohwi, *Bull. Natl. Sci. Mus. Tokyo n.s.*, 1(1): 1. 1954. **Type:** Japan: Kiusiu, Insula Yaku, Y. Doi anno 1935 (TI). 緣毛松蘭

Gastrochilus deltoglossus T.C. Hsu, S.I. Hsieh, J.H. Wu & H.C. Hung, *Taiwania* 63(4): 360–365, f.1–3. 2018. *G. ciliaris* auct. non Maek.: Lin, W.M., *Field Guide Wild Orch. Taiwan* 1: 164, f. 2006. **Type:** Taiwan: Nantou Co.: Renai Township, 2000–2500 m, June 8, 2018, *J.H. Wu 525* (holotype TCF; isotype TAIF, TNM). ●三角唇松蘭

Gastrochilus formosanus (Hayata) Hayata, *Icon. Pl. Formosan.* 4: Add. & Corr. 1914 & *Icon. Pl. Formosan.* 6(Suppl.): 78. 1917; Lin, *Native Orch. Taiwan* 3: 97, ph.52–54. 1987 & *Orch. Fl. Taiwan* 544, f.254. 2019. *Saccolabium formosanum* Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 336–337. 1911. **Type:** Taiwan: Alishan, Mar. [23], 1908, *T. Kawakami et U. Mori 3164* (holotype TI, photo T01206 in PoT; isotypes TAIF6744 & 6745; K000891614). 台灣松蘭

Gastrochilus nebulosus Fukuy., *Bot. Mag. (Tokyo)* 49(587): 762. 1935. **Type:** Taiwan: Taihoku, in *Sakakietis dorso montis Haro*, 1000 m, Mar. 20, 1935, *Suzuki-T. 4715*, not found.

Gastrochilus rupestris Fukuy., *Bot. Mag. (Tokyo)* 49(587): 763. 1935. **Type:** Taiwan: Sintiku, Rito-san [季棟山], 1500 m, Jan. 7, 1932, *N. Fukuyama 4716* (holotype KPM-NA0105541, photo T00052 in PoT).

Gastrochilus quercetorum Fukuy., *Bot. Mag. (Tokyo)* 50(589): 16. 1936. **Type:** Taiwan: Takao, Naihonroku-goe, in *Quercetis prope Hudieda* [藤枝], 1500 m, Oct. 24, 1934, *N. Fukuyama 4720* (holotype KPM-NA0105539, photo T00062 in PoT; isotype KPM-NA0105540, photo T00051 in PoT).

Saccolabium shaoyaoi S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 310. 1977. *Gastrochilus formosanus* var. *shaoyaoi* (S.S. Ying) S.S. Ying, *Coloured Ill. Orch. Taiwan* 2: 522. 1990. **Type:** Taiwan: Yilan, Taipingshan [太平山], Sept. 30, 1973, *S.S. Ying 2165* (NTUF).

Gastrochilus shaolinianus S.S. Ying, *New Taxa New Names* 6: 497–502. 2023. **syn. nov.** **Type:** Taiwan: Miaoli, Taian, Guanwu 2180 m, *S.S. Ying s.n.* Mar. 30, 2023 (holotype, NTUF).

Gastrochilus loshanensis S.S. Ying, *New Taxa New Names* 7: 522–527. 2024. **syn. nov.** **Type:** Taiwan: Miaoli Co., Guanwu, Loshan Forest Road, 2340 m, Mar. 14, 2024, *S.S. Ying s.n.* (holotype TPRCH).

Gastrochilus rotundifolius S.S. Ying, *New Taxa New Names* 7: 528–533. 2024. **syn. nov.** **Type:** Taiwan: Miaoli Co., Guanwu, Talu Forest Road, 2440 m, Mar. 14, 2024, *S.S. Ying s.n.* (holotype TPRCH).

Gastrochilus fuscopunctatus (Hayata) Hayata, *Icon. Pl. Formosan.* 6(Suppl.): 78. 1917; Lin, *Native Orch. Taiwan* 3: 100, ph.55–57. 1987 & *Orch. Fl. Taiwan* 545, f.255. 2019. *Saccolabium fuscopunctatum* Hayata, *Icon. Pl. Formosan.* 2: 143. 1912. *Gastrochilus fuscopunctatus* (Hayata) Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 288. 1919. **Type:** Taiwan: Alisan, Jan. 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T01207 in PoT, line drawing on the label). 紅斑松蘭

Gastrochilus integriellus S.S. Ying, *New Taxa New Names* 7: 534–539. 2024. **syn. nov.** **Type:** Taiwan: Miaoli Co., Guanwu, 2140 m, Apr. 30, 2024, *S.S. Ying s.n.* (holotype TPRCH).

Gastrochilus ×shuehshanensis T.P. Lin & S.K. Yu, *Taiwania* 64(4): 343, f.1A–F, 5. 2019. **Type:** Taiwan: Taichung City, 1800 m, Mar. 12, 2019, *S.K. Yu s.n.* (holotype TAI288270). ●雪山松蘭

Gastrochilus japonicus (Makino) Schltr., *Repert. Spec. Nov. Regni Veg.* 12: 315. 1913; Su, *Native Orch. Taiwan* 1975; Lin, *Orch. Fl. Taiwan* 549, f.257. 2019. *Saccolabium japonicum* Makino, *Ill. Fl. Jpn.* 1(7): 3. 1891. **Type:** Japan: Mt. Honokawa, Yoshinaga, *Makino s.n.*; Nanokawa, *Watanabe s.n.* (MAK). 黃松蘭

Saccolabium somai Hayata, *Icon. Pl. Formosan.* 4: 93–94. 1914. *Gastrochilus somae* (Hayata) Hayata, *Icon. Pl. Formosan.* 6(Suppl.): 79. 1917; Masam., *J. Geobot.* 22(2): 5, f.202. 1974. **Type:** Taiwan: Pinansha [卑南社], Mar. 1913, *T. Soma s.n.* (holotype TI, photo T01190 in PoT).



Saccolabium taiwanianum S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 311. 1977. **Type:** Taiwan: Urai, May 30, 1976, S.S. Ying 2130 (holotype NTUF, photo F00008221 in PoT).

Gastrochilus matsudae Hayata, Icon. Pl. Formosan. 9: 116, pl.40. 1920; Lin, Native Orch. Taiwan 3: 107, (f.). 1987 & Orch. Fl. Taiwan 552, f.258-1. 2019. *Saccolabium matsudae* (Hayata) Makino & Nemoto, Fl. Jpn., ed. 2: 1674. 1931. **Type:** Taiwan: Daibusan, Nov. 20, 1918, Y. Matsuda s.n. (holotype TI, photo T01205 in PoT; isotype TAI 032825). ● 寬唇松蘭

Gastrochilus matsudae var. **hoi** (T.P. Lin) T.C. Hsu, Ill. Fl. Taiwan 2: 42. 2016; Lin, Orch. Fl. Taiwan 552, f.258-2-1, 258-2-2. 2019. *G. hoi* T.P. Lin, Native Orch. Taiwan 3: 103. 1987; Lin *et al.*, Taiwania 61(2): 98. 2016. **Type:** Taiwan: Nanhutashan, Jan. 5, 1979, T.P. Lin 434 (holotype TAIF). ● 何氏松蘭

Gastrochilus linitii Ormerod, Taiwania 47(4): 242. 2002. *Gastrochilus flavus* T.P. Lin, Native Orch. Taiwan 3: 95. 1987, *non* (Hook. f.) Kuntze 1891. **Type:** Taiwan: Nantou, Wang Hsiang [望鄉], 2300 m, May. 15, 1978, Y.P. Young s.n. (TAIF).

Gastrochilus guanwuensis S.S. Ying, New Taxa New Names 6: 503–508. 2023. **Type:** Taiwan: Miaoli, Taian, Guanwu [觀霧], 2180 m, S.S. Ying s.n. Sept. 21, 2023 (holotype, NTUF). **syn. nov.**

Gastrochilus rantabunensis C. Chow, ex T.P. Lin, Native Orch. Taiwan 3: 109, ph.61, 62. 1987 & Orch. Fl. Taiwan 556, f.259. 2019. *Gastrochilus rantabunensis* C. Chow, Formosan Orch. 61. 1968. **nom. nud.** **Type:** Taiwan: Taichung, Piluchi [碧綠溪], Jan. 17, 1979, Lin 433 (holotype TAIF). 合歡松蘭

Gastrochilus raraensis Fukuy., Bot. Mag. (Tokyo) 48(571): 441. 1934; Lin, Native Orch. Taiwan 3: 119, ph.63–64. 1987 & Orch. Fl. Taiwan 556, f.260. 2019. *Saccolabium raraense* (Fukuy.) S.S. Ying, Bull. Exp. For. Natl. Taiwan Univ. 114: 154. 1974. *S. raraense* (Fukuy.) S.Y. Hu, Q. J. Taiwan Mus. 26: 395. 1973. **Type:** Taiwan: Taihoku, Rarasan 2000 m, Oct. 1933, N. Fukuyama 4138. ● 紅檜松蘭

Gastrochilus yehii S.I. Hsieh, C.T. Lee & J.H. Wu, Phytotaxa 587(1): 9. 2023. **Type:** Taiwan: Nantou Co., Renai Township, 2000–2500 m, Sept. 20, 2021, J.H. Wu 538 (holotype PPI, isotype TCF). ● 葉氏松蘭

Gastrodia albida T.C. Hsu & C.M. Kuo, Ann. Bot. Fenn. 48: 272–274. 2011; Hsu, in Taxonomy of *Gastrodia* (Orchidaceae) in Taiwan. p.84 f.5.1, 5.2. Master thesis, Natl. Taiwan Univ. 2008 **nom. nud.**; Lin, Orch. Fl. Taiwan 560, f.261. 2019. **Type:** Taiwan: Taipei, Wulai, Pataoerhshan, 800 m, June 12, 2007, T.C. Hsu 838 (holotype TAI, isotype TAIF440365); Pataoerhshan, T.C. Hsu 530 (paratypes TAI, TAIF); Yun Hsien Holiday Resort, T.C. Hsu 877 & 1421 (paratypes TAIF). 白赤箭

Gastrodia appendiculata C.S. Leou & N.J. Chung, Q. J. Exp. For. Natl. Taiwan Univ. 5(4): 138, f.2. 1991; Lin, Orch. Fl. Taiwan 560, f.262. 2019. **Type:** Taiwan: Nantou, Chitou, 1200 m, C.S. Leou & N.J. Chung 4178 (holotype NTUF), not found. ● 無蕊喙赤箭

Gastrodia callosa J.J. Sm., Repert. Spec. Nov. Regni Veg. 29: 248. 1931; Hsu & Kuo, Taiwania 55(3): 245, f.3. 2010; Lin, Orch. Fl. Taiwan 561, f.263. 2019. **Type:** Java: Bogor, Oct. 17, 1927, Leeuwen 11567. Taiwan: Taitung, Lanyu, Tienchih, 150 m, June 29, 2008, T.C. Hsu 1429 (TAIF 300335). 緋赤箭

Gastrodia clausa T.C. Hsu, S.W. Chung & C.M. Kuo, Taiwania, 57(3): 271, f.1A–D, 2. 2012; Lin, Orch. Fl. Taiwan 565, f.264. 2019. **Type:** Taiwan: New Taipei City: Sanchih, Peihsinchuang (北新莊), 400 m, Mar. 24, 2008, T.C. Hsu 1299 (TAI). 閉花赤箭

Gastrodia qingyunshanensis J.X. Huang, H. Xu et H.J. Yang in S. Shi *et al.*, Phytotaxa 483 (2): 177–182, f. 2021. **Type:** China: Guangdong: Shaoguan City, Wengyuan Co., Qingyunshan, Mar. 21, 2019, H.J. Yang & J.X. Huang QYS20190321015 (holotype CANT, isotype CANT). **syn. nov.**

Gastrodia confusa Honda & Tuyama, J. Jpn. Bot. 15: 659. 1939; Leou & Chung, Q. J. Exp. For. Natl. Taiwan Univ. 6(1): 65, f.1, 2. 1992; Lin *et al.*, Taiwania 61(2): 98. 2016; Lin, Orch. Fl. Taiwan 565, f.265. 2019. **Type:** Japan: Kii, Hidaka-gun oppido Yukawa-nura, Maruyama, Oct. 6, 1938, T. Sibaguti s.n. Taiwan: Shenmu Village, 1300 m, C.S. Leou 4172, 4175, 4195. 八代赤箭

Gastrodia leoui T.C. Hsu & C.M. Kuo, Taxonomy of *Gastrodia* (Orchidaceae) in Taiwan. 125, f.5.18, 5.19. Master thesis, Natl. Taiwan Univ. 2008, **nom. invalid.**; Hsu, Ill. Fl. Taiwan 2: 57. 2016.



- Gastrodia confusoides** T.C. Hsu, S.W. Chung & C.M. Kuo, *Taiwania* 57(3): 273, f.1E–H, 3. 2012; Hsu, Taxonomy of *Gastrodia* (Orchidaceae) in Taiwan 100, f.5.8, 5.9. Master thesis, Natl. Taiwan Univ. 2008 *nom. nud.*; Lin *et al.*, *Taiwania* 61(2): 98. 2016; Lin, *Orch. Fl. Taiwan* 566, f.266. 2019. **Type:** Taiwan: Taichung, Tahsuehshan 15–16k, 1000 m, Sept. 14, 2007, *T. C. Hsu 966* (holotype TAI; isotype TAI 440366). ●擬八代赤箭
Gastrodia taitungensis T.C. Hsu & C.M. Kuo, Taxonomy of *Gastrodia* (Orchidaceae) in Taiwan 151, f.5.29, 5.30. Master thesis, Natl. Taiwan Univ. 2008. *nom. invalid.* *G. confusoides* var. *taitungensis* T.C. Hsu & C.M. Kuo, T.C. Hsu in *Ill. Fl. Taiwan* 2: 51. 2016. **Type:** Taiwan: Taitung: Mt. Tulan, 700–1000 m, Sept. 23, 2010, *T.C. Hsu 3214* (TAIF496962).
- Gastrodia elata** Blume, *Mus. Bot.* 2: 174. 1856; Tuyama, *J. Jpn. Bot.* 41(11): 339. 1966; Liu & Su, *Fl. Taiwan* 5: 1003. 1978; Lin, *Ill. Native Taiwan. Orch.* 470, f.287. 2022. **Type:** Japan: *H. Burger s.n.* (holotype L0061308). One specimen in Herb. H.G. Reichenbach no. 17858 with illustration. 高赤箭
Gastrodia elata f. *pilifera* Tuyama, *J. Jpn. Bot.* 17(10): 582. 1941. **Type:** Taiwan: Niitaka, Bokuro. July 19. 1935, *K. Segawa s.n.*
- Gastrodia flavilabella** S.S. Ying, *Q. J. Chin. For.* 17(4): 83. 1984; Lin, *Orch. Fl. Taiwan* 567, f.268. 2019. **Type:** Taiwan: Nantou, Chitou, 1265 m, July 29, 1984, *S.S. Ying s.n.* (holotype NTUF, photo F00000328 in PoT; isotypes NTUF, photos F00017989 & F00017900). 夏赤箭
- Gastrodia flexistyla** T.C. Hsu & C.M. Kuo, *Taiwania* 55(3): 243–244, f.1. 2010; Hsu, Taxonomy of *Gastrodia* (Orchidaceae) in Taiwan 111, f.5.13, 5.14. Master thesis, Natl. Taiwan Univ. 2008 *nom. nud.*; Lin, *Orch. Fl. Taiwan* 575, f.269. 2019. **Type:** Taiwan: Taipei, Beitou, Chongchengshan, 700–800 m, Mar. 24, 2008, *T.C. Hsu 1300* (holotype TAI; isotype TAI 440367). 摺柱赤箭
Gastrodia flexistyloloides Suetsugu, *Phytotaxa* 175(5): 270–274, f.1, 2. 2014. **Type:** Japan: Kyushu, Kagoshima Pref., Takashima Isl., Mar. 25, 2014, *K. Suetsugu s.n.* (holotype KYO; isotype TNS).
- Gastrodia fontinalis** T.P. Lin, *Native Orch. Taiwan* 3: 129–130, (f.). 1987 & *Orch. Fl. Taiwan* 575, f.270. 2019; Suetsugu *et al.*, *Taiwania* 59(4): 383–386, f.1. 2014. **Type:** Taiwan: Taipei: Pataoerhshan, Feb. 25, 1979, *Lin 435* (holotype TAI 440367). 春赤箭
Gastrodia fontinalis var. *suburceolata* T.C. Hsu, *Ill. Fl. Taiwan* 2: 55. 2016. **Type:** Taiwan: Hualien, Tatong Village, 900–1100 m, Apr. 4, 2011, *T.C. Hsu 3800* (holotype TAI 496967).
- Gastrodia gracilis** Blume, *Mus. Bot.* 2: 174. 1856; Tuyama, *J. Jpn. Bot.* 31(3): 77, f.1, 6A, B. 1956 & 41(11): 339. 1966; Liu & Su, *Fl. Taiwan* 5: 1003. 1978; Lin, *Orch. Fl. Taiwan* 576, f.271. 2022. **Type:** Japan: *Textor #s.n.* (L0061309). 山赤箭
Gastrodia dioscoreirhiza Hayata, *Icon. Pl. Formosan.* 6: 93. 1916; Tuyama, *J. Jpn. Bot.* 17(10): 583, f.3, 1942; 31(3): f.2c. 1956; Lin, *Native Orch. Taiwan* 3: 124, f. 1987. **Type:** Taiwan: Girancho: Soseikyaku [雙生腳] May 12, 1916, *B. Hayata s.n.* (holotype TI, photo T00971 in PoT; isotype TAI 6749).
Gastrodia taiwaniana Fukuy., *Bot. Mag. (Tokyo)* 48(569): 299. 1934.; Masam., *J. Geobot.* 25(3): 11, f.243. 1977. **Type:** Taiwan: Shinchiku, Minami-sooten-zan [南插天山] prope Kappan-zan, 2000 ped. May 24, 1933, *N. Fukuyama 3976*. not found.
- Gastrodia javanica** (Blume) Lindl., *Gen. Sp. Orch. Pl.* 384. 1840; Garay & Sweet, *Orchids S. Ryukyu Islands*, 1974; Liu & Su, *Fl. Taiwan* 5: 1004, 1978; Lin, *Native Orch. Taiwan* 3: 134, ph.78–79. 1987; Lin, *Orch. Fl. Taiwan* 560, f.262. 2019. *Epiphanes javanica* Blume, *Bijdr. Fl. Ned. Ind.* 8: 421. f.4. 1825. **Type:** Java: Jawa Barat, Salak, Seribu, in humid forest, unknown collector (holotype L0061310). 黃赤箭/爪哇赤箭
Gastrodia stapfii Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 347–348. 1911; T. Tuyama, *J. Jpn. Bot.* 17(10): 579–586. 1941; Masam., *J. Geobot.* 16(4): 29, pl.142. 1968; Lin, *Orch. Fl. Taiwan* 280, f.593. 2019. **Type:** Ryukyus: Yaeyama, Jun. 1891, *S. Tanaka s.n.*
Gastrodia lutea Fukuy., *Bot. Mag. (Tokyo)* 49(586): 666. 1935. **Type:** Taiwan: Kotosyo, Mt. Omori-yama [大森山 (望南峰)], July 3, 1934, *N. Fukuyama 4681* (holotype KPM-NA0105542 without Fukuyama's no., photo T00053 in PoT).
- Gastrodia kaohsiungensis** T.P. Lin, *Taiwania* 63(4): 321–326, f.1, 2A, B. 2018. **Types:** Taiwan: Kaohsiung City, June 26, 2018, 210 m, *K.H. Wang s.n.* (holo: TAI287423); Kaohsiung City, June 24, 2018, 210 m, *F.M. Hsieh and C.H. Liu s.n.* (paratype TAI287424) ●高雄赤箭
- Gastrodia leucochila** T.C. Hsu & Z.H. Chen, *Ill. Fl. Taiwan* 2: 58. 2016; Lin, *Orch. Fl. Taiwan* 581, f.273. 2019. **Type:** Pingtung: Shouka, 300 m, Nov. 6, 2012, *T.C. Hsu 6093* (holotype TAI 496963). ●白唇赤箭
- Gastrodia nantoensis** T.C. Hsu & C.M. Kuo ex T.P. Lin, *Taiwania* 61(2): 99. 2016; Hsu, Taxonomy of *Gastrodia* (Orchidaceae) in Taiwan 130, f.5.20, 5.21. Master thesis, Natl. Taiwan Univ. 2008. *nom. invalid.*; Lin, *Orch. Fl. Taiwan* 584, f.274. 2019. **Type:** Nantou: Wenkeng, 900 m, Sept. 7, 2006, *T.C. Hsu 579* (holotype TAI 496960). ●南投赤箭



Gastrodia nipponica (Honda) Tuyama, Bot. Mag. (Tokyo) 53: 4. 1939; Hsu, Taxonomy of *Gastrodia* (Orchidaceae) in Taiwan 134, f.5.22, 5.23. Master thesis, Natl. Taiwan Univ. 2008; Hsu & Kuo, *Taiwania* 55(3): 243–248, f. 2010; Lin, Orch. Fl. Taiwan 584, f.275. 2019. *Didymoplexis nipponica* Honda, Bot. Mag. (Tokyo) 46(544): 168. 1932. **Type**: Japan: Hondo: Iwada, Kii, *K. Kashtyama no. 1*, anno 1929; *K. Kashtyama no. 2*, anno 1931 (holotype TI). Taiwan: Taipei: Wulai, Dadaoshan, 500–600 m, *T.C. Hsu 732, 1319* (TAIF). 日本赤箭

Gastrodia peichatieniana S.S. Ying, Coloured Ill. Fl. Taiwan 2: 690. 1987; Lin, Orch. Fl. Taiwan 585, f.276. 2019. **Type**: Taiwan: Peichatienshan, 1100 m, Oct. 10, 1985, *S.S. Ying s.n.* (holotype NTUF, photo F00000311 in PoT). 北插天赤箭/秋赤箭

Gastrodia autumnalis T.P. Lin, Native Orch. Taiwan 3: 122–123. 1987. **Type**: Taiwan: Taipei, Mt. Tatung [大桶山], Oct. 10, 1976, *Lin 392* (TAIF).

Gastrodia pubilabiata Y. Sawa, Res. Rep. Kôchi Univ., 2, Nat. Sci. 29: 65. 1980; Leou, Fl. Taiwan 5: 896. 2000; Kobayashi & Yukawa, Acta Phytotax. Geobot. 52 (1): 49–55. 2001; Lin, Orch. Fl. Taiwan 589, f.277. 2019. **Type**: Japan: Kochi Prefecture, Nankoku City, Mt. Mukoyama, alt. ca. 20 m, Oct. 30, 1979, *Y. Sawa O-135* (holotype MBK-0017859; isotype KYO, KOCH). Japan: Kochi Prefecture, Nankoku City, Mt. Mukoyama, Sept. 29, 1984, *Y. Sawa 3092* (epitype MBK with flowers, designated by Suetsugu *et al.* Phytotaxa 347 (2): 193–196. 2018). 冬赤箭

Gastrodia hiemalis T.P. Lin, Native Orch. Taiwan 3: 131. 1987. **Type**: Taiwan: Taipei, Pataoerhshan, Dec. 26, 1980, *Lin 600* (TAIF).

Gastrodia rubinea T.P. Lin, *Taiwania* 64(1): 43, f.1, 3A–D. 2019. **Type**: Taiwan: Nantou Co., Zhongliao Township, 300 m, June 7, 2018, *P.N. Shen s.n.* (holotype TAI287421). ●紅寶石赤箭

Gastrodia shimizuana Tuyama, Acta Phytotax. Geobot. 33: 380–382. 1982; Chung & Hsu, *Taiwania* 51(1): 50–52, f.1, 2. 2006; Lin, Orch. Fl. Taiwan 592, f.279. 2019. **Type**: Ryukyus: Isl. Iriomote, Feb. 15, 1981, *D. Shimizu* [清水大典] *s.n.* (holotype TI). Taiwan: Taipei: Sanzhi, Beixinzhuang, 300–350 m, Mar. 23, 2005, *S.W. Chung & T.C. Hsu 8006* (TAIF). 清水氏赤箭

Gastrodia sui C.S. Leou, T.C. Hsu & C.L. Yeh, Nordic J. Bot. 29: 417, f. 2011. **Type**: Taiwan: Pingtung, Mt. Lilung, 500–700 m, June 13, 2010, *C. R. Yeh 2259* (holotype TAIF). ●蘇氏赤箭

Gastrodia theana Aver., Rheedeae 15(2): 90, f.6, 8c–e. 2005 & Turczaninowia 14(2): 70, f.34. 2011; Hsieh *et al.*, *Taiwania* 57(4): 399–402, (f.). 2012; Lin, Orch. Fl. Taiwan 597, f.281. 2019. **Type**: Vietnam: Nam Dong, Huong Son, 300–400 m, Mar. 31, 2005, *A. Averyanova, NT Vinh, HAL 7165* (holotype HN; isotype LE). 短柱赤箭

Gastrodia uraiensis T.C. Hsu & C.M. Kuo, *Taiwania* 55(3): 244–245, f.2. 2010; T.C. Hsu, Taxonomy of *Gastrodia* (Orchidaceae) in Taiwan 155, f.5.31, 5.32. Master thesis, Natl. Taiwan Univ. 2008 *nom. nud.*; Lin, Orch. Fl. Taiwan 600, f.282. 2019. **Type**: Taiwan: Taipei, Wulai, 400 m, Feb 15, 2007, *T.C. Hsu 715* (holotype TAI; isotype TAI440364). 烏來赤箭

Goodyera biflora (Lindl.) Hook. f., Fl. Br. India 6: 114. 1894; Lin, Native Orch. Taiwan 1: 166, p.98. 1975; Lin, Orch. Fl. Taiwan 143, f.55. 2019. *Georchis biflora* Lindl., Gen. Sp. Orch. Pl. 496. 1840. **Type**: Nepal: *Wall. Number. List 7379* (holotype K000364600; isotype K001127259). 長花斑葉蘭

Goodyera macrantha Maxim., Gartenflora 16: 35. 1867; Liu & Su, Q. J. Taiwan Mus. 26(3–4): 443, f.1. 1973. *Peranium macranthum* (Maxim.) Makino, J. Jpn. Bot. 6: 35. 1929. *Goodyera biflora* var. *macrantha* (Maxim.) T. Hashim., Proc. World Orch. Conf. 12: 122. 1987.

Type: Japan: Yokohama, cult. Yedo, Aug. 6–18, 1862, *C. J. Maximowicz s.n.* (lectotype? LE); Korea: *Oldham s.n.* Taiwan: Ilan, Taipingsan, Feb. 15, 1972, *T.P. Lin 26* (TAIF154652).

Goodyera brachystegia Hand.-Mazz., Symb. Sin. 7: 1345. 1936; Liu *et al.*, Phytotaxa 395(1): 28, f.1. 2019; Lin, Orch. Fl. Taiwan 143, f.55. 2019. **Type**: China: Yunnan: Yunnanfu, 1915–1916, *S. Schoch, s.n.* [1915] (holotype WU0061596); China: Yunnan, 2000 m, June 9, 1917, *Handel-Mazzetti, H.R.E. von, 10156* (1914–1918) (paratype WU0061597). 波密斑葉蘭

Goodyera bomiensis K.Y. Lang, Acta. Phytotax. Sin. 16(4): 128, f.3. 1978; Chung & Hsu, *Taiwania* 54(2): 175–177, f.1, 2. 2009; Lin *et al.*, *Taiwania* 61(2): 100. 2016. **Type**: China: Tibet, Tangmai, 2000 m, July 22, 1965, *Y.T. Chang & K.Y. Lang 858* (holotype PE00805756)

Goodyera rosulacea Y.N. Lee, Bull. Korea Pl. Res. 4: 2. 2004. **Type**: S. Korea: Mt. Dobong, June 18, 2002, *Y.N. Lee & Y.S. Kim s.n.* (holotype Korea Plant Research Institute).



Goodyera daibuzanensis Yamam., J. Soc. Trop. Agric. 4(3): 305. 1932; Lin, Native Orch. Taiwan 1: 170, ph.101–102. 1975 & Orch. Fl. Taiwan 136, f.51. 2019. **Type:** Taiwan: Daibushan, Nov. [20], 1918, *E. Matsuda 123* (holotype TAI118721). 大武斑葉蘭

Goodyera foliosa (Lindl.) Benth. ex C.B. Clarke, J. Linn. Soc., Bot. 25: 73. 1889; Lin, Orch. Fl. Taiwan 143, f.55. 2019. *Georchis foliosa* Lindl., Gen. Sp. Orch. Pl. 496. 1840. *Goodyera foliosa* (Lindl.) Hook. f., Fl. Br. Ind. 6: 113. 1890; Lin, Native Orch. Taiwan 1: 172, ph.103–106. 1975; Seidenf., Dansk Bot. Ark. 32(2): 29. f.12. 1978. **Type:** Myanmar (Burma): *Griffith s.n.* (holotype K000364606). 高嶺斑葉蘭

Goodyera pachyglossa Hayata, Icon. Pl. Formosan. 4: 117. 1914. *Peramium pachyglossum* (Hayata) Makino, J. Jpn. Bot. 6: 36. 1929. **Type:** Taiwan: Rinkihō, 5000 ped., Aug. 1911, *H. Inaba s.n.* (holotype TI, photo T00980 in PoT).

Goodyera commelinoides Fukuy., Trans. Nat. Hist. Soc. Formosa 32: 298. 1942. *G. maximowicziana* var. *commelinoides* (Fukuy.) Masam., Sci. Rep. Kanazawa Univ., Biol. 9: 127. 1964. *G. maximowicziana* f. *commelinoides* (Fukuy.) M. Hiroe, Orch. Flowers 2: 70. 1971. **Type:** Japan: Ryukyu: Mt. Taniu-take, Sept. 4, 1938, *Fukuyama 7226* (holotype); *T. Kanashiro 1043* (paratype).

Goodyera chilanensis S.S. Ying, Coloured Ill. Fl. Taiwan 5: 592–593, pl.85. 1992. **Type:** Taiwan: Yilan, Chilanshan, *S.S. Ying 9618* (holotype NTUF, photo F00000142 in PoT); paratypes Yilan: Taipingshan, *Ying 9230, 9519*, NTUF.

Goodyera foliosa var. *taoana* T.C. Hsu, Ill. Fl. Taiwan 2: 70. 2016. **Type:** Taitung: Lanyu, Hungtoushan, Nov. 12, 2006, *T.C. Hsu 663* (holotype TAIIF).

Goodyera foliosa var. **maximowicziana** (Makino) S.S. Ying, Coloured Ill. Orch. Taiwan 2: 535. 1990; Lin, Ill. Native Taiwan Orch. 162. 2023; Yu, Orchids Taiwan: A Field Guide 352, ph. 2024. *G. maximowicziana* Makino, Bot. Mag. (Tokyo) 23: 37. 1909. *Peramium maximowiczianum* (Makino) Makino, J. Jpn. Bot. 6: 36. 1929. **Type:** Japan: Tosa, T, *Makino s.n.* 短高嶺斑葉蘭

Goodyera fumata Thwaites, Enum. Pl. Zeyl. 314. 1864; Seidenf., Dansk Bot. Tidsskrift 65: 108. 1969 & Dansk Bot. Ark. 32(2): 31, f.7. 1978; Nackej., Biol. Mag. (Okinawa) 8: 80. 1971; Garay & Sweet, Orch. S. Ryukyu Isl. 66, f.41. 1974; Liu & Su, Fl. Taiwan 5: 1010. 1978; Lin, Orch. Fl. Taiwan 137, f.53. 2019. *Salacistis fumata* (Thwaites) T.C. Hsu in Chung & Hsu, Ill. Fl. Taiwan 2: 184. 2016. **Type:** Sri Lanka: Central Province. *Ceylon Plant no. 3668* (holotype K000387610). 尾唇斑葉蘭

Goodyera formosana Rolfe, Ann. Bot. (Oxford) 9(33): 159. 1895; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 93. 1896. *Peramium formosanum* (Rolfe) Makino, J. Jpn. Bot. 6: 35. 1929. **Type:** Taiwan: Bankinsing, *A. Henry 409* (holotype K000079090; isotype NY8856).

Goodyera caudatilabella Hayata, Icon. Pl. Formosan. 4: 112. 1914. **Type:** Ryukyu: Okinawa, Mar. 1887, *Y. Tashiro s.n.*

Goodyera cyrtoglossa Hayata, Icon. Pl. Formosan. 4: 113, f.60. 1914; Masam., J. Geobot. 18(2): 10, pl.161. 1970. *Peramium cyrtoglossum* (Hayata) Makino, J. Jpn. Bot. 6: 35. 1929. **Type:** Taiwan: Kappanzan, Mar. 1910, *U. Mori et Y. Shimada s.n.*, not found.

Goodyera hachijoensis Yatabe var. **matsumurana** (Schltr.) Ohwi, Fl. Jpn., ed. Rev.: 1438. 1965; Lin, Orch. Fl. Taiwan 143, f.54. 2019. *G. matsumurana* Schltr., Bull. Herb. Boissier Sér. 2, 6(4): 298. 1906; Matsum. & Hayata, J. Coll. Sci. Univ. Tokyo 22: 417. 1906; Lin, Native Orch. Taiwan 1: 174, ph.107, 108. 1975. *Peramium matsumuranum* (Schltr.) Makino, J. Jpn. Bot. 6: 35. 1929. **Type:** Ryukyu: Insel Oshima, Dec. 1900, *T. Utsiyama s.n.* (B, destr., Lectotype in TI). 假金線蓮/銀線蓮

Goodyera alboreticulata Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 342–343. 1911; Masam., J. Geobot. 24(4): 13, f.232. 1977. *Peramium alboreticulatum* (Hayata) Makino, J. Jpn. Bot. 6: 34. 1929. **Type:** Taiwan: Taito, Botansha, Jan. 1906, *T. Kawakami et G. Nakahara s.n.* (holotype TI, photo T00972 in PoT).

Goodyera hachijoensis var. *yakushimensis* (Nakai) Ohwi, Bull. Natl. Sci. Mus. Tokyo 33: 69. 1953. *G. yakushimensis* Nakai, Bot. Mag. (Tokyo) 37(433): 8–9. 1923. *Peramium yakushimense* (Nakai) Makino, J. Jpn. Bot. 6: 37. 1929. **Type:** Japan: Ins. Yakushima, Oct. *A. Kimura s.n.* (?).

