Notes RBG Edinb. 40(1):157–203 (1982)

CATALOGUE OF THE NAMES PUBLISHED BY HECTOR LÉVEILLÉ: XIV

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ABSTRACT. The species described by Léveillé belonging to the families Labiatae, Plantaginaceae, Nyctaginaceae, Amaranthaceae, Chenopodiaceae, Phytolaccaceae and Polygonaceae are evaluated. Other species described in, but not belonging to, these families are also included. There are seven new combinations: *Clinopodium umbrosum* (Bieb.) C. Koch var. *shibetchensis* (Lévl.) McKean, *Clinopodium umbrosum* (Bieb.) C. Koch var. *souliei* (Lévl.) McKean, *Fagopyrum leptopodum* (Diels) Hedb. var. *grossii* (Lévl.) Lauener & Ferguson, *Plantago asiatica* L. var. *coreana* (Lévl.) Lauener & Ferguson, *Plectranthus coetsa* [Buch.-Ham. ex] D. Don var. *cavaleriei* (Lévl.) McKean, *Plectranthus lophanthoides* (Buch.-Ham. ex D. Don) Grierson & Long and *Teucrium quadrifarium* Buch.-Ham. var. *kouytchense* (Lévl.) McKean.

INTRODUCTION

This paper follows the same basic format as those previously published and listed below*. However, where previously, details of type specimens cited by Rehder were not repeated in the Catalogue, it has been decided that in this and future remaining parts, all type specimens will be cited to avoid the necessity for reference back to Rehder's work.

Collaborators in this part are my colleague Mr. D. McKean who prepared and wrote the account for Labiatae, and Dr D. K. Ferguson,** Department of Botany, University of Antwerp, who worked with me on Plantaginaceae and Polygonaceae.

LABIATAE
(D. R. McKEAN)

1649. Agastache rugosa (Fisch. & Mey.) O. Kuntze, Rev. Gen. Pl. 2: 511 (1891); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 220 (1929); Doan in Fl. Gén. Indo-Chine 4: 996 (1936); Fl. Reipubl. Pop. Sin. 65(2): 259 (1977).

Lophanthus rugosus Fisch. & Mey., Ind. Sem. Hort. Petrop. 1: 31 (1835); Dunn in Notes R.B.G. Edinb. 8: 160 (1913), 6: 165 (1915) & in Lévl., Fl. Kouy-Tchéou 209 (1914); Lévl. in Mem. Real Acad. Ci. Artes Barcelona, ser. 3, 12: 554 (1916).

Elsholtzia monostachys Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 424 (1910).

Lophanthus rugosus Fisch. & Mey. var. *fragrantissimus* Lévl., Cat. Pl. Yunnan 138 (1916), nom. nud.

CHINA. Kweichow, environs de Kouy-yang, mont. N.D. de Liesse, près de la chapelle, belles fleurs rose-pourpre, tige 0.8–1 m, 8 ix 1898, *Bodinier* 2486

* Part I, *Notes R.B.G. Edinb.* 23: 573-596 (1961); II, 24: 73-78 (1962); III, 26: 333-346 (1966); IV, 27: 1-10 (1966); V, 27: 265-292 (1967); VI, 30: 239-294 (1970); VII, 31: 397-435 (1972); VIII, 32: 93-116 (1972); IX, 34: 327-402 (1976); X, 35: 247-264 (1977); XI, 35: 265-279 (1977); XII, 37: 125-151 (1978); XIII, 38: 453-485 (1980).

** Dr Ferguson's contribution to this paper was supported by grants from Nationaal Fonds voor Wetenschappelijk Onderzoek & Rijksuniversitair Centrum Antwerpen, Belgium.

(syntype *E. monostachys*, E); environs de Ly-po-hien, fleurs roses, 28 vi 1899, *Cavalerie in herb. Bodinier* 2486D — not 2846 as cited by Léveillé (syntype *E. monostachys*, E).

1650. Ajuga ciliata Bge. var. **chanetii** (Lévl. & Van.) C. Y. Wu & C. Chen in Acta Phytotax. Sin. 12: 26 (1974); Fl. Reipubl. Pop. Sin. 65(2): 68 (1977).

A. chaneti Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 258 (1910); Dunn in Notes R.B.G. Edinb. 8: 171 (1913) & 6: 194 (1917), pro syn. sub *A. ciliata* Bge.

A. ciliata Bge. f. *chanetii* (Lévl. & Van.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 285 (1929); Hara in Bot. Mag. Tokyo 51: 53 (1937).

CHINA. Hopei (Tché-Ly), lieux humides et ombragés des montagnes du Kiu Yeng, corolle bleue, parfois blanches, 20 v 1908, *Chanet* 311 (holo. E).

1651. Ajuga decumbens Thunb., Fl. Jap. 243 (1784); Nakai in Bot. Mag. Tokyo 35: 170 (1921) & in Bull. Nat. Sci. Mus. Tokyo no. 31: 98 (1952).

A. devestita Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 259 (1910).

A. fauriei Lévl. & Van. ibid. 8: 259 (1910).

KOREA. In silvis Quelpaert, vi 1907, *Faurie* 1942 (holo. *A. devestita*, E); in agris Quelpaert, vi 1907, *Faurie* 1941 (holo. *A. fauriei*, E).

1652. Ajuga forrestii Diels in Notes R.B.G. Edinb. 5: 242 (1912); Hand.-Mazz., Symb. Sin. 7: 911 (1936); Fl. Reipubl. Pop. Sin. 65(2): 72 (1977).