Goodyera henryi Rolfe, Bull. Misc. Inform. Kew 1896: 201. 1896; K. Lang et al., Fl. Reipvsl. Popul. Sin. 17: 143, f.19, 5–7. 1999; Lin, Orch. Fl. Taiwan 143, f.55. 2019. **Type:** China: Hupeh, Ichang, Mar. 1885–1888, *A. Henry 6878* (lectotype K000079089 was designated by P.G. Efimov (2021); isolectotypes K000079088, GH00090579, NY8857). 童山白蘭/短穗斑葉蘭

Goodyera maximowicziana auct. non Makino: T.P. Lin, Native Orch. Taiwan 1: 176, ph.109. 1975.

Goodyera longirostrata Hayata, Icon. Pl. Formosan. 4: 115, f.61i, j. 1914. *Peramium longirostratum* (Hayata) Makino, J. Jpn. Bot. 6: 35. 1929. *Eucosia longirostrata* (Hayata) T.C. Hsu in Chung & Hsu, Ill. Fl. Taiwan 2: 35. 2016; Suetsugu & Hsu, Phytotaxa 520(2): 215–224. 2021. **Type:** Taiwan: Akocho, Buisan (Wuweishan), 7000 ped., [Mar. 24, 1910], *T. Kawakami & S. Sasaki s.n.* (holotype TI, photo T00978 in PoT). 歌綠懷蘭

Goodyera seikoomontana Yamam., J. Soc. Trop. Agric. 4(2): 187. 1932; Lin et al., Taiwaniana 61(2): 101. 2016; Lin, Orch. Fl. Taiwan 159, f.64. 2019.

Eucosia seikoomontana (Yamam.) M.C. Pace, Brittonia 72: 263. 2020. *G. viridiflora* var. *seikomontana* (Yamam.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 198. 1977. **Type:** Taiwan: Taitung, Mt. Seikoo [成廣澳山], 4000 ped. July 1931, *Yamamoto s.n.* (holotype TAI118722).

Goodyera youngsayei Hu & Barretto, Chung Chi J. 13(2): 10. 1976. **Type:** China. Hong Kong: Pat Sin Range, Mar. 12. 1975, *G. Barretto 107* (holotype: K000942761; isotype: AMES00074539).



Goodyera maculata T.P. Lin, *Taiwania* 66(2): 353–359, f.1, 2A–C. 2021. *G. schlechtendaliana* auct. non Rchb. f.: Lin, *Native Orch. Taiwan* 1: 186, ph.115. 1975. **Type:** Taiwan: Nantou Co., Piluchi, 2400 m, Sept. 3, 2018, *P.N. Shen s.n.* (TAI288180). ●高山斑葉蘭

Goodyera nankoensis Fukuy., *Bot. Mag. (Tokyo)* 48(571): 432. 1934; Lin, *Native Orch. Taiwan* 1: 178, ph.110. 1975 & *Orch. Fl. Taiwan* 148, f.57. 2019. **Type:** Taiwan: Nankotaizan, inter Kiritto et Bunakkei. July 1933, *N. Fukuyama 4125*. 南湖斑葉蘭

Goodyera nantoensis Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 343–344. 1911; Lin, *Orch. Fl. Taiwan* 148, f.58–1. 2019. *Peramium nantoense* (Hayata) Makino, *J. Jpn. Bot.* 6: 36. 1929. **Type:** Taiwan: Toyen: Yuhonsha [有木社], Mar. 1907, *T. Kawakami et U. Mori 5932* (lectotype TAI6757 designated by T.P. Lin *et al.* 2016); Horisha, Hinokiyama, Feb. 1907, *G. Nakahara s.n.* (isosytype TI, photo T00979 in PoT; K000942764). 袖珍斑葉蘭/阿里山斑葉蘭

Goodyera nantoensis f. *arisanense* (Hayata) Lin, *Orch. Fl. Taiwan* 151, f.58-2. 2019. *G. arisanensis* Hayata, *Icon. Pl. Formosan.* 6: 91–92. 1916; Leou, *Fl. Taiwan* 5: 899, pl.382. 2000; Aver., *Turczaninowia* 11(1): 126. 2008. *Peramium arisanense* (Hayata) Makino, *J. Jpn. Bot.* 6: 34. 1929. **Type:** Alisan, 2500 m, Dec. 1914, *U. Faurie s.n.* (holotype TI, photo T00974 in PoT).

Goodyera repens auct. non (L.) R. Br.: Lin, *Native Orch. Taiwan* 1: 182. 1975; Liu & Su, *Q. J. Taiwan Mus.* 26(3–4): 444, f.2. 1973.

Goodyera pendula Maxim., *Bull. Acad. Imp. Sci. Saint-Petersbourg, sér. 3*, 32: 623. 1888; Masam., *List Vasc. Pl. Taiwan* 162. 1954 & *Sci. Rep. Kanazawa Univ.* 9: 128. 1964; Chung, *Taiwania* 47(4): 259–263, f.1, 2. 2002; Lin, *Ill. Native Taiwan. Orch.* 171, f.58. 2022. *Peramium pendulum* (Maxim.) Makino in *J. Jap. Bot.* 6: 36 (1929) **Type:** Japan: insulae Sikoku provincial Tosa, *T. Makino s.n.* Taiwan: Yilan: Shihyuanakou 1800–1900 m, July 1, 2001, *S.W. Chung & H.H. Kuo 5700* (TAIF). 垂葉斑葉蘭

Goodyera procera (Ker Gawl.) Hook., *Exot. Fl.* 1: t.39. 1823; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 93. 1896; Lin, *Native Orch. Taiwan* 1: 180, ph.111, 112. 1975. *Neottia procera* Ker Gawl., *Bot. Reg.* 8: t.639. 1822. *Peramium procerum* (Ker Gawl.) Makino, *J. Jpn. Bot.* 6: 36. 1929. **Type:** Nepal: *N. Wallich s.n.* (MPU017698); Nepal: 1821, *N. Wallich 7393* (possible syntype K001127281& K000639686). 穗花斑葉蘭

Goodyera pusilla Blume, *Coll. Orch. Arch. Ind.* 36, t.96. 1858; Barretto *et al.* *Wild Orch. Hong Kong* 113, f.87–89. 2011; Lin, *Orch. Fl. Taiwan* 154, f.60. 2019. **Type:** Java: Mt. Pangarangu, *Blume s.n.* (holotype L0061425). 小小斑葉蘭

Goodyera yangmeishanensis T.P. Lin, *Native Orch. Taiwan* 2: 173–174, ph.80, 81. 1977. **Type:** Taiwan: Miaoli, Yangmeishan, 1000 m, Aug. 20, 1975, *T.P. Lin 185* (holotype TAIIF).

Goodyera robusta Hook. f., *Fl. Br. India* 6: 113. 1890; Chen *et al.* *Fl. China* 25: 49. 2009; Lin, *Orch. Fl. Taiwan* 154, f.61. 2019. *Goodyera schlechtendaliana* var. *robusta* (Hook.f.) Av. Bhattacharjee & H.J. Chowdhery, *Kew Bull.* 67: 506. 2012. **Type:** India: Khasia 1219 m, *J.D. Hooker and T. Thomson 328* (holotype K000387615 illustrations given). 長葉斑葉蘭

Goodyera bilamellata Hayata, *Icon. Pl. Formosan.* 4: 111, f.58. 1914. *Peramium bilamellatum* (Hayata) Makino, *J. Jpn. Bot.* 6: 34. 1929. **Type:** Taiwan: Alisan, Jan. 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T00975 in PoT).

Goodyera rubicunda (Blume) Lindl., *Edwards's Bot. Reg.* 25(misc.): 61. 1839; Ormerod, *Taiwania* 49(2): 99. 2004; Lin, *Orch. Fl. Taiwan* 155, f.62. 2019. *Neottia rubicunda* Blume, *Bijdr. Fl. Ned. Ind.* 408. 1825. *Georchis rubicunda* (Blume) Rchb. f., *Bonplandia* (Hannover) 5: 35. 1857. *Salacistic rubicunda* (Blume) T.C. Hsu, *Ill. Fl. Taiwan* 2: 184. 2016. **SynTypes:** Java: Mt. Salak and Mt. Gede. *C.L. Blume s.n.* (L and P00137123). 長苞斑葉蘭

Goodyera grandis (Blume) Lindl. ex D. Dietr., *Syn. Plant.* 5: 165. 1852; Masam. in *J. Geobot.* 18(2): pl.161. 1970; Lin, *Native Orch. Taiwan* 1: 184, ph.114, fl. diss. 43. 1975. *Neottia grandis* Blume, *Bijdr. Fl. Ned. Ind.* 8: 407. 1825. *Goodyera grandis* (Blume) Blume, *Coll. Orch.* 43. 1858. **Type:** Java: Mt. Batam. .

Goodyera grandis King & Prantl, *Ann. Roy. Bot. Gard. Calc.* 8: 284, t.379. 1898, *nom. illeg.* *G. clavata* N. Pearce & P.J. Cribb., *Edinburgh J. Bot.* 58, 1: 116, 2001 *nom. nov.* for *G. grandis* King & Prantl; Ormerod, *Taiwania* 48(2): 90. 2003. *Salacistic clavata* (N. Pearce & P.J. Cribb) M.C. Pace, *Brittonia* 72: 265. 2020. **Type:** Sikkim: Valley of the Teesta, 1219 m, Aug. 24, 1896, *R. Pantling 460* (holotype CAL, isotypes BM000077584, K000387616).

Goodyera longibracteata Hayata, *Icon. Pl. Formosan.* 4: 114, pl.61a–h. 1914. *Peramium longibracteatum* (Hayata) Makino, *J. Jpn. Bot.* 6: 35. 1929. **Type:** Taiwan: Pingtung, Kusukusu [高士佛], Jan. 1913, *Y. Tashiro s.n.* (holotype TI, photo T00976 in PoT).

Goodyera longicolumna Hayata, *Icon. Pl. Formosan.* 6: 92–93. 1916. *Peramium longicolumnum* (Hayata) Makino, *J. Jpn. Bot.* 6: 35. 1929. **Type:** Taiwan: Urai, Aug. 1910, *S. Sasaki s.n.* (holotype TI, photo T00977 in PoT).

Goodyera yaeyamae Ohwi, *J. Jpn. Bot.* 13: 439. 1937. **Type:** Japan: Ryukyu Is., Yonakuni, *G. Koidzumi* (holotype KYO).



Goodyera schlechtendaliana Rchb. f., *Linnaea* 22: 861. 1849; Hayata, *J. Coll. Sci. Univ. Tokyo* 25(19): 344. 1908; Lin, *Taiwania* 66(2): 355–356, f. 2021. *Georchis schlechtendaliana* (Rchb. f.) Rchb. f., *Bonplandia* (Hannover) 5: 36. 1857. **Type:** Japan. *Görling s.n.* (W, Herb. H.G. Reichenbach 37474, Reichenbach Herbarium IDC microfiche 8802:44/14). 斑葉蘭/花格斑葉蘭

Goodyera japonica Blume, *Coll. Orchid.* 38. 1858. *Anoetochilus japonicus* (Blume) Linden, *Nursery Cat.* (Linden), *Suppl. Pl. Serre*: 34. 1884. **Type:** Japan.

Goodyera kwangtungensis C.L. Tso, *Sunyatsenia* 1: 134. 1933; Lin, *Native Orch. Taiwan* 2: 168, ph.78, 79. 1977 & *Orch. Fl. Taiwan* 144, f.56, Pl. 7. 2019. **Type:** China: Kwangtung, Lochong, Tatung, Nov. 16, 1931, *N.K. Chun 42963* (IBSC0005433).

Goodyera rontabunensis T. Chow., *Taiwan Orch.* 68. 1968. *nom. nud.*

Goodyera similis Blume, *Coll. Orch.* 39, pl.9, f.2, pl.11, f.D. 1858; Lin et al., *Taiwania* 61(2): 101. 2016 & *Orch. Fl. Taiwan* 162, f.65-1. 2019. *G. schlechtendaliana* f. *similis* (Blume) Makino, *Bot. Mag. (Tokyo)* 19: 15. 1905. *Peramium schlechtendalianum* f. *simile* (Blume) Makino, *J. Jpn. Bot.* 6: 37. 1929. **Type:** Japan (possible isotype K000942762). 鳥嘴蓮

Goodyera velutina Maximowicz ex Regel, *Gartenflora* 16: 36. pl.533, f.I.1–13. 1867; Lin, *Native Orch. Taiwan* 1: 190, ph.118, 119. 1975.

Type: Japan: Yokohama, cult. Yedo, Aug.–Sept. 1862, *C.J. Maximowicz s.n.* (lectotype? LE).

Goodyera morrisonicola Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 343. 1911; Masam., *J. Geobot.* 17(3): 23, pl.153. 1969. **Type:** Taiwan: Mt. Morrison, 6500 ped. Oct. 1906, *T. Kawakami et U. Mori 2323*, not found.

Goodyera similis f. *albonervosa* (T.P. Lin & Y.N. Chang) T.P. Lin, *Orch. Fl. Taiwan* 162, f.65-2. 2019. *G. velutina* var. *albonervosa* T.P. Lin & Y.N. Chang, *Taiwania* 58(4): 263–266, f.7. 2013. *G. similis* Blume var. *albonervosa* (T.P. Lin & Y.N. Chang) T.P. Lin, *Taiwania* 61(2): 101. 2016. **Type:** Taiwan: Taitung, Xiang-Yang, Southern Cross-Island Highway, 1900 m, Sept. 4, 2013, *S.K. Yu s.n.* (holotype TAI283131). ●斑紋鳥嘴蓮

Goodyera similis var. *similoides* T.P. Lin, *Taiwania* 66(1): 11–19. 2021. **Type:** Taiwan: Hsinchu Co., Chienhsih Township, 1650 m, Sept. 25, 2020, *Michelle M.S. Yeh s.n.* (holotype TAI289813). 葉氏斑葉蘭

Goodyera × *tanakae* Suetsugu, *Taiwania* 66(3): 277–286, f. 2021; S.-K. Yu, *Orchids of Taiwan: A Field Guide* 363, ph. 2024. **Type:** Japan: Fukuoka Prefecture, Kitakyushu City, Kokura-minami-ku, Dobaru, Sept. 22, 2016, *K. Tanaka KS818* (holotype: KYO). 高嶺鳥嘴蓮

Goodyera viridiflora (Blume) Lindl. ex D. Dietr., *Syn. Pl.* 5: 165. 1852; Garay & H.R. Sweet, *Orch. S. Ryukyu Isl.* 70. 1974; Lin, *Native Orch. Taiwan* 1: 192, ph.120, 121. 1975 & *Orch. Fl. Taiwan* 163, f.66-1. 2019. *Neottia viridiflora* Blume, *Bijdr. Fl. Ned. Ind.* 408. 1825. *Physurus viridiflorus* (Blume) Lindl., *J. Proc. Linn. Soc. Bot.* 1: 180. 1857. *Goodyer viridiflora* (Blume) Blume, *Coll. Orch.* 41. 1858. *Eucosia viridiflora* (Blume) M.C. Pace, *Brittonia* 72: 264. 2020. **Type:** Java, Bogor, Gunong Salak. *Blume s.n.* (L; lectotype P00137122, designated by Bhattacharjee & Bhakat, *Rheedea* 20(2): 74–75. 2010). 鳥喙斑葉蘭

Goodyera cordata (Lindl.) G. Nicholson, *Ill. Dict. Gard.* 2: 81. 1885. *Georchis cordata* Lindl., *Gen. Sp. Orch. Pl.* 496. 1840. *Goodyera cordata* (Lindl.) Benth. & Hook. f., *Fl. Br. India* 6(17): 114. 1890. *Eucosia cordata* (Lindl.) T.C. Hsu, *Ill. Fl. Taiwan* 2: 33. 2016. **Type:** Sri Lanka (Zeylona): *Macrae s.n.* (K000364602).

Goodyera ogatae Yamam., *Icon. Pl. Formosan. Suppl.* 3: 9, f.3. 1927. *Peramium ogatae* (Yamam.) Makino, *J. Jpn. Bot.* 6: 36. 1929. *Goodyera schlechtendaliana* var. *ogatae* (Yamam.) M. Hiroe, *Orch. Flowers* 2: 70. 1971. *G. viridiflora* var. *ogatae* (Yamam.) T.S. Liu & H.J. Su, *Fl. Taiwan* 5: 1016. 1978. **Type:** Taiwan: Mt. Sozan, anno 1925, *M. Ogata s.n.* (holotype TI00082034).

Goodyera viridiflora var. *hengchunensis* (T.C. Hsu) T.P. Lin, *Orch. Fl. Taiwan*: 163, f.66-2. 2019. *Eucosia hengchunensis* T.C. Hsu in Chung & Hsu, *Ill. Fl. Taiwan* 2: 34, 2016. **Type:** Taiwan. Pingtung: Shouka, 300–400 m, 3 Jan 2016, *T.C. Hsu 8166* (holotype: TAI496951!) 恆春鳥喙斑葉蘭

Eucosia carnea Blume, *Bijdr. Fl. Ned. Ind.* 415. 1825. *Goodyera carnea* (Blume) Schltr. in K.M. Schumann & C.A.G. Lauterbach, *Fl. Schutzgeb. Südsee, Nachtr.* 93. 1905, *nom. illeg.* **Type:** Indonesia. Monti Salak prope Passir Java, June–Aug., *C. Blume s.n.* (holotype L0061220).

Goodyera yamiana Fukuy., *Bot. Mag. (Tokyo)* 50(589): 18. 1936; Masam., *J. Geobot.* 20(1): 1, pl.175. 1972; Lin, *Nat. Orch. Taiwan* 2: 170. 1977 & *Orch. Fl. Taiwan* 163, f.67. 2019. **Type:** Taiwan: isl. Koto-syo, monte Sadaki-rei, 200 m, Oct. 28, 1934, *N. Fukuyama 4804* (holotype KPM-NA0105543, photo T00054; isotypes KPM-NA 0105544 & 5). ●蘭嶼金銀草

Habenaria alishanensis T.P. Lin & D.M. Huang, *Taiwania* 62(4): 349–355, f.1A–C, 2. 2017. **Type:** Chiayi Co., Alishan Township, 700 m, Aug. 13, 2017, *K.C. Yueh s.n.* (holotype TAI286844). ●樂氏玉鳳蘭



Habenaria ciliolaris Kraenzl., Bot. Jahrb. Syst. 16: 169. 1892; Hayata, Materials for a flora of Formosa. 352. 1911; Sasaki, List Pl. Formosa 132. 1928; Lin, Native Orch. Taiwan 2: 176, ph.82. 1977 & Orch. Fl. Taiwan 172, f.69. 2019; Seidenf., Dansk Bot. Ark. 31(3): 95, f.56. 1977 & Opera Bot. 114: 60, f.29. 1992. **Type:** Hong Kong: Aberdeen, Aug. 14, 1884, *C. Ford 95* (holotype K000796942). 玉峰蘭

Habenaria dentata (Sw.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 125. 1919; Seidenf., Dansk Bot. Ark. 31(3): 98, f.60. 1977; Lin, Native Orch. Taiwan 2: 192, ph.85, 86. 1977. *Orchis dentata* Sw., Kongl. Vetensk. Acad. Nya Handl. 21: 207. 1800. *Platanthera dentata* (Sw.) Lindl., Gen. Sp. Orch. Pl. 296. 1835. **Type:** E. China, *Abraham Alnoor s.n.* (holotype S, S-G-7390). 白鳳蘭

Habenaria miersiana Champ. ex Benth., Hooker's J. Bot. Kew Gard. Misc. 7: 37. 1855; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 93. 1896.

Type: Hong Kong: Victoria Peak, Sept. 1847. Taiwan: Bankinsing, *Henry 1212 & 1607*.

Habenaria tohoensis Hayata, Icon. Pl. Formosan. 4: 128, f.67. 1914. *Habenaria dentata* var. *tohoensis* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 464. 1977. **Type:** Taiwan: Tohozan, 6500 ped. Oct. [6], 1909, *S. Sasaki s.n.* (holotype TI, photo T00984 in PoT).

Habenaria ×furcata T.P. Lin, Ill. Native Taiwan Orch. 192, ph. 2022. *Habenaria* sp., Chung & Hsu, Ill. Fl. Taiwan 2: 84, ph. 2016. **Type:** Taiwan: New Taipei City, 700–800 m, Nov. 1, 2021, *D.M. Huang s.n.* (holotype TAI289897).

●新竹玉鳳蘭

Habenaria iyoensis (Ohwi) Ohwi ex C.S. Lee & N.S. Lee, Korean J. Pl. Taxon. 37: 398. 2007; Lin, Orch. Fl. Taiwan 173, f.71. 2019. *Peristylus iyoensis* Ohwi, J. Jpn. Bot. 12: 382. 1936. *H. iyoensis* Ohwi, J. Jpn. Bot. 12: 382. 1936 *nom. inval.*; Hashimoto, Jpn. Indig. Orch. Coloured 1991. *H. iyoensis* (Ohwi) Ohwi ex Chin S. Chang, H. Kim & K.S. Chang, Provis. Checkl. Vasc. Pl. Korea Pen. Fl.: 144. 2014. **Type:** Japan: Shikoku, Tachikawa in Iyo, *K. Yamashita s.n.* (KYO). 岩坡玉鳳蘭

Habenaria minor Fukuy. ex Masam., J. Geobot. 21(3): 9, f.193. 1974. *nom. nud.* Specimen: Taiwan: Pingtung: Daizyurin.大樹林, Oct. 23, 1934, *K. Segawa s.n.* (KPM, photo G00436 in PoT).

Habenaria rupestris T.P. Lin & T.W. Hu, Q. J. Chin. For. 9(1): 52, pl.1. 1976, *non* Poepp. & Endl. 1836. *Habenaria taiwaniana* T.P. Lin, Man. Taiwan Vasc. Pl. 5: 258. 2001. **Type:** Taiwan: Pingtung, Peitawushan, 700 m, Aug. 30, 1973, *T.P. Lin 67* (TAIF105688).

Habenaria longiracema Fukuy., Bot. Mag. (Tokyo) 49(587): 758. 1935; Lin, Orch. Fl. Taiwan 177, f.72. 2019. *Peristylus longiracema* (Fukuy.) K.Y. Lang, Acta Phytotax. Sin. 25: 448. 1987. **Type:** Taiwan: Pingtung, Tyosyu-gun, Kinariman, collected by K. Segawa, Oct. 20, 1934, *N. Fukuyama 4725* (holotype KPM-NA0105547 without Fukuyama's no., photo T00056 in PoT; isotypes, *K. Segawa s.n.*, KPM-NA0105546 with photo T00055 & KPM with photo T00057 in PoT). ●翹唇玉鳳蘭

Hetaeria taiwaniana S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 210. 1977. *Rhomboda taiwaniana* (S.S. Ying) Ormerod, Orchadian 11: 332. 1995. **Type:** Taiwan: Nantou, Shouchentashan, July 16, 1972, *S.S. Ying 1203* (NTUF), not found.

Habenaria lucida auct. *non* Wallich ex Lindl.: Lin, Native Orch. Taiwan 2: 198. 1977.

Habenaria noriakii Masam., J. Geobot. 26(2): 10, f.251. 1978. *nom.nud.*

Habenaria pantlingiana Kraenzl., Orchid. Gen. Sp. 1: 892. 1900; Su, Fl. Taiwan 5: 916. 2000; Lin, Orch. Fl. Taiwan 177, f.73. 2019. **Type:** India: Assam: Namgarh, Aug. 1895, *R. Pantling 415* (holotype K000247416). 冠毛玉鳳蘭

Habenaria stenopetala var. *polytricha* Hook. f., Ann. Roy. Bot. Gard. (Calcutta) 5(1): 64. 1895. *H. polytricha* (Hook. f.) Pradhan, Indian Orch.: Guide Identif. & Cult. 2: 683. 1979 *nom. illeg.* **Type:** Sikkim, Choongtam, *J. D. Hooker s.n.*; Naga Hills, *Prain s.n.*

Habenaria longitaculata Hayata, Icon. Pl. Formosan. 4: 127, pl.24. 1914; Lin, Nat. Orch. Taiwan 2: 195, ph. 88. 1977. **Type:** Taiwan: Nantocho, 1909, *U. Mori s.n.* (holotype TI, photo T00982 in PoT).

Habenaria cirrhifera Ohwi, Acta Phytotax. Geobot. 1: 141. 1932; Masam., J. Geobot. 26(3): 18, f.254. 1978. **Type:** Japan: Ryukyu: Kunchan in, ins. Utchina, *S. Sakaguchi s.n.*

Habenaria petelotii Gagnep., Bull. Soc. Bot. France 78: 73. 1931; Seidenf., Dansk Bot. Ark. 31(3): 81, f.45. 1977; Su, Q. J. Chin. For. 22 (2): 28, pl.7. 1989; Lin, Orch. Fl. Taiwan 178, f.74. 2019. **Type:** N. Vietnam: Tonkin, Cha-pa, Jan. 1928, *Petelot 5157* (holotype P00439664). 毛唇玉鳳蘭.

Habenaria hosokawae Fukuy., Bot. Mag. (Tokyo) 48(569): 297. 1934; Masam., J. Geobot. 26(3): 19, f.255. 1978. **Type:** Taiwan: Taitoo, Tippon-zan, inter Han-no-ki et Budai, 4000 ped. Aug. 23, 1932, *T. Hosokawa 3975*.

Habenaria polytricha Rolfe, Hooker's Icon. Pl. 25, pl.2496. 1896; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 93. 1896; Lin, Native Orch. Taiwan 2: 200, ph.87. 1977 & Orch. Fl. Taiwan 183, f.75. 2019. **Type:** Taiwan: South Cape, *A. Henry 1246* (holotype K000796938, isotype NY00008925). 裂瓣玉鳳蘭

Habenaria stenopetala Lindl., Gen. Sp. Orch. Pl. 319. 1835; Seidenf., Dansk Bot. Ark. 31(3): 70, f.37. 1977; Lin, Orch. Fl. Taiwan: 183, f.76. 2019. **Type:** N. India: Kashmir. *J.F. Royle s.n.* (holotype K000873755, illustration given). 線瓣玉鳳蘭



Habenaria rhynchocarpa (Thwaites) Hook. f., Fl. Br. India [J.D. Hooker] 6(17): 145. 1894. *Platanthera rhynchocarpa* Thwaites, Enum. Pl. Zeyl. 310. 1864. **Type:** Ceylon: above Galagama, 4000 ft. *G.H.K. Thwaites* Ceylon Plant no. 3058 (K?). (*non H. rhynchocarpa* (Thwaites) Trimen 1885).

Habenaria delessertiana Kraenzl., Annuaire Conserv. Jard. Bot. Genève 1: 108. 1897; Lin, Native Orch. Taiwan 2: 190, ph.83, 84. 1977. **Type:** Philippines, Jan. 1897, *H. Cuming* 2086 (iso M0225887).

Habenaria linearipetala Hayata, Icon. Pl. Formosan. 4: 126, pl.23. 1914; Masam., J. Geobot. 21(1): 3, f.189. 1973. **Type:** Taiwan: Mt. Morrison, 8500 ped., Oct. [7], 1909, *S. Sasaki s.n.* (holotype TI, photo T00983 in PoT).

Habenaria ×tsaiana T.P. Lin, Taiwania 59(4): 363–364, f. 2014. **Type:** Taiwan: Hsinchu, Jianshi, 500 m, Sept. 14, 2013, *X.Q. Tsai s.n.* (holotype TAI283132). 蔡氏玉鳳蘭

Hancockia uniflora Rolfe, J. Linn. Soc., Bot. 36(249): 20, f.1E. 1903; Lin & Lin, Taiwania 56(4): 320, f.1E. 2011; Lin, Orch. Fl. Taiwan 603, f.284. 2019. **Type:** China: Yunnan, Mengtze, 1524 m, *A. Henry 11112* (holotype K000943495; isotype NY00008939). Taiwan: Taoyuan: Fuhsing Township, 900–1000 m, July 30, 2010, *L.Z. Chang s.n.* (TAI274629).漢考克蘭

Hancockia japonica (Hatus.) F. Maek., Wild Orch. Jpn. Colour: 73. 1971. *Chrysoglossella japonica* Hatus., Sci. Rep. Yokosuka City Mus. 13: 29. 1967. **Type:** Japan: Isl. Yakushima, Mt. Motchon, alt. 700m, *Hatusima & Sako* 29680 (holotype KAG).

Haraella retrocalla (Hayata) Kudo, J. Soc. Trop. Agric. 2: 27. 1930; Su, Fl. Taiwan 5: 920, pl.391. 2000; Lin, Orch. Fl. Taiwan 605, f.285. 2019. *Saccolabium retrocallum* Hayata, Icon. Pl. Formosan. 4: 92, f.47. 1914. *Gastrochilus retrocallus* (Hayata) Hayata, Icon. Pl. Formosan. 6(Suppl.): 79. 1917. *Gastrochilus retrocallosus* (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 289. 1919. **Type:** Taiwan: Location not indicated, June 1912, *B. Hayata s.n.* (holotype TI, photo T01189 in PoT). 香蘭

Gastrochilus odoratus (Kudô) J.J. Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 14: 168. 1937. *Saccolabium odoratum* (Kudô) Makino & Nemoto, Fl. Japan, ed. 2: 1675. 1931. *Haraella odorata* Kudô, J. Soc. Trop. Agric. 2: 26. 1930.

Hemipilia cordifolia Lindl., Gen. Sp. Orchid. Pl. 296. 1835; Liu & Su, Fl. Taiwan 5: 1029, pl.392. 1978; Banerji & Pradhan, Orch. Nepal Himal. 64. 1984; Lin, Orch. Fl. Taiwan 191, f.79. 2019. **Type:** Nepal: Gosain Than, *N. Wallich Cat. no. 7049* (holotype K000873808, illustration given). 玉山一葉蘭

Hemipilia cruciata Finet, Bull. Soc. Bot. France 44: 421, t.14, f.H, I. 1897. **Type:** China: Yunnan, MenghouTin, south of Dalifu. *H. d'Orléans s.n.* (holotype P00259955).

Hemipilia formosana Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30: 354. 1911; Masam., J. Geobot 15(1–3): 15, f.131. 1966. Lin, Native Orch. Taiwan 1: 200, f.124, 125, 161. 1975. **Type:** Taiwan: Mt. Morrison, 8500 ped. Oct. [18], 1906, *T. Kawakami et U. Mori* 2331 (isotype TAI 6805).

Herminium lanceum (Thunb. ex Sw.) Vuijk var. **longicrure** (C. Wight ex A. Gray) H. Hara, J. Jpn. Bot. 44: 60. 1969; Liu & Su, Fl. Taiwan 5: 1029, pl.1611. 1978; Lin, Orch. Fl. Taiwan 193, f.80. 2019. *Aceras longicrure* C. Wright ex A. Gray, Mem. Am. Acad. Arts n.s., 6: 411. 1859. *A. angustifolium* var. *longicrure* (C. Wright ex A. Gray) Miq., Prolus. Fl. Jpn. 139. 1866. *Herminium longicrure* (C. Wright ex A. Gray) Benth. & Hook. f. ex B.D. Jacks., Index Kew. 1: 1144. 1893. *H. angustifolium* var. *longicrure* (C. Wight ex A. Gray) Makino, Bot. Mag. (Tokyo) 10: 109. 1896; Matsum. & Hayata, J. Coll. Sci. Imp. Univ. Tokyo 22: 418. 1906. **Type:** Ryukyu: Katonasima, Loo-choo Isl. [琉球島嶼], Apr. 30, 1855, *C. Wright* 338 (holotype GH00000015, flower illustration given). 腳根蘭

Aceras angustifolium Lindl., Edwards's Bot. Reg. 18: t. 1525. 1832. *Platanthera angustifolia* (Lindl.) Rehb. f., Otia Bot. Hamburg.: 39. 1878.

Herminium angustifolium (Lindl.) Benth. ex Ridl., Naturalist's Wanderings E. Archipel.: 519. 1885; Forbes & Hemsl., J. Linn. Soc. Bot. 36: 50–51. 1903. *Monorchis angustifolia* (Lindl.) O. Schwarz, Mitt. Thüring. Bot. Ges. 1: 95. 1949. Taiwan: Tamsui, 1864, *R. Oldham* 248 & 560.

Herminium pusillum Ohwi & Fukuy., Bot. Mag. (Tokyo) 48(571): 430. 1934. *Androcorys pusillus* (Ohwi & Fukuy.) Masam., Hokuriku J. Bot. 12: 88. 1963; Lin, Native Orch. Taiwan 3: 36. 1987 & Orch. Fl. Taiwan 84, f.25. 2019. **Type:** Taiwan: monte Niitaka-yama [新高山] inter Shuzan [主山] et Niitaka-chuuzaisho, collected by J. Ohwi, July 1933, *Fukuyama* 4119 (holotype KPM-NA0105548, Masamune handwriting on envelope label, without Fukuyama's no., photo T00058 in PoT; isotype KYO, with Fukuyama's no. in pencil). 小兜蕊蘭

Hetaeria anomala Lindl., J. Proc. Linn. Soc. Bot. 1: 185. 1857; Lin, Orch. Fl. Taiwan 197, f.81. 2019. **Type:** NE India: Assam, Tigrei, *Griffith* 10 (holotype K000364640). 圓唇伴蘭

Hetaeria rotundiloba J.J. Smith, Svensk Bot. Tidskr. 20: 470. 1926; Seidenf., Dansk Bot. Ark. 32(2): 96, f.58. 1978; Leou, Q. J. Exp. For. Natl. Taiwan Univ. 3: 81–86, f.1–3. 1989. **Type:** Indonesia: Sulawesi: N. Celebes, Bolaäng-Mongondou, Danau sjön, Aug. 1917, *W.A. Kaudern* 129 (S-G-6931). Taiwan: Pintung: Lilunshan, 900–1000 m, Oct. 10, 1988, *T.Y. Chen s.n.* (NTUF).

Hetaeria biloba (Ridl.) Seidenf. & Wood, Orch. Penin. Malaysia 95. 1992. *Zeuxine biloba* Ridl., J. Fed. Malay States Mus. 4: 73. 1909. **Type:** Malaysia: Pahang, Telom, Nov. 1908, *H.N. Ridley s.n.* (holotype SING0056427).