A. mairei Lévl. in Fedde, Rep. Sp. Nov. 12: 533 (1913); Lévl., Cat. Pl. Yunnan 136 (1916), pro syn. sub *A. macrosperma* Wall.

CHINA. Yunnan, haut plateau de Ié-ma-tchouan, 3200 m, sous bois, labiée vivace, à demi-couchée, fl. bleu sombre, vii 1912, *E. E. Maire* s.n. (holo. *A. mairei*, E).

1653. Ajuga nipponensis Makino var. **pallescens** (Maxim.) C. Y. Wu & C. Chen in Acta Phytotax. Sin. 12: 28 (1974); Fl. Reipubl. Pop. Sin. 65(2): 79 (1977).

A. genevensis L. var. *pallescens* Maxim in Bull. Acad. Sci. St. Petersb. 29: 185 (1883) & in Mél. Biol. Acad. Sci. St. Petersb. 11: 816 (1883).

A. labordei Van. in Bull. Acad. Géog. Bot. 14: 185 (1904); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 282 (1929), pro syn. sub *A. multiflora* Bge.

A. genevensis auct. non L.; Dunn in Notes R.B.G. Edinb. 8: 171 (1913) & 6: 195 (1917).

A. argyi [Lévl. ex] Dunn in Notes R.B.G. Edinb. 6: 195 (1917), nom. nud.

A. decumbens Thunb. var. *pallescens* (Max.) Hand.-Mazz. in Acta Hort. Gotob. 9: 72 (1934).

CHINA. Kweichow, environs de Tsin-gay à Se-tse-chan, 14 xi 1897, *Laborde in herb. Bodinier*, s.n. (holo. *A. labordei*, E).

Léveillé wrote the name *Ajuga argyi* on a d'Argy specimen but never published it. Dunn cited the name only in synonymy under *A. genevensis*.

A. nipponensis s.l. appears to be closely related to *A. decumbens* but the two species are said to differ in whether or not the verticils form a spike and in the more erect habit of *A. nipponensis*. These two Asiatic species are also close to *A. genevensis* which has a more westerly distribution.

1654. Anisomeles indica (L.) O. Kuntze, Rev. Gen. Pl. 2: 512 (1891).
Nepeta indica L., Sp. Pl. 571 (1753).
A. ovata R. Br. in Ait., Hort. Kew ed. 2, 2: 364 (1811).
Lophanthus argyi Lévl. in Fedde, Rep. Sp. Nov. 12: 181 (1913) & in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12: 554 (1916).
CHINA. Kiangsu, Zuo-Se, Sou-Tchéou, *d'Argy* s.n. (holo. *L. argyi*, E).

The holotype consists of the inflorescence of an *Anisomeles* but the two separate leaves, which fit Léveillé's description, belong to the genus *Pueraria*.

1655. Calamintha confinis Hance in Journ. Bot. 6: 331 (1868).
Clinopodium confine (Hance) O. Kuntze, Rev. Gen. Pl. 2: 515 (1891); Hara in Journ. Jap. Bot. 11: 101 (1935) & Enum. Sperm. Jap. 1: 197 (1948).
Calamintha radicans Van. in Bull. Acad. Géog. Bot. 14: 182 (1904), p.p.
Calamintha argyi Lévl. in Fedde, Rep. Sp. Nov. 8: 423 (1910); Dunn in Notes R.B.G. Edinb. 8: 163 (1913), 6: 155 (1915) & in Lévl., Fl. Kouy-Tchèou 211 (1914), pro syn. sub *Mosla lanceolata* (Benth.) Maxim.; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 80 (1929), pro syn. sub *Orthodon lanceolatum* (Benth.) Kudo; Hand.-Mazz. in Acta Hort. Gotob. 9: 87 (1934), pro syn. sub *Calamintha gracilis* Benth.; Li in Acta Phytotax. Sin. 12: 230 (1974), pro syn. sub *Mosla scabra* (Thunb.) C. Y. Wu & H. W. Li; Fl. Reipubl. Pop. Sin. 66: 294 (1977), pro syn. sub *Mosla scabra*.
Calamintha clinopodium Benth. var. *umbrosa* (Benth.) Dunn f. *argyi* (Lévl.) Lévl. in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12: 553 (1916).
CHINA. Kweichow, cascade de Hoang Ko chou, grimpant sur les rochers de la grotte, fleurs blanc-rougeâtre, 1 vi 1898, *Seguin in herb. Bodinier* s.n. (syntype *C. radicans*, E). Kiangsu, *d'Argy* s.n. (holo. *C. argyi*, E).

The other syntype of *Calamintha radicans* Van. belongs to *C. gracilis*.

Léveillé named some unnumbered d'Argy specimens of *Mosla* as *Calamintha argyi* and Dunn unfortunately mistook these specimens as being the types of *Calamintha argyi*. Other authors followed suit. Dunn did, however, see the true type of *C. argyi* which he named *Calamintha* aff. *gracilis*.

Some authors have regarded *C. confinis* as a synonym of *C. gracilis* but the leaves of the former are often twice as large as those of the latter. Hance stated that *C. confinis* was intermediate between *C. gracilis* and *C.* [*Clinopodium*] *umbrosa*. In size and shape the leaves of *C. confinis* closely resemble *C. umbrosa* but like *C. gracilis*, and unlike *C. umbrosa*, it is ± glabrous.