Hetaeria oblongifolia Blume, Bijdr. Fl. Ned. Ind. 410. t.14. 1825; Seidenf., Dansk Bot. Ark. 32(2): 96, f.60. 1978; Ying, Coloured Ill. Indig. Orch. Taiwan 1: 469. 1977; Yeh *et al.*, Taiwan J. For. Sci. 20(4): 355–359. 2005; Lin, Orch. Fl. Taiwan 197, f.82. 2019. **Type:** Java, on slopes of Solassie in Tjanjor Province, *C. Blume s.n.* (holotype L0061395). 長橢圓葉伴蘭

Holcoglossum pumilum (Hayata) X.H. Jin, PLoS ONE 7(12): e52050. 2012; Lin, Orch. Fl. Taiwan 607, f.286. 2019. *Saccolabium pumilum* Hayata, Bot. Mag. (Tokyo) 20(236): 77. 1906. *Gastrochilus pumilus* (Hayata) Hayata, Icon. Pl. Formosan. 6(Suppl.): 78. 1917. *Ascocentrum pumilum* (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 285. 1919; Masam., J. Geobot. 14(3): pl.114. 1966. *Ascolabium pumilum* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 54. 1977. *Holcoglossum pumilum* (Hayata) L.J. Chen, X.J. Xiao & G.Q. Zhang, PLoS ONE 8(4): e60097. 2013. **Type:** Taiwan: Bioritsu [苗栗], Jan. 1906, *K. Fujii s.n.* (holotype TI, photo T01191 in PoT). ●小鹿角蘭
Vanda hayatae J.M.H. Shaw, Orch. Rev. 121(1301, Suppl.): 15. 2013.

Holcoglossum quasipinifolium (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 285. 1919; Masam., J. Geobot. 16(1): 7, pl.135. 1968; Lin, Native Orch. Taiwan 1: 206, ph.130. 1975 & Orch. Fl. Taiwan 609, f.287. 2019. *Saccolabium quasipinifolium* Hayata, Icon. Pl. Formosan. 2: 144. 1912. *Gastrochilus quasipinifolius* (Hayata) Hayata, Icon. Pl. Formosan. 6(Suppl.): 79. 1917. **Type:** Taiwan: Alisan, Jan. 23, 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T01188 in PoT; isotypes TI with photo T01187 in PoT & TAI6747). ●撬唇蘭

Hylophila nipponica (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 469. July 1977; Lin, Ill. Native Taiwan. Orch. 201, f.82. 2022. *Dicerostylis nipponica* Fukuy., Bot. Mag. (Tokyo) 50(589): 19. 1936. *Hylophila nipponica* (Fukuy.) T.P. Lin, Native Orch. Taiwan 2: 206, ph.94–96. Nov. 1977. *Hylophila nipponica* (Fukuy.) T.S. Liu & H.J. Su, Fl. Taiwan 5: 1035. 1978. **Type:** Taiwan: insl. Koto-syo, monte Kotozan [紅頭山], 400 m, July 17, 1934, *N. Fukuyama 4793* (holotype KPM-NA0105532 without Fukuyama's no., photo T00027 in PoT; isotype KPM-NA 0105533–0105535); Monte Sadaki-rei, 200 m, July 3, 1934, *N. Fukuyama 4797* (paratype KPM without Fukuyama's no., photo G00337 in PoT). ●蘭嶼光唇蘭

Lecanorchis japonica Blume, Mus. Bot. 2: 188. 1856; Hashimoto, Ann. Tsukuba Bot. Gard. 9: 3–13, f.1–9. 1990; Su, Fl. Taiwan 5: 934, pl.398. 2000; Lin, Ill. Native Taiwan Orch. 2nd ed. 96, f.6. 2023. **Type:** Japan: Honshu, Mino, in montibus oppido Gunsjo v. Takasu vicinis querceta inter saxa incolens (holotype L? not found). 紫血柱蘭/黃血柱蘭
Lecanorchis cerina Fukuy., Bot. Mag. (Tokyo) 49(581): 291. 1935; Masam., J. Geobot. 15(1–3): 16, f.132. 1966; Nackej., Biol. Mag. (Okinawa) 13: 29. 1975; Lin, Native Orch. Taiwan 3: 144, ph.82–84. 1987 & Orch. Fl. Taiwan 38, f.6. 2019. **Type:** Taiwan: Taihoku, Shinten, Daitoozan [大桶山], Apr. 11, 1934, *N. Fukuyama 4534* (holotype KPM-NA0105552, photo T00063 in PoT).

Lecanorchis latens T.P. Lin & W.M. Lin, Taiwania 56(4): 315. 2011. *L. subpelorica* var. *latens* (T.P. Lin & W.M. Lin) T.C. Hsu, Ill. Fl. Taiwan 2: 103. 2016. **Type:** Taiwan: Pingtung, Shuangliou, Mar. 6, 2010, *S.S. Lin s.n.* (holotype TAI274551). ●士賢血柱蘭

Lecanorchis multiflora J.J. Sm., Bull. Jard. Bot. Buitenzorg II 26: 8. 1918 & Bull. Jard. Bot. Buitenzorg III 5: t.25, f.2. 1922; Seidenf., Bot. Tidsskr. 67: 98, f.19. 1972 & Dansk Bot. Ark. 32(2): 127, f.78. 1978; Lin, Taiwania 64(1): 43–51, 2019 & Orch. Fl. Taiwan 43, f.8-1, 2019. **Type:** Indonesia: Java. Bantam, Goenoeng Malang, 400 m, 1913. *C.A. Backer 7158* (isosyntypes L0426579, L0061477). 三裂血柱蘭
Lecanorchis flavicans Fukuy., Trans. Nat. Hist. Soc. Formosa 32: 241–244. 1942; Suetsugu *et al.*, Phytotaxa 306(3): 217–222. 2017. **Type:** Japan: Ryukyu, Iriomote Isl., along Nakara River, May 30, 1938, *N. Fukuyama s.n.* (lectotype KPM-NA0105553, isolectotypes KPM-NA0105554, KPM-NA0105555, designated by Suetsugu *et al.* 2017). (*Fukuyama 7120* was cited in the original type in TAD).
Lecanorchis triloba auct. non. J. J. Sm.; Hsu & Chung, Taiwania 54(1): 83. 2009; Lin *et al.*, Taiwania 61(2): 105. 2016.

Lecanorchis multiflora var. **bihuensis** (T.P. Lin & Shu H. Wu) T.P. Lin, Taiwania 64(1): 43–51, f.5, 6. 2019 & Orch. Fl. Taiwan 43, f.8-2. 2019. *L. nigricans* auct. non Honda: Lin, Native Orch. Taiwan 3: 150. 1987. *L. bihuensis* Lin & Wu, Taiwania 57(4): 381. 2012. **Type:** Taiwan: Hsinbei City: Pinglin, Feb. 17, 1980, *T.P. Lin 455* (holotype TAI122114). ●全唇血柱蘭

Lecanorchis multiflora var. **subpelorica** (T.C. Hsu & S.W. Chung) T.P. Lin, Taiwania 64(1): 43–51, 2019; Lin, Orch. Fl. Taiwan 44, f.8-3. 2019; *L. subpelorica* T.C. Hsu & S.W. Chung, Taiwania 55(4): 363–365. f.1C, D, 3. 2010. **Type:** Taiwan: Pingtung Co.: Shizi Township, Shouka, ca. 400 m, July 4, 2008, *T.C. Hsu 1438* (holotype TAI1F). ●亞輻射血柱蘭



Lecanorchis nigricans Honda, Bot. Mag. (Tokyo) 45: 470. 1931; *emend.* Tuyama, J. Jpn. Bot. 30: 184, f.3, A & B. 1955; Hashim., Ann. Tsukuba Bot. Gard. 9: 29, f.20–22. 1990; Suetsugu *et al.*, PhytoKeys 92: 17–35. 2018. **Type:** Japan: Honshu, Iwada, Prov. Kii, anno 1931, *K. Kashiyama s.n.* (TI). Taiwan: Taoyuan: Peichatianshan, Aug. 26, 2009, *T.C. Hsu 2267* (TAIF); Taitung: Taimali, Kueinashan (規那山) *S.W. Chung et al. 8077* (TAIF). 黑莖血柱蘭

Lecanorchis oligotricha Fukuy., Trans. Nat. Hist. Soc. Formosa 32: 242. 1942; Acta Phytotax. Geobot. 14:124. 1952. **Type:** Ryukyus: Ins. Iriomote, June 4, 1938, *N. Fukuyama 7127* (Herb. Univ. Imp. Taihokensis); *N. Fukuyama 7107 & 7125*.

Lecanorchis nigricans var. *yakushimensis* T. Hashim., Ann. Tsukuba Bot. Gard. 9: 31, f.23, 24. 1990; Chung, Orch. Taiwan 51. 2008; Hsu & Chung, Taiwania 55(4): 366, f.1G, H. 2010; Lin, Orch. Fl. Taiwan 45, f.9. 2019. **Type:** Japan: Kyushu, Kagoshima, Yaku-shima (Isl.), July 21–27, 1986, *Y. Hanei s.n.* (holotype TNS).

Lecanorchis ohwii Masam., Trans. Nat. Hist. Soc. Formosa 23(126): 208. 1933; Suetsugu *et al.*, Phytotaxa 309(3): 259–264. 2017; Lin, Orch. Fl. Taiwan 51, f.10. 2019. **Type:** Taiwan: Inter Takomi et Rarasan, [達觀山–札亞孔], Apr. 13, 1933, *J. Ohwi 847* (lectotype KYO-00022233, lectotype designated by Suetsugu *et al.* 2017, Photo T01668 in PoT).

● 白血柱蘭

Lecanorchis cerina Fukuy. var. *albidus* T.P. Lin, Native Orch. Taiwan 3: 147, ph.85–88. 1987. *L. albida* (T.P. Lin) T.P. Lin, Taiwania 61(2): 103. 2016. *L. kiusiana* var. *albia* (T.P. Lin) T.C. Hsu, Ill. Fl. Taiwan 2: 100. 2016. *L. cerina* f. *albida* (T.P. Lin) S.S. Ying, Coloured Ill. Orch. Taiwan 2: 562. 1990. **Type:** Taiwan: Taipei, Mt. Pataoerh. 700–1100 m, Apr. 1, 1979, *T.P. Lin 439* (holotype TAIF74168), *T.P. Lin 414* (paratype TAIF127050).

Lecanorchis purpurea Masam., Prelim. Rep. Veg. Yakus. 60. 1929; Suetsugu *et al.*, Phytotaxa 360(2): 145–152. 2018; Lin, Orch. Fl. Taiwan 54, f.11. 2019. **Type:** Japan: Kagoshima Pref., Yakushima Isl., along the Futamata River, 300 m, July 30, 1988, *S. Hatusima 43695* (neotype KAG-073201, designated by Suetsugu *et al.* 2018). 糙莖血柱蘭

Lecanorchis trachycaula Ohwi, Fl. Jpn., rev. ed. 1438. 1965; T.C. Hsu and S.W. Chung, Taiwania 55(4): 367, f.1E, F, 5. 2010. **Type:** Japan: Shikoku, Awa: Shishikui-cho, June 18, 1964, *C. Abe 15387* (holotype TNS381701).

Lecanorchis purpurea var. **actinomorpha** T.P. Lin, Taiwania 69(3): 384, fig.3. 2024. **Type:** Taiwan: Taoyuan Co., Fuxin Township, Balung, Lalashan, c. 1400 m, Jul. 14, 2024, *H.C. Tsai s.n.* (TAI289923). 輻射糙莖血柱蘭

Lecanorchis suginoana (Tuyama) Seriz., Bunrui 5(1): 38. 2005; Chung, Orch. Taiwan 52. 2008; Chung & Hsu, Taiwania 54(1): 83. 2009; Lin, Orch. Fl. Taiwan 55, f.12-1, 12-2. 2019. *L. japonica* var. *suginoana* Tuyama, J. Jpn. Bot. 57: 211. 1982. *L. kiusiana* var. *suginoana* (Tuyama) T. Hashim., Ann. Tsukuba Bot. Gard. 9: 18, f.12–13. 1990; Takashima *et al.*, Bull. Natl. Mus. Nat. Sci., ser. B 45(3): 119–129, (f.). 2019. **Type:** Japan: Houshu, Totomi, Sugi in oppido Haruno-cho, *Tuyama s.n.*, June 8, 1980 (holotype TI). Taiwan: Nantou: Luqushan 1900 m, May 12, 2007, *T.C. Hsu 791, 792* (TAIF). 杉野氏血柱蘭

Lecanorchis tabugawaensis Suetsugu & Fukunaga, PhytoKeys 73: 125–135. 2016; Lin, Orch. Fl. Taiwan 55, f.13. 2019. **Type:** Japan: Kyushu: Kagoshima Pref., Yakushima Isl., Yakushima Town, Koseda, along Tabu River, 170 m, July 16, 2015, *H. Yamashita s.n.* (holotype KYO; isotype OSA). 新北血柱蘭

Lecanorchis taiwaniana S.S. Ying, Q. J. Chin. For. 20(4): 133, f.5. 1987; *emend.* Suetsugu *et al.*, Phytotaxa 265(2): 157–163. 2016; Lin, Orch. Fl. Taiwan 61, f.14. 2019. **Type:** Taiwan: Taipei, Chia-Chiu-Lin (加九嶺) to Chia-Chiu-Liao (加九寮), Aug. 2, 1987, *S.S. Ying s.n.* (holotype NTUF, photo F00000200 in PoT; isotype NTUF, photo F00008292 in PoT). *EpiType:* Taipei, Wulai, Pataoerhshan, ca. 1000 m, Aug. 15, 2009, *T.C. Hsu 2259* (TAIF), designated by Suetsugu *et al.* 2016. 台灣血柱蘭

Lecanorchis nigricans *auct. non* Honda: Liu & Su, Fl. Taiwan 5: 1036. 1978.

Lecanorchis amethystea Y. Sawa, Fukunaga & S. Sawa, Acta Phytotax. Geobot. 57(2): 123–128. 2006; Hsu & Chung, Taiwania 55(4): 363–369. 2010. **Type:** Japan: Kochi: Muroto cape, 160 m, July 26, 1987, *Sawa SC-1702* (holotype: TI, isotype: MBK).

Lecanorchis thalassica T.P. Lin, Native Orch. Taiwan 3: 153, ph.89. 1987; Lin, Orch. Fl. Taiwan 61, f.12-2, 15. 2019. *Lecanorchis japonica* Blume var. *thalassica* (T.P. Lin) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 2: 563. 1990. **Type:** Taiwan: Nantou: Chitou, May. 21, 1976, *Lin 330* (TAIF). 紋血柱蘭

Lecanorchis vietnamica Aver., Rheedia 15: 92. 2005; Lin, Orch. Fl. Taiwan 62, f.16. 2019. **Type:** Vietnam, Thua Thien-Hue Province, A Luoi District, A Roang Municipality, Tra Lenh Forestry Department Station, 700–800 m, Apr. 20, 2005, *L. Averyanov, P.K. Loc, N.T. Vinh.*, etc. *HAL 724* (holotype, HN; isotype LE). 白髭血柱蘭

Lecanorchis flavicans Fukuy. var. *acutiloba* T. Hashim, Ann. Tsukuba Bot. Gard. 8: 8, f.3. 1989; Hsu *et al.*, Taiwan J. Biodivers. 18(1): 115–121, f.2, 3. 2016; Lin *et al.*, Taiwania 61(2): 104. 2016. **Type:** Japan: Yakushima Isl., Mt. Motchomu, July 24, 1979, *Y. Hanei s.n.* (holotype TNS950453). Taiwan: New Taipei City: Tataoshan, 500 m, *T.C. Hsu 6577* (TAIF).



Lecanorchis virella T. Hashim., Ann. Tsukuba Bot. Gard., 8: 1. 1989; Chung, Orch. Taiwan 5. 2008; Chung & Hsu, *Taiwania* 54(1): 83. 2009; Lin, Orch. Fl. Taiwan 65, f.17. 2019. **Type**: Japan: Yakushima Isl., near Hirano, along Hanaage River, 100 m, May 6, *Yoshie Hanei s.n.* (holotype TNS9504705). Taiwan: Taoyuan: Beichatianshan 1000 m, May 4, 2007, *T.C. Hsu 785* (TAIF). 綠血蘭/彩虹血柱蘭

Liparis amabilis Fukuy., Bot. Mag. (Tokyo) 52(617): 245. 1938; Masam., J. Geobot. 18(3–4): 15, pl.165. 1970; Liu & Su, Fl. Taiwan 5: 1040. 1978; Lin, Orch. Fl. Taiwan 612, f.288. 2019. **Type**: Taiwan: Taihoku, Kaposan, 900 m, Apr. 13, 1935, *T. Suzuki 6397*. ●卡保山羊耳蘭

Liparis barbata Lindl., Gen. Sp. Orch. Pl. 27. 1830; Chen et al. Fl. Reipubl. Popularis Sin. 18: 77, pl.12, 1–2. 1999; Chen et al., Fl. China 25: 220. 2009; Lin et al., *Taiwania* 61(2): 104. 2016 & Orch. Fl. Taiwan 614, f.289. 2019. *Empusa barbata* (Lindl.) T.C. Hsu, Ill. Fl. Taiwan 2: 14. 2016. **Type**: Sri Lanka: without locality, 1829. *Macrae s.n.* (holotype K-Lindley). 鬚唇羊耳蘭

Liparis wrayi Hook. f., Fl. Br. India 6: 181. 1890; Seidenf., Dansk Bot. Ark. 31(1): 15. f.5. 1976; Su, Q. J. Chin. For. 23(3): 46, pl.1. 1990.

Type: Malaysia: Upper Perak, 300 ft, *Wray 3713* (isotype K000363406). Taiwan: Nantou: Chingshuikou, 500 m, *H.J. Su & N.J. Chung 9059*.

Liparis fimbriata Kerr., Bull. Misc. Inform. Kew 1927: 215. 1927. **Type**: Thailand: Doi Sutep, 580–660 m, July 26, 1914, *A.F.G. Kerr 351* (holotype), *Kerr 351a* (paratype K000596257).

Liparis bootanensis Griff., Not. Pl. Asiat. 3: 278. 1851; Seidenf., Dansk Bot. Ark. 31(1): 50. f.27. 1976; Lin, Native Orch. Taiwan 2: 212, ph.98, 99. 1977 & Orch. Fl. Taiwan 614, f.290. 2019. **Type**: Bhutan-Skkim: E. Himalaya, Samdrup Jongkhar: “Durunga”, without year, *Griffith 1460* (syntype K000943030 & K000873778). 摺疊羊耳蘭

Liparis plicata Franch. & Sav., Enum. Pl. Jpn. 2: 509. 1878; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 91. 1896; Liu & Su, Fl. Taiwan 5: 1041, pl.1617. 1978. **Type**: Japan: No source material cited in protologue. *Kramer 13204* (holotype P). Taiwan: Pingtung: Bankinsing, 1895, *A. Henry 138, 1627*.

Liparis uchiyamae Schltr., Bull. Herb. Boissier, ser. 2, 6: 308. 1906; Hayata, Icon. Pl. Formosan. 4: 35, f.11. 1914. *Liparis bootanensis* var. *uchiyamae* (Schltr.) S.S. Ying, Coloured Ill. Orch. Fl. Taiwan 2: 238. 1990. **Lectotype**: Liuku: Isle Oshima, Dec. 1900, *T. Uchiyama s.n.* (holotype B; reduced to synonym by Seidenf., 1976).

Liparis campylostalis Rehb. f., Linnaea 41: 45. 1877; Seidenf., Dansk Bot. Ark. 31(1): 22. f.11. 1976 & Opera Bot. 114: 131, f.78. 1992; Su, Q. J. Chin. For. 23(3): 47, pl.2. 1990; Lin, Orch. Fl. Taiwan 619, f.292. 2019. **Type**: India orientalis, Herb. H.G. Reichenbach 39742 (W, Reichenbach Herbarium IDC microfiche 8802:53/35). Taiwan: Nantou: Yungshai to Tienchi, 2200–2600 m, *Su & Chen 9098*. 彎柱羊耳蘭

Liparis kumokiri F. Maek., J. Jpn. Bot. 12: 91. 1936; Hashim. & Kanda, Jpn. Indig. Orch. Coloured 144. 1981. **Type**: Japan: Hondo, Hitachi Prov., Mt. Tsukuba, 13 July 1895, *C. Owatari s.n.* (holotype TI).

Liparis cespitosa (Lam.) Lindl., Bot. Reg. 11, t.882. 1825; Matsum. & Hayata, J. Coll. Sci. Univ. Tokyo 22: 408. 1906; Lin, Orch. Fl. Taiwan 615, f.291. 2019. *Epidendrum cespitosum* Lam., Encycl. 1: 187. 1783. *Malaxis cespitosa* (Lam.) Thouars, Hist. Orch.: t.90. 1822. *Cestichis cespitosa* (Lam.) Ames, Orchidaceae 2: 132. 1908. **Neotype** (“Mauritius, Commerson s.n.”) proposed by Pearce & Cribb, 2002 (The Orchids of Bhutan. Royal Botanic Garden Edinburgh, Royal Government of Bhutan, Huddersfield, p. 204) as “lectotype” – P-LA [P00672996], or Réunion (Described from Reunion Island “Isle De Bourbon”), without locality and year, *Jussieu s.n.* (holotype P). Taiwan: anno 1899, *K. Miyake s.n.* 桶後羊耳蘭/叢生羊耳蘭

Liparis auriculata Rehb.f., Flora 55: 277 1872, non *L. auriculata* Blume ex Miq. 1866. **Type**: India: Meghalaya, Mont Khasia, 1219 m, *J.D. Hooker & T. Thomson 16* (isotypes AMES00100963, GH00243071).

Liparis condylobulbon Rehb. f., Hamburger Garten-Blumenzeitung 18: 34. 1862; Seidenf., Dansk Bot. Ark. 31(1): 70. f.44. 1976; Lin, Native Orch. Taiwan 2: 217, ph.101–103. 1977 & Orch. Fl. Taiwan 619, f.293. 2019. *Blepharoglossum condylobulbon* (Rehb. f.) L. Li, Pl. Syst. Evol. 306(3, 54): 7. 2020. **Type**: Java: sine loc., Feb. 1862, *Schiller s.n.* (Herb. Reichenbach 46205 *pro. parte*. Reichenbach Herbarium IDC microfiche 8802:53/37-38). 長耳蘭

Liparis dolichopoda Hayata, Icon. Pl. Formosan. 4: 27, pl.5. 1914. *Cestichis dolichopoda* Hayata, *nom. nud. in sched.* **Type**: Taiwan: Location not indicated, Jan. 1912, *B. Hayata s.n.*, not found.

Liparis cordifolia Hook. f., Hooker’s Icon. Pl. 19: t.1811. 1889; Fl. Br. India 5: 692. 1890; Lin, Native Orch. Taiwan 2: 220, ph.105, 106. 1977 & Orch. Fl. Taiwan 622, f.294. 2019. **Types**: NE. India: Kala Panee: Khasia Hills, Oct. 28, 1850, 1524–1829 m, *J.D. Hooker and T. Thomson s.n.* (lectotype K000387757, designated by X.H. Jin in Novon 20: 282. 2010 as *Hooker and Thomson 8*; isolectotypes K000873771, LE), *C.B. Clarke 25184* (isolectotype K000387842), *C.B. Clarke 15224* (isolectotype K000387756). 銀鈴蟲蘭

Liparis keitaoensis Hayata, Icon. Pl. Formosan. 7: 40, pl.13. 1918; Masam., J. Geobot. 24(4): 15, f.234. 1977. **Type**: Taiwan: Keitao, Apr. 1916, *B. Hayata s.n.* (holotype TI, photo T00992 in PoT). *Liparis sekiteiensis* Kudo, Masam. in J. Geobot. 28(1): 5, f.158. 1970. *nom.nud.*



Liparis derchiensis S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 31(1): 21, ph.3, 4. 1991; Lin, Orch. Fl. Taiwan 622, f.295. 2019. **Type:** Taichung: Derchi Dam, 1360 m, Apr. 4, 1991, S.S. Ying s.n. (isotype NTUF, photo F00008291 in PoT). ●德基羊耳蘭

Liparis elliptica Wight, Icon. Pl. Ind. Orient. 5: 17, t.1735. 1852; Lin, Native Orch. Taiwan 2: 226, ph.109, 110. 1977 & Orch. Fl. Taiwan 625, f.296. 2019. **Type:** S. India: Tamil Nadu, Coonoor, Wight s.n. (synType K000387823); India: Khasia, Mamloo, Nov. 13, 1850, J.D. Hooker and T. Thomson 17 (synType K000387825). 扁球羊耳蘭

Liparis platybolba Hayata, Icon. Pl. Formosan. 4: 30, f.8. 1914; Masam., J. Geobot. 20(1): 2, pl.176. 1972. *Cestichis platybolba* (Hayata) Kudô, J. Soc. Trop. Agric. 2: 147. 1930. **Type:** Taiwan: Alisan, inter Funkiko et Taroyen, Mar. 1914, B. Hayata et T. Ito s.n. (holotype TI, photo T00994 in PoT).

Liparis elongata Fukuy., Annu. Rep. Taihoku Bot. Gard. 3: 82. 1933; Lin, Orch. Fl. Taiwan 625, f.297. 2019. **Type:** Taiwan: Taiheizan, monte Mururoahu, inter Kyanraha et Saukan, July 1933. *N. Fukuyama 4110* (holotype, not found); Nankotaizan, inter Kiritto (基力亭) et Bunakkei, July 1933, *N. Fukuyama 4111* (paratype KPM without Fukuyama's no., photo G00575 in PoT); Karenkoo, monte Taroko-taizan, 1800–2000 m, June 14, 1933, T. Suzuki 9516. ●長穗羊耳蘭

Liparis japonica auct. non (Miq.) Maxim.: Su in Q. J. Chin. For. 22(2): 28, pl.8. 1989. Taiwan: Nanhutashan, June 17, 1988, H.J. Su 8317 (HAST104405).

Liparis ferruginea Lindl., Gard. Chron. 1848: 55. 1848; Lin et al., Taiwania 61(2): 105. 2016. Lin, Orch. Fl. Taiwan 628, f.298. 2019. **Type:** Malaysia: Penang, sine coll./cult. *Loddiges s.n.* (holotype K-LINDL). NeoType (designated by Tetsana et al., Phytotaxa 421 (1): 1–65); Malaysia: Labuan, without locality or year, Lobb/cult. *Veitch & Son s.n.* (K-Lindley). 明潭羊耳蘭

Liparis hensoaensis Kudô, J. Soc. Trop. Agric. 2: 237. 1930. *Cestichis hensoaensis* (Kudô) Maek., Iconogr. Pl. Asiae Orient. 2: 102. 1937. *Liparis nigra* var. *hensoaensis* (Kudô) S.S. Ying, Coloured Ill. Orch. Taiwan 2: 579. 1990. **Type:** Taiwan: Nichigaetsutan [石印(日月潭水庫下)], Sept. 22, 1929, Kudo et Sasaki 15635 (holotype TAI118729); Prope Sekiin ad Nichigetsutan, Sept. 19, 1929, Kudo et Sasaki 15391 (paratype TAI033085); Sept. 20, 1929, Kudo et Sasaki 15503 (paratype TAI033088).

Liparis formosamontana T.C. Hsu, Ill. Fl. Taiwan 2: 111, f. 2016; Yu, Orchids Taiwan: A Field Guide 422, ph. 2024. **Type:** Taiwan: Yilan: Taipingshan, 1600 m, Apr. 18, 2007, T.C. Hsu 767 (TAIF303574). ●玉簪羊耳蘭

Liparis auriculata auct. non Blume ex Miq.: Liu & Su, Q. J. Taiwan Mus. 28: 270, f.2. 1975; Lin, Native Orch. Taiwan 2: 210, ph.97. 1977. *Liparis monoceros* T.P. Lin, Taiwania 63(3): 241–247, f.2C, 4. 2018 & Orch. Fl. Taiwan 640, f.306. 2019. **syn. nov.** **Type:** Taiwan: Nantou Co., May 7, 2012, 2050 m, P.N. Shen s.n. (holotype TAI281150). *Liparis petiolata* auct. non. (D. Don) P.F. Hunt et Summerh.: Lin et al., Taiwania 61(2): 107. 2016. *Liparis amabilis* auct. non Fukuy.: Chung, Orch. Taiwan 56, f. 2008. *Liparis pulchella* auct. non Hook. f.: Chung, Orch. Taiwan II: 75. 2008. *Liparis yakusimensis* auct. non Masam.: Su, Fl. Taiwan 5: 938. 2000.

Liparis formosana Rchb. f., Gard. Chron. n.s. 13: 394. 1880; Lin, Native Orch. Taiwan 2: 228, ph.111, 112. 1977 & Orch. Fl. Taiwan 630, f.299. 2019. *L. bituberculata* var. *formosana* (Rchb. f.) Ridl., J. Linn. Soc. Bot. 22: 263. 1886; Hashim., Proc. 12th Orch. Conf. 123. 1987. *L. nervosa* var. *formosana* (Rchb. f.) M. Hiroe, Orch. Flowers 2: 77. 1971. *Empusa formosana* (Rchb. f.) T.C. Hsu, Ill. Fl. Taiwan 2: 16. 2016. **Type:** Collected in Formosa by Mr. Maries. It has flowered in the Royal Exotic Nursery of Messrs. Veitch & Sons (Mar. 7). One specimen from cult. in the Herb. Reichenbach 28540, and an illustration in Reichenbach 39799, Reichenbach Herbarium IDC microfiche 8802:53/32-33. 寶島羊耳蘭

Liparis gigantea C.L. Tso, Sunyatsenia 1: 136. 1933; Chen et al., Fl. China 25: 219. 2009; Lin, Orch. Fl. Taiwan 630, f.300. 2019. *Empusa gigantea* (C.L. Tso) T.C. Hsu, Ill. Fl. Taiwan 2: 16. 2016. **Type:** China: Kwangtung, Sunyi. Mar. 31, 1931, S.P. Ko 51255 (holotype, SYS). 羊耳草/大花羊耳蘭

Liparis macrantha Rolfe, Ann. Bot. (Oxford) 9(33): 156. 1895, non Hook. f. 1889; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 91. 1896; Masam., J. Geobot. 17(3): 21, pl.151. 1969. **Type:** Taipei: Tamsui, 1895, A. Henry 1695 (holotype K000078912). *Liparis nigra* Seidenf., Bot. Tidsskr. 65: 129. 1969; Dansk Bot. Ark. 31(1): 18, f.7. 1976; Lin, Native Orch. Taiwan 2: 233, ph.113–116. 1977. **Type:** Thailand: Ban Langka, NW. Lomsak, Doi Inthanond 1200–1300 m, GT 5401 (holotype C vial 2465 & 2466).

Liparis grossa Rchb. f., Gard. Chron., n.s., 19: 110. 1883; Seidenf., Dansk Bot. Ark. 31(1): 63. f.41. 1976; Su, Q. J. Chin. For. 21(1): 119, pl.2. 1988; Lin, Orch. Fl. Taiwan 631, f.301. 2019. *Blepharoglossum grossum* (Rchb. f.) L. Li, Pl. Syst. Evol. 306(3, 54): 8. 2020. **Type:** Burma: imported to England by Low & Co., Jan. 18, 1882 (Herb. Reichenbach 46236, Reichenbach Herbarium IDC microfiche 8802:54/25). 紅鈴蟲蘭

Liparis tateishii Kudô, J. Soc. Trop. Agric. 3: 16. 1931. **Type:** Taiwan: Kusukusu, Jan. 1930. *Tateishi s.n.* *Liparis rizalensis* Ames, Orch. 6: 295. 1920; A. Hsieh, Bot. Mag. (Tokyo) 50: 21. 1936; Lin, Native Orch. Taiwan 2: 236, ph.118, 119. 1977. **Type:** Philippines: Luzon Isl., Dec. 1915, M. Ramos BS 24070 (holotype AMES00100970, AMES00083750).



Liparis henryi Rolfe, Bull. Misc. Inform. Kew 1896(119): 193. 1896; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 91. 1896; Su, Q. J. Chin. For. 20(4): 103, pl.3. 1987; Lin, Orch. Fl. Taiwan 631, f.302. 2019. *Empusa henryi* (Rolfe) T.C. Hsu, Ill. Fl. Taiwan 2: 17. 2016. **Type:** Taiwan: S. Cape, *A. Henry 2074* (holotype K000078911). 齒唇羊耳蘭

Liparis shaoshunia S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 230. 1977. **Type:** Pingtung, Nanjenshan, 300 m, Jan. 24, 1976, S.S. Ying s.n. (holotype NTUF, photo F00000319 in PoT).

Liparis kawakamii Hayata, Icon. Pl. Formosan. 4: 28, f.5. 1914; Lin, Orch. Fl. Taiwan 636, f.303. 2019. *Cestichis kawakamii* (Hayata) Maek., Iconogr. Pl. Asiae Orient. 2: 102. 1937. *Liparis plicata* var. *kawakamii* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 474. 1977. **Type:** Taiwan: Location unknown, *T. Kawakami s.n.* (isotype TAI6835). ●川上氏羊耳蘭

Liparis laurisilvatica Fukuy., Ann. Rep. Taihoku Bot. Gard. 3: 83. 1933; Masam., J. Geobot. 18(2): 9, pl.160. 1970; Lin, Orch. Fl. Taiwan 636, f.304. 2019. *Cestichis laurisilvatica* (Fukuy.) Maek., Iconogr. Pl. Asiae Orient. 2: 102. 1937. **Type:** Taiwan: Yilan: Mt. Bonbongoe [繡繡山], inter Tamaru et Taishoo prope Dakusui, ad 3000 ped. alt., Oct. 1933 *N. Fukuyama 4101* (holotype KPM-NA0105556 without Fukuyama's no., photo T00064 in PoT); Shinchiku, Nanshoo mt. Rokujoo-taizan, 5000 ped. Oct. 1932, *N. Fukuyama 4108* (paratype); Taichu: Mt. Hassen-zan, Oct. 1931, *N. Fukuyama 4109* (paratype). ●小花羊耳蘭

Liparis cespitosa auct. non (Thouars) Lindl.: Lin, Native Orch. Taiwan 215. 1977.