This and the following species of *Calamintha* are sometimes treated under the genus *Clinopodium*. The genus *Satureja* sensu Briquet is at present under revision at Edinburgh by Anton Doroszenko and I am grateful to him for his help in the treatment of *Calamintha* and *Clinopodium* as presented here.

1656. Calamintha gracilis Benth. in DC., Prodr. 12: 232 (1848); Dunn in Notes R.B.G. Edinb. 8: 164 (1913) & 6: 158 (1915); Doan in Fl. Gén. Indo-Chine 4: 989 (1936).
Clinopodium gracile (Benth.) O. Kuntze, Rev. Gen. Pl. 2: 514 (1891); Li in Acta Phytotax. Sin. 12: 222 (1974); Fl. Reipubl. Pop. Sin. 66: 235 (1977).
Calamintha radicans Van. in Bull. Acad. Géog. Bot. 14: 182 (1904), p.p.
HONG KONG. Pic Victoria, rare, non signalée dans l'île, 24 iv 1895, *Bodinier* 1131 (syntype *C. radicans*, E).

1657. Calamintha ussuriensis Regel & Maack in Mém. Acad. Imp. Sci. St. Pétersb. ser. 7, 4(4): 116, t. 9, f. 10–12 (1861).

Calamintha multicaule Maxim. in Bull. Acad. Sci. St. Pétersb. 20: 466 (1875).

Calamintha fauriei Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 259 (1910).

Calamintha taquetii Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 423 (1911) p.p. excl. *Taquet* 1240; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 79 (1929), pro syn. sub *Orthodon grosseserratum* (Maxim.) Kudo.

Satureia multicaulis (Maxim.) Nakai var. *fauriei* (Lévl. & Van.) Nakai in Bot. Mag. Tokyo 35: 194 (1921).

S. ussuriensis (Regel & Maack) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 101 (1929).

S. confinis (Hance) Kudo var. *fauriei* (Lévl. & Van.) Nakai in Bot. Mag. Tokyo 45: 133 (1931), in nota.

Calamintha multicaule Maxim. var. *taquetii* (Lévl. & Van.) Hara in Journ. Jap. Bot. 11: 104 (1935).

Clinopodium fauriei (Lévl. & Van.) Hara in Journ. Jap. Bot. 11: 106 (1935) & in Bot. Mag. Tokyo 51: 87 (1937).

Clinopodium micranthum (Regel) Hara var. *fauriei* (Lévl. & Van.) Hara in Journ. Jap. Bot. 16: 157 (1940).

Satureia fauriei (Lévl. & Van.) Nakai in Bull. Nat. Sci. Mus. Tokyo no. 31: 99 (1952).

S. multicaulis (Maxim.) Nakai var. *taquetii* (Lévl. & Van.) Nakai, loc. cit.

Clinopodium gracile (Benth.) O. Kuntze var. *multicaule* (Maxim.) Ohwi, Fl. Jap. (rev. ed.) 1438 (1965) & Fl. Jap. (Engl. ed.) 782 (1965).

KOREA. In herbidis Quelpaert, x 1906, *Faurie* 810 (holo. *Calamintha fauriei*, E); Quelpaert in herbidis Hallaisan, 1200 m, ix 1908, *Taquet* 1254 (syntype *Calamintha taquetii*, E); Quelpaert in sylvis, vii 1908, *Taquet* 1255 (syntype *C. taquetii*, E); Quelpaert in sylvis Hallaisan, viii 1909, *Taquet* 3093 (syntype *C. taquetii*, E).

The fourth syntype of *C. taquetii*, *Taquet* 1240, is *Mosla dianthera* (Buch.-Ham. ex Roxb.) Maxim. var. *nana* (Hara) Ohwi.

1658. Clinopodium umbrosum (Bieb.) C. Koch in Linnaea 21: 673 (1848), s.l.

Melissa umbrosa Bieb., Fl. Taur. Cauc. 2: 63 (1808).

Calamintha umbrosa (Bieb.) Benth. in DC., Prodr. 12: 232 (1848).

Calamintha polycephala Van. in Bull. Acad. Géog. Bot. 14: 183 (1904); Dunn in Notes R.B.G. Edinb. 8: 164 (1913), pro syn. sub *Calamintha clinopodium* Benth.; Doan in Fl. Gén. Indo-Chine 4: 991 (1936), pro syn. sub *C. clinopodium*; Hand.-Mazz. in Acta Hort. Gotob. 9: 84 (1934).

Calamintha tsacapanensis Lévl. in Fedde, Rep. Sp. Nov. 8: 423 (1910); Dunn in Notes R.B.G. Edinb. 8: 164 (1913), pro syn. sub *C. clinopodium*; Doan in Fl. Gén. Indo-Chine 4: 991 (1936), pro syn. sub *C. clinopodium*.

Calamintha clinopodium Benth. var. *polycephala* (Van.) Dunn in Lévl., Fl. Kouy-Tchéou 206 (1914) & in Notes R.B.G. Edinb. 6: 160 (1915); Lévl., Cat. Pl. Yunnan 136 (1916).

Calamintha clinopodium Benth. var. *umbrosa* (Bieb.) Dunn in Notes RBG Edinb. 6: 159 (1915); Lévl. in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12: 553 (1916).

Satureia chinensis Briq. var. *parviflora* Kudo in Journ. Coll. Sci. Imp. Univ. Tokyo 43(8): 38 (1921) & in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 103 (1929).