Liparis mannii Rehb. f., Flora 55: 275. 1872; Seidenf., Dansk Bot. Ark. 31(1): 60, f.36. 1976; id., Opera Bot. 114: 138. 1992; Aver., Turczaninowia 16(1): 104, f.51g, h. 2013; Hsu, Forestry Research Newsletter 20(3): 22, 2013; Lin, Orch. Fl. Taiwan 640, f.305. 2019. **Type:** India: Assam. Dec. 1889 (holotype W "Assam, *G. Mann 27*, Herb. Reichenbach 46235" according to Turczaninowia 19 (2): 34–49. 2016); isotype: *G. Mann # s.n.* (G00354689). 良如羊耳蘭

Liparis liangzuensis T.P. Lin & W.M. Lin, Taiwania 56(4): 315–316. 2011. **Type:** Taiwan: Taipei, Fushan, Mar. 18, 2011, *L.Z. Chang s.n.* (holotype TAI276924).

Liparis nakaharae Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 310–311. 1911; Lin, Orch. Fl. Taiwan 641, f.307. 2019. *Cestichis nakaharae* (Hayata) Kudô, J. Soc. Trop. Agric. 2: 147. 1930. **Type:** Taiwan: Taito, Manchosha, Jan. 1906, *T. Kawakami et G. Nakahara 766* (holotype TI, photo T00993 in PoT; isotypes K000364663, TAI6852, 6853, 6854). ●虎頭石

Liparis taiwaniana Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 311–312. 1911. *Cestichis taiwaniana* (Hayata) Nakai, Bot. Mag. (Tokyo) 30: 148. 1916. **Type:** Taiwan: Nantou: Randaizan, Jan. 1908, *T. Kawakami et U. Mori 6309*.

Liparis distans auct. non Clarke: Lin, Native Orch. Taiwan 2: 222. 1977.

Liparis nervosa (Thunb.) Lindl., Gen. Sp. Orch. Pl. 26. 1830; Forbes & Hemsl., J. Linn. Soc., Bot. 36: 7. 1903; Matsum. & Hayata, J. Coll. Sci. Univ. Tokyo 22: 406. 1906; Lin, Native Orch. Taiwan 2: 231, ph.104. 1977 & Orch. Fl. Taiwan 646, f.308. 2019. *Ophrys nervosa* Thunb., Syst. Veg. ed. 14, 814. 1784. *Empusa nervosa* (Thunb.) T.C. Hsu, Ill. Fl. Taiwan 2: 18. 2016. *Epidendrum nervosum* (Thunb.) Thunb., Trans. Linn. Soc. London 2: 327. 1794. **Type:** E. Japan: between Osaka and Yedo, collected by C.P. Thunberg, unknown date, UPS-Thunb 21373 (*Ophrys nervosa*, *Cymbidium nervosum* and *Epidendrum nervosum* written on label, Bot. Mus. Uppsala) is designated as holotype here. 脈羊耳蘭

Liparis nokoensis Fukuy., Bot. Mag. (Tokyo) 48(571): 435. 1934; Lin, Orch. Fl. Taiwan 648, f.309. 2019. *Cestichis nokoensis* (Fukuy.) Maek., Iconogr. Pl. Asiae Orient. 2: 102. 1937. **Type:** Taiwan: Taichu, Nookoo-goe [能高鞍部], July 1930, *N. Fukuyama 4129* (holotype KPM-NA0105557 without Fukuyama's no., photo T00065 in PoT). ●能高羊耳蘭

Liparis odorata (Willd.) Lindl., Gen. Sp. Orchid. Pl.: 26. 1830; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 91. 1896; Yu, Orchids Taiwan: A Field Guide 433, ph. 2024. *Empusa odorata* (Willd.) T.C. Hsu, Ill. Fl. Taiwan 2: 19. 2016. *Malaxis odorata* Willd., Sp. Pl., ed. 4. 4: 91. 1805. **Type:** India. Orientali. 香花羊耳蘭

Liparis reckoniana T.C. Hsu, Taiwania 58(1): 1–4, f.1A–C, 2. 2013. **Type:** Taiwan: Pingtung, Chingshuiying, 1300–1600 m, Apr. 16, 2012, *T.C. Hsu 5600* (holotype TAI6). ●雲頂羊耳蘭



Liparis rubrotincta T.C. Hsu, *Taiwania* 58(1): 4, f.1D–F, 3. 2013; Lin, *Orch. Fl. Taiwan* 650, f.310. 2019. **Type:** Taiwan: Taichung, Heping, Tochiatunshan 2000–2500 m, June 20, 2006, *T.C. Hsu 527* (holotype TAIF; isotype HAST). ●絳唇羊耳蒜

Liparis sasakii Hayata, *Icon. Pl. Formosan.* 4: 32, f.9. 1914; Lin, *Orch. Fl. Taiwan* 650, f.311. 2019. *Liparis krameri* Franch. & Sav. var. *sasakii* (Hayata) T. Hashim, *Bull. Natl. Sci. Mus. Tokyo*, ser. B 13(1): 39. 1987; Su, *Q. J. Chin. For.* 22(2): 29, pl.9. 1989. **Type:** Taiwan: Alisan, 6700 ped. May [13], 1913, *S. Sasaki s.n.* (holotype TI, photo T00995 in PoT; isotype Alisan [二萬平], TAIF6866). ●尾唇羊耳蘭

Liparis somae Hayata, *Icon. Pl. Formosan.* 4: 33, f.6. 1914; Lin, *Orch. Fl. Taiwan* 653, f.312. 2019. *Cestichis somai* Hayata *nom. nud. in sched.* **Type:** Taiwan: Pingtung, Kuskusu, Jan. 1912, *T. Soma s.n.* (holotype TI, photo T00996 in PoT). 高士佛羊耳蘭

Liparis sikkimensis Luckson & S. Kumar, *J. Indian Bot. Soc.* 73: 159. 1994. **Type:** India: Sikkim, Dikchu, Nov. 10, 1992. *Lucksom & S. Kumar 197* (holotype CAL; isotype 197 *b.c.d.* Gangtok Forest Department Herb.).

Liparis sootenzanensis Fukuy., *Ann. Rep. Taihoku Bot. Gard.* 3: 84. 1933; Lin, *Native Orch. Taiwan* 2: 238, ph.120, 121. 1977 & *Orch. Fl. Taiwan* 653, f.313. 2019. *Liparis macrantha* var. *sootenzanensis* (Fukuy.) S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 224. 1977. *Liparis nigra* var. *sootenzanensis* (Fukuy.) T.S. Liu & H.J. Su, *Fl. Taiwan* 5: 1047. 1978. *Empusa sootenzanensis* (Fukuy.) T.C. Hsu, *Ill. Fl. Taiwan* 2: 20. 2016. **Type:** Taiwan: Shinchiku, minamisootenzan [南插天山], May 1933, *N. Fukuyama 4104* (holotype KPM-NA0105558, photo T00066 in PoT). 黃花(插天山)羊耳蘭

Liparis flava (Aver.) Aver., *Updated Checklist Orch. Vietnam*: 79. 2003. *Liparis nigra* var. *flava* Aver., *Bot. Zhurn. (Moscow & Leningrad)* 84(10): 128. 1999. **Type:** S. Vietnam, Prov. Lam Dong, Lac Duong, 1500–1650 m, Apr. 26, 1997. *N VH 4426* (holotype LE; isotype AAU, HN, MO, P).

Liparis viridiflora (Blume) Lindl., *Gen. Sp. Orch. Pl.* 31. 1830; Seidenf., *Dansk Bot. Ark.* 31(1): 82, f.55. 1976; Lin, *Native Orch. Taiwan* 2: 240, ph.117. 1977 & *Orch. Fl. Taiwan* 659, f.314. 2019. *Malaxis viridiflora* Blume, *Bijdr. Fl. Ned. Ind.* 8: 392. 1825. **Type:** Java: in the forests of the Solassie valleys in the Province of Tjanjor, *Blume s.n.* (holotype L0061587) (Based on Tetsana *et al.*, *Phytotaxa* 421 (1): 50. Oct. 2019). 長腳羊耳蘭

Liparis longipes Lindl. *Gen. Sp. Orch. Pl.*: 30. 1830; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 91. 1896; A. Hsieh, *Q. J. Taiwan Mus.* 8(3): 253. 1955. *Cestichis longipes* (Lindl.) Ames, *Orchidaceae* 1: 75. 1905. **Types:** India: *M. R. Smith s.n.*; Sri Lanka: *Macrae s.n.* Taiwan: Banksing, 1895, *A. Henry 1592*; S. Cape, *A. Henry 1979*.

Luisia lui T.C. Hsu & S.W. Chung, *Taiwania* 55(4): 363, f.1A, B, 2. 2010; Lin, *Orch. Fl. Taiwan* 660, f.317. 2019. **Type:** Taiwan: Pingtung, Shuangliu, 200–300 m, Mar. 26, 2010, *T.C. Hsu 2600* (holotype TAIF). ●呂氏金釵蘭

Luisia megasepala Hayata, *Icon. Pl. Formosan.* 4: 85, f.41. 1914; Masam., *J. Geobot.* 21(3): 11, f.195. 1974; Lin, *Native Orch. Taiwan* 2: 248, ph.122–123. 1977 & *Orch. Fl. Taiwan* 662, f.318. 2019. **Type:** Taiwan: Taipei, cult. Apr. [Mar. 22], 1914, *B. Hayata s.n.* (holotype TI, photo T01151 in PoT). ●台灣釵子股

Luisia teres (Thunb.) Blume, *Rumphia* 4: 50. 1849; Lin *et al.*, *Taiwania* 61(2): 107. 2016; Lin, *Native Orch. Taiwan* 2: 251, ph.124–125. 1977 & *Orch. Fl. Taiwan* 662, f.319. 2019. *Epidendrum teres* Thunb., *Syst. Veg. ed.* 14: 818. 1784 (July). *Icones Plantatum Japonicarum Fasc.* 1: 7. 1794. **Type:** E. Japan: collected by C.P. Thunberg, unknown date, UPS-Thunb 21386 (no flower, Bot. Mus. Uppsala) 牡丹金釵蘭

Luisia teres var. *botanensis* (Fukuy.) T.P. Lin, *Native Orch. Taiwan* 2: 261, ph.124, 125. 1977. *L. botanensis* Fukuy., *Bot. Mag. (Tokyo)* 49(583): 442, f.5. 1935. **Type:** Taiwan: Takao, Botan-ike [牡丹池], May 29, 1934, *N. Fukuyama 4550* (holotype KPM-NA0105563, photo T00070 in PoT).

Luisia tristis (G. Forst.) Hook. f., *Fl. Brit. India* 6: 25. 1890; Lin *et al.*, *Taiwania* 61(2): 107. 2016; Lin, *Orch. Fl. Taiwan* 665, f.320. 2019. *Epidendrum triste* G. Forst., *Forst. Prodr.* N. 314. 1786. *Cymbidium triste* (G. Forst.) Willd., *Sp. Pl.*, ed. 4. 4: 99. 1805; Hook. f., *Curtis's Bot. Mag.* pl.3648. 1839. **Type:** New Caledonia, *J.R. Forster s.n.* (holotype K000891532). 心唇金釵蘭

Luisia teretifolia Gaudich., *Voy. Uranie*: 426, t.37. 1829. *Trichorhiza teretifolia* Lindl. ex Steud., *Nomencl. Bot. [Steudel]*, ed. 2. ii. 702. 1841. **Type:** Insulis Mariannis (The Mariana Islands).

Luisia cordata Fukuy., *Bot. Mag. (Tokyo)* 48(569): 306. 1934. **Type:** Taiwan: Taitung, Aroei, [大武 (巴壟衛)], Daibu (Paroe), collected in Jan. 1933 and flowering May 1933, *N. Fukuyama 3984* (holotype KPM-NA0105564, photo T00071 in PoT).

Malaxis monophyllos (L.) Sw., *Kongl. Vetensk. Acad. Nya Handl.* 21: 234. 1800; Lin, *Native Orch. Taiwan* 2: 262, ph.131. 1977 & *Orch. Fl. Taiwan* 667, f.321. 2019. *Ophrys monophyllos* L., *Sp. Pl.* 947. 1753. *Microstylis monophyllos*



(L.) Lindl., Gen. Sp. Orch. Pl. 19. 1830. **Lectotype:** Herb. Linn. No. 1056.17, left specimen (LINN), Baumann & al. in Mitteilungsbl. Arbeitskr. Heim. Orchid. Baden-Württemberg 21: 501, Abb. 27. 1989. 阿里山小柱蘭

Microstylis arisanensis Hayata, Icon. Pl. Formosan. 6: 68, pl.11, f.10. 1916. **Type:** Taiwan: Alisan, 8000 ped. June 1914, U. Faurie 924 (holotype TI, photo T01154 in PoT).

Malaxis taiwaniana S.S. Ying, Q. J. Chin. For. 8(4): 143. 1975. **Type:** Taiwan: Kuankao [觀高] 2700 m, July 26, 1974, S.S. Ying 2920 not found.

Microtis unifolia (G. Forst.) Rehb. F., Beitr. Syst. Pflanzenk. 62. 1871; Sasaki, List Pl. Formosan. 134. 1928; Lin, Native Orch. Taiwan 1: 210, ph.132. 1975 & Orch. Fl. Taiwan 201, f.84. 2019. *Ophrys unifolia* G. Forst, Fl. Ins. Austr. 59. 1786. **Type:** New Zealand, *Forster 167* (GOET, lectotype, designated by A.S. George 1971 as the holotype [ref.: R. Bates, J. Adelaide Bot. Gard. 7(1): 68. 1984]) photo; P, isotype, photo. 韭葉蘭

Microtis formosana Schltr. ex Masam., Sci. Rep. Kanazawa Univ., Biol. 9: 122. 1964. *M. formosana* Schltr., Bot. Jahrb. Syst. 45(1): 382, in obs. 1911. *nom. nud.* Taiwan: Taipei, Mar. 27, 1927, S. Sasaki s.n. (TAI147621).

Neottia acuminata Schltr., Acta Hort. Gothob. 1: 141. 1924; Yang *et al.*, Manu. Taiwan Vasc. Pl. 5: 271. 2002; Lin *et al.*, Taiwania 61(2):108. 2016 & Ill. Native Taiwan. Orch. 532, f.340. 2022. **Type:** China: Szechuan, Dongrergo, K.A.H. Smith 3859 (holotype UPS:BOT:V-140218). Taiwan: Ilan: Chiliting (Kirittoi), Jan. 2, 1938, K. Segawa s.n. (KPM, photo G00638 in PoT). The plant in Taiwan has not been formally published, and the Ilan collection is about 16 cm tall above the tuberoid. 鳥巢蘭

Neottia parviflora (King & Pantl.) Schltr., Acta Hort. Gothob. 1: 142. 1924, *nom. illeg.* (*non N. parviflora* Sm. 1813). *Aphyllorchis parviflora* King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65: 128. 1896. **Type:** India: Lachen & Chumbi, 11,000 ft., June 15, 1895, R. Pantling 383 (syntype K000387559, K000387587; isosyntype E00394237, GH00000197, GH00000198).

Neottia atayalica T.C. Hsu, Ill. Fl. Taiwan 2: 120. 2016. **Type:** Taiwan: Hsinchu, between Mayangchih and Chungpaping, July 4, 2007, T.C. Hsu 878 (holotype TAI496965). 泰雅雙葉蘭

Neottia cinsbuensis T.P. Lin & D.M. Huang, Taiwania 62(4): 349–355, f.1D, E, 3. 2017. **Type:** Taiwan: Hsinchu Co., Cinsbu, 2450 m, July 8, 2017, H.C. Tsai s.n. (holotype TAI286832). ●鎮西堡雙葉蘭

Neottia hohuanshanensis T.P. Lin & Shu H. Wu, Taiwania 57(4): 381, f.1D, 4. 2012. **Type:** Taiwan: Hohuanshan, July 23, 2012, T.P. Lin s.n. (holotype TAI281320). ●合歡山雙葉蘭

Neottia japonica (Blume) Szlach., Fragm. Florist. Geobot., Suppl. 3: 117. 1995; Lin, Orch. Fl. Taiwan 673, f.325. 2019. *Listera japonica* Blume, Coll. Orch. 136, pl.38, f.2, pl.48. 1859; Masam., Pl. Jpn. 8: 200. 1969. **Type:** Japan not located. Described from Japan after Siebold's collection. 小雙葉蘭

Listera shaoii S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 236. 1977. *Neottia shaoii* (S.S. Ying) Szlach., Fragm. Florist. Geobot., Suppl. 3: 118. 1995. **Type:** Taiwan: Ssuuyanyakou [思源啞口], 1400–1600 m, Apr. 2, 1977, S.S. Ying 5910 (holotype NTUF, photo F00008214 in PoT); S.S. Ying 5925.

Neottia kuanshanensis (H.J. Su) T.C. Hsu & S.W. Chung, Taiwania 54(1): 83. 2009; Lin, Orch. Fl. Taiwan 674, f.326. 2019. *Listera kuanshanensis* H.J. Su, Q. J. Exp. For. Natl. Taiwan Univ. 13(3): 206. 1999. **Type:** Taiwan: Kaohsiung, Kuanshan 2650 m, Aug. 19, 1998, C.C. Chen s.n. (holotype HAST106478). ●關山雙葉蘭

Neottia meifongensis (H.J. Su & C.Y. Hu) T.C. Hsu & S.W. Chung, Taiwania 54(1): 83. 2009; Lin, Orch. Fl. Taiwan 680, f.327. 2019. *Listera meifongensis* H.J. Su & C.Y. Hu, Taiwania 45(3): 240, pl.1. 2000. **Type:** Taiwan: Nantou, Meifong, 2700 m, June 27, 1999, C.Y. Hu 226 (holotype HAST105322); Hualien, Hohuanshan, 3000 m, July 25, 1999, H.J. Su & C.Y. Hu 9592 (paratype NTUF). ●梅峰雙葉蘭

Neottia morrisonicola (Hayata) Szlach., Fragm. Florist. Geobot. Suppl. 3: 118. 1995; Lin, Orch. Fl. Taiwan 680, f.328. 2019. *Listera morrisonicola* Hayata, Icon. Pl. Formosan. 2: 140. 1912; Masam., J. Geobot. 14(4): pl.117. 1966. **Type:** Taiwan: Mt. Morrison, 11,000 ped., Oct. 9, 1909, T. Kawakami *et S. Sasaki s.n.* (holotype TI, photo T00998 in PoT; isotype TAI6867). ●玉山雙葉蘭

Listera taiwaniana S.S. Ying, Bull. Exp. For. Natl. Taiwan Univ. 114: 156. 1974. *Neottia taiwaniana* (S.S. Ying) Szlach., Fragm. Florist. Geobot., Suppl. 3: 119. 1995. **Type:** Taiwan: Mabalashesan [馬勃拉斯山], 3650 m, July 23, 1974, S.S. Ying 2732 (holotype NTUF, photo F00006908 in PoT).

Neottia nankomontana (Fukuy.) Szlach., Fragm. Florist. Geobot., Suppl. 3: 118. 1995; Lin, Orch. Fl. Taiwan 680, f.329. 2019. *Listera nankomontana* Fukuy., Bot. Mag. (Tokyo) 49(581): 291. 1935. **Type:** Taiwan: Nankotaizan, inter



Kirittoi (2570 m) et Bunakkei (3500 m), July 1933, collected by J. Ohwi, *N. Fukuyama 4139* (holotype KPM-NA0105561 without Fukuyama's no., photo T00068 in PoT). ●南湖雙葉蘭

Neottia piluchiensis T.P. Lin, *Taiwania* 60(4): 169, f.3, 4A. 2015. **Type:** Taiwan: Nantou, Piluchi, 2400 m, June 22, 2011, *T.P. Lin s.n.* (holotype TAI277369). ●碧綠溪雙葉蘭

Neottia pseudonipponica (Fukuy.) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 118. 1995; Lin *et al.*, *Taiwania* 61(2): 109. 2016; Lin, *Orch. Fl. Taiwan* 681, f.331. 2019. *Listera pseudonipponica* Fukuy., *Bot. Mag. (Tokyo)* 49(586): 665. 1935; Chung, *Orch. Taiwan* 87. 2008. **Type:** Taiwan: Tosei-gun [東勢], Seki-heki-ko [石壁坑]. Jan. 1934, *Nakazawa 4686* (holotype TAI118732) flower is missing. 假日本雙葉蘭

Listera fugongensis X.H. Jin, *Brittonia* 59: 243. 2007. *Neottia fugongensis* (X.H. Jin) T.C. Hsu & S.W. Chung, *Taiwan J. For. Sci.* 24(1): 77. 2009; *N. fugongensis* (X.H. Jin) J.M.H. Shaw, *Orch. Rev.* 125(1319, Suppl.): 58. 2017. **Type:** China: Yunnan, Fugong Co., Gaoligongshan, 2940 m, Aug. 27, 2005, *X.H. Jin 7914* (holotype: KUN; isotype: PE). **syn. nov.**

Neottia microauriculata T.C. Hsu, *Ill. Fl. Taiwan* 2: 127. 2016. **Type:** Hsinchu, Takechin Stream, 3000 m, July 23, 2012, *T.C. Hsu 6066* (holotype TAIIF).

Neottia ruisuiensis T.P. Lin, *Taiwania* 70(1): 31–36, 2025. **Type:** Taiwan: Hualien Co.: Ruisui, 2300 m, July 5, 2024, *Fang-Mei Hsieh s.n.* (holotype TAI289924). ●瑞穗雙葉蘭

Neottia shenlengiana T.C. Hsu, *Ill. Fl. Taiwan* 2: 129. 2016; Lin, *Orch. Fl. Taiwan* 688, f.332. 2019. **Type:** Hsinchu, Takechin Stream, 2900–3100 m, July 23, 2012, *T.C. Hsu 6075* (holotype TAIIF496949). ●聖陵雙葉蘭

Neottia suzukii (Masam.) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 119. 1995; Lin, *Orch. Fl. Taiwan* 688, f.333. 2019. *Listera suzukii* Masam., *Trop. Hort.* 3: 42. 1933. *nom. nud.* & *Trans. Nat. Hist. Soc. Formosa* 23(126): 209. Aug. 1933 (description and 2 specimens were provided) & *J. Geobot.* 19(4): 11, pl.174. 1971; Liu & Su, *Fl. Taiwan* 5: 1052. 1978. **Syntype:** Taiwan: Taiheizan, *S. Suzuki s.n.*; Taito, Kaimosu, *Segawa s.n.* Neither one found. ●三角雙葉蘭

Neottia deltoidea (Fukuy.) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 117. 1995. *Listera deltoidea* Fukuy., *Bot. Mag. (Tokyo)* 49(587): 759. 1935. **Type:** Taiwan: Sintiku, monte Sotenzan, 1000 m [插天山], collected by K. Segawa, Feb. 15, 1935, *N. Fukuyama 4730* (holotype KPM-NA0105559 without Fukuyama's no., photo T00006 in PoT).

Listera uraiensis S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 240. 1977. *Neottia uraiensis* (S.S. Ying) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 119. 1995. **Type:** Taiwan: Patourershan, 1000 m, Apr. 13, 1975, *S.S. Ying 3582* (syntype NTUF, photos F00008218 & F00008219 in PoT).

Neottia taizanensis (Fukuy.) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 119. 1995; Lin, *Orch. Fl. Taiwan* 695, f.334. 2019. *Listera taizanensis* Fukuy., *Bot. Mag. (Tokyo)* 48(571): 431. 1934; Liu & Su, *Fl. Taiwan* 5: 1053. 1978. **Type:** Taiwan: Nankotaizan, inter Kirittoi et Bunakkei [南湖園谷–基力亭], July 1933, *N. Fukuyama 4123* (holotype KPM-NA0105562 without Fukuyama's no., photo T00069 in PoT). ●大山雙葉蘭

Neottia wardii (Rolfe) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 119. 1995. Lin, *Orch. Fl. Taiwan* 695, f.335. 2019. *Listera wardii* Rolfe, *Notes Roy. Bot. Gard. Edinburgh* 8: 127. 1913. *Listera grandiflora* Rolfe, *Bull. Misc. Inform. Kew* 1896: 200. 1896. *Neottia grandiflora* (Rolfe) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 117. 1995. not Hooker (1830), nor (A. Richard) Kuntze (1891), nor Schlechter (1912). **Type:** China: N.W. Yunnan, Salwen, Mekong divide, E. slope, 1000 ft, June 1911, *F. Kingdon-Ward 149* (holotype E00383567). 大花雙葉蘭

Neottia fukuyamae T.C. Hsu & S.W. Chung, *Taiwan J. For. Sci.* 24(1): 77. 2009. *nom. nov.* *Listera macrantha* Fukuy., *Annu. Rep. Taihoku Bot. Gard.* 3: 86. 1933 *non Neottia macrantha* Sweet 1830; Masam., *J. Geobot.* 14(4): pl.116. 1966; Lin, *Native Orch. Taiwan* 3: 160, ph.93. 1987. *Neottia formosana* S.C. Chen, S.W. Gale & P.J. Cribb, *Fl. China* 25: 192. 2009, *nom. superfl.* (Date of publication of the printed volume: Sept. 28, 2009). **Type:** Taiwan: Nankotaizan, inter Kirittoi et Bunakkei, July 1933, *Fukuyama 4140* (holotype KPM-NA0105560 without Fukuyama's no., photo T00067 in PoT).

Neottia fukuyamae var. *chilaiensis* T.C. Hsu, *Ill. Fl. Taiwan* 2: 123. 2016. **Type:** Taiwan: Hualien, Hsiao-chilai trail, 2800–3100 m, July 1, 2012, *T.C. Hsu 5972* (holotype TAIIF496966).

Listera longiflora W.M. Lin, *nom. nud.* *Wild Orch. Taiwan* 618, f.2014. *nom. nud.*

Neottia breviscapa T.C. Hsu, *Ill. Fl. Taiwan* 2: 121. 2016. **Type:** Taiwan: Hualien, Tzuen, June 15, 2011, *T.C. Hsu 4162* (holotype TAIIF496959).

Neottia tatakaensis T.C. Hsu & H.C. Hung, *Ill. Fl. Taiwan* 2: 130. 2016. **Type:** Taiwan: Nantou Co., Mt. Lulin, 2600–2700 m, July 15, 2015, *T.C. Hsu 7925* (holotype TAIIF496957).

Nephelaphyllum tenuiflorum Blume, *Bijdr. Fl. Ned. Ind.* 8: 373. 1825; Seidenf., *Opera Bot.* 89: 21, f.6, pl.2a. 1986; id., *Opera Bot.* 114: 82. 1992; Wood, *Orch. Malay. Singapore*: 151, f.64g–k. 1992; Aver., *Ident. Guide Vietnam. Orch.*: 91. 1994 & *Turczaninowia* 16(1): 29, f.12c, d. 2013; Lin & Huang, *Taiwania* 62(4): 352–355, f.1F–H, 4. 2017. *Tainia tenuiflora* (Blume) Gagnep., *Bull. Mus. Natl. Hist. Nat., ser. 2, 4*: 706. 1932. **Type:** Indonesia: Jawa Barat (W. Java)



(“Salak”), *Blume s.n.*, (K000943501, L0940460, NY1104662, all are possible *Types*). Taiwan: Hsinchu Co., 1200 m, July 27, 2017, *D.M. Huang s.n.* (TAI286833). 雲葉蘭

Nervilia alishanensis T.C. Hsu, S.W. Chung & C.M. Kuo, *Taiwania* 57(3): 274, f.1E–H, 3. 2012; *Lin, Orch. Fl. Taiwan* 698, f.337-1. 2019. **Type:** Taiwan: Chiayi, Alishan Township, Fushan Tribe, 1200–1400 m, Mar. 21, 2012, T.C. Hsu 5497 (holotype TAI435426); Shihtzulu [十字路] 1400–1500 m, Oct. 12, 2011, T.C. Hsu 4838 (paratype TAI435427); Shihtzulu, Apr. 12, 2012 blossom, T.C. Hsu 5567 (paratype TAI435428). 阿里山脈葉蘭

Nervilia brevilobata C.S. Leou, C.L. Yeh & S.W. Gale, *Nordic J. Bot.* 31: 403–407. 2013; Gale *et al.*, *Syst. Bot.* 40(2): 413–425. 2015.
Type: Taiwan: Pingtung, Lilungshan, 600 m, Mar. 10, 2012, *S.I. Hsieh 001* (holotype PPI).

Nervilia concolor (Blume) Schltr., *Bot. Jahrb. Syst.* 45: 404. 1911; *Lin, Orch. Fl. Taiwan* 699, f.338. 2019. *Cordyla concolor* Blume, *Bijdr. Fl. Ned. Ind.* 416. 1825. *Roptrostemon concolor* (Blume) Lindl., *Gen. Sp. Orch. Pl.* 453. 1840.

Pogonia concolor (Blume) Blume, *Mus. Bot.* 1: 32. 1849. **Type:** Java: Mt. Salak, *Blume s.n.* 東亞脈葉蘭/一點癩

Nervilia aragoana Gaudich., *Freye. Voy. Uranie, Bot.* 422, f.35. 1829; Matsum. & Hayata, *J. Coll. Sci. Univ. Tokyo* 22: 421. 1906; Seidenf., *Dansk Bot. Ark.* 32(2): 164, f.103–105. 1978; *Lin, Native Orch. Taiwan* 3: 171, ph.97–98. 1987. *Pogonia nervilia* Blume, *Ann. Mus. Bot. Lugduno-Batavum* 1: 32. 1849. *nom. superfl.*; Hayata, *Mater. Fl. Formosa.* 345. 1911. **Type:** Guam: Mariana Isl., *C. Gaudichaud s.n.* (holotype P00315127).

Nervilia yaeyamensis Hayata, *Icon. Pl. Formosan.* 2: 140. 1912. **Type:** Taiwan: Yaeyama: Ishigakishima, July 1910.

Nervilia cumberlegii Seidenf. & Smitinand, *Orch. Thail.* 4(2): 729, f.541. 1965; Leou, *Q. J. Exp. For. Natl. Taiwan Univ.* 11(2): 75, f.2, 4. 1997; *Lin et al.*, *Taiwania* 61(2): 109, 2016; *Lin, Orch. Fl. Taiwan* 705, f.340. 2019. **Type:** Thailand: Khao Yai, 750 m, *Cumberlege 1190* (holotype C713, spirit; K spirit, 25605.000 & 27652.000). 古氏脈葉蘭

Nervilia hungii T.C. Hsu, *Ill. Fl. Taiwan* 2: 134. 2016. **Type:** Taiwan: Pingtung: Mt. Laofou, 300 m, May 16, 2010, *H.C. Hung s.n.* (holotype TAI4F). ● 鑷唇脈葉蘭

Nervilia falcata auct. non (King & Pantl.) Schltr.: Yeh *et al.*, *BioFormosa* 45(1): 39–44. 2010.

Nervilia lanyuense S.S. Ying, *Mem. Coll. Agric. Natl. Taiwan Univ.* 29(2): 55. 1989; *Lin, Orch. Fl. Taiwan* 707, f.341. 2019. **Type:** Taiwan: Lanyu: Tungching 300 m, Nov. 14, 1987, *S.S. Ying s.n.* (holotype NTUF, photo F00006907 in PoT; isotypes NTUF, photo F00000170–171 in PoT). ● 蘭嶼脈葉蘭

Nervilia fukuyamai Masam., *J. Geobot.* 25(4): 13, f.244. Mar. 1978. *nom. nud.*

Nervilia linearilabia T.P. Lin, *Taiwania* 59(4): 363, f.1E, F, 5. 2014. **Type:** Taiwan: Pingtung, Tahanshan, 900 m, Apr. 13, 2014, *S.S. Lin s.n.* (holotype TAI 284097). ● 小麥脈葉蘭

Nervilia plicata (Andrews) Schltr., *Bot. Jahrb. Syst.* 45: 403. 1911; Seidenf., *Dansk Bot. Ark.* 32(2): 156, f.100. 1978; Su, *Q. J. Chin. For.* 21(1): 122, pl.4. 1988; *Lin, Orch. Fl. Taiwan* 710, f.343. 2019. *Arethusa plicata* Andrews in *Bot. Repos.* 5: 321. 1803. **Type:** Andrews, *Bot. Repos.* 5: t.321. 1803 (lectotype designated by Atthanagoda *et al.*, *Rheedea* 31(3): 167. 2021; plate 321 is based on the collection, *A.B. Lambert s.n.*, from East India in 1803). 紫背一點癩/紫花脈葉蘭

Pogonia purpurea Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 345–346. 1911. *Nervilia purpurea* (Hayata) Schltr., *Repert. Spec. Nov. Regni Veg.* 10: 6. 1911. *Nervilia discolor* var. *purpurea* (Hayata) S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 253. 1977. *Nervilia plicata* var. *purpurea* (Hayata) S.S. Ying, *Coloured Ill. Orch. Taiwan* 2: 276. 1990. **Type:** Taiwan: Hengchun, July 1906, *T. Kawakami 5150* (holotype TI, photo T01185 in PoT).

Nervilia purpureotincta T.C. Hsu, *Ill. Fl. Taiwan* 2: 135. 2016; *Lin, Orch. Fl. Taiwan* 710, f.344. 2019. **Type:** Pingtung, Kueitien, 50 m, June 6, 2012, T.C. Hsu 5850 (holotype TAI4F). ● 寬唇脈葉蘭

Nervilia dilatata auct. non (Blume) Schltr.: *Chung, Orch. Taiwan* 2: 109. (ph.). 2008.

Nervilia septemtrionarius T.P. Lin, *Taiwania* 63(3): 241–247, f.2D–F, 5. 2018. **Type:** Taiwan: Taoyuan City, Fuxing District, 1100 m, *F.M. Hsieh and C.H. Liu s.n.* leafy plant collected on Aug. 23, 2017, cult. flower on Mar. 16 and Apr. 18, 2018 (holotype TAI287416). ● 鋸形脈葉蘭

Nervilia simplex (Thouars) Schltr., *Bot. Jahrb. Syst.* 45: 401. 1911 & Feddes *Repert. Spec. Nov. Regni Veg. Beih.* 33: 120. 1925; Bosser, *J. Adansonia sér.* 3, 26(1): 56–59. 2004 (*N. crocifformis* synonymized); Atthanagoda *et al.*, *Rheedea* 31(3): 170, f. 2021. *Arethusa simplex* Thouars, *Hist. Orch.*: t.24. 1822. *nom. inval.* (ICN Art. 36.1, author did not accept the genus). *Epidendrum simplex* Spreng., *Syst. Veg. ed.* 16. 3: 736. 1826. *Pogonia simplex* (Spreng) Rchb. f., *Xenia*



Orch. 2: 92. 1865. **Type:** Mauritius: *s. loc.*, 1793–1796; Hist. Orchid.: Plate G [=pl. 24].1822 (lectotype, designated by B. Pettersson in Acta Univ. Ups., Comp. Sum. Upps. Diss. Fac. Sci. 281:19. 1990). 四重溪脈葉蘭

Nervilia crociformis (Zoll. & Moritzi) Seidenf., Dansk Bot. Ark. 32(2): 151, f.92. 1978; Lin, *Taiwania* 52(4): 281–286, f.2C, 3. 2007; Lin *et al.*, *Taiwania* 61(2): 109, 2016; Lin, Orch. Fl. Taiwan 700, f.339. 2019. **Type:** Java: Tjikoya. Oct. 11, 1842, *Zollinger 762* (holotype P00337729; isotypes P00337728, LE).