S. polycephala (Van.) Steward in Journ. Arn. Arb. 35: 86 (1954).

Clinopodium polycephalum (Van.) C. Y. Wu & Hsuan ex Hsu in Obs. Fl. Huanghshan. 169 (1965); Li in Acta Phytotax. Sin. 12: 216 (1974); Fl. Reipubl. Pop. Sin. 66: 223 (1977).

CHINA. Kweichow, environs de Gan-pin, dans les haies, petites fl. pourprées-rosées, 20 ix 1897, *Martin in herb. Bodinier* 1941 (holo. *Calamintha polycephala*, E). Kiangsu, Tsacapan, 15 vi, *d'Argy* s.n. (holo. *Calamintha tsacapanensis*, E).

Calamintha polycephala and *C. tsacapanensis* have been placed by various authors in synonymy under several different species. However, I believe that all of these species could be encompassed by *Clinopodiura umbrosum* s.l. which in turn is possibly only a variety of *Clinopodium vulgare*. Dunn (1913) and Doan (1936), therefore, possibly had the most acceptable classification when they treated the *'umbrosum'* complex as *Calamintha clinopodium* s.l. (*Clinopodium vulgare*).

1659. Clinopodium umbrosum (Bieb.) C. Koch var. **shibetchensis** (Lévl.) McKean, **comb. nov.**

Calamintha umbrosa (Bieb.) Benth. var. *shibetchense* Lévl. in Fedde, Rep. Sp. Nov. 9: 322 (1911).

Clinopodium chinense (Benth.) O. Kuntze var. *shibetchense* (Lévl.) Koidz. in Bot. Mag. Tokyo 43: 387 (1929); Ohwi in Fl. Jap. (Engl. ed.) 782 (1965).

Clinopodium chinense (Benth.) O. Kuntze ssp. *grandiflorum* (Maxim.) Hara var. *shibetchense* (Koidz.) Hara in Journ. Jap. Bot. 12: 43 (1936) & Enum. Sperm. Jap. 1: 197 (1948).

JAPAN. Forêt de Schibetcha, 21 ix 1899, *Faurie* 4911 (holo. var. *shibetchensis* — n.v.).

1660. Clinopodium umbrosum (Bieb.) C. Koch var. **souliei** (Lévl.) McKean, **comb. nov.**

Calamintha chinensis Benth. var. *souliei* Lévl. in Fedde, Rep. Sp. Nov. 9: 246 (1911).

Calamintha chinensis Benth. var. *megalantha* Diels in Notes R.B.G. Edinb. 5: 233 (1912).

Calamintha clinopodium Benth. var. *megalantha* (Diels) Dunn in Notes R.B.G. Edinb. 6: 159 (1915).

Calamintha megalantha (Diels) Hand.-Mazz. in Acta Hort. Gotob. 9: 84 (1934).

Clinopodium megalantha (Diels) C. Y. Wu & Hsuan ex H. W. Li in Acta Phytotax. Sin. 12: 220 (1974); Fl. Reipubl. Pop. Sin. 66: 230 (1977).

CHINA. Szechuan (Thibet oriental), Ta-Tsien-Lou, 1893, *Soulié* 1063 (holo. *C. chinensis* var. *souliei*, E).

A broad view of this taxon has been taken and var. *megalantha* is regarded as synonymous with var. *souliei*. The size of the flowers of var. *souliei* (12–15 mm) matches those of *C. vulgare* more closely than those of *C. umbrosum*, but in the bracts being much shorter than the calyx and in the coarsely toothed acuminate leaves, var. *souliei* more closely resembles *C. umbrosum*.

1661. Clinopodium urticifolium (Hance) C. Y. Wu & Hsuan ex H. W. Li in Acta Phytotax Sin. 12: 219 (1974); Fl. Reipubl. Pop. Sin. 66: 229 (1977).

Calamintha clinopodium Benth. var. *urticifolia* Hance in Ann. Sci. Nat. sér. 5,5: 235 (1866).

Calamintha coreana Lévl. in Fedde, Rep. Sp. Nov. 9: 246 (1911); Nakai in Bot. Mag. Tokyo 35: 193 (1921), pro syn. sub *Satureia chinensis* (Benth.) Briq.; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 102 (1929), pro syn. sub *Satureia chinensis*; Hara in Journ. Jap. Bot. 12: 39 (1936) pro syn. sub *Clinopodium chinense* (Benth.) O. Kuntze subsp. *grandiflorum* (Maxim.) Hara var. *grandiflorum*.

Satureia coreana (Lévl.) Nakai in Bull. Nat. Sci. Mus. Tokyo no. 31: 99 (1952).

KOREA. Quelpaert, Hoatien, viii 1909, *Taquet* 3096 (holo. *Calamintha coreana*, E).

It is possible that *Clinopodium urticifolium* and *C. chinensis* ssp. *glabrescens* (Nakai) Hara, both described from Korea, are synonymous, and should be treated as a variation of *C. umbrosum*. However, since the writer has not seen the relevant types a new combination has not been made.

Calamintha coreana differs from *Clinopodium umbrosum* in being almost glabrous, more branched and in having a less compact inflorescence. Specimens like this are not confined to Korea and can be found westwards to Yunnan and beyond.

1662. Coleus esquirolii (Lévl.) Dunn in Notes R.B.G. Edinb. 8: 158 (1913), 6: 144 (1915) & in Lévl., Fl. Kouy-Tchéou 206 (1914); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 144 (1929); Fl. Reipubl. Pop. Sin. 66: 540 (1977).

Calamintha esquirolii Lévl. in Fedde, Rep. Sp. Nov. 8: 450 (1910).

CHINA. Kweichow, Shin-gny-hien, chemin pierreux de Sy-Koua-Tong, très belle couleur, violet foncé, xi 1906, *Esquirol* 1058 (holo. E).

Coleus is now often regarded as synonymous with *Plectranthus* but a new combination has not been made here as there are other Chinese species still remaining under *Coleus* which might require transfer to *Plectranthus* s.l.

1663. Colquhounia seguinii Van. in Bull. Acad. Géog. Bot. 14: 165 (1904); Doan in Fl. Gén. Indo-Chine 4: 1009 (1936), pro syn. sub *C. elegans* Wall.; Rehder in Journ. Arn. Arb. 16: 311 (1935); C. Y. Wu in Acta Phytotax. Sin. 8: 41 (1959); Fl. Reipubl. Pop. Sin. 66: 35 (1977); Lauener in Notes R.B.G. Edinb. 38: 483 (1980).

C. elegans Wall. var. *pauciflora* Prain in Journ. As. Soc. Bengal 62: 38 (1893); Dunn in Notes R.B.G. Edinb. 8: 167 (1913), pro syn. sub *C. elegans*, 6: 179 (1915) & in Lévl., Fl. Kouy-Tchéou 206 (1914).

Caryopteris fluminis Lévl., Sert. Yunnan 3 (1913) & Cat. Pl. Yunnan 298 (1917); P'ei in Mem. Soc. Sci. China 1(3): 180 (1932).

CHINA. Kweichow, environs de Ou-la-gay (Tchen-lin), longues tiges sous-ligneuses, lianeuses; item, environs de Hoang Ko chou, fleurs rouges-lilac (L. Martin, 10 ii 1899), iii 1898, *Seguin in herb. Bodinier* 2237 (syntype *C. seguinii*, E); environs de My tsao, longues tiges s'enlaçent aux arbres et buissons, fleurs coccinées, 4 iii 1897, *Ducloux* 110 (syntype *C. seguinii*, E). Yunnan, rives du fleuve Bleu, 450 m, petit arbuste, feuilles persistant., fleurs roses, vi 1912, *E. E. Maire* s.n. (holo. *Caryopteris fluminis*, E).

1664. Dysophylla linearis Benth. in DC., Prodr. 12: 157 (1848); Dunn in Notes R.B.G. Edinb. 8: 160 (1913), 6: 147 (1915) & Fl. Kouy-Tchéou 207 (1914); Fl. Reipubl. Pop. Sin. 66: 387 (1977); Murata in Tonan Ajia Kenkyu 8: 496 (1971).

D. martini Van. in Bull. Acad. Géog. Bot. 14: 178 (1904).

CHINA. Kweichow, environs de Tsin tchen, herbages marécageux au bord d'un ruisseau, fleurs pourpres, peu commun, 13 ix 1897, *Martin in herb. Bodinier* 1946 (holo. *D. martini*, E).

1665. Dysophylla stellata (Lour.) Benth. in Wall., Pl. Asiat. Rar. 1: 30 (1830); Li in Acta Phytotax. Sin. 13: 76 (1975); Fl. Reipubl. Pop. Sin. 66: 382 (1977).

Mentha stellata Lour., Fl. Cochinch. 361 (1790) — non *M. stellata* [Buch.-Ham. ex] Roxb.

Dysophylla verticillata (Roxb.) Benth. in Wall., Pl. Asiat. Rar. 1: 30 (1830); Dunn in Notes R.B.G. Edinb. 8: 160 (1913) & 6: 147 (1915); Doan in Lecomte, Fl. Gén. Indo-Chine 4: 965 (1936); Murata in Tonan Ajia Kenkyu 8: 496 (1971).

D. japonica Miq., Ann. Mus. Bot. Lugd.-Bat. 2: 102 (1865); Nakai in Bot. Mag. Tokyo 35: 171 (1921) & in Bull. Nat. Sci. Mus. Tokyo no. 31: 98 (1952).

D. fauriei Lévl. in Fedde, Rep. Sp. Nov. 9: 248 (1911).

D. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 10: 476 (1912).

KOREA. Quelpaert, in orizetis, x 1906, *Faurie* 760 (holo. *D. fauriei*, E).

CHINA. Kweichow, Ten-chang, rizières, ix 1904, *Esquirol* 155 (holo. *D. esquirolii*, E).

The genus *Elsholtzia* is currently under review by J. R. Press (BM) and I am grateful to him for allowing me to follow his evaluation of the Léveillé species, and for his comments on *E. bodinieri*.

1666. Elsholtzia bodinieri Van. in Bull. Acad. Géog. Bot. 14: 176 (1904); Dunn in Notes R.B.G. Edinb. 6: 153 (1915); Lévl., Cat. Pl. Yunnan 137 (1916); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 66 (1929), pro syn. sub *E. heterophylla* Diels; Hand.-Mazz. in Acta Hort. Gotob. 9: 92 (1934), 13: 355 (1939), in clavi, & Symb. Sin. 7: 935 (1936).

CHINA. Yunnan, environs de Yunnan-sen, dans la mont., fleurs rose-pourpre, 2 xii 1896, *Bodinier* 2547 (holo. *E. bodinieri*, E).