Nervilia taitoensis (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. 10: 6. 1911; Lin, *Taiwania* 66(1): 19, f.7. 2021. *Pogonia taitoensis* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 346. 1911. **Type:** Taiwan: Taito: Rino, *T. Kawakami s.n.* (TI T01158). ●單花脈葉蘭

Nervilia punctata (Blume) Schltr. var. *nipponica auct. non* (Makino) F. Maek.: Lin, Native Orch. Taiwan 3: 174, ph.99. 1987. Taiwan: Tashuehshan, Aug. 23, 1973, *T.P. Lin 49* (TAIF).

Nervilia taiwaniana S.S. Ying, Q. J. Chin. For. 11(2): 104. 1978; Lin, Orch. Fl. Taiwan 712, f.346. 2019. **Type:** Taiwan: Nantou: Tungpu, Yuan-lung Falls, July 5, 1973, *S.S. Ying 1915* (holotype NTUF, photo F00006905 in PoT).

Nervilia tahanshanensis T.P. Lin & W.M. Lin, *Taiwania* 54: 329–330, f.2H. 2009. *N. taiwaniana* var. *tahanshanensis* (T.P. Lin & W.M. Lin) T.P. Lin, *Taiwania* 61(2): 110. 2016. **Type:** Taiwan: Pingtung: Mt. Tahan, 1000 m, July 20, 2009, *W.M. Lin s.n.* (holotype TAI269081).

Nervilia taitoensis* var. *ratis (T.P. Lin & Y.N. Chang) T.P. Lin, Ill. Native Taiwan Orch. 561, f.364-2. 2022. *Nervilia ratis* T.P. Lin & Y.N. Chang, *Taiwania* 58(4): 260–264, f.2G, H, 5. 2013. *Nervilia taiwaniana* var. *ratis* (T.P. Lin & Y.N. Chang) Lin, Orch. Fl. Taiwan 719, f.364-2. 2019. **Type:** Taiwan: Pingtung: Mt. Tahan, 900 m, Apr. 2013, *S.S. Lin s.n.* (holotype TAI282381). ●三伯脈葉蘭

Oberonia caulescens Lindl., Gen. Sp. Orch. Pl. 15. 1830; Seidenf., Dansk Bot. Ark. 25(3): 36. 1968; Liu & Su, Fl. Taiwan 5: 1070. 1978; Lin, Orch. Fl. Taiwan 721, f.347. 2019. *Malaxis caulescens* (Lindl.) Rchb. f., Ann. Bot. Syst. 6: 215. 1861. **Type:** Nepal: *Wallich 1950* (holotype K001114800). 二裂唇莖白蘭

Oberonia bilobatalabella Hayata, Icon. Pl. Formosan. 4: 24–25, f.4. 1914; Masam., J. Geobot. 17(1): 7, pl.147. 1969. **Type:** Taiwan: Alisan, Jan. 1912. *B. Hayata et S. Sasaki s.n.*

Oberonia costeriana J.J. Sm., Orch. Java 244. 1905; D.L. Geiger, *Blumea* 64: 127, f.4. 2019; Lin, Orch. Fl. Taiwan 723, f.348. 2019. **Type:** Indonesia: Java, Mt. Gede, at the waterfall, 1903, *Blume s.n.* (synType L0061736, L0061737); *FW Junghuhn s.n.* (syntypes L0063834); Java, Buitenzorg [= Bogor], Bobodjong, unknown collector (synType); Krawang, *De Monchy s.n.* (synType); Pekalongan, Djolotigo, *J.J. Smith s.n.* (synType). 大莖白蘭

Oberonia elmeri Ames, Leaf. Philipp. Bot. 5: 1564. 1912. **Type:** Philippines: Benguet, Baguio, Luzon Isl., Mar. 1907, *ADE Elmer 8434* (synType AMES 00101962).

Oberonia gigantean Fukuy., Bot. Mag. (Tokyo) 49(581): 295. 1935; Masam., J. Geobot. 17(1): 6, pl.146. 1969; Lin, Native Orch. Taiwan 3: 193, ph.105. 1987; Lin *et al.*, *Taiwania* 61(2): 110, 2016. **Type:** Taihoku, Shooagyokusan [小阿玉山], collected in Aug. 1933 & flowering Dec. 1933, *Fukuyama 4543* not found.

Oberonia insularis Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 310. 1911; Jin *et al.*, Acta Bot. Yunnan. 32(4): 332. 2010; Lin, Orch. Fl. Taiwan 724, f.350-1. 2019. **Type:** Taiwan: Nokozean, Jan. [14], 1907, *T. Kawakami et U. Mori 6278* (holotype TI, photo T01161 in PoT). 小騎士蘭

Hippeophyllum pumilum Fukuy., in Masam., List Vasc. Pl. Taiwan 1954 & J. Geobot. 20(4): 13, t.196. 1974. *nom. nud.* *Hippeophyllum pumilum* Fukuy. ex T.P. Lin, Native Orch. Taiwan 3: 141, ph.81. 1987. *nom. invalid.* as 2 specimens *Lin 467* and *Suzuki 9714* were included but no *Type* was designated. *Oberonia pumila* (Fukuy. ex T.P. Lin) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 2: 610. 1990. *nom. invalid.*

Hippeophyllum pumilum Fukuy. ex S.C. Chen & K.Y. Lang, Acta Phytotax. Sin. 36: 72. 1998. *nom. invalid.* *Oberonia pumila* (Fukuy. ex S.C. Chen & K.Y. Lang) S.S. Ying ex Ormerod, *Taiwania* 47(4): 242. 2002. *nom. invalid.*

Oberonia insularis* f. *rotundum (T.P. Lin & W.M. Lin) Lin, Orch. Fl. Taiwan 730, f.350-2. 2019. *O. pumila* var. *rotundum* T.P. Lin & W.M. Lin, *Taiwania* 54(4): 330, f.5, 2009; Lin *et al.*, *Taiwania* 61(2): 110. 2016. *O. insularis* var. *rotundum* (T.P. Lin & W.M. Lin) T.P. Lin, *Taiwania* 61(2): 110. 2016. **Type:** Taiwan: Hualien: between Lungshi and Lungchien, 900 m, May 2009, *W.M. Lin s.n.* (holotype TAI 268956). 圓唇小騎士蘭

Oberonia japonica (Maxim.) Makino, Ill. Fl. Jpn. 1: pl.41. 1891; Liu & Su, Fl. Taiwan 5: 1072, pl.1617. 1978; Lin, Ill. Native Taiwan Orch. 567, f.371. 2023. *Malaxis japonica* Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg, ser. 3, 22: 257. 1876. **Type:** Japan: Kyushu, Asosan, *Siebold s.n.* (syntype); Yokosuka. 1866–1867, *Savatier 3062* (syntype LE; photos TNM). 台灣莖白蘭

Oberonia formosana Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 309–310. 1911 & Icon. Pl. Formosan. 4: 25, f.3f, g, 1914; Masam., J. Geobot. 19(3): 5, pl.169. 1971; Lin *et al.*, *Taiwania* 61(2): 110, 2016; Lin, Orch. Fl. Taiwan 723, f.349, 2019. **Type:** Taiwan: Nantou, Randaizan, June [July 30], 1907, *T. Kawakami et U. Mori 3474* (holotype TI, photo T01160 in PoT; isotype TAIF22343; K000943012).

Oberonia arisanensis Hayata, Icon. Pl. Formosan. 4: 23, f.3a–e, h. 1914. *Oberonia anthropophora* Lindl. var. *arisanensis* (Hayata) T. Hashim., Proc. 12th Orch. Conf. 122. 1987; Lin, Native Orch. Taiwan 3: 178, ph.100. 1987; Lin *et al.*, *Taiwania* 61(2): 110, 2016. **Type:** Taiwan: Alisan, inter Taroyen et Funkiko [奮起湖—哆羅焉], 6000 ped. Mar. [29], 1914, *B. Hayata et T. Ito s.n.* (holotype TI, photo T01153 in PoT).



- Oberonia kusukusensis* Hayata, Icon. Pl. Formosan. 4: 26, f. 3i–k. 1914; Lin *et al.*, *Taiwania* 61(2): 110, 2016. **Type**: Taiwan: Kusukusu, July 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T01162 in PoT; isotype TAI6896).
- Oberonia falcata auct. non* King & Pantling: Lin, Native Orch. Taiwan 3: 191, ph.104. 1987.
- Oberonia japonica f. viridescens* (Makino) Honda [Nom. Pl. Jpn. ed. *emend.*: 382. 1957, *comb. nud.*] ex M. Nakaj. et H. Ohba, Fl. Jpn. 4b: 281. 2016. *O. japonica* var. *viridescens* Makino, J. Jpn. Bot. 4: 10. 1927; Lin, Ill. Native Taiwan Orch. 567. 2023. **Type**: Japan: Suruga Province, June 10, 1927, *S. Muramatsu s.n.*
- Oberonia formosana f. viridiflora*, T.P. Lin, *Taiwania* 65(4): 463–472, f.3G–I. 2020. **Type**: Taiwan: Hsinchu Co., Jianshi Township, Lidongshan, 1500–1600 m, Apr. 20, 2020, *D.M. Huang s.n.* (TAI289764).

Oberonia linguae T.P. Lin & Y.N. Chang, *Taiwania* 58(4): 263–265, f.2C, 6. 2013. **Type**: Taiwan: Nantou, Shanlinshi, 1500–1600 m, cult. flowering Aug. 23, 2013, *W.S. Wei s.n.* (holotype TAI283129). ●圓唇莢白蘭

Oberonia microphylla (Blume) Lindl. Gen. Sp. Orch. Pl.: 17. 1830; Bunpha *et al.*, *Phytotaxa* 420 (2): 140, f.9 A–B. 2019; Lin, Ill. Native Taiwan Orch. 568, f.370. 2022. *Malaxis microphylla* Blume, *Bijdr. Fl. Ned. Ind.*: 395. 1825. **Type**: Indonesia: Jawa Barat: Gunung Salak, without year, *Blume 1896* (syntypes L0061761, L0061194). 裂瓣莢白蘭

Oberonia rosea Hook. f., *Hooker's Icon. Pl.* 21: t.2005. 1890; Seidenf., *Dansk Bot. Ark.* 25(3): 83, f.53. 1968 & *Opera Bot.* 114: 159, f.101. 1992; Su, Q. J. *Chin. For.* 20(4): 104, pl.5. 1987; Lin *et al.*, *Taiwania* 61(2): 111, 2016; Lin, *Orch. Fl. Taiwan* 730, f.352. 2019. **Type**: Malayan Peninsula, *W. Norris s.n.* (synType K000943000); Perak, *L.Wray, Jr. 1246* (synType K000943001), *Dr. King's Collector 2664* (synType K000943002). *Type* not designated.

Oberonia segawae T.C. Hsu & S.W. Chung, *Taiwania* 53(2): 165–169, f.1–3. 2008; Chung, *Orch. Taiwan* 120. 2008. *nom. nud.*; Lin, *Orch. Fl. Taiwan* 731, f.353. 2019. **Type**: Taiwan: Pingtung, Chaozhoujun. Aug. 1937, *K. Segawa s.n.* (holotype TAI117872). 齒唇莢白蘭

Oberonia seidenfadenii (H.J. Su) Ormerod, *Taiwania* 47: 242. 2002; Lin, *Orch. Fl. Taiwan* 731, f.354. 2019. *Hippeophyllum seidenfadenii* H.J. Su, Q. J. *Exp. For. Natl. Taiwan Univ.* 13(3): 204. 1999. **Type**: Taiwan: Kaohsiung, Liukuei, Douna logging road [多納林道], 1400 m, Nov. 11, 1986, *H.J. Su 7525* (holotype HAST106477; isotype NTUF, photo F00009171 in PoT). 密花小騎士蘭

Oberonioides pusillus (Rolfe) Marg. & Szlach., *Ann. Naturhist. Mus. Wien B* 112: 507. 2010; Lin, *Orch. Fl. Taiwan* 737, f.355. 2019. *Microstylis minutiflora* Rolfe, in *Dunn, J. Linn. Soc. Bot.* 38: 367. 1908, *non* Schltr. 1899. *Microstylis pusilla* Rolfe, *Orch. Rev.* 19: 229. 1911. *Microstylis microtatantha* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 192. 1919. *nom. superfl.* *Malaxis microtatantha* (Schltr.) Tang & F.T. Wang, *Icon. Cormoph. Sin.* 5: 670, f.8170. 1976. *nom. illeg.*; S.H. Chen, *Ann. Rep. Hualien Normal Coll.* 11: 1–4. 1979. *Oberonioides microtatantha* (Schltr.) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 135. 1995. *nom. illeg.* **Type**: Fukien: Yuen Fa Ganges 600 m, May 1, 1905, *S.T. Dunn 3545* (holotype HK0027165). 小軟葉蘭

Malaxis tairukouensis S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 2: 268–270. 1990. **Type**: Taiwan: Tienhsiang, Nov. 24, 1989, *S.S. Ying s.n.* (holotype NTUF, photo F00008209 in PoT; isotype NTUF, photo F00008210 in PoT).

Odontochilus brevistylis Hook. f. subsp. **candidus** (T.P. Lin & C.C. Hsu) T.P. Lin, *Taiwania* 61(2): 111. 2016 & *Orch. Fl. Taiwan* 205, f.86, 89–2I–S. 2019. *O. candidus* T.P. Lin & C.C. Hsu, *Taiwania* 21(2): 234, f.2. 1976. *O. inabai* var. *candidus* (T.P. Lin & C.C. Hsu) Ying, Q. J. *Chin. For.* 21(2): 116. 1988. *Anoectochilus inabae* var. *candidus* (T.P. Lin & C.C. Hsu) S.S. Ying, *Coloured Ill. Orch. Taiwan* 1: 62. 1996. *Anoectochilus candidus* (T.P. Lin & C.C. Hsu) K.Y. Lang, *Fl. Reipubl. Popul. Sin.* 17: 217. 1999. **Type**: Taiwan: Kaohsiung, Nanfenshan, *T.P. Lin 167* (holotype TAI); Nantou: Hsinsheng (新生), *T.P. Lin 80* (paratype TAI). ●白齒唇蘭

Odontochilus humilis S.S. Ying, *New Taxa New Names* 6: 525–530. 2023. **Type**: Taiwan: Taoyuan, Fuhsin, Tungyuanshan (東眼山), 1345 m, Sept. 14, 2023 (holotype, NTUF). *syn. nov.*

Odontochilus drymoglossifolius (Hayata) Yukawa, *Bull. Natl. Sci. Mus. Tokyo, B* 42(3): 107. 2016. *Myrmechis drymoglossifolia* Hayata, *Icon. Pl. Formosan.* 6: 90, f.20. 1916; Lin, *Native Orch. Taiwan* 3: 168, ph.96. 1987; Lin *et al.*, *Taiwania* 61(2): 108, 2016; Lin, *Orch. Fl. Taiwan* 203, f.85. 2019; Ormerod *et al.*, *Phytotaxa* 481(1): 167. 2021. **Type**: Taiwan: Alisan, 8000 ped, June 1914, *U. Faurie 929* (holotype TI, photo T01156 in PoT). ●阿里山全唇蘭

Myrmechis sasaki Yamam., *Icon. Pl. Formosan., Suppl.* 2: 1, f.1. 1926; Masam., *J. Geobot.* 26(3): 17, f.253. 1978. *Myrmechis japonica* var. *sasaki* (Yamam.) S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 403. 1977. *Myrmechis gracilis* var. *sasaki* (Yamam.) S.S. Ying, *Mem. Coll. Agric. Natl. Taiwan Univ.* 29(1): 75. 1989. **Type**: Taiwan: Nankotaiizan, 8000–9000 ped. July [23], 1922, *S. Sasaki s.n.* (holotype TI, photo T01157 in PoT).

Myrmechis nankotaisanensis Yamamoto ex A.T. Hsieh, Q. J. *Taiwan Mus.* 8(3): 276. 1955. *invalid name.* **Type**: Taiwan: Nanhutashan, *S. Sasaki 1796*, not found.



Odontochilus elwesii C.B. Clarke ex Hook. f., Fl. Br. India 6: 100. 1890; Su, Fl. Taiwan 5: 986. 2000; Lin, Orch. Fl. Taiwan 206, f.87. 2019. *Anoetochilus elwesii* (C.B. Clarke ex Hook. f.) King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 297. 1898. **Types:** India: Rishap, Darjeeling, Khasia Hills, July 28, 1870, 1219 m, *C.B. Clarke 12251* (synType K000387710); India: Shillong, 1859 m, June 9, 1886, *Clarke 44609* (synType K000387638); India: Kohima, Naga Hills, 1886, *Prain 17* (synType K000387709). 紫葉齒唇蘭

Odontochilus purpureus C.S. Leou, Q. J. Exp. For. Natl. Taiwan Univ. 6(3): 68, f.1, 2. 1992. *Anoetochilus purpureus* (C.S. Leou) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 62. 1996. **Type:** Nantou: Chitou, 1200 m, Aug. 1991, *C.S. Leou 4415* (holotype NTUF).

Odontochilus integrus (Fukuy.) T. Yukawa, Bull. Natl. Sci. Mus. Tokyo, B 42(3): 107. 2016; Lin, Orch. Fl. Taiwan 209, f.88. 2019. *Pristiglottis integra* Fukuy., Bot. Mag. (Tokyo) 50: 20. 1936; Masam., J. Geobot. 17(2): 15, pl.150. 1969. *Vexillabium integrum* (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 509. 1977. *Kuhlhasseltia integra* (Fukuy.) T.C. Hsu & S.W. Chung, Taiwania 54(1): 82–87. 2009. **Type:** Taiwan: Lanyu, incl. Koto-syo, Kotozan, 400 m, Aug. 3, 1934, *N. Fukuyama 4779* (holotype KPM-NA0105574 without Fukuyama's no., photo T00038 in PoT); isotype KPM-NA0105575, photo T00039 in PoT). ●綠葉旗唇蘭

Odontochilus lanceolatus (Lindl.) Blume, Coll. Orch.: 80. 1859; Liu & Su, Fl. Taiwan II 5: 988. 2000; Lin, Orch. Fl. Taiwan 211, f.89-1, 89-2A–H. 2019. *Anoetochilus lanceolatus* Lindl., Gen. Sp. Orch. Pl.: 499. 1840; Liu & Su, Fl. Taiwan 5: 876. 1978. **Type:** India: Assam, *J. Mack s.n.* (K000880294); India: Churra, Khasia, *J.D. Hooker & T. Thomson 2179* (K000880295); India: East Bengal, *W. Griffith #5352* (NY00009114). 二囊齒唇蘭

Odontochilus bisaccatus (Hayata) Hayata ex T.P. Lin, Native Orch. Taiwan 1: 214, ph.135. 1975; Lin *et al.*, Taiwania 61(2): 111, 2016. *Anoetochilus bisaccatus* Hayata, Icon. Pl. Formosan. 4: 99, pl.15. 1914. *Odontochilus bisaccatus* Hayata, Icon. Pl. Formosan. 4: 99, pl.15. 1914. *nom. nud.*, in sched. *Pristiglottis bisaccata* (Hayata) C. Nackej., Biol. Mag. (Okinawa) 13: 33. 1981. **Type:** Rinkihō [林杞埔 (竹山)], 5000 ped., Aug. 19, 1911, collector unknown (holotype TI, photo T00872 in PoT).

Odontochilus nanlingensis (L.P. Siu & K.Y. Lang) Ormerod, Taiwania 48(2): 91. 2003; Chung, Orch. Taiwan 126, (ph.). 2008; Hsu & Chung, Taiwania 54(1): 83. f.1, 2. 2009; Lin, Orch. Fl. Taiwan 211, f.90. 2019. *Anoetochilus nanlingensis* L.P. Siu & K.Y. Lang, Acta Phytotax. Sin. 40: 164. 2002. **Type:** China: Guangdong: Nanling National Nature Reserve, Mt. Tianjing, 1560 m, June 30, 2000, *L.P. Siu Gs-16-2000* (holotype PE). Taiwan: Taipei: Dadaoshan 500–600 m, Apr. 6, 2002, *T.C. Hsu 69* (TAIF303589). 南嶺齒唇蘭

Odontochilus poilanei (Gagnep.) Ormerod, Lindleyana 17(4): 225. 2002; Yang *et al.*, Taiwan J. For. Sci. 29(1): 79–84. 2014. *Evrardia poilanei* Gagnep., Bull. Mus. Nat. Hist. (Paris) 2 Ser. 4, 5: 596. 1932; Seidenf., Dansk Bot. Ark. 32(2): 59, f.33. 1978. *Chamaegastrodia poilanei* (Gagnep.) Seidenf. & Rao, Nordic J. Bot. 14: 297. 1994. **Types:** Vietnam: Annam: Dalat, Nov. 15, 1924, *F. Evrard 1807* (synType P00345030, illustration given); Vietnam: Annam: Kontum, montagne Mam Ray, Sept. 2, 1930, *E. Poilane 18204* (synType P00345029). 齒爪齒唇蘭

Odontochilus tortus King & Pantl. ssp. **tashiroi** (Maxim.) T.P. Lin, Ill. Native Taiwan Orch. 210, f.90. 2022; *Anoetochilus tashiroi* Maxim., Bull. Acad. Imp. Sci. Saint-Pétersbourg, sér. 3, 31: 103. 1886. *Odontochilus tashiroi* (Maxim.) Makino, Bot. Mag. (Tokyo) 14(164): 141. 1900. *Cystopus tashiroi* (Maxim.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 169. 1919. **Type:** Japan: Ryukyus, *Tashiro s.n.* 單囊齒唇蘭

Odontochilus tortus subsp. *inabae* (Hayata) Lin, Orch. Fl. Taiwan 216, f.91. 2019. *Anoetochilus inabae* Hayata, Icon. Pl. Formosan. 4: 102–104, pl.16. 1914. *Odontochilus inabae* Hayata, Icon. Pl. Formosan. 4: 104. 1914. *pro syn.* *Odontochilus inabae* (Hayata) Hayata ex T.P. Lin, Native Orch. Taiwan 1: 216, ph.136, 137. 1975. **Type:** Taiwan: Nantou, Rinkihō [林杞埔] 5000 ped., Aug. 19, 1911, *H. Inaba s.n.* (holotype TI, photo T00870 in PoT).

Odontochilus yakushimensis (Yamam.) T. Yukawa, Bull. Natl. Mus. Nat. Sci., Tokyo, B, 42(3): 108. 2016; Lin, Orch. Fl. Taiwan 218, f.92. 2019. *Anoetochilus yakushimensis* Yamam., Bot. Mag. (Tokyo) 38: 131. 1924. *Vexillabium yakushimense* (Yamam.) Maek., J. Jpn. Bot 11: 459. 1935; Lin, Native Orch. Taiwan 2: 332, ph.170. 1977; Su, Fl. Taiwan (2nd eds) 5: 1067, pl.459, 2000; Lin *et al.*, Taiwania 61(2): 121. 2016. *Pristiglottis yakushimensis* (Yamam.) Masam., Coloured Ill. Fl. Nippon 8: 218. 1970. *Kuhlhasseltia yakushimensis* (Yamam.) Ormerod, Lindleyana 17(4): 209. 2002. **Type:** Japan: Kiusiu: Oosumi, Isl. Yakushima, 1000 m, Aug. 1922, *A. Kimura s.n.* (holotype TI). 旗唇蘭

Odontochilus shaolinchianus S.S. Ying, New Taxa New Names 7: 504–509. 2024. **syn. nov.** **Type:** Taiwan: Taitung Co., Haiduan Township, Between Xiangyang and Lidao, 1691 m, June 22, 2024, *S.S. Ying s.n.* (holotype TPRCH)

Vexillabium gouanyuanensis S.S. Ying, New Taxa New Names 4: 309–315. 2021. **syn. nov.** **Type:** Taiwan: Hualien, Xiulin, Guanyuan [關原] 2455 m, *S.S. Ying s.n.* Aug. 19, 2021 (holotype, NTUF).

Vexillabium humilis (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 509 1977. *V. humillum* (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 509. 1977. *Pristiglottis humilis* (Fukuy.) Fukuy., Bot. Mag. (Tokyo) 39: 666. 1935. *Cystopus humilis* Fukuy., Bot. Mag. (Tokyo) 48(569): 307. 1934. **Type:** Taiwan: Shinchu, inter Sensui et Kaminoshima, prope Taiko [上島 (泰安溫泉)], July 1932, *N. Fukuyama 3986* (holotype KPM-NA0105531 without Fukuyama's no., photo T00026 in PoT).



Vexillabium nakaianum auct. non Maekawa: T.P. Lin, *Taiwania* 54(4): 323–333, f.2J. 2009.

Oreorchis bilamellata Fukuy., *Bot. Mag. (Tokyo)* 48(571): 436. 1934; Lin, *Orch. Fl. Taiwan* 743, f.357. 2019. *Tainia bilamellata* (Fukuy.) S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 503. 1977. **Type:** Taiwan: Shinchiku, Taihansenzan, 8000 ped. July 1932, *N. Fukuyama 4132*. 大霸山蘭

Oreorchis fargesii Finet, *Bull. Soc. Bot. France* 43: 697, t.13. 1896; Ying, *Coloured Ill. Indig. Orch. Taiwan* 1: 487. 1977; Lin, *Orch. Fl. Taiwan* 743, f.358. 2019. **Type:** China: Sichuan oriental, 2000 m, *R.P. Farges 416* (syntype P00420888, P00420889, P00420890, P00420891; isosyntype AMES00102655, AMES00102656, E00383633, K000891160, MPU018138, MPU018138, MPU018139, NY00009137). 密花山蘭

Oreorchis fargesii var. *subcapitata* Hayata, *Icon. Pl. Formosan.* 2: 142–143. 1912. *O. subcapitata* (Hayata) Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 226. 1919. **Type:** Taiwan: Mt. Rontabum, Apr. [17], 1910, *U. Mori s.n.* (holotype TI, photo T01166 in PoT; isotype TAI6904).

Oreorchis foliosa (Lindl.) Lindl., *J. Proc. Linn. Soc. Bot.* 3: 27. 1858; Lin, *Ill. Native Taiwan Orch.* 577, f.380. 2022. *Kitigorhiza foliosa* (Lindl.) Maek., *Wild Orch. Jpn. Colour* 469. 1971. *Corallorhiza foliosa* Lindl. in Royle, 111. *Bot. Himal.* 1: 362. 1839 *nom. nud.* & *Gen. Sp. Orch. Pl.*: 535. 1840. *Oreorchis indica* auct. non (Lindl.) Hook. f.: T. Yukawa *et al.*, *Bot. Bull. Acad. Sin.* 44: 345–351. 2003; Lin *et al.*, *Taiwania* 61(2): 112. 2016. **Type:** India: Mussoree, *Ryoke s.n.* (holo. K-LINDL). 合歡山山蘭

Tainia gokanzanensis Masam., *Humbert, Notul. Syst. (Paris)* 6: 38. 1937. **Type:** Taiwan: Gokanzan (Hohuanshan) 3300 m, July, collected by Ipse, *G. Masamune s.n.* (TAI) not found.

Tainia hohuanshanensis S.S. Ying, *New Taxa New Names* 3: 14–19. 2020. **Type:** *Type:* Taiwan. Hualien: Xiulin Township [秀林鄉], Hohuanshan, 3150 m, *S.S. Ying s.n.* June 4, 2020 (holotype, NTUF).

Oreorchis micrantha Lindl., *J. Proc. Linn. Soc. Bot.* 3: 27. 1858; Su, *Fl. Taiwan*, 2nd ed. 5: 991. 2000; Lin, *Orch. Fl. Taiwan* 751, f.360. 2019. **Type:** N.W. Himalaya, 2438–3048 m, *T. Thomson 214* (holotype K000891156). 南湖山蘭

Oreorchis ohwii Fukuy., *Bot. Mag. (Tokyo)* 49(581): 296. 1935; Masam., *J. Geobot.* 20(3): 10, f.182. 1972; Lin, *Native Orch. Taiwan* 3: 206, ph.111. 1987. **Type:** Taiwan: Nankotaizan, collected by J. Ohwi, June 1, 1933, *N. Fukuyama 4547* (holotype KPM-NA0105571, photo T00034 in PoT; isotype KYO).

Oreorchis patens (Lindl.) Lindl., *J. Proc. Linn. Soc. Bot.* 3: 27. 1858; Su, *Fl. Taiwan*, 2nd ed. 5: 991. pl.421. 2000; Lin, *Orch. Fl. Taiwan* 751, f.361. 2019. *Corallorhiza patens* Lindl., *Gen. Sp. Orch. Pl.* 535. 1840. **Type:** Russia: Sibiria, 1826, *J.D. Prescott s.n.* (holotype K000885699). 細花山蘭

Oreorchis gracilis Franch. & Sav., *Enum. Pl. Jap.* 2: 27. 1877. *O. patens* f. *gracilis* (Franch. & Sav.) Makino, *Bot. Mag. (Tokyo)* 12: 16. 1898. *O. patens* var. *gracilis* (Franch. & Sav.) Makino ex Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 224. 1919. **Type:** Japan: Island Sikock, May 1875, *Savatier 3518* (MNHN-P-P00420922).

Oreorchis gracilis Franch. & Sav. var. *gracillima* Hayata, *Icon. Pl. Formosan.* 2: 141–142. 1912. *O. gracillima* (Hayata) Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 223. 1919; Lin, *Native Orch. Taiwan* 3: 204, ph.110. 1987. *O. patens* var. *gracillima* (Hayata) Ying, *Q. J. Chin. For.* 21(2): 116. 1988. **Type:** Taiwan: Rontabunshan, Apr. 17, 1910, *U. Mori s.n.* (holotype TI, photo T01168 in PoT; isotype TAI6903).

Oreorchis wumaniae T.P. Lin, *Taiwania* 65(4): 463–472, f.1, 2. 2020. **Type:** Taiwan: Hualien Co., Xiulin Township, Downmung, Mar. 16, 2020, *C.H. Liu s.n.*, 1900–2000 m (TAI289760). ●吳冠山蘭

Pachystoma pubescens Blume, *Bijdr. Fl. Ned. Ind.* 376. t.29. 1825; Liu & Su, *Fl. Taiwan* 5: 1079. 1978; Lin, *Orch. Fl. Taiwan* 752, f.362. 2019. *Pachychilus pubescens* (Blume) Blume, *Mus. Bot.* 2: 178. 1856. **Type:** Java: Tijradjas, Krawang. *Blume s.n.* (holotype L0061831). 粉口蘭

Apaturia chinensis Lindl., *Gen. Sp. Orchid. Pl.* 131. 1831. *Pachystoma chinensis* (Lindl.) Rchb. f., *Bonplandia* 3: 251. 1855; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 92. 1896. **Type:** China: Macao, *G.H. Vachel s.n.* Taiwan: Bankinsing.1895, *A. Henry 384*.

Apaturia montana Lindl., *Wall. Numer. List* 3738. 1832 *nom. nud.*; *Gen. Sp. Orch. Pl.* 131. 1831. *Pachystoma montanum* (Lindl.) Rchb. f., *Bonplandia* (Hannover) 3: 251. 1855. **Type:** Sri Lanka, Mt. Nuera Ellia (Nuwara Eliya), *Macrae s.n.*, *Wall. Number. List* 3738 (K001119918, shows *Pachystoma pubescens* not *Aphyllorchis montana*).

Pachystoma formosanum Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 245. 1919. *P. chinense* auct. non (Lindl.) Rchb. f.: Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30: 321. 1911. *P. chinense* var. *formosanum* (Schltr.) S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 488. 1977. **Type:** Taiwan: Nantou, Shashizan, Mar. [26], 1908, *T. Kawakamii et U. Mori 3735* (holotype TI, photo T01169 in PoT).

Pachystoma ludaense S.C. Chen & Y.B. Luo, *Acta Phytotax. Sin.* 40: 140. 2002. *Eulophia hirsute* T.P. Lin, *Native Orch. Taiwan* 3: 68. 1987. non Joseph & Vajravelu 1975. **Type:** Isl. Luta, 200 m, July 8, 1980, *C.M. Kou 11642* (holotype TAI6F).

×**Papilisia pseudotaiwaniana** (T.C. Hsu) T.P. Lin, *Ill. Native Taiwan. Orch.* 2nd ed. 584, f.385. 2023. ×*Papilionanthe pseudotaiwaniana* T.C. Hsu, *Ill. Fl. Taiwan* 2: 157. 2016 [Oct 2016]. ×*Holcosia pseudotaiwaniana* (T.C. Hsu) Ormerod & Kurzweil, *Harv. Pap. Bot.* 27: 69. 2022. **Type:** Taiwan: Hengchun, Apr. 21, 2010, *W.M. Lin s.n.* (holotype: TAI, not seen). ●台灣蝶花蘭/ 擬台灣鳳蝶蘭



×**Papilisia taiwaniana** (S.S. Ying) J.M.H. Shaw, *Orch. Rev.* 112(1257, Suppl.): 47. 2004; Lin, *Ill. Native Taiwan. Orch.* 2nd ed. 585. 2023. *Vanda taiwaniana* S.S. Ying, *Mem. Coll. Agric. Natl. Taiwan Univ.* 29(2): 65. 1989. *Papilionanthe taiwaniana* (S.S. Ying) Ormerod, *Taiwania* 47: 242. 2002. *Holcosia taiwaniana* (S.S. Ying) Ormerod & Kurzweil, *Harvard Pap. Bot.* 27: 69. 2022. **Type:** Taiwan: Pintung, Schetzouchi to Shihmen. Dec. 26, 1987, S.S. Ying s.n. (isotype NTUF, photo F00000323 in PoT). ● 台灣萬代蘭

Peristylus formosanus (Schltr.) T.P. Lin, *Native Orch. Taiwan* 2: 274, ph.138, 139. 1977 & *Orch. Fl. Taiwan* 221, f.93. 2019. *Coeloglossum formosanum* Makino & Hayata ex Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 22: 420. 1906. *nom. nud.* *Habenaria formosana* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 4: 127. 1919. *Peristylus lacertifer* var. *formosanus* (Schltr.) S.S. Ying, *Coloured Ill. Orch. Fl. Taiwan* 2: 631. 1990, *nom. superfl.* **Type:** Taiwan: Shintengai, Jan. 1904, *S. Nagasawa s.n.* not found; Taitung: Kwasyoto, Jan. 1, 1929, *S. Sasaki 40013* (TAI032948). 台灣鷺草
Habenaria tentaculata Rehb. f. var. *acutifolia* Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 354. 1911. *Peristylus flagellifer* var. *acutifolius* (Hayata) Hatus., *Fl. Ryukyus*: 84. 1971. **Type:** Taiwan: Shintengai, Jan. 1904, *S. Nagasawa s.n.* Not found.
Habenaria breviculcarata Fukuy., *Trans. Nat. Hist. Soc. Formosa* 22: 42. 1932. **Type:** Taiwan: Taihoku, Sendyosan [蟾蜍山] 100 m, Oct. 1931, *G. Masam. s.n.* not found.
Peristylus tentaculatus auct. non (Lindl.) J.J. Sm.: Ormerod, *Taiwania* 56(1): 46. 2011.