This species is very close to *E. heterophylla* and may at most be a subspecies or variety of it. *E. bodinieri* is a shorter plant with smaller flowers and has a tendency to be prostrate and branching more freely than *E. heterophylla*.

1667. Elsholtzia ciliata (Thunb.) Hylander in Bot. Notiser 1941: 129 (1941), s.l.

Sideritis ciliata Thunb., Fl. Jap. 245 (1784).

E. cristata Willd. in Röm. & Ust., Mag. Bot. 4(11): 5, t. 1 (1790) — non Necker (1790); Dunn in Notes R.B.G. Edinb. 8: 160 (1913), 6: 151 (1915) & in Lévl., Fl. Kouy-Tchéou 208 (1914); Lévl. in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12: 554 (1916); Doan in Fl. Gén. Indo-Chine 4: 977 (1936).

E. patrinii (Lepech.) Garcke, Fl. Halle 2: 213 (1856); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 66 (1929); Hand.-Mazz., Symb. Sin. 7: 935 (1936).

E. pseudo-cristata Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 424 (1910); Hand.-Mazz. in Acta Hort. Gotob. 13: 358 (1939); Kitagawa in Journ. Jap. Bot. 34: 3 (1959).

E. argyi Lévl. in Fedde, Rep. Sp. Nov. 8: 425 (1910); Hand.-Mazz. in Acta Hort. Gotob. 13: 359 (1939); Fl. Reipubl. Pop. Sin. 66: 343 (1977).

E. feddei Lévl. in Fedde, Rep. Sp. Nov. 9: 218 (1911); Hand.-Mazz. in Acta Hort. Gotob. 13: 359 (1939); Fl. Reipubl. Pop. Sin. 66: 344 (1977).

E. souliei Lévl. in Fedde, Rep. Sp. Nov. 9: 218 (March 1911) — non April 1911; Fl. Reipubl. Pop. Sin. 66: 344 (1977).

E. cristata Willd. var. *ramosa* Nakai in Bot. Mag. Tokyo 35: 172 (1921).

E. oldhamii Hemsl. var. *argyi* (Lévl.) Migo in Bot. Mag. Tokyo 56: 298 (1942); Hara, Enum. Sperm. Jap. 1: 203 (1948).

E. ciliata (Thunb.) Hylander var. *ramosa* (Nakai) C. Y. Wu & H. W. Li in Acta Phytotax. Sin. 13(1): 75 (1975); Fl. Reipubl. Pop. Sin. 66: 348 (1977).

KOREA. Quelpaert: in herbidis, x 1906, *Faurie* 801; in pagis, 1 xi 1907, *Taquet* 249; in herbidis Hongno, fleur bleue, 6 x 1908, *Taquet* 1222; in sylvis Hallaisan, 1000 m, fleur bleu teindre, 20 x 1908, *Taquet* 1223; in sylvis Hallaisan, 1000 m, fleur bleu foncé, 20 x 1908, *Taquet* 1224; secus vias Hongno, fleur blanche (rare), 2 x 1908, *Taquet* 1225 (syntypes *E. pseudo-cristata*, E).

CHINA. Kiangsu, *d'Argy* s.n. (syntype *E. argyi*, E); Kweichow, Pin-fa, fleurs rose-rouge, odor., 14 x 1902, *Cavalerie* 624 (syntype *E. argyi*, E). Szechuan (Thibet oriental), Tongolo, principauté de Kiala, 1893, *Soulié* 227 (type *E. feddei*, E), *Soulié* 226 (type *E. souliei*, E).

1668. Elsholtzia communis (Coll. & Hemsl.) Diels in Notes R.B.G. Edinb. 7: 47 (1912); Dunn, ibid. 8: 160 (1913) & 6: 150 (1915); Doan in Fl. Gén. Indo-Chine 4: 979 (1936).

Dysophylla communis Coll. & Hemsl. in Journ. Linn. Soc. (Bot.) 28: 114 (1890).

E. alopecuroides Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 424 (1910); Dunn in Lévl., Fl. Kouy-Tchéou 207 (1914); C. Y. Wu & S. C. Huang in Acta Phytotax. Sin. 12: 343 (1974) & Fl. Reipubl. Pop. Sin. 66: 328 (1977), pro syn. sub *E. cypriani* (Pavol.) S. Chow ex Hsu.

E. communis (Coll. & Hemsl.) Diels var. *alopecuroidea* Lévl., Cat. Pl. Yunnan 137 (1916), nom. nud.

CHINA. Kweichow, Pin-fa, très parfumée, fleur roses, cultures, 27 x 1903, *Cavalerie* 1426 (holo. *E. alopecuroides*, E).

1669. Elsholtzia densa Benth. var. **ianthina** (Maxim. ex Kanitz) C. Y. Wu & S. C. Huang in Acta Phytotax. Sin. 12: 344 (1974); Fl. Reipubl. Pop. Sin. 66: 334 (1977).

Dysophylla ianthina [Maxim. ex] Kanitz, Növényt. Gyiitesek Gróf Szechenyi 46 (1891).

Pogostemon janthinum [Maxim. ex] Kanitz in Magy. Tudom. Akad. Ertek. A Természettud. Köréből 15(2): 11 (1885) & Növényt. Gyiitesek Gróf Szechenyi 46 (1891), nom. nud.; Lévl. in Fedde, Rep. Sp. Nov. 9: 219 (1911).

Elsholtzia ianthina (Maxim. ex Kanitz) Dunn in Notes R.B.G. Edinb. 6: 152 (1915).

No Léveillé type is involved but I have seen one of the specimens cited by Léveillé, *Soulié* 375 (E), which is *E. densa* var. *ianthina*.

The material is scanty but it may well be that var. *ianthina* does not merit separation from var. *densa*.

Léveillé's description merely validated Kanitz's name.

1670. Elsholtzia fruticosa (D. Don) Rehder in Sarg., Pl. Wils. 3: 381 (1916) & in Journ. Arn. Arb. 16: 312 (1935); Fl. Reipubl. Pop. Sin. 66: 310 (1977); Lauener in Notes R.B.G. Edinb. 38: 454 (1980).

Perilla fruticosa D. Don, Prodr. Fl. Nepal 115 (1825).

E. polystachya Benth., Labiat. Gen. & Sp. 161 (1832); Dunn in Notes R.B.G. Edinb. 8: 161 (1913), 6: 150 (1915) & in Lévl., Fl. Kouy-Tchéou 208 (1914).

E. tristis Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 425 (1910).

E. souliei Lévl. in Fedde, Rep. Sp. Nov. 9: 248 (April — non March 1911).

E. dielsii Lévl. in Fedde, Rep. Sp. Nov. 9: 441 (August 1911).

Buddleia plectranthoidea Lévl., Cat. Pl. Yunnan 171 (1916).

Aphanochilus fruticosus (D. Don) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 61 (1929).

Leucosceptrum plectranthoideum (Lévl.) Marquand in Kew Bull. 1930: 207 (1930); Rehder in Journ. Arn. Arb. 16: 311 (1935); Kitamura & Murata in Acta Phytotax. Geobot. 20: 167 (1962).

CHINA. Kweichow, environs de Kouy-Yang, mont du Collège, 1 m, fleurs blanches, 3 xi 1897, *Bodinier* 1944 (holo. *E. tristis*, E). Szechuan, Thibet orientale, Ta-Tsien-Lou (principauté de Kiala), 1893, *Soulié* 781, 1023, (syntypes *E. dielsii* & *E. souliei* (April non March 1911), E). Yunnan, pâturages des mont. à Pe-long-tsin, 3200 m, arbuste buissonant 0.50 m, feuill. et tiges velues, grises, blanchâtres endessous, fl. blanches, xi 1912. *E. E. Maire* s.n. (holo. *Buddleia plectranthoidea*, E).

Buddleia plectranthoidea was first identified by J.R. Press (BM) (personal communication) as a very hairy form of *E. fruticosa*.

1671. Elsholtzia heterophylla Diels in Notes R.B.G. Edinb. 5: 231 (1912); Rehder in Journ. Arn. Arb. 18: 244 (1937).

Pogostemon lavandulaespica Lévl. in Fedde, Rep. Sp. Nov. 13: 344 (1914).

E. lavandulaespica (Lévl.) Lévl. in Bull. Acad. Géog. Bot. 25: 25 (1915).

E. bodinieri Van. var. *lavandulispica* Lévl., Cat. Pl. Yunnan 137, t. 28 (1916). No basionym or specimen cited.

CHINA. Yunnan, plaine stagnante de Lou-pou, 3000 m, labiée menthacée, annuelle, fleur roses, x 1913, *E. E. Maire* s.n. (holo. *P. lavandulaespica*, E).

1672. Elsholtzia kachinensis Prain in Journ. As. Soc. Bengal 73: 206 (1904).

Mentha malinvaldi Lévl. & Van. in Fedde, Rep. Sp. Nov. 3: 21 (1906); Dunn in Lévl., Fl. Kouy-Tchéou 210 (1914) & in Notes R.B.G. Edinb. 6: 156 (1915); Lévl., Cat. Pl. Yunnan 139, f. 29 (1916), pro syn. sub *M. sinomalinvaudi*, nom. nud.; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 89 (1929), pro syn. sub *Mentha daurica* Fischer.

CHINA. Kweichow, Tin-fan, près ruisseau, fleurs roses, x 1904, *Cavalerie* 1933 (holo. *M. malinvaldi*, E).

1673. Elsholtzia ochroleuca Dunn in Notes R.B.G. Edinb. 8: 161 (1913); Rehder in Journ. Arn. Arb. 16: 313 (1935); Hand.-Mazz. in Acta Hort. Gotob. 13: 356 (1939); Fl. Reipubl. Pop. Sin. 66: 316 (1977).

E. lampradena Lévl. in Bull. Acad. Géog. Bot. 25: 25 (1915); Cat. Pl. Yunnan 137 (1916).

Aphanochilus fruticosus (D. Don) Kudo var. *ochroleuca* (Dunn) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 62 (1929).

CHINA. Yunnan, pâturages des collines à Tong-tchouan, 2600 m, arbrisseau rameux, 0.40 m, fleurs blanches en épis dressés, ix 1912, *E. E. Maire* s.n. (holo. *E. lampradena*, E).

1674. Elsholtzia pilosa (Benth.) Benth., Labiat. Gen. & Sp. 163 (1833); Dunn in Notes R.B.G. Edinb. 6: 150 (1915); Lévl., Cat. Pl. Yunnan 138 (1916); Doan in Fl. Gén. Indo-Chine 4: 979 (1936); Fl. Reipubl. Pop. Sin. 66: 323 (1977).

Aphanochilus pilosus Benth. in Wall. Pl. Asiat. Rar. 1: 30 (1830); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 60 (1929).