Peristylus goodyeroides (D. Don) Lindl., *Gen. Sp. Orch. Pl.* 299. 1835; Forbes & Hemsl., *Ind. Fl. Sin.* 54. 1903; Matsum. & Hayata, *J. Coll. Sci. Univ. Tokyo* 22: 418. 1906; Hayata, *Mater. Fl. Formosa*. 353. 1911; Seidenf., *Dansk Bot. Ark.* 31(3): 53, f.25. 1977; Lin, *Native Orch. Taiwan* 2: 278. 1977 & *Orch. Fl. Taiwan* 223, f.94. 2019. *Habenaria goodyeroides* D. Don, *Prodr. Fl. Nepal.* 25. 1825; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl.): 93.1896; Hayata, *Mater. Fl. Formos.* 353. 1911. *Herminium goodyeroides* Lindl. ex Wall., *Numer. List* 7066. 1832, *nom. nud.* **Types:** Nepal: 1819, *N. Wallich s.n.* (BM000038925); Nepal: Paspulnath, Aug. 1821, Wallich, *Numer. List* 7066A (lectotype CAL; isolectotypes K001126680, K-W, BM). Taiwan: Ape's Hill, Playfair, *Henry 1126*; S. Cape, *Henry 1211 & 1572*. 南投玉鳳蘭

Habenaria goodyeroides var. *formosana* Hayata, *Icon. Pl. Formosan.* 4: 126, pl.22. 1914. *Habenaria hayatana* Schltr. *Fedde, Repert. Beih.* 4: 129. 1919. **Type:** Taiwan: Nantou: Bunsan-ryo [分山寮], July 31, 1907, *T. Kawakami & U. Mori s.n.* (isosynType TAI032963); Nantou: Riskizan [埋石山], July [10], 1907, *T. Kawakami & U. Mori 3471* (isosynType TAI032963).

Peristylus gracilis Blume, *Bijdr. Fl. Ned. Ind.* 8: 404. 1825; Chung, *Orch. Taiwan* 138. 2008; Hsu *et al.*, *Taiwania* 54(4): 381–382, f.1, 2. 2009; Lin, *Orch. Fl. Taiwan* 225, f.95. 2019. **Type:** Java: Bogor (Buitenzorg), Mt. Seribu. *Blume s.n.* (holotype L0061851; isotype P00352834). One specimen in Herb. H.G. Reichenbach 19441. Taiwan: Lanyu: Tienchih, 150 m, Nov. 14, 2004, *T.C. Hsu 132* (TAIF220072). 纖細闊蕊蘭

Peristylus gracilis subsp. *insularis* T.C. Hsu, *Ill. Fl. Taiwan* 2: 161. 2016. **Type:** Taiwan: Lanyu, Tienchih trail, *T.C. Hsu 132* (holotype TAI032963).

Peristylus intrudens (Ames) Ormerod, *Taiwania* 56(1): 46. 2011; Lin, *Orch. Fl. Taiwan* 225, f.96. 2019. *Habenaria intrudens* Ames, *Schedul. Orch.* 6: 1, f.1. 1923. **Type:** Phillipines: Luzon, Rizal Prov., Antpolo 100 m, Oct. 1913, *M. Ramos BS 21999* (holotype AMES00099883). 短裂闊蕊蘭

Peristylus spiranthes var. *taipoensis* S.Y. Hu & Barretto, *Chung Chi J.* 13(2): 2. 1976. *P. taipoensis* (S.Y. Hu & G. Barretto) T.C. Hsu & S.W. Chung, *Orch. Taiwan* 140. 2008 & *Taiwania* 54(1): 84–85, f.3, 4. 2009. *P. lacertifer* var. *taipoensis* (S.Y. Hu & Barretto) S.C. Chen, S.W. Gale & P.J. Cribb, *Fl. China* 25: 143. 2009. **Type:** Hong Kong: New Territories, Taipo, collected by G. Barretto, Aug. 25, 1970, *S.Y. Hu 10944* (holotype K000827047; isotypes AMES00102885, AMES00083716). Taiwan: Nantou: Sun Moon Lake, 800 m, Aug. 15, 2007, *T.C. Hsu 925* (TAIF333999).

Peristylus lacertifer (Lindl.) J.J. Sm., *Bull. Jard. Bot. Buitenzorg, sér.* 3, 9: 23. 1927; Seidenf., *Dansk Bot. Ark.* 31(3): 58, f.29. 1977; Lin, *Native Orch. Taiwan* 2: 272, ph.137. 1977 & *Orch. Fl. Taiwan* 226, f.97. 2019. *Coeloglossum lacertiferum* Lindl., *Gen. Sp. Orchid. Pl.* 302. 1835. *Habenaria lacertifera* (Lindl.) Benth., *Fl. Hongk.* 362. 1861. **Type:** Myanmar (Burma): Tavoy, collected by W. Gomez. *Wallich Cat.* 7055 (syntype K000974269, K000974210). Taiwan: Nantou: Lienhwachi 700 m, Aug. 1, 1975, *T.P. Lin 128* (TAIF127660). 裂唇闊蕊蘭/細花玉鳳蘭

Peristylus chloranthus Lindl. in Hook., *Kew J. Bot. Kew Gard. Misc.* 7: 37. 1855; Rolfe in Forbes & Hemsl., *J. Linn. Soc. Bot.* 36: 53. 1903; Matsum. & Hayata, *Enum. Pl. Formosan.* 419. 1906. **Type:** Hong Kong: common on top of Victoria Peak. Taiwan: Bankinsing, 1895, *A. Henry 895 & 1572*.

Peristylus monticola (Ridl.) Seidenf., *Dansk Bot. Ark.* 31: 35, f.13. 1977; Aver., *Turczaninowia* 13(2): 34, f.18b–d, 33d–f. 2010; Lin, *Orch. Fl. Taiwan* 230, f.98. 2019. *Habenaria monticola* Ridl., *J. Linn. Soc. Bot.* 32: 413. 1896. **Type:** Malaysia: Malacca, Mt. Ophir, 3000 ft, June 1892, *H.N. Ridley s.n.* (synType SING 0056391); Kedah, Kedah Peak, 3000 feet, Jun 1893, *H.N. Ridley s.n.* (synType SING0141872). 貓鬚蘭

Peristylus calcaratus (Rolfe) S.Y. Hu, *Q. J. Taiwan Mus.* 26: 398. 1973; Lin, *Native Orch. Taiwan* 2: 270 f. 1977; Seidenf., *Opera Bot.* 114: 48, f.22. 1992. *Glossula calcarata* Rolfe, *Bull. Misc. Inform. Kew* 1913: 145. 1913.



Habenaria calcarata (Rolfe) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 124. 1919. **Type**: China: Gongtong, Lo Fau Shan, *Ford in HK 9620* (synType K000827049, HK); Hong Kong, *Voretzsch s.n.* Taiwan: Nantou: Hsitou, 850 m, Sept. 18, 1975, *T.P. Lin 222* (TAI122085). *Platanthera pricei* Hayata, Icon. Pl. Formosan. 4: 125, f.66. 1914. **Type**: Taiwan: Kappanzan, July 1912, *W.R. Price s.n.* not found. *Habenaria lilungshaniana* S.S. Ying, Coloured Ill. Fl. Taiwan 4: 801, ph.988. 1992. **Type**: Taiwan: Pingtung, Lilungshan, July 19, 1992, *S.S. Ying s.n.* (holotype NTUF, photo F00000336 in PoT).

Phalaenopsis aphrodite Rchb. f. subsp. **formosana** Christenson, *Phalaenopsis Monogr.* 197. 2001; *Taiwania* 61(2): 114, 2016; Lin, *Orch. Fl. Taiwan* 763, f.367. 2019. *Phalaenopsis formosana* Miwa, *Pract. Hort.* 27: 115. 1941. *nom. illeg.* *P. formosana* (Christenson) J.M.H. Shaw, *Orch. Rev.* 129(1336, Suppl.): 19. 2021. **Type**: Taiwan: S. Cape, June 16, 1893–4, *A. Henry 1705* (holotype NY468394; isotype K). 蝴蝶蘭

Phalaenopsis babuyana Miwa, *Pract. Hort.* 27: 117. 1941. *nom. illeg.*

Phalaenopsis aphrodite Rchb. f., *Masam. in J. Geobot.* 15(1–3): 7, f.123. 1966; Lin, *Native Orch. Taiwan* 2: 280, ph.141–143. 1977; Su, *Fl. Taiwan*, 2nd ed. 5: 1003. pl.426. 2000.

Phalaenopsis equestris (Schauer) Rchb. f., *Linnaea* 22: 864. 1849; Lin, *Native Orch. Taiwan* 2: 286, ph.140. 1977 & *Orch. Fl. Taiwan* 766, f.368. 2019. *Stauroglottis equestris* Schauer, *Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur.* 19(Suppl. 1): 432. 1843. *Phalaenopsis equestris* var. *alba* H.R. Sweet, *Amer. Orch. Soc. Bull.* 38: 334. 1969. *nom. invalid.* *Phalaenopsis equestris* f. *alba* (H.R. Sweet) Christenson, *Phalaenopsis: a monograph*: 244. 2001. **Type**: Philippines: Luzon Isl., Manila, *T. Lobb s.n.* (K000891580); *F.J.F. Meyen s.n.* (AMES00102918); Possible *Types*: Philippines: *H. Cuming 205* (K000891578), s.coll. (K000891581, K000891582); Kew's four specimens are on the same sheet. . 桃紅蝴蝶蘭

Phalaenopsis riteiwanensis Masam., *Trans. Nat. Hist. Soc. Formosa* 24: 213. 1934. *Stauroglottis riteiwanensis* Masam. *nom. nud.*; *J. Geobot.* 15: vi 1966. **Type**: Taiwan: Syokotosyo [小紅頭嶼] Apr. 1934, cult. *K. Segawa s.n.* (lectotype TAI115006 designated by Jung *et al.* in *Taiwania* 55(4): 407. 2010; isoclectotypes TAI115007, TAI115008, KPM-NA0105598).

Phreatia caulescens Ames, *Orchidaceae* 2: 200. 1908; Lin, *Native Orch. Taiwan* 3: 213–214, pl.113. 1987. *Octarrhena caulescens* (Ames) Ames, *Orchidaceae* 5: 192. 1915. **Type**: Philippines: Luzon Isl., Lepanto, Mt. Data, 7000 ft. Oct. 29, 1905, *E. D. Merrill 4587* (synType AMES00103013; isosytype K000891192, US00093977); Luzon Isl., Benguet, Mt. Santo Tomas, Oct. 29, 1904, *R. S. Williams 1949* (synType NY9166), *H. M. Curran 4993, 5016*; Mindanao, *E. B. Copeland 1180*. Taiwan: Peitawushan, Aug. 30, 1973, *T.P. Lin 65* (TAIF). 垂莖芙樂蘭

Phreatia formosana Rolfe, *Ann. Bot. (Oxford)* 9(33): 156. 1895; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 91. 1896; Masam., *J. Geobot.* 25(1): 2, f.236. 1977; Lin, *Native Orch. Taiwan* 3: 213, ph.114. 1987 & *Orch. Fl. Taiwan* 772, f.371. 2019. *Octarrhena formosana* (Rolfe) S.S. Ying, *Coloured Ill. Orch. Taiwan* 2: 303. 1990. **Type**: Taiwan: S. Cape, Apr. 1893, *A. Henry 1349* (holotype K000891216; isotypes AMES 00103023, MO, NY9163). 蓬萊芙樂蘭

Phreatia kotoinsularis Fukuy., *Bot. Mag. (Tokyo)* 50(589): 23. 1936. *Octarrhena kotoinsularis* (Fukuy.) S.S. Ying, *Coloured Ill. Orch. Taiwan* 2: 612. 1990. **Type**: Taiwan: insl. Koto-syo, Zitaui-kei, Aug. 3, 1934, *N. Fukuyama 4816* (holotype KPM-NA0105572 without Fukuyama's no., photo T00035 in PoT).

Phreatia morii Hayata, *Icon. Pl. Formosan.* 4: 58, f.25. 1914; Lin, *Native Orch. Taiwan* 3: 217, ph.115–117. 1987 & *Orch. Fl. Taiwan* 772, f.372. 2019. **Type**: No location, 1910, *U. Mori s.n.* not found. *Neotype*: Taiwan: Chinsuiying, Dec. 1914, *U. Mori s.n.* (TAIF6918, designated by Lin *et al.* 2016). ●大芙樂蘭

Phreatia taiwaniana Fukuy., *Bot. Mag. (Tokyo)* 49(583): 441. 1935; Masam., *J. Geobot.* 25(1): 1, f.235. 1977; Lin, *Native Orch. Taiwan* 3: 219, ph.118–119. 1987 & *Orch. Fl. Taiwan* 776, f.373. 2019. *Thelasis taiwaniana* (Fukuy.) S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 504. 1977. **Type**: Taiwan: Taihoku, Bonbon-geo, inter Tamaru et Dakusui, Oct. 1932, [flowering Apr.], *N. Fukuyama 4520* (holotype KPM-NA0105573 without Fukuyama's no., photo T00036 in PoT); Takao, monte Niinai-san prope Botan-sha, Mai. 6, 1934, *N. Fukuyama 4571* (paratype KPM without Fukuyama's no., photo G00740 in PoT). ●白芙樂蘭/台灣芙樂蘭

Pinalia amica (Rchb. f.) Kuntze, *Revis. Gen. Pl.* 2: 679. 1891; Lin, *Orch. Fl. Taiwan* 776, f.374. 2019. *Eria amica* Rchb. f., *Xenia Orch.* 2: 162. 1870; Lin, *Native Orch. Taiwan* 2: 151, ph.70, 71. 1977. **Type**: NE India: Assam, sine loc. commercial import by Day. 小腳筒

Eria hypomelana Hayata, *Icon. Pl. Formosan.* 4: 54, f.22. 1914. **Type**: Taiwan: Alisan, inter Funkiko [奮起湖] et Taroyen, 5000 ped. Mar. 1914, *B. Hayata et T. Ito s.n.* (holotype TI, photo T00952 in PoT).

Pinalia formosana (Rolfe) Ormerod, *Malesian Orch. J.* 7: 85. 2011; Lin, *Orch. Fl. Taiwan* 777, f.375. 2019. *Eria formosana* Rolfe, *Bull. Misc. Inform. Kew* 1896(119): 194. 1896; Henry, *Trans. Asia. Soc. Jpn.* 24(Suppl): 91. 1896.



Pinalia formosana (Rolfe) T.P. Lin, *Taiwania* 61(2): 114. 2016. **Type:** Taiwan: S. Cape, *A. Henry 1978* (holotype K000827416). 赤色毛花蘭

Pinalia copelandii (Leav.) W. Suarez & Cootes, *Orchideen J.* 16(2): 70. 2009. *Eria copelandii* Leav., *Philipp. J. Sci., C* 4: 203. 1909. **Type:** Philippines: Mindanao: Dist. Davao, Mt. Apo, Oct. 23, 1904, *Copeland 1423* (synType AMES00099174).

Eria tomentosiflora Hayata, *Icon. Pl. Formosan.* 2: 137–138. 1912; Lin, *Nat. Orch. Taiwan* 2: 165, ph76. 1977. *Pinalia tomentosiflora* (Hayata) W. Suarez & Cootes, *Orchideen J.* 16: 71. 2009. **Type:** Taiwan: Koshun, Hieranzan, Feb. 16, 1911, *T. Kawakami et S. Sasaki s.n.* (holotype TI, photo T00959 in PoT; isotype TAIIF 6725).

Eria plicatilabella Hayata, *Icon. Pl. Formosan.* 4: 55, f.23. 1914. **Type:** Location not indicated. cult. flowering Mar. 24, 1914, *B. Hayata s.n.* (holotype TI, photo T00955 in PoT).

Pinalia japonica (Maxim.) Ormerod, *Taiwania* 57: 124. 2012; Lin, *Orch. Fl. Taiwan* 782, f.376. 2019. *Eria japonica* Maxim., *Bull. Acad. Imp. Sci. Saint-Petersbourg*, ser. 31: 103. 1886. *Conchidium japonicum* (Maxim.) S.C. Chen & J.J. Wood, *Fl. China* 25: 348. 2009. *Dendrobium reptans* Franch. & Sav., *Enum. Pl. Jpn.* 2: 510. 1878, *non* (Sw.) Sw. 1805. *Callista reptans* Kuntze, *Revis. Gen. Pl.* 2: 655 1891. *Eria reptans* (Kuntze) Makino, *Bot. Mag. (Tokyo)* 15: 128. 1901; Lin, *Native Orch. Taiwan* 2: 162, ph.75. 1977. *Eria reptans* Schltr. *Repert. Spec. Nov. Regni Veg. Beih.* 4: 219. 1919. **Type:** Japan: cult. Tokyo, *P.A.L. Savatier 1427* (holotype P00403666, illustration given; isotype P00403667). 高山絨蘭

Eria arisanensis Hayata, *Icon. Pl. Formosan.* 4: 54, pl.12. 1914. **Type:** Taiwan: Alisan, Jan. 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T00951 in PoT).

Eria matsudai Hayata, *Icon. Pl. Formosan.* 9: 110–111. 1920. *Eria reptans* var. *matsudae* (Hayata) S.S.Ying, *Coloured Ill. Indig. Orch. Taiwan* 1(2): 453. 1977. **Type:** Taiwan: Rarazan, July [27], 1918, *T. Matsuda [414]* (holotype TI, photo T00953 in PoT).

Pinalia ovata (Lindl.) W. Suarez & Cootes, *Orchideen J.* 16(2): 71. 2009; Lin, *Orch. Fl. Taiwan* 782, f.377. 2019. *Eria ovata* Lindl., *Edwards's Bot. Reg.* 30: t.29. 1844; Hsieh, Q. J. *Taiwan Mus.* 8: 243. 1955. **Type:** Philippines: Bohol, Jan. 1841, *Cuming s.n.* (isotype L0059912). 大腳筒

Eria luchuensis Yatabe, *Bot. Mag. (Tokyo)* 7: 131, pl.6. 1892. **Type:** Ryukyu Isl.: Nishi-omotesima, cultivated in the Botanic Garden of the Imperial Univ., flowered in Sept.–Oct. 1887, *Yasusada Tashiro s.n.* (K000827414).

Eria nudicaulis Hayata, *Icon. Pl. Formosan.* 2: 138–139. 1912. **Types:** Taiwan: Urai, July 1910, *T. Soma s.n.* (synType TI, photo T00954 in PoT); Aug. 1912, *B. Hayata et S. Sasaki s.n.* not found.

Platanthera brevicealcarata Hayata, *J. Coll. Sci. Imp. Univ. Tokyo* 30(1): 350. 1911; Masam., *J. Geobot.* 16(2): 14, pl.137. 1968; Lin, *Native Orch. Taiwan* 3: 224, ph.120–121. 1987 & *Orch. Fl. Taiwan* 232, f.99. 2019. *Habenaria brevicealcarata* (Hayata) Masam., *J. Geobot.* 16: 14, pl.137. 1968. *Tulotis brevicealcarata* (Hayata) Efimov, *Novosti Sist. Vyssh. Rast.* 40: 50. 2008 publ. 2009. **Type:** Taiwan: Mt. Morrison. [Oct. 18, 1906], *T. Kawakami et U. Mori 2332* (holotype TI, photo T01178 in PoT). 短距粉蝶蘭

Platanthera brevicealcarata subsp. *yakumontana* (Masam.) Masam., *J. Geobot.* 12: 98. 1964. *P. yakumontana* Masam., *Mem. Fac. Sci. Taihoku Imp. Univ.* 90(4): 574. 1934 & *J. Geobot.* 15(1–3): 14, f.130. 1966; S.M. Eum & N.S. Lee, *Korean J. Pl. Taxon.* 42(3): 211–214. 2012. *Tulotis brevicealcarata* subsp. *yakumontana* (Masam.) Efimov, *Novosti Sist. Vyssh. Rast.* 40: 50. 2008 publ. 2009.

Platanthera alboflora S.S. Ying, *New Taxa New Names* 6: 509–513. 2023. **syn. nov.** **Type:** Taiwan: Miaoli, Taian, Guanwu [觀霧] 2250 m, *S.S. Ying s.n.* June 20, 2023 (holotype, NTUF).

Platanthera wulinensis S.S. Ying, *New Taxa New Names* 7: 540–545. 2024. **syn. nov.** **Type:** Taiwan: Nantou Co., Jenai Townshap, Hohuanshan, 3220 m, Jul. 18, 2024, *S.S. Ying s.n.* (holotype TPRCH).

Platanthera concinna (Hook. f.) Kraenzl., *Orchid. Gen. Sp.* 1: 621. 1899; Efimov, *Phytotaxa* 254 (1): 166, f.83B. 2016; Lin, *Native Taiwan Orch.* 221, f.99. 2022. *Habenaria concinna* Hook. f. *Fl. Br. India* 6: 155. 1890. **Type:** India: Khasia, *J.D. Hooker & T. Thomson 283* (lectotype K000247396, designated by Efimov, 2016; isolectotype K000974191). 惠粉蝶蘭

Platanthera dyeriana (King & Pantl.) Kraenzl., *Orch. Gen. Sp.* 1: 636. 1899. *Habenaria dyeriana* King & Pantl., *J. Asiat. Soc. Bengal Pt. 2 Nat. Hist.* 65: 133. 1896. **Type:** India: Sikkim, Lachen Valley, 11,000 ft, Aug. 1895, *Pantling 407* (lectotype CAL744, designated by Singh *et al.*, *Ann. Bot. Fennici* 51: 267–271. 2014; isolectotypes AMES00099830, CAL741, CAL742, CAL743, CAL745, K000247397, K000247398, LE, W).

Platanthera hibinoi Masam., *J. Geobot.* 26(1): 3, f.249. 1978. *nom. nud.*

Platanthera formosana (T.P. Lin & K. Inoue) Efimov, *Phytotaxa* 254(1): 82. 2016. *Platanthera mandarinorum* Rchb. f. subsp. *formosana* T.P. Lin & K. Inoue, *J. Phytogeogr. Taxon.* 28(1): 12, f.10. 1980; Lin *et al.*, *Taiwania* 61(2): 115. 2016; Lin, *Orch. Fl. Taiwan* 238, f.102-1. 2019. *P. mandarinorum* var. *formosana* (T.P. Lin & K. Inoue) Ying, *Coloured Ill. Indig. Orch. Taiwan* 2: 644. 1990. **Type:** Taiwan: Mt. Chilan [棲蘭山], 1200 m, May 7, 1975, *Lin 223* (syntypes TAIIF 105796 & 122237).

Platanthera devolii (T.P. Lin & T.W. Hu) T.P. Lin & K. Inoue, *J. Phytogeogr. Taxon.* 28: 5. 1980. *Tulotis devolii* T.P. Lin & T.W. Hu, *Q. J. Chin. For.* 9(1): 53, pl.2. 1976; Lin, *Orch. Fl. Taiwan* 233, f.100. 2019. *Platanthera longicalcarata* Hayata var. *devolii* (T.P. Lin & T.W. Hu) S.S. Ying, *Coloured Ill. Indig. Orch. Taiwan* 2: 643. 1990.



Type: Taiwan: Chiayi, Alishan, 1900 m, Sept. 19, 1974, *T.P. Lin 147* (syntype TAI110064–110067, 122238, 155405–155408). ●長葉蜻蛉蘭

Platanthera longicalcarata Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 350–351, *pro parte*. Taiwan: Ganzan, in Mt. Morrison, 9141 ped. Oct. 1905, alt., *S. Nagasawa 697* (TI, photo T01179 in PoT, this plant was separated from T01181 by K. Inoue in Nov. 1980).

Platanthera kudoii Masam., J. Geobot. 25(4): 15, f.246. 1978. *nom. nud.*

Platanthera hohuanshanensis S.S. Ying, New Taxa New Names 3: 24–28. 2020. **Type:** Taiwan. Hualien: Xiulin Township, Hohuanshan 3050 m, *S.S. Ying s.n.*, Aug. 13, 2020 (holotype, NTUF). **syn. nov.**

Platanthera longicalcarata Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 350–351. 1911; Inoue & Lin, J. Phytogeogr. Taxon. 28(1): 4, f.3. 1980; Lin, Orch. Fl. Taiwan 236, f.101. 2019. *Habenaria longicalcarata* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 379. 1977. *Tulotis longicalcarata* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 379. 1977. *T. longicalcarata* (Hayata) T.S. Liu & H.J. Su, Fl. Taiwan 5: 1124. 1978. **Type:** Taiwan: Randaizan [巒大山], Aug. [9], 1908, *B. Hayata et U. Mori s.n.* (lectotype TI, photo T01181 in PoT, Inoue in 1980 excluded the plant from Ganzan, in Mt. Morrison, *S. Nagasawa 697* which is *P. devolii*; isolectotype TAI6931). ●長距粉蝶蘭

Platanthera mandarinorum var. **ophrydioides** (F. Schmidt) Finet, Bull. Soc. Bot. France 47: 282. 1900. *P. ophrydioides* F. Schmidt, Reis. Amur-Land., Bot. 182. 1868; Efimov, Phytotaxa 254 (1): 99, f.35A. 2016. *P. mandarinorum* Rchb. f. subsp. *ophrydioides* (F. Schmidt) K. Inoue, J. Fac. Sci. Univ. Tokyo, sec. 3, Bot. 13: 184. 1982; Chung, Orch. Taiwan 2: 156, (ph.). 2008; Lin, Orch. Fl. Taiwan 238, f.102-2. 2019. **Type:** Russia: Sakhalin, July 15, 1860, *F. Schmidt s.n.* (isosynType K000796982); Insula Sachalin, *F. Schmidr s.n.*; Sakhalin: Nuburi Cap, July 29, 1861, *Glehn s.n.* (lectotype designated by Efimov [Botanicheskij Zhurnal 92: 408. 2007, LE]). Taiwan: Yilan, Taipinshan 1900 m, June 4, 2014, *T.P. Lin s.n.* (TAI284123). 千鳥粉蝶蘭

Platanthera mandarinorum subsp. **pachyglossa** (Hayata) T.P. Lin & K. Inoue, J. Phytogeogr. Taxon. 28(1): 10. 1980; Lin *et al.*, Taiwania 61(2): 115, 2016; Lin, Orch. Fl. Taiwan 238, f.102-3. 2019. *Platanthera pachyglossa* Hayata, Icon. Pl. Formosan. 4: 123, pl.21. 1914. *Habenaria pachyglossa* (Hayata) Masam., J. Geobot. 16: 15, pl.138. 1968. **Type:** Taiwan: Rantashan, Aug. 9, 1907, *Kawakami et Mori s.n.* (TAIF); Litungshan, July 15, 1913, *Kawakami s.n.* (TAIF). ●厚唇粉蝶蘭

Platanthera minor (Miq.) Rchb. f., Bot. Zeitung (Berlin) 36: 75. 1878; Inoue & Lin, J. Phytogeogr. Taxon. 28(1): 8, f.5. 1980; Efimov, Phytotaxa 254 (1): 155. 2016; Lin, Orch. Fl. Taiwan 242, f.103. 2019. *Habenaria japonica* var. *minor* Miq., Ann. Mus. Bot. Lugduno-Batavi 2: 207. 1866. **Type:** Japan: *P.F. von Siebold s.n.* (syntype U, L0325821, L0325825); Nagasaki, Jan. 1862, *R. Oldham 842* (synType L1531335). Hara (J. Jpn. Bot. 33: 53. 1958) designated *H. Buerger s.n.* (Herb. Leiden no. 903, 16–74, U, L325826) as the lectotype. 卵唇粉蝶蘭

Habenaria henryi Rolfe, Bull. Misc. Inform. Kew 1896: 202. 1896. *Platanthera henryi* (Rolfe) Kraenzl., Orch. Gen. Sp. 1: 632. 1901. **Type:** China: Hupeh: Patung, 1885–1888, *Henry 6148* (lectotype designated by Efimov & Jin in Taxon 63: 1117. 2014, K; isolectotypes BM, E).

Platanthera sigeyosii Masam., Bot. Mag. (Tokyo) 46(552): 773. 1932. **Type:** Taiwan: Sikayotaizan [志佳陽大山], July 9, 1930, *S. Suzuki 5470* (holotype TAI118746).

Platanthera yangmeiensis T.P. Lin, J. Phytogeogr. Taxon. 28(1): 7, f.6. 1980; Efimov, Phytotaxa 254(1): 155. 2016; Lin *et al.*, Taiwania 61(2): 116, 2016; Lin, Orch. Fl. Taiwan 249, f.108. 2019. **Type:** Taiwan: Miaoli: Yangmeishan, 1200 m, July 13, 1975, *Lin 280* (holotype TAIF).

Type: Taiwan: Miaoli: Yangmeishan, 1200 m, July 13, 1975, *Lin 280* (holotype TAIF). 陰粉蝶蘭

Platanthera lalashaniana S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 2: 311–313, f.37. 1990. **Type:** Taiwan: Taoyuan: Lalashan, 1700 m, July 11, 1988, *S.S. Ying s.n.* (holotype NTUF, photo F00000389 in PoT; isotype F00008288 in PoT). **syn. nov.**

Platanthera nantousylvatica T.P. Lin, Taiwania 60(4): 173, f.2E–G, 5. 2015. **Type:** Taiwan: Nantou: 2900 m, July 22, 2015, *P.N. Shen s.n.* (holotype TAI285859). ●南投蜻蛉蘭

Platanthera quadricalcarata T.P. Lin, Taiwania 66(1): 11–19. 2021. **Type:** Taiwan: Hsinchu Co., Chienshih Township, Takazin Creek, 2800 m, July 25, 2020, *K.C. Yueh s.n.* (TAI289769). ●聖稜粉蝶蘭

Platanthera sonoharae Masam., Sci. Rep. Kanazawa Univ. 9(1): 121. 1964; Chung, Orch. Taiwan. 2: 160. 2008; Lin, Orch. Fl. Taiwan 248, f.106. 2019. *Tulotis sonoharae* (Masam.) Nackej., Enum. Orch. Ryukyus 1: 31 1971 & Biol. Mag. (Okinawa) 9: 43. 1972. **Type:** Japan: Ryukyu: Okinawa, Kunigami, *Sonohara s.n.* (KANA). Taiwan: Nantou: Shanlinhsi, 1800 m, Sept. 7, 2006, *T.C. Hsu 578* (TAIF297359). 琉球蜻蛉蘭



Platanthera stenoglossa Hayata, Icon. Pl. Formosan. 4: 123–124. 1914; Inoue & Lin, J. Phytogeogr. Taxon. 28(1): 9, f.8. 1980; Lin, Orch. Fl. Taiwan 248, f.107. 2019. **Type:** Taiwan: Shichiseitonzan, July [2], 1910[1911], *T. Kawakami et Y. Shimada s.n.* (holotype TI, photo T01182 in PoT). 狹瓣粉蝶蘭

Platanthera iriomotensis Masam. Trans. Nat. Hist. Soc. Formosa 24: 279. 1934. **Type:** Japan: Ryukyu: Irimote [西表島], Sirahama, June 1, 1934. *Masamune s.n.*

Platanthera stenosepala Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 44–45. 1919. **Type:** Taiwan: Taipei, Taitum [大屯山] 600 m, May 1903. *U. Faurie s.n.*

Platanthera chingshuishania S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 28 (2): 36. 1988. **Type:** Taiwan: Chingshuishan, 1200–1500 m, Apr. 4, 1988, *S.S. Ying s.n.* (holotype NTUF, photo F00000309 in PoT).

Platanthera taiwanensis (S.S. Ying) S.C. Chen, S.W. Gale & P.J. Cribb, Fl. China 25: 114. 2009. *Tulotis taiwanensis* S.S. Ying, Q. J. Chin. For. 8(4): 144. 1975. *Platanthera taiwaniana* (S.S. Ying) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 294. 1977. *nom. invalid.* **Type:** Taiwan: Tashuikushan, 3450 m, July 24, 1974, *S.S. Ying 2811* (holotype NTUF, photo F00000388 in PoT). Unknown species. ●臺灣蜻蛉蘭

Platanthera transnokoensis Ohwi & Fukuy., Bot. Mag. (Tokyo) 48(569): 297. 1934. *Tulotis ussuriensis* var. *transnokoensis* (Ohwi & Fukuy.) T.S. Liu & H.J. Su, Fl. Taiwan 5: 1126. 1978. **Type:** Taiwan: Nokogoe, monte Kiraishu-nampoo [能高越嶺], collected by J. Ohwi, June 13–15, 1933, *N. Fukuyama 3971* (holotype KPM-NA0105615, photo T00037 in PoT; isotype KYO). ●高山粉蝶蘭

Platanthera longibracteata Hayata, Icon. Pl. Formosan. 4: 122–123. 1914. *non* Lindl. 1835. **Type:** Taiwan: Mt. Morrison 8500 ped. [*T. Kawakami & J. Sasaki s.n.* (isotype TAI6929)].

Platanthera sachalinensis F. Schmidt, Reis. Amur-Land. 181. 1868; Lin, Native Orch. Taiwan 2: 20. 1977; Inoue & Lin, J. Phytogeogr. Taxon. 28(1): 6, f.5. 1980. **Type:** Russia: Sakhalin, Truotoga, Aug. 4, 1861; *Glehn s.n.* (Herb. Reichenbach 20538); *F. Schmidt s.n.* (GH00103224). 1861, 1860, *F. Schmidt s.n.* (Siberian and Far East section of the Komarov Botanical Institute Herbarium).

Pleione formosana Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 326–327. 1911; P.F. Hunt, Curtis's Bot. Mag. 174: t.421. 1962; Masam., J. Geobot. 21(1): 2, f.188. 1973; Lin, Orch. Fl. Taiwan 783, f.378. 2019. *Coelogyne formosana* (Hayata) Yak. Kudo, Gard. Chron., ser. 3, 90: 150, f.66. 1931. **Type:** Yilan: Nano [南澳], Hyahosha, Pyahosha [比亞毫社], Igriris, ad 6000 ped., Apr. [11], 1909, *U. Mori 16* (isotype TAI6949). 台灣一葉蘭

Pleione bulbocodioides auct. non (Franch.) Rolfe; Lin, Native Orch. Taiwan 1 (2nd ed.): 238, photo 149–152. 1976.

Pleione formosana f. alba Torelli & Riccaboni, Caesiana 14: 55. 2000. **Type:**?

Pleione formosana Hayata f. *nivea* Fukuy., Trans. Nat. Hist. Soc. Formosa 22: 415. 1932. *P. formosana* var. *nivea* (Fukuy.) Masam., Trop. Hort. 3: 48. 1933. *P. hookeriana f. nivea* (Fukuy.) M. Hiroe, Orch. Flowers 274. 1971. *P. bulbocodioides* var. *nivea* (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1: 494. 1977. **Type:** Taiwan: Takao, Roohutu-San prope Koosyun, 1000 ped. Dec. 31, 1931, flowering Oct. 1932., *N. Fukuyama 3553*.

Pleione pricei Rolfe, Orch. Rev. 1916: 126; Curtis's Bot. Mag. 143: t.8729. 1917. **Type:** Taiwan: Giran, Bonbonsan, collected and sent to Kew by *W.R. Price s.n.* in 1914, flowered in Apr. 1917 (holotype K000079207).

Pogonia minor (Makino) Makino, Bot. Mag. (Tokyo) 23: 137. 1909; Fukuy., Bot. Mag. (Tokyo). 52: 244. 1938; Liu & Su, Fl. Taiwan 5: 1098. 1978; Lin, Orch. Fl. Taiwan 67, f.18. 2019. *Pogonia japonica* var. *minor* Makino, Bot. Mag. (Tokyo) 12: 103. 1898. **Types:** Japan: Kadzusa, June 14, 1882 (synType TI); Buxen, Mt. Inngadake, July 18, 1882, *Matsumura s.n.* (synType TI); Idzu, Omuro, June 4, 1883 (synType TI); Tosa, Nanokawa, June 10, 1889, *Watanabe s.n.* (synType); Enomura, Aug. 5, 1889, *Makino s.n.* (synType); Sakawa, June 1893, *Makino s.n.* (synType). 小鬚唇蘭

Pomatocalpa undulatum (Lindl.) J.J. Sm. subsp. **acuminatum** (Rolfe) S. Watthana & S.W. Chung, Harv. Pap. Bot. 11: 249. 2007; Y. Qin *et al.*, Guihaia 38: 1475–1479, pl.1. 2018; Lin, Orch. Fl. Taiwan 785, f.379. 2019; Aver. *et al.*, Phytotaxa 555(2): 126, f.8A, B. 2022. *Cleisostoma acuminatum* Rolfe, Bull. Misc. Inform. Kew 1913: 144. 1913. *Pomatocalpa acuminata* (Rolfe) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 290. 1919; Liu & Su, Fl. Taiwan 5: 1098, pl.1639. 1978. **Type:** H.J. Elwes brought from Formosa, flowering Feb. 1913 (holotype K). 黃繡球蘭

Cleisostoma brachybotryum Hayata, Icon. Pl. Formosan. 4: 95–96, f.49. 1914. *Pomatocalpa brachybotryum* (Hayata) Hayata, Icon. Pl. Formosan. 4: Add. & Corr. 1915; Masam., J. Geobot. 16(3): 23, pl.141. 1968; Lin, Native Orch. Taiwan 1: 240, ph.153, 154. 1975. **Type:** Taiwan: Location not indicated, Mar. 1914, *B. Hayata s.n.* (holotype TI, photo T00909 in PoT; isotype TAI622327 & 22328).

Ponerorchis alpestris (Fukuy.) X.H. Jin, Schuit. et W.T. Jin, Mol. Phylogenet. Evol. 77: 51. 2014; Lin, Orch. Fl. Taiwan 253, f.109. 2019. *Amitostigma alpestre* Fukuy., Bot. Mag. (Tokyo) 49(586): 664–665. 1935; Liu & Su, Fl. Taiwan 5: 870, pl.1543. 1978; Lin, Native Orch. Taiwan 3: 34, ph9. 1987; Lin *et al.*, Taiwania: 61(2): 79, 2016. *Hemipilia alpestris* (Fukuy.) Y. Tang & H. Peng, BMC Evol. Biol. 15: 27. 2015. *Orchis alpestre* (Fukuy.) S.S. Ying, Q. J. Chin. For. 8(4): 140. 1975. **Type:** Taiwan: Nankotaizan, Bunakkei [南湖園谷], July 26, 1933, *N. Fukuyama 4692* (holotype KPM-NA0105502, photo T00011 in PoT; isotype KPM-NA0105616, photo T00012 in PoT). ●高山離蘭



Ponerorchis ×alpestroides (T.C. Hsu) Lin, Orch. Fl. Taiwan 254, f.110. 2019. *Hemipilia ×alpestroides* T.C. Hsu, Ill. Fl. Taiwan 2: 89. 2016. **Type:** Taiwan: Hualien, Nanhutashan, Nenfong, *T.C. Hsu 201* (holotype TAI, left-sided plant). ●雌蝶蘭

Ponerorchis kiraishiensis (Hayata) Ohwi, Acta Phytotax. Geobot. 5: 146. 1936; Lin, Native Orch. Taiwan 3: 254, ph.141. 1987 & Orch. Fl. Taiwan 254, f.111. 2019. *Orchis kiraishiensis* Hayata, Icon. Pl. Formosan. 9: 116, f.41. 1920; Masam., J. Geobot. 16(1): 5, pl.133. 1968; Liu & Su, Fl. Taiwan 5: 1073, pl.1628. 1978. *Hemipilia kiraishiensis* (Hayata) Y. Tang & H. Peng, BMC Evol. Biol. 15(96), 27. 2015. **Type:** Taiwan: Kiraishizan 10,000 ped. [奇萊南峰] Aug. [8], 1918, *S. Ohashi* [大橋捨三郎] *s.n.* (holotype TI, photo T01165 in PoT; isotype TAI 6901). ●奇萊紅蘭/紅小蝶蘭

Orchis nanhutashanensis S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 2: 297–298. 1990. **Type:** Taiwan: Nanhutashan, June 26, 1985, *S.S. Ying s.n.* (NTUF) not found.

Ponerorchis taiwanensis (Fukuy.) Ohwi, Acta Phytotax. Geobot. 5: 146. 1936; Lin, Native Orch. Taiwan 3: 258, ph.144–146. 1987 & Orch. Fl. Taiwan 261, f.112. 2019. *Orchis taiwanensis* Fukuy., Bot. Mag. (Tokyo) 49(581): 290. 1935; Liu & Su, Fl. Taiwan 5: 1075. 1978. *Hemipilia taiwanensis* (Fukuy.) Y. Tang & H. Peng, BMC Evol. Biol. 15: 96. 2015. **Type:** Taiwan: Karenkoo, Gookan-zan [合歡山], July [19], 1929, *N. Fukuyama 4526* (holotype KPM-NA0105570, photo T00033 in PoT). ●台灣小蝶蘭

Ponerorchis taitungensis (S.S. Ying) S.S. Ying, Q. J. Chin. For. 21: 116. 1988. *Orchis taitungensis* S.S. Ying, Coloured Ill. Fl. Taiwan 1: 497. 1985. **Type:** Taiwan: S. Cross Highway, Ya-kou, 2700 m, Aug. 23, 1983, *S.S. Ying s.n.* (holotype NTUF, photo F00000139 in PoT).

Ponerorchis taitungensis var. *alboflorens* (S.S. Ying) S.S. Ying, Q. J. Chin. For. 21: 116. 1988. *Orchis taitungensis* var. *alboflorens* S.S. Ying, Coloured Ill. Fl. Taiwan 1: 498. 1985. **Type:** Taiwan: S. Cross Highway, Ya-kou, 2700 m, Aug. 23, 1983, *S.S. Ying s.n.* (NTUF, photo F00000139 in PoT).

Ponerorchis takasago-montana (Masam.) Ohwi, Acta Phytotax. Geobot. 5: 146. 1936; Lin, Orch. Fl. Taiwan 261, f.113. 2019. *Orchis takasago-montana* Masam., Trop. Hort. 3: 45. 1933 & Trans. Nat. Hist. Soc. Formosa 24(132): 206. 1934 & J. Geobot. 19(3): 6, pl.170. 1971; Liu & Su, Fl. Taiwan 1075. 1978. *Hemipilia takasago-montana* (Masam.) Y. Tang & H. Peng, BMC Evol. Biol. 15(96), 28. 2015. **Type:** Taiwan: Noko, Feb. 1933, *Masamune et Onuma s.n.* not found. ●高山小蝶蘭

Orchis chingshuishania S.S. Ying, Mem. Coll. Agric. Natl. Taiwan Univ. 28(2): 34, pl.1, ph.1, 2. 1988. **Type:** Taiwan: Chingshuishan 1600 m, Apr. 4, 1988, *S.S. Ying s.n.* (NTUF, photos F00008289 and F00008290 in PoT).

Ponerorchis tominagae (Hayata) H.J. Su & J.J. Chen, Fl. Taiwan 5: 1029, pl.439. 2000; Lin, Orch. Fl. Taiwan 262, f.114. 2019. *Gymnadenia tominagai* Hayata, Icon. Pl. Formosan. 6: 93–94. 1916. *Amitostigma tominagae* (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 95. 1919. *Orchis tominagae* (Hayata) Soó, Ann. Hist.-Nat. Mus. Natl. Hung. 26: 349. 1929. *O. tominaga* (Hayata) S.S. Ying, Q. J. Chin. For. 8(4): 140. 1975. *Hemipilia tominagai* (Hayata) Y. Tang & H. Peng, BMC Evol. Biol. 15(96): 28. 2015. **Type:** Taiwan: Nantocho, Gundaizan. Aug. 1916, *T. Tominaga s.n.* (holotype TI, photo T00869 in PoT). ●紅斑蘭

Ponerorchis kiraishiensis var. *leucantha* (Masam.) A.T. Hsieh, Q. J. Taiwan Mus. 8: 267. 1955. *Orchis kiraishiensis* f. *leucantha* Masam., J. Soc. Trop. Agric. 3(3): 246. 1931. *O. kiraishiensis* var. *leucantha* (Masam.) Masam., Trop. Hort. 3: 45. 1933. **Type:** Taiwan: Monte Daisuikutu, July 3, 1931, *K. Mori et G. Masamune s.n.*

Ponerorchis kunihikoana (Masam. & Fukuy.) Soó, Acta Bot. Acad. Sci. Hung. 12: 353. 1966; Lin, Native Orch. Taiwan 3: 256, ph.142, 143. 1987. *Orchis kunihikoana* Masam. & Fukuy., Bot. Mag. (Tokyo) 49(586): 663–664. 1935; Masam., J. Geobot. 19(3): 7, pl.171. 1971 & J. Geobot. 25(2): 6, f.239. 1977; Liu & Su, Fl. Taiwan 5: 1073. 1978. **Type:** Taiwan: Taityu; Taisuikutusan. [大水窟山], collected by D. Orimoto, July 1934, *N. Fukuyama 4704* (holotype KPM-NA0105568, photo T00031 in PoT; isotype KPM-NA0105569, photo T00032 in PoT).

Amitostigma taolooi S.S. Ying, Alp. Pl. Taiwan 1: 75, pl.102. 1975 & Q. J. Exp. For. Natl. Taiwan Univ. 10(4):74. 1975. *nom. nud.* *Orchis taolooi* S.S. Ying, Alp. Pl. Taiwan 1: 75, pl.102. 1975. *Ponerorchis taolooi* (S.S. Ying) T.P. Lin, Chin. Orch. Soc. Bull. 1(2): 102. 1978. **Type:** Taiwan: Maioli, Tapachinshan 3480–3500 m, *S.S. Ying 4121* (holotype NTUF, F00008212 in PoT).

Orchis kuanshanensis S.S. Ying, Coloured Ill. Fl. Taiwan 1: 494, f.162. 1985. **Type:** Taiwan: Mt. Kuan-shan-ling (關山嶺), 3000 m, Aug. 22, 1983, *S.S. Ying s.n.* (NTUF).

Rhomboda yakusimensis (Masam.) Ormerod, Orchadian 11: 331. 1995; Lin, Orch. Fl. Taiwan 263, f.115. 2019. *Zeuxine yakusimensis* Masam., J. Soc. Trop. Agric. 3: 393. 1931. *Hetaeria yakusimensis* (Masam.) Masam. ex Ohwi, Fl. Jpn. 370. 1953. *Hetaeria yakusimensis* (Masam.) Masam. ex E. Walker, Fl. Ryukyu 356. 1976. **Type:** Japan: Insl. Yak., Sept. 1, 1931, *G. Masamune 1436* (holotype TAI118756). 白肋角唇蘭

Rhomboda tokioi (Fukuy.) Ormerod, Taiwania 47(4): 243. 2002; Lin *et al.*, Taiwania 61(2): 117, 2016. *Hetaeria tokioi* Fukuy., Bot. Mag. (Tokyo) 48(571): 434. 1934. *Hetaeria cristata* var. *tokioi* (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 468. 1977. **Type:** Taiwan: Taihoku, Urai, Syo-agyku-san, collected by Suzuki-Tokio, Sept. 1932, *N. Fukuyama 4128* (holotype KPM-NA0105549, photo T00059 in PoT).



Hetaeria cristata auct. non Blume, in Lin, Native Orch. Taiwan 1: 204, ph.127–129. 1975.

Rhomboda lalashanensis S.S. Ying, New Taxa New Names 5: 478–483. 2022. **Type:** Taiwan: Taoyuan, Fuhsin, Lalashan 1940 m, S.S. Ying s.n. Sept. 15, 2022 (holotype, NTUF). **syn. nov.**

Saccolabiopsis viridiflora Aver., Rheedea 15(2): 97. 2005; E.A. Christenson, Orchideen j. May. 2008; Lin, Orch. Fl. Taiwan 787, f.380. 2019. **Type:** Vietnam: Nam Dong Distr., 300 m, Mar. 29, 2005, L. Averyanov *et al.* (holotype HN; isotype LE01075903). 假囊唇蘭

Saccolabiopsis wulaokenensis W.M. Lin, Kuo Huang & T.P. Lin, Taiwania 51(3): 165, f.3. 2006. **Type:** Taiwan: Yilan, Wulaokenchi 300 m, Apr. 2006, W.M. Lin s.n. (holotype TAI258035).

Saccolabiopsis taiwaniana S.W. Chung, T.C. Hsu & T. Yukawa, Taiwan Q. J. For. Res. 28(3): 25–28, f.1, 2. 2006. **Type:** Taiwan: Pingtung, Manzhouxiang 400–450 m, Apr. 11, 2006, S.W. Chung & T.C. Hsu 10099 (holotype TAI273333).

Schoenorchis vanoverberghii Ames, Orchidaceae 5: 242. 1915; Liu & Su, Fl. Taiwan 5: 1101. 1978; Lin, Orch. Fl. Taiwan 789, f.381. 2019. *Schoenorchis paniculata* var. *vanoverberghii* (Ames) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 499. 1977. **Type:** Philippines: Luzon, 1750 m, Sept.–Nov. 1913, M. Vanoverbergh 3644 (holotype AMES00287724; isotype AMES00083877). 羞花蘭

Schoenorchis paniculata auct. non Blume: Liu & Su, Q. J. Taiwan Mus. 25(1, 2): 150, f.3–5. 1972. Taiwan: Taitung: Chinsuiying, 1200 m, May 11, 1972, H.J. Su 1097.

Spathoglottis plicata Blume, Bijdr. Fl. Ned. Ind. 6: pl.76; 8: 401. 1825; Hayata, J. Coll. Sci. Univ. Tokyo 30: 322. 1911; Lin, Native Orch. Taiwan 2: 297, ph.144–146. 1977 & Orch. Fl. Taiwan 791, f.382. 2019. **Type:** Java: Blume s.n. (holotype L0061677; isotype P00339512). Taiwan: Kotosho, Apr. 15, 1907, T. Kawakami and U. Mori 2451 (TAI033919). 紫芭舌蘭

Spiranthes nivea T.P. Lin & W.M. Lin, Taiwania 56(4): 320. 2011; Lin, Orch. Fl. Taiwan 266, f.117. 2019. Pace *et al.*, Bot. J. Linn. Soc. 20: 23. 2018. **Type:** Taiwan: Pingtung, Tahanshan, 1500 m, May 20, 2009, Y.F. Wang s.n. (holotype TAI 270634). ●義富綫草

Spiranthes suishaensis auct. non (Hayata) Schltr.: Lin *et al.*, Taiwania 61(2): 117. 2016.

Spiranthes nivea var. **papillata** T.C. Hsu & Suetsugu, Phytotaxa 578(1): 6. Jan. 4, 2023. *S. minutiflora* T.C. Hsu, Ill. Fl. Taiwan 2: 187. 2016 (non *S. minutiflora* A. Rich. & Galeotti 1845); Chung & Hsu., Illu. Fl. Taiwan 2: 187. 2016. **Type:** Taiwan: Ilan, Tsuifeng Lake, 1800–1900 m, June 3, 2015, T.C. Hsu 7743 (holotype TAI496968). ●小花綫草

Spiranthes sinensis (Pers.) Ames, Orchidaceae 2: 53. 1908; Sasaki, List Pl. Formosan. 137. 1928; Lin, Native Orch. Taiwan 1: 244, ph.156, 157. 1975 & Orch. Fl. Taiwan 267, f.118. 2019. *Neottia sinensis* Pers., Syn. Pl. 2: 511. 1807. *Spiranthes australis* var. *sinensis* (Pers.) Gagnep., Fl. Indo-Chine 6: 546. 1933. *Aristotelea spiralis* Lour., Fl. Cochinch. 522. 1790. *Spiranthes spiralis* (Lour.) Makino, J. Jpn. Bot. 3: 25. 1926. *nom. illeg. non S. spiralis* (L.) Chevall. 1827; non *Neottia spiralis* (L.) Sw. 1800. *Ibidium spirale* (Lour.) Makino, J. Jpn. Bot. 6: 37. 1929. **Type:** S. China: Canton, 1790, J. de Loureiro 5521 (holotype P00150857). 綫草

Spiranthes suishaensis (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 161. 1919; Lin, Orch. Fl. Taiwan 265, f.116. 2019. *S. australis* (R. Br.) Lindl. var. *suishaensis* Hayata, Icon. Pl. Formosan. 6: 86–87. 1916. **Type:** Taiwan: Suisha [水社] 2500 ped. Apr. [28] 1916, B. Hayata s.n. (holotype TI, photo T01195 in PoT). 香港綫草

Spiranthes ×hongkongensis S.Y. Hu and Baretto, Chung Chi J. 13(2): 2. 1976; Hsu & Chung, Taiwan J. Biodivers. 16(4): 405–408. 2014.

Type: Hong Kong: Tai Po, Apr. 4, 1975, S.Y. Hu 13658 (holotype K000942682; isotype A, CUHK). Taiwan: New Taipei City: Xichi, Chepingliao, 300–400 m, Apr. 20, 2014, T.C. Hsu 7079 (TAIF).

Spiranthes pitouchaoensis S.S. Ying, New Taxa New Names 3: 19–23. 2020. **Type:** Taiwan. New Taipei City: Ruifang, Pitouchao [鼻頭角], 46 m, S.S. Ying s.n. June 28, 2020 (holotype, NTUF). **syn. nov.**

Stereosandra javanica Blume, Mus. Bot. Lugduno-Batavum 2: 176. 1856; Seidenf., Dansk Bot. Ark. 32(2): 173, f.107. 1978; Su, Q. J. Chin. For. 20(4): 104. 1987; Lin, Orch. Fl. Taiwan 793, f.383. 2019. **Type:** Java: Bantam. Kuhl & Hasselt s.n. (holotype L0062625). 肉藥蘭

Stigmatodactylus sikokianus Maxim. ex Makino, Ill. Fl. Japan 1(7): 70, t.43. 1891; G. Masam., List Vasc. Pl. Taiwan 1954; Lin, Orch. Fl. Taiwan 272, f.119. 2019. *Pantlingia sikokiana* (Maxim. ex Makino) Rauschert, Feddes Repert. 94: 434. 1983. **Type:** Japan: Tosa, Mt. Yohogura, Sept. 4, 1859, T. Makino. 彎指柱蘭/絲柱蘭



Taeniophyllum aphyllum (Makino) Makino, Phan. Pter. Jpn. Icon. 1(3): t.11. 1899; Masam., List Vasc. Pl. Taiwan 169. 1954; Suetsugu & Hsu, Acta Phytotax. Geobot. 74 (1): 41. 2023. *Sarcochilus aphyllus* Makino, Bot. Mag. (Tokyo) 6: 48 1892, *nom. nud.* *Cryptorchis aphylla* Makino, Bot. Mag. (Tokyo) 7: 118. 1893, *nom. nud.* & Bot. Mag. (Tokyo) 9: 231. 1895. **Type:** Japan: Tosa: Ikenouchi, Apr. 4, 1887, *T. Makino s.n.* (lectotype TNS01014224, designated by Suetsugu & Hsu (2023); isolectotype TNS01014225). 蜘蛛蘭

Taeniophyllum aphyllum var. *sawadae* *nom. nud.* In sched. Taiwan: Pingtung: Kaosufu. Collector and date unknown (TAI18752, line drawing on label).

Taeniophyllum glandulosum *auct. non* Blume: Garay & Sweet, Orch. S. Ryukyu Isl. 159. 1974.

Taeniophyllum chitouensis S.S. Ying, Coloured Ill. Fl. Taiwan 1: 799, ph.987. 1992. **Type:** Taiwan: Nantou: Chitou, Mar. 21, 1992, *S.S. Ying s.n.* (NTUF). Not found. ●溪頭蜘蛛蘭

T. glandulosum *auct. non* Blume: in Su, Fl. Taiwan 2nd ed. 5: 753. pl.320. 2000.

Taeniophyllum compactum Ames, Orchidaceae 2: 247. 1908; Lin, Orch. Fl. Taiwan 808, f.390. 2019. *Microtatorchis compacta* (Ames) Schltr., Repert. Spec. Nov. Regni Veg. 10: 209. 1911; Liu & Su, Fl. Taiwan 5: 1060, pl.1622. 1978; Lin, Native Orch. Taiwan 3: 165, ph.95. 1987. **Type:** Philippines: Prov. Benguet, Baguio, Luzon Isl., Sept. 15, 1904, *R.S. Williams 1937* (holotype NY; isotype AMES00101780, illustration given). 假蜘蛛蘭

Microtatorchis taiwanianum S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 248. 1977. **Type:** Taiwan: Nantou, Chitou, 1260 m, July 30, 1976, *Ying 4970* (NTUF-F00008220).

Taeniophyllum complanatum Fukuy., Bot. Mag. (Tokyo) 49(583): 443. 1935. Suetsugu & Hsu, Acta Phytotax. Geobot. 74 (3): 177–182. 2023; Lin & Zhu, Taiwania 69(3): 306, fig. 3. 2024. **Type:** Taiwan: Pintung, prope Botansha [牡丹社], May 30, 1934, *N. Fukuyama 4551* (holotype KPM-NA0105578 without Fukuyama's no., photo T00041 in PoT). 扁蜘蛛蘭

Taeniophyllum crassipes Fukuy., Bot. Mag. (Tokyo) 52(617): 247. 1938; Hsu, Ill. Fl. Taiwan 2: 196, ph. 2016. **Type:** Taiwan: Sintiku: Inoue [清泉 (五峰)] 600 m, collected on Jan. 1, 1936 & flowering May 1936, *N. Fukuyama 6396* (holotype KPM-NA0105579 without Fukuyama's no., photo T00007 in PoT). ●厚腳蜘蛛蘭/長腳蜘蛛蘭

Taeniophyllum daxueshanensis T.P. Lin, Taiwania 69(3): 380, fig.1. 2024. **Type:** Taiwan: Taichung Co., Daxueshan, 1945 m, Jun. 26, 2024, *S.K. Yu s.n.* (TAI0289921). ●大雪山蜘蛛蘭

Taeniophyllum lishanianum T.P. Lin & G.X. Zhu, Taiwania 69(3): 303, fig. 1. 2024. **Type:** Taiwan: Taichung Co., Lishan, 1945 m, May 6, 2024, *G.X. Zhu 63* (TAI289916). ●玉惠蜘蛛蘭

Taeniophyllum taiwanensis T.P. Lin, Taiwania 69(3): 382, fig.2. 2024. **Type:** Taiwan: Taoyuan Co., Fuxin Township, Xiayunping, 300–400 m, Jul. 26, 2024, *T.P. Lin s.n.* (TAI289922). ●大扁根蜘蛛蘭

Taeniophyllum radiatum *auct. non* J.J. Sm.: Lin & Wang, Wild Orch. Taiwan, Ill. Guide 812 & ph. 2014.

Taeniophyllum sp. Hsu, Ill. Fl. Taiwan 2: 197 ph. 2016.

Taeniophyllum tumulusum T.P. Lin & G.X. Zhu, Taiwania 69(3): 303, fig. 2. 2024. **Type:** Taiwan: Chiayi Co., Alishan Township, Shimeng Valley, 1300–1400 m, Mar. 20, 2024, *G.X. Zhu 64* (TAI289917). ●塔山蜘蛛蘭

Tainia cordifolia Hook. f., Hooker's Icon. Pl. 19, pl.1861. 1889; Sasaki, List Pl. Formosa 138. 1928; Lin, Orch. Fl. Taiwan 813, f.393. 2019. *Mischobulbum cordifolium* (Hook. f.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 1: 98. 1911; Masam., List Vasc. Pl. Taiwan 165. 1954 & J. Geobot. 15(1–3): 8, f.124. 1966; Lin, Native Orch. Taiwan 1: 212, ph.133, 134. 1975. **Type:** Taiwan: Kelung, June 1884. *C. Ford s.n.* (holotype K000943516). 葵蘭

Tainia fauriei Schltr., Repert. Spec. Nov. Regni Veg. 9: 282. 1911. **Type:** Taiwan: Auf den Kushaku-Bergen, June 6, 1903. *U. Faurie 539* (isotypes P00387135; TI, photo T01197 in PoT).

Tainia dunnii Rolfe, J. Linn. Soc. Bot. 38: 368. 1908; Chen et al., Fl. Reipubl. Popularis Sin. 237, pl.40. 1999; Lin, Orch. Fl. Taiwan 813, f.394-1. 2019; Lin, 611. F401-1. 2022. **Type:** China: Fujian, Buong Kang, May 30, 1905, *S.T. Dunn* in HK 3542 (holotype K000943514). 長葉杜鵑蘭

Tainia shimadai Hayata, Icon. Pl. Formosan. 6: 75, pl.7, f.11. 1916; Masam., J. Geobot. 20(2): 7, f.180. 1972. *T. laxiflora* var. *shimadai* (Hayata) M. Hiroe, Orch. Flowers 2: 89. 1971. *Kitigorchis shimadai* (Hayata) Maek., Wild Orch. Jpn. Colour 469. 1971. **Type:** Taiwan: Taihoku, Tikushizan [竹仔山], Apr. [28], 1915, *Y. Shimada s.n.* (holotype TI, photo T01198 in PoT).

Tainia piyananensis Fukuy., Bot. Mag. (Tokyo) 49(581): 294. 1935. *T. laxiflora* var. *piyananensis* (Fukuy.) Masam., J. Geobot. 21(4): 14, f.197. 1974. **Type:** Taiwan: Piyanan-anbu [思源啞口], July 1930, *N. Fukuyama 4148* (holotype KPM-NA0105583, photo T00044 in PoT).



Tainia hualienia S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 321, f.146. 1977. **Type:** Taiwan: Hualien: Taipalung 600 m, Feb. 2–4, 1975, S.S. Ying 3509. *syn. nov.*

Tainia dunnii var. *caterva* (T.P. Lin & W.M. Lin) Lin, Taiwania 61(2): 119. 2016. *T. caterva* T.P. Lin & W.M. Lin, Taiwania 54(4): 330–331, f.21. 2009. *T. dunnii* f. *caterva* (T.P. Lin & W.M. Lin) Lin, Orch. Fl. Taiwan 814. 2019. **Type:** Taiwan: Taipei, Jurluhshan, 600 m, May 25, 2009, L.R. Chang s.n. (holotype TAI268957). *Syn. nov.*

Tainia elliptica Fukuy., Bot. Mag. (Tokyo) 49(581): 293. 1935; Masam., J. Geobot. 18(3–4): 14, pl.164. 1970; Lin, Native Orch. Taiwan 3: 267, ph.150–151. 1987 & Orch. Fl. Taiwan 818, f.395. 2019. **Type:** Taiwan: Shinchiku: Chikutoo [竹東], Jan. 7, 1932, *N. Fukuyama 4540* (lectotype KPM-NA0105581 without Fukuyama's no., photo T00042 in PoT, designated by Lin *et al.*, Taiwania 61(2): 119. 2016). ●橢圓杜鵑蘭

Tainia latifolia auct. non (Lindl.) Rchb. f.: Su, Fl. Taiwan 5: 1045. 2000.

Thelasis pygmaea (Griff.) Lindl., J. Proc. Linn. Soc. Bot. 3: 63. 1858; Seidenf., Opera Bot. 89: 156, f.101. 1986; Lin, Orch. Fl. Taiwan 820, f.396. 2019. *Euproboscis pygmaea* Griff., Calcutta J. Nat. Hist. 5: 372. 1845. **Type:** Nepal: cult. in H.C. Botanic Garden at Calcutta, flowered in April 1844, *H. Lawrence s.n.* (CALC). 閉花八粉蘭

Thelasis clausa Fukuy., Bot. Mag. (Tokyo) 49(583): 440. 1935; Masam., J. Geobot. 21(1): 1, f.187. 1973. **Type:** Taiwan: Karenkoo, Kenkai-shichoo [研海支廳], Taroko-chaya, collected by K. Segawa, Aug. 15, 1934, *N. Fukuyama 4562* (holotype KPM-NA 0105585, photo T00045 in PoT; isotype KPM, photo T01199 in PoT).

Thelasis triptera Rchb.f., Bonplandia (Hannover) 3: 219. 1855; Lin, Native Orch. Taiwan 3: 272, ph.154–155. 1987.

Thrixspermum annamense (Guillaumin) Garay, Bot. Mus. Leaf. Harv. Univ. 23: 206. 1972; Seidenf., Opera Bot. 95: 167, f.102. 1988; Lin, Orch. Fl. Taiwan 822, f.397. 2019. *Ascochilus annamensis* Guillaumin, Bull. Mus. Natl. Hist. Nat. ser. 2, 33: 333. 1961. **Type:** Vietnam: Blao, 1960, *P. Tixier # 12-60* (holotype P00324328, line drawing on label). 鉤唇風鈴蘭

Thrixspermum devolium T.P. Lin & C.C. Hsu, Taiwania 22(1): 69, f.12. 1977. **Type:** Taiwan: Nantou, Lienhuachi, 750 m, Mar. 29, 1976, Lin 325 (holotype TAD).

Thrixspermum eximium L.O. Williams, Bot. Mus. Leaf. Harv. Univ. 6: 84–85. 1938; Lin & Hu, Q. J. Chin. For. 9(1): 54, pl.4. 1976; Lin, Orch. Fl. Taiwan 824, f.398. 2019. **Type:** Philippines: Luzon, Jan. 1911, *F.M. Vanoverbergh 1091* (holotype AMES00090928). 異色瓣

Thrixspermum fantasticum L.O. Williams, Bot. Mus. Leaf. Harv. Univ. 6: 82. 1938; Garay & Sweet, Orch. S. Ryukyu Isl. 148. 1974; Lin, Native Orch. Taiwan 2: 303, ph.156. 1977 & Orch. Fl. Taiwan 824, f.399. 2019. **Type:** Philippines: Jaro, Buenaviata, 500 m, July 4, 1914, *Wenzel 496* (holotype AMES00243124, illustration given). 金唇風鈴蘭

Thrixspermum neglectum Fukuy., Trans. Nat. Hist. Soc. Formosa 32: 269. 1942 & Acta Phytotax. Geobot. 14(5): 136. 1952; Masam., J. Geobot. 18(2): 11, pl.162. 1970. **Type:** Taiwan: Taipei, Agyoku, collected on Dec. 28, 1935, flowering May 1936, *N. Fukuyama 7447* (holotype, not found); Ryukyus: Ins. Iriomote, June 5, 1938, *N. Fukuyama 7448* (paratype, not found).

Chamaeanthus wenzelii auct. non Ames: Hsieh, Q. J. Taiwan Mus. 8: 224. 1955.

Thrixspermum formosanum (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 273. 1919; Masam., J. Geobot. 20(3): 9, f.181. 1972; Lin, Native Orch. Taiwan 2: 306, ph.149–151. 1977 & Orch. Fl. Taiwan 827, f.400. 2019; N. Toolmal *et al.*, 601(3): 11. 223–262. 2023 (*T. musciflorum* and its variety *nilagiricum* are reduced to synonyms of *T. formosanum*). *Sarcochilus formosanus* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 336. 1911. **Type:** *T. Kawakami et U. Mori s.n.* not found. 台灣風鈴蘭

Dendrocolla pricei Rolfe, Bull. Misc. Inform. Kew 1913: 144. 1913. *Thrixspermum pricei* (Rolfe) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 274. 1919. **Type:** Taiwan: E. coast plain, Matouan, Savage village, Sept. 5, 1912, flowering Feb. 1913, *W.R. Price 453* (K000891325).