Dysophylla mairei Lévl. in Bull. Acad. Géog. Bot. 22: 236 (1912).

CHINA. Yunnan, plaine de Tong-tchouan, 2500 m, terres cultivées, labiée menthacée, annuelle, fleurs blanches, petites, ix 1911, *E. E. Maire* s.n. (holo. *D. mairei*, E).

1675. Elsholtzia rugulosa Hemsl. in Journ. Linn. Soc. 26: 278 (1890); Dunn in Notes R.B.G. Edinb. 8: 160 (1913), 6: 149 (1915) & in Lévl., Fl. Kouy-Tchéou 208 (1914); Rehder in Journ. Arn. Arb. 16: 312 (1935); Hand.-Mazz. in Acta Hort. Gotob. 13: 356 (1939); Fl. Reipubl. Pop. Sin. 66: 308 (1977).

E. labordei Van. in Bull. Acad. Géog. Bot. 14: 177 (1904).

E. mairei Lévl. in Bull. Acad. Géog. Bot. 25: 24 (1915).

Aphanochilus rugulosus (Hemsl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 60 (1929).

CHINA. Yunnan, pâturages des mont. calcaires, arides, derrière Tong-tchouan, plante vivace, sous-ligneuses, dressée, fl. blanches en épis, 2600 m, ix 1912, *E. E. Maire* s.n. (syntype *E. mairei*, E); pâturages des mont. à Lou-pou, 3000 m, plante sous-ligneuse en touffe, fleur blanches, vi 1912, *E. E. Maire* (syntype *E. mairei*, E). Kweichow, environs de Tsin-gay à Tchao se, abonde dans la mont. et bord des routes, fleurs bleu, très pâle, 7 ix 1899, *Laborde in herb. Bodinier* 2711 (holo. *E. labordei*, E).

1676. Hanceola cavaleriei (Lévl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 55 (1929); C. Y. Wu in Acta Phytotax. Sin. 8: 59 (1959); Fl. Reipubl. Pop. Sin. 66: 402 (1977).

Hancea cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 9: 224 (1911); Dunn in Lévl., Fl. Kouy-Tchéou 208 (1914) & in Notes R.B.G. Edinb. 6: 153 (1915); Lévl., Cat. Pl. Yunnan 138 (1916).

CHINA. Kweichow, Pin-fa, fl. viol., 16 ix 1902, *Cavalerie* 488 (holo. E).

The material is quite poor but mature calyces indicate that this species may be a *Plectranthus*.

1677. Hanceola labordei (Lévl.) Y. Z. Sun ex H. W. Li in Fl. Reipubl. Pop. Sin. 66: 404 (1977).

Hancea labordei Lévl. in Fedde, Rep. Sp. Nov. 12: 22 (1913); Dunn in Lévl., Fl. Kouy-Tchéou 208 (1914).

CHINA. Kweichow, Mont. de Kao po (Tsin-gay), rocailles à l'entrée d'une grotte, belles fleurs roses, 11 ix 1899, *Laborde in herb. Bodinier* 2728 (holo. E).

1678. Hanceola mairei (Lévl.) Y. Z. Sun ex H. W. Li in Fl. Reipubl. Pop. Sin. 66: 404 (1977).

Hancea mairei Lévl. in Fedde, Rep. Sp. Nov. 11: 297 (1912).

CHINA. Yunnan, sous bois à mi-côte de Long-Ky, 750 m, scrofulariée vivace, fl. bleues, vii 1912, *E. E. Maire* s.n. (holo. E).

The specimen is insufficient for definite identification but it bears a close resemblance to *Plectranthus macranthus* Hook. f. and may belong to that species.

1679. Lamium tuberiferum (Makino) Ohwi in Journ. Jap. Bot. 12: 327 (1936).

Leonurus tuberiferus Makino in Bot. Mag. Tokyo 19: 146 (1905).

Nepeta ferriei Lévl. in Fedde, Rep. Sp. Nov. 9: 245 (1911).

Matsumurella tuberifera (Makino) Makino in Bot. Mag. Tokyo 29: 279 (1915).

Lamium chinense Benth. var. *tuberiferum* (Makino) Murata in Acta Phytotax. Geobot. 15: 176 (1954); Ohwi, Fl. Jap. (Engl. ed.) 776 (1965).

Galeobdolon tuberiferum (Makino) C. Y. Wu in Acta Phytotax. Sin. 10: 158 (1965); Fl. Reipubl. Pop. Sin. 65(2): 495 (1977).

JAPAN. Ryukyu, île Amanie-Oshima, iii-iv 1897, *Jh. B. Ferrié* s.n. (syntype *N. ferriei*, E).

In the protologue Léveillé cited *Ferrié* nos. 46, 85 & 111. Although the Edinburgh specimen is unnumbered it is almost certainly a syntype.

For the purposes of this paper I am treating *Lamium* in the broad sense, i.e. including sect. *Galeobdolon* of Bentham. The *Fl. Reipubl. Pop. Sin.* includes five species under the genus *Galeobdolon*, which is illegitimate the correct generic name being *Lamiastrum* [Heister ex] Fabr., *Enum. Meth. Pl. Hort. Med. Helmstad.* 51(1759) (see Polatschek in *Oesterr. Bot. Zeitschr.* 113: 108, 1966, and Wegmüller in *Watsonia* 8: 277-288, 1971). However, it is not proposed to transfer these species to *Lamiastrum* here.

There is no doubt that the broad lateral lobes