Thrixspermum sasaoi Masam., Trans. Nat. Hist. Soc. Formosa 24(133): 280. 1934. **Type:** Taiwan: Nantou, Horisya [埔里社], Mar. 22, 1934, *Masamune s.n.* (syntype TAI118755; KPM-NA0105610, photo T00082 in PoT).

Thrixspermum musciflorum A.S. Rao & J. Joseph, Bull. Bot. Surv. India 11 (1 & 2): 204–205, f.1–6. 1969 publ. 1971. **Type:** India: Meghalaya, Nongpoh, between Umran & Umsaw beside the Gauhati-Shillong highway, July 26, 1966, *Joseph 45621A* (holotype CAL); *Joseph 45621 B–G* (isotype); *A.S. Rao 45638A–G* (paratype).

Thrixspermum musciflorum var. *nilagiricum* J. Joseph & Vajr., Indian For. 107(10): 648. 1981. **Type:** India: Nilgiri Hills.

Thrixspermum merguense (Hook. f.) Kuntze, Revis. Gen. Pl. 2: 682. 1891; Seidenf., Opera Bot. 95: 159. 1988; Su, Fl. Taiwan 5: 1051. 2000; Lin, Orch. Fl. Taiwan 830, f.401. 2019. *Sarcochilus merguensis* Hook. f., Fl. Br. India 6: 40. 1890. *Dendrocolla merguensis* (Hook. f.) Ridl., J. Linn. Soc. Bot. 32: 380. 1896. **Type:** Burma: Tenasserim, Mergui, *Griffith s.n.* (holotype K-LINDL). 高士佛風鈴蘭



Sarcochilus kusukusensis Hayata, Icon. Pl. Formosan. 6: 83–84. 1916. *Thrixspermum kusukusense* (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 274. 1919; Masam., J. Geobot. 15(1–3): 10, f.127. 1966 & J. Geobot. 24(4): 14, f.233. 1977; Lin, Native Orch. Taiwan 2: 310, ph.152–153. 1977. **Type:** Taiwan: Kusukusu, Aug. 1914, *B. Hayata s.n.*

Thrixspermum pensile Schltr., Bot. Jahrb. Syst. 45(Beibl. 104): 59. 1911; Seidenf., Opera Bot. 95: 187, f.103. 1988; Lin, Orch. Fl. Taiwan 830, f.402. 2019. **Type:** Sumatra: Auf Baumen, 1000 m, Jan. 22, 1907, *R. Schlechter 15928*. 懸垂風鈴蘭

Dendrobium pendulicaule Hayata, Icon. Pl. Formosan. 4: 44, f.16. 1914. *Thrixspermum pendulicaule* (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 274. 1919; Lin & Hsu, Taiwania 22(1): 65, f.6. 1977. **Type:** Taiwan: Kusukusu, July 1912, *B. Hayata et S. Sasaki s.n.* (holotype TI, photo T00943 in PoT).

Thrixspermum pygmaeum (King & Pantl.) Holttum, Kew Bull. 14: 275, f.1C, D. 1960; Yukawa, Bull. Natl. Sci. Mus. Tokyo, ser. B 42(3): 103–111, f.1C, D. 2016; Lin, Orch. Fl. Taiwan 833, f.403. 2019. *Sarcochilus pygmaeus* King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 207. 1898. **Type:** Sikkim, Pemiongtsi (Pemayangtse), *Pantling 472* (holotype CAL). 黃蛾蘭

Thrixspermum laurisilvaticum (Fukuy.) Garay, Bot. Mus. Leafl. Harv. Univ. 23: 207. 1972; Lin, Native Orch. Taiwan 2: 312, ph.154, 155. 1977. *Sarcochilus laurisilvaticus* Fukuy., Bot. Mag. (Tokyo) 52(617): 246. 1938; Lin, Taiwania 22(1): 62, f.5. 1977. *Thrixspermum laurisilvaticum* (Fukuy.) T.S. Liu & H.J. Su, Encycl. Nat. Sci. Bot. 8: 898. 1972. *T. laurisilvaticum* (Fukuy.) S.S. Ying, Bull. Exp. For. Natl. Taiwan Univ. 114: 157. 1974. *T. laurisilvaticum* (Fukuy.) S.Y. Hu, Q. J. Taiwan Mus. 28(1–2): 171. 1975. **Type:** Taiwan: Sintiku, prop Inoue 600 m, collected Jan. 1, 1936 & flowering Apr. 1936. *N. Fukuyama 6106*, not found. *Thrixspermum xanthanthum* Tuyama, J. Jpn. Bot. 16: 523. 1940. **Type:** Taihiku, Taiheizan, Apr. 2, 1940, *Y. Kobayashi* [小林義雄] *s.n.* (holotype TI, photo T01200 in PoT).

Thrixspermum saruwatarii (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 275. 1919; Lin, Native Orch. Taiwan 2: 317, ph.157–159. 1977 & Orch. Fl. Taiwan 835, f.404. 2019; Moa *et al.*, Bull. Arunachal For. Res. 27: 68–70. 2011. *Sarcochilus saruwatarii* Hayata, Icon. Pl. Formosan. 6: 84, f.18. 1916; T.C. Lin & C.C. Hsu, Taiwania 22(1): 62, f.5. 1977. **Type:** Taiwan: Keitao, Apr. [8], 1916, *B. Hayata s.n.* (holotype TI, photo T01201 in PoT). 小白蛾蘭/溪頭風蘭

Thrixspermum subulatum (Blume) Rchb. f., Xenia Orch. 2: 122. 1868; Liu & Su, Q. J. Taiwan Mus. 28: 270, f.3. 1975; Lin, Orch. Fl. Taiwan 835, f.405. 2019. *Dendrocolla subulata* Blume, Bijdr.: 291. 1825. *Aerides subulata* (Blume) Lindl., Gen. Sp. Orch. Pl. 241. 1833. *Sarcochilus subulatus* (Blume) Rchb. f. in W.G. Walpers, Ann. Bot. Syst. 6: 500. 1863. **Types:** Java: Mt. Salak, *Blume s.n.* (synType L); Seribu, *Blume s.n.* (synType L). Taiwan: Taitung, Tawuchi, 100 m, *H.J. Su 143, 229, 224, 1037* (NTUF). 厚葉風蘭/肥垂蘭

Tipularia josephi Rchb. f. ex Lindl. f. **cunninghamii** (King & Prain) Suetsugu, Acta Phytotax. Geobot. 70: 187. 2019. *Didickea cunninghamii* King & Prain, J. Asiat. Soc. Bengal, Pt.2, Nat. Hist. 65: 119. 1896; Seidenf., & Arora, Nord. J. Bot. 2: 14. 1982; Su, Taiwania 47(3): 232–238. 2002. *Tipularia cunninghamii* (King & Prain) S.C. Chen, S.W. Gale & P.J. Cribb, Fl. China 25: 251. 2009; Lin, Orch. Fl. Taiwan 839, f.406. 2019. **Type:** India: Sikkim Himalaya: Lachen Valley, 12,000 ft., July 1895, *R. Pantling 396* (syntype BM, BR0000008578761, K000387845, P00420867). 細花軟葉蘭

Tipularia odorata Fukuy., Bot. Mag. (Tokyo) 52(617): 243. 1938; Masam., J. Geobot. 19(1–2): 3, pl.168. 1971; Lin, Native Orch. Taiwan 2: 323, ph.164–165. 1977 & Orch. Fl. Taiwan 842, f.407. 2019. **Type:** Taiwan: Taihoku, Nankotaizan, inter Bunakke et Kirittoi 2400 m, [July 13, 1937], *N. Fukuyama 6114* (holotype KPM-NA0105586, photo T0008 in PoT; isotype KPM, photo G00908 in PoT). ●南湖蠅蘭

Trichoglottis luchuensis (Rolfe) Garay & H.R. Sweet, Bot. Mus. Leafl. Harv. Univ. 23: 209. 1972; Liu & Su, Fl. Taiwan 5: 1118, pl.1647. 1978; Lin, Orch. Fl. Taiwan 842, f.408. 2019. *Stauroopsis luchuensis* Rolfe, Bull. Misc. Inform. Kew 1907: 131. 1907, the figure in the Somoku Zusetsu (草木図説前編 18: t.23. 1856) was cited. *Cleisostoma ionosma* f. *luchuensis* Makino, Bot. Mag. (Tokyo) 21: 60. 1907. *Vandopsis luchuensis* (Rolfe) Schltr., Repert. Spec. Nov. Regni Veg. 10: 196. 1911. *Staurochilus luchuensis* (Rolfe) Fukuy., Trans. Nat. Hist. Soc. Formosa 32: 270. 1942. *Pomatocalpa luchuense* (Rolfe) Tang & F.T. Wang, Acta Phytotax. Sin. 1: 99. 1951. *Trichoglottis ionosma* var. *luchuensis* (Rolfe) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 507. 1977. **Type:** Ryukyu: Isl. Iriomote, cult. in Tokyo and presented by J. Matsumura to Kew in 1906 (holotype K000364420). Taiwan: Taipei: Wulai, Mar. 22, 1933, *S. Sasaki s.n.* (TAI033805). 屈子花/豹紋蘭

Cleisostoma ionosma auct. non Ridl.: Hayata, Icon. Pl. Formosan. 2: 134. 1912.
Trichoglottis ionosma auct. non (Lindl.) J.J. Sm.: Hayata, Gen. Ind. Fl. Formosa 82. 1917.



Trichoglottis rosea (Lindl.) Ames in E.D. Merrill, Enum. Philipp. Fl. Pl. 1: 440. 1925; A. Lamb, Malesian Orch. J. 1: 17–40. 2008; Lin, Native Orch. Taiwan 2: 326, ph.168–169. 1977 & Orch. Fl. Taiwan 843, f.409. 2019. *Cleisostoma roseum* Lindl., Edwards's Bot. Reg. 24(Misc.): 80. 1838. *Pomatocalpa roseum* (Lindl.) J.J. Sm., Natuurk. Tijdschr. Ned.-Indie 72: 106. 1912. **Type:** Philippines: Manila, *Cuming s.n.* (holotype K-LINDL). 鳳尾蘭

Cleisostoma breviracema Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 338. 1911. *Pomatocalpa breviracemum* (Hayata) Hayata, Icon. Pl. Formosan. 4: Add. & Corr. 1915. *Trichoglottis rosea* var. *breviracema* (Hayata) T.S. Liu & H.J. Su, Native Orch. Taiwan 186, pl.39. 1975.

Type: Taiwan: 1899, *T. Uchiyama s.n.* (holotype TI, photo T00910 in PoT; isotype K000364421).

Cleisostoma oblongisepala Hayata, Icon. Pl. Formosan. 2: 134. 1912. *Pomatocalpa oblongisepalum* (Hayata) Hayata, Icon. Pl. Formosan. 4: Add. & Corr. 1915. *Trichoglottis oblongisepala* (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 286. 1919. **Type:** Taiwan: Pingtung, Botansha [牡丹社], Mar. 1898, [flowering Apr. 1912] *C. Owatari s.n.* (holotype TI, photo T01204 in PoT).

Tropidia angulosa (Lindl.) Blume, Coll. Orch. 122. 1859; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 92. 1896; Matsum. & Hayata, J. Coll. Sci. Univ. Tokyo 22: 414. 1906; Garay & H.R. Sweet, Orch. S. Ryukyu Isl. 92. 1974; Liu & Su, Fl. Taiwan 5: 1122. 1978; Ormerod, Harv. Papers Bot. 23(1): 77. 2018; Lin, Orch. Fl. Taiwan 846, f.410. 2019. *Cnemidia angulosa* Lindl., Edwards's Bot. Reg. 19: sub t.1618. 1833, *nom. inval.* & Gen. Sp. Orch. Pl. 463. 1840. **Type:** India. Mountains of Sylhet, W. Gomez in *Wallich Number. List 7388* (synType K001127272); Courtallum, *R. Wight 928* (synType K000895726). 相馬氏摺唇蘭

Tropidia somae Hayata, Icon. Pl. Formosan. 6: 85, pl.13. 1916; Nackej., Biol. Mag. Okinawa 13: 34. 1975. **Type:** Taiwan: Ako: Datestu, July 1912, *T. Soma s.n.* (holotype TI, photo T01208 in PoT).

Tropidia curculigoides Lindl., Gen. Sp. Orch. Pl. 497. 1840; Liu & Su, Q. J. Taiwan Mus. 28: 271, f.4. 1975 & Fl. Taiwan 5: 1122, pl.1649. 1978; Ormerod, Harv. Papers Bot. 23(1): 78. 2018; Lin, Orch. Fl. Taiwan 846, f.411. 2019. **Type:** India. Sylhet, 1827, collected by F. de Silva & W. Gomez, N. Wallich Number. List 7386A (lectotype K000079515, here designated). Ormerod in Harv. Papers Bot. 23(1): 79. 2018 designated specimen in K-LINDL as lectotype; however, according to Herbarium Lindley IDC microfiche 7395, there are four specimens in Lindley herbarium, and a single specimen is selected here. 仙茅摺唇蘭

Tropidia formosana Rolfe, Ann. Bot. (Oxford) 9(33): 158. 1895; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 92. 1896; Lin, Orch. Fl. Taiwan 847, f.412. 2019. **Type:** Banksing, *A. Henry 1573* (holotype K000942870, isotype NY00009446). 南化摺唇蘭

Tropidia nanhuae W.M. Lin, Kuo Huang & T.P. Lin, Taiwania 51(3): 165–168, f.4, 5c, 6. 2006. **Type:** Taiwan: Tainan, Nanhua Dam, 150 m, *W.M. Lin s.n.* (holotype TAI256769).

Tropidia namasiae C.K. Liao, T.P. Lin & M.S. Tang, Novon 22 (4): 424–427, f.1, 2. 2013; V. Kumar *et al.* Richardiana 15: 317–322. 2015; Ormerod, Harv. Papers Bot. 23(1): 81. 2018; Lin, Orch. Fl. Taiwan 852, f.413. 2019. **Type:** Kaohsiung: Namasia 1380 m, May 5, 2009, *C.K. Liao 3594* (holotype TAI271855). 拉瑪夏摺唇蘭

Tropidia nipponica Masam., Bot. Mag. (Tokyo) 43: 249. 1929 & Coloured Ill. Fl. Jpn. 8: 219, f.1969; Hsu, Ill. Fl. Taiwan 2: 209. 2016; Lin *et al.*, Taiwania 61(2): 121, 2016; Lin, Orch. Fl. Taiwan 852, f.414. 2019. *T. angulosa* var. *nipponica* (Masam.) S.S. Ying, Coloured Ill. Orch. Taiwan 2: 677. 1990. **Type:** Japan: Insula Yakusima, Hirauchi, collected in 1923, fl. June 29, 1928, *G. Masamune s.n.* (lectotype TI00080522 designated by Gale *et al.*, Bull. Natl. Mus. Nat. Sci., ser. B 47(3): 119–130. 2021.; isolectotype TI00080521). 狹葉摺唇蘭

Tropidia angustifolia C.L. Yeh & C.S. Leou, Taiwania 54(2): 140–144, f.1–3. 2009. **Type:** Pingtung: Mt. Lilung, 600–700 m, July 19, 2008, *C.R. Yeh s.n.* (holotype PPI).

Tropidia sui T.C. Hsu, Ill. Fl. Taiwan 2: 210. 2016; Lin, Orch. Fl. Taiwan 853, f.415. 2019. **Type:** Taiwan: New Taipei City, Pihu, June 9, 2010, *T.C. Hsu 2816* (holotype TAIF). 蘇氏摺唇蘭

Tropidia nipponica auct. non Masam.: Su, Q. J. Chin. For. 20(4): 104, pl.6. 1987. Taiwan: Pingtung: Nanjenshan, *Su 7762*.

Tropidia nipponica auct. non Masam.: Gale *et al.*, Bull. Natl. Mus. Nat. Sci., ser. B 47(3): 119–130, f.1, 2. 2021.

Tuberolabium kotoense Yamam., Bot. Mag. (Tokyo) 38: 209. 1924; Lin, Native Orch. Taiwan 2: 329, ph.166–167. 1977 & Orch. Fl. Taiwan 858, f.416. 2019. *Saccolabium kotoense* (Yamam.) Yamam., Icon. Pl. Formosan. Suppl. 2: 6. 1926; Masam., J. Geobot. 15(1–3): 5, f.121. 1966. *Robiquetia kotoense* (Yamam.) S.S. Ying, Q. J. Chin. For. 11(2): 102. 1978. **Type:** Taiwan: Kotosho, [collected Feb. 7, 1920] flowering Mar. 1920, *S. Sasaki s.n.* (lectotype designated by T.P. Lin *et al.*, Taiwania 61(2): 121. 2016, TI, photo T01209 in PoT); May 1927, *S. Sasaki s.n.* (syntype, not found).

●紅頭蘭



Vanda lamellata Lindl., Edwards's Bot. Reg. 24 (Misc.): 66. 1838; Liu & Su, Fl. Taiwan 5: 1126. 1978; Lin, Orch. Fl. Taiwan 861, f.417. 2019. **Type:** Philippines: Manila. *Loddiges s.n.* 雅美萬代蘭

Vanda amiensis Masam. & Segawa, Trans. Nat. Hist. Soc. Formosa 24(132): 212. 1934. **Type:** Taiwan: Kotosyo, Apr. 1934, *Sagawa s.n.* (holotype TAI 033846; isotype KPM-NA0105604, photo T00083 in PoT).

Vanda yamiensis Masam., J. Geobot. 15(1–3): 12, f.126. 1966 *nom. nud.* & Coloured Ill. Fl. Nippon 8: 277. 1969. Found in Kotosyo and Uoturi-zima in Ryukyu. Only figure no description.

Vanda lamellata var. *tawuensis* S.S. Ying, New Taxa New Names 5: 465–470. 2022. **Type:** Taiwan: Taitung, Tawu, 421 m, cult. Taipei, S.S. Ying *s.n.* Mar. 22, 2022 (holotype, NTUF). **syn. nov.**

Vanilla somae Hayata, Icon. Pl. Formosan. 6: 88, pl. 14. 1916.; Masam., J. Geobot. 25(3): 10, f.242. 1977; Lin, Native Orch. Taiwan 1: 248, f.160. 1975 & Orch. Fl. Taiwan 69, f.19. 2019. *Miguelia somae* (Hayata) Aver., Turczaninowia 14, 2: 49, f.20a–d, 21, 24i, 27a, b. 2011; Aver. & Vuong, Taiwania 60(1): 34. 2015. **Type:** Taiwan: Remogan [林望眼/烏來福山], May [6], 1916, *B. Hayata et T. Soma s.n.* (holotype TI, photo T01211 in PoT). 台灣梵尼蘭

Vanilla griffithii var. *formosana* T. Ito, Icon. Pl. Jpn. 1(4): 1, pl.1. 1911. **Type:** Taiwan: Kagi, 2000 ft, Apr. 1909, *T. Kawakami s.n.* not found.

Vanilla ronoensis Hayata, Icon. Pl. Formosan. 9: 114. 1920. *V. griffithii* var. *ronoensis* (Hayata) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 509. 1977. **Type:** Taiwan: Inter Rono et Kosenpo [荖濃–甲仙埔], Apr. [8], 1917, *B. Hayata s.n.* (holotype TI, photo T01212 in PoT).

Vanilla albida auct. non Blume: Su, Q. J. Chin. For. 21(1): 123. 1988.

Vrydagzynea nuda Blume, Coll. Orch. 74, t.17. f. 3, 8–13. 1858; Lin, Native Orch. Taiwan 3: 277. 1987 & Orch. Fl. Taiwan 274, f.120. 2019. *Hetaeria nuda* (Blume) Miq., Fl. Ned. Ind. 3: 726. 1859. **Type:** Java: Bantam Prov., Harriang, collected by v. Hasselt. not found. 二尾蘭

Vrydagzynea formosana Hayata, Icon. Pl. Formosan. 6: 88 1916.; Masam., J. Geobot. 25(4): 14, f.245. 1978; *V. albida* var. *formosana* (Hayata) T. Hashim., Proc. World Orch. Conf. 12: 122. 1987. **Type:** Taiwan: Inter Urai et Agioku. May [6], 1916, *B. Hayata s.n.* (holotype TI, photo T01213 in PoT; isotype TAI F7007).

Yoania amagiensis Nakai & F. Maekawa var. **squamipes** (Fukuy.) C.L. Yeh et C.S. Leou, Q. J. For. Res. 28(3): 17–24. 2006; Lin, Orch. Fl. Taiwan 863, f.418. 2019. *Y. japonica* var. *squamipes* Fukuy., Bot. Mag. (Tokyo) 52(617): 244. 1938. *Y. squamipes* (Fukuy.) Masam., J. Geobot. 21(3): 10, f.194. 1974. **Type:** Taiwan: Chiayi, Alisan, prope Nyautina [里佳] 1500 m, collected by K. Segawa, May 8, 1937, *Fukuyama 6400* (holotype KPM, photo T00086 in PoT; isotype TAI F 117050). ●密鱗長花柄蘭

Yoania japonica Maxim., Bull. Acad. Imp. Sci. Saint-Pétersbourg, sér. 3, 18: 69–70. 1873; Chang & Lin, Bull. Taiwan For. Res. Inst. New ser. 5(4): 259–262, pl.1. 1990; Lin, Orch. Fl. Taiwan 865, f.419. 2019. **Type:** Japan: 1864. *Tschonoski Sukawa s.n.* (holotype LE01012241). Taiwan: Hualien: Hoping Forest trail between 38 and 39 km, 1900 m, June 11, 1990. *Chang 001* (TAIF). 長花柄蘭

Zeuxine affinis (Lindl.) Benth. ex Hook. f., Fl. Br. India 6: 108. 1890; W.J. Hooker & J.D. Hooker, Icon. Pl. 22: t.2177. 1894; Lin, Orch. Fl. Taiwan 276, f.121. 2019. *Monochilus affinis* Lindl., Gen. Sp. Orch. Pl. 487. 1840. **Type:** Burma: Taong Dong, *Wallich 7383* (synType K001127266); India: Courtallam, *Wight 1030*. 白花線柱蘭

Zeuxine leucoxila auct. non Schltr.: Lin, Native Orch. Taiwan 2: 20. 1977.

Zeuxine parvifolia auct. non (Ridley) Seidenf.: Lin, Native Orch. Taiwan 3: 289, ph. 1987.

Zeuxine agyokuana Fukuy., Bot. Mag. (Tokyo) 48(571): 433. 1934; Lin, Native Orch. Taiwan 1 (2nd ed.): 202, ph.126. 1976 & Orch. Fl. Taiwan 277, f.122. 2019; Tian *et al.*, Ann. Bot. Fennici 51: 101–105. 2014. *Hetaeria agyokuana* (Fukuy.) C. Nackej., Biol. Mag. (Okinawa) 8: 82. 1971. *Hetaeria cristata* var. *agyokuana* (Fukuy.) S.S. Ying, Coloured Ill. Orch. Taiwan 2: 558. 1990. **Type:** Taiwan: Taihoku, Syo-agyoku-san, prope Urai, Aug. 1933, *N. Fukuyama 4127* not found; Taoyuan, Nachiehshan, 1000–1500 m, Aug. 28, 2010, *T.C. Hsu 3124* (neotype TAI F387687, designated by Tian *et al.* 2014). 綠葉角唇蘭/阿玉線柱蘭

Zeuxine lalashanensis S.S. Ying, New Taxa New Names 6: 531–536. 2023. **Type:** Taiwan: Taoyuan, Fuhsin, Lalashan, 1994 m, Sept. 30, 2023 (holotype, NTUF). **syn. nov.**

Zeuxine boninensis Tuyama, Bot. Mag. (Tokyo) 49: 369. 1935; Yukawa *et al.*, Bull. Natl. Mus. Nat. Sci., ser. B 44(3): 127–134. 2018; Lin, Ill. Native Taiwan. Orch. 253, f.124-1. 2022. **Type:** Japan: Ogasawara Isls., Hahajima Isl., Mt. Sekimon, April 9, 1934, *T. Tuyama s. n.* (TI). 寬葉線柱蘭/黃花線柱蘭

Zeuxine kantoekiensis Tatew. & Masam., Bot. Mag. (Tokyo) 46(552): 772. 1932. **Type:** Taiwan: Kantoeki, Taityusyu, Apr. 9, 1932, *Tatewaki 18663*. *Type* not found.

Zeuxine sakagutii Tuyama, Bot. Mag. (Tokyo) 50: 26, f.19, 20. 1936; Su, Fl. Taiwan 5: 1080, pl.465. 2000; Q.X. Liu *et al.*, Phytotaxa 202(3): 207–213. 2015. **Type:** Ryukyus: Ins. Isigakizima, Aug. 4, 1922, *S. Sakacuti s.n.* (holotype TI).

Zeuxine affinis auct. non Benth. ex Hook. f.: Lin, Native Orch. Taiwan 3: 280 (f.) 1987.



Zeuxine taiwaniana S.S. Ying, Q. J. Chin. For. 20(2): 57. 1987. **Type:** Taiwan: Taitung, Chipen [知本], Apr. 1, 1987, S.S. Ying s.n. (holotype NTUF, photo F00000324 in PoT, fruit only).

Zeuxine uraiensis S.S. Ying, Coloured Ill. Fl. Taiwan 3: 620, f.927. 1988. **Type:** Taiwan: Taipei, Urai [烏來], Apr. 10, 1988, S.S. Ying s.n. (holotype NTUF).

Zeuxine flava auct. non (Wall. ex Lindl.) Benth. ex Hook. f.: Lin, in Manual Taiwan Vasc. Pl. 5: 292. 2001; Lin et al., Taiwania 61(2): 122, 2016; Lin, Orch. Fl. Taiwan, 280, f.124-1, 2019.

Zeuxine boninensis* var. *pingtungensis (T.C. Hsu) T.P. Lin, Ill. Native Taiwan. Orch. 254, f.124-2. 2022. *Zeuxine pingtungensis* T.C. Hsu, Ill. Fl. Taiwan 2: 218. 2016. *Zeuxine flava* var. *pingtungensis* (T.C. Hsu) Lin, Orch. Fl. Taiwan 281, f.124-2. 2019. **Type:** Taiwan: Pingtung, Tahanshan logging trail, Mar. 13, 2013, T.C. Hsu 6338 (holotype TAIF). 屏東線柱蘭

Zeuxine boninensis var. *actinomorpha* T. Yukawa, Bull. Natl. Mus. Nat. Sci., Tokyo, B 44(3): 133. 2018. **Type:** Japan, Ryukyu Isl.: Kagoshima Pref. Amami-oshima Isl., Amami-shi, Sumiyo-cho, Wase, ca. 200 m, Apr. 18, 2018, H. Yamashita 18-1 (holotype TNS).

Zeuxine integrilabella C.S. Leou, Q. J. Exp. For. Natl. Taiwan Univ. 8(4): 1–2, f.1, 2. 1994; Lin, Orch. Fl. Taiwan 285, f.125. 2019; Raskoti & Ale, Taiwania 68(1): 127, f.3D. 2023. *Hetaeria integrilabella* (C.S. Leou) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 5: 604. 1995. **Type:** Nantou: Hoshe, C.S. Leou 5269-1 (holotype Experimental Forest, NTU); Nantou: Mt. Biishyr [筆石山]. C.S. Leou 5139 (paratype). 全唇線柱蘭

Zeuxine nervosa (Wall. ex Lindl.) Benth. ex Trimen, J. Ceylon Br. Roy. Asiatic Soc. 9: 90. 1885; Lin, Native Orch. Taiwan 3: 284, ph.162–165. 1987 & Orch. Fl. Taiwan 285, f.126. 2019. *Monochilus nervosus* Wall. ex Lindl., Gen. Sp. Orch. Pl. 487. 1840. *Hetaeria nervosa* Lindl. ex Wall., Numer. List 7381. 1832 *nom. nud.* **Type:** Bangladesh: Mar. 11, 1809, F. Buchanan-Hamilton s.n., Wall. Numer. List 7381a (lectotype K-LINDL, designated by Seidenfaden in 1978; isolectotype K001127263); Bangladesh, Derwani, March 12, 1809, Buchanan-Hamilton s.n., Wall. Numer. List 7381a (paralectotype CAL); Bangladesh, Sylhet, F. de Silva, Wall. Numer. List 7381b (paralectotypes CAL, K001127264). 芳線柱蘭

Zeuxine formosana Rolfe, Ann. Bot. (Oxford) 9(33): 158. 1895; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 92. 1896. *Adenostylis formosana* (Rolfe) Hayata, Icon. Pl. Formosan. 6(Suppl): 75. 1917. **Types:** Taiwan: S. Cape, 1893–4, coll. by Schmurder, A. Henry 644 (holotype K000942800; isotype NY00009454).

Zeuxine nijimae Tatew. & Masam., Bot. Mag. (Tokyo) 46(552): 772. 1932. **Type:** Taiwan: Taityu, Nogo, Baibara Apr. 5, 1932, Tatewaki 18662. not found.

Zeuxine fluvida Fukuy., Annual Rep. Taihoku Bot. Gard. 3: 81.1933; Masam., J. Geobot. 20(1): 3, pl.175. 1977. **Type:** Taitoo, Riran-shichoo, Onsen, collected by K. Segawa, [Jan. 22, 1932], N. Fukuyama 4112 (holotype KPM-NA0105587, photo T00046 in PoT).

Zeuxine somai Tuyama, Bot. Mag. (Tokyo) 50: 27, f.20, 21. 1936. **Type:** Taiwan: Kaohsiung, Rokuki [六龜], [Sept. 1916], Soma 927 (holotype TI, photo T01215 in PoT).

Zeuxine hengchuanense S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 342. 1977. **Type:** Taiwan: Pingtung, Nanjenshan, Jan. 24, 1976, S.S. Ying s.n. (holotype NTUF, photo F00000198 in PoT).

Zeuxine odorata Fukuy., Bot. Mag. (Tokyo) 50(589): 20. 1936; Lin, Native Orch. Taiwan 3: 287, ph.166–167. 1987 & Orch. Fl. Taiwan 286, f.127. 2019. *Heterozeuxine odorata* (Fukuy.) T. Hashim., Ann. Tsukuba Bot. Gard. 5: 21. 1986. **Type:** Taiwan: insl. Koto-syo, Koto-zan 300 m, collected Aug. 3, 1934 & cult. and flowering Apr. 1935. N. Fukuyama 4808 (holotype KPM-NA0105588 without Fukuyama's no., photo T00047 in PoT; isotype KPM-NA0105589–0105592). 香線柱蘭

Zeuxine philippinensis (Ames) Ames, Schedul. Orch. Corrig. 37. 1938; Ormerod, Taiwania 49(3): 179. 2004; Yeh et al., Taiwania, 50(4): 284–289, f.2, 3. 2005; Lin, Orch. Fl. Taiwan 290, f.128. 2019. *Adenostylis philippinensis* Ames, Schedul. Orch. 6: 9. 1923. **Types:** Philippines: Leyte, Dagami, Puguajaan, 60 m, July 31, 1913, C.A. Wenzel 0224 (holotype AMES 00000084); Leyte, Dagami, 60 m alt., 28 Mar 1913, C.A. Wenzel 0375 (paratype AMES00000083). Taiwan: Lanyu 200 m, Feb. 15, 2005, C.L. Yeh & C.R. Yeh 4021 (PPI). 菲律賓線柱蘭

Zeuxine reflexa King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 291. 1898; S.S. Ying (Col. Ill. Indig. Orch. Taiwan 1: 510. 1977; Kumar et al., Richardiana 13: 283–294, f. 1–2. 2013. **Type:** India: Sikkim, Mungphoo, 3500 ft, April 1895, Pantling 361 [lectotype, CAL (CAL0000000604), designated by Bhattacharjee et al. (Taiwania 56(2): 153-156. 2011); isolectotypes: CAL; BM000076420, K000942793]. 阿里山線柱蘭

Zeuxine arisanensis Hayata, Icon. Pl. Formosan. 4: 106, f.55. 1914; Masam., J. Geobot. 22(2): 7, f.204. 1974; Lin et al., Taiwania 61(2): 122. 2016; Lin, Orch. Fl. Taiwan 280, f.123. 2019. *Adenostylis arisanensis* (Hayata) Hayata, Icon. Pl. Formosan. 4: Add. & Corr. 1915. **Type:** Taiwan: Alisan, Mar. 1911, S. Sasaki s.n. (holotype TI, photo T01214 in PoT).

Zeuxine strateumatica (L.) Schltr. in Engl., Bot. Jahrb. Syst. 45: 394. 1911; Masam., List Vasc. Pl. Taiwan 161. 1954; Liu & Su, Fl. Taiwan 5: 1136. 1978; Lin, Native Orch. Taiwan 3: 291, ph.170. 1987 & Orch. Fl. Taiwan 290, f.129.



2019. *Orchis strateumatica* L., Sp. Pl. 943 1753. *Adenostylis strateumatica* (L.) Ames, Orchidaceae 2: 58. 1908; Sasaki, List Pl. Formosa 120. 1928. **Type:** Sri Lanka, Herb. Hermann 2: 35, no. 319 (lectotype BM-000621635, designated by Cribb in Taxon 48: 49. 1999). 線柱蘭

Zeuxine sulcata (Roxb.) Lindl. ex Wight, Cat. Indian Pl. 123. 1836; Henry, Trans. Asia. Soc. Jpn. 24(Suppl): 92. 1896. *Pterygodium sulcatum* Roxb., Fl. India ed. 2, 3: 452, 1832. *Adenostylis sulcata* (Roxb.) Hayata, Gen. Indig. Fl. Formosan. (Icon. Pl. Formosan. 6(Suppl.)) 75. 1917. **Type:** Bangladesh, *Wallich s.n.* not found. Taiwan: Ape's Hill, *Playfar 64*.

Zeuxine strateumatica* var. *rupicola (Fukuy.) S.S. Ying, Coloured Ill. Indig. Orch. Taiwan 1(2): 512. 1977; *Zeuxine rupicola* Fukuy., Bot. Mag. (Tok581yo) 49(): 292. 1935. *Zeuxine strateumatica* f. *rupicola* (Fukuy.) T. Hashim., Ann. Tsukuba Bot. Gard. 5: 27. 1986. **Type:** Taihoku, inter Chikushiko [竹仔湖] et Shirin [士林], Mar. 1934, *N. Fukuyama 4600* (holotype KPM-NA0105593 without Fukuyama's no.; photo T00048 in PoT). 舌唇線柱蘭

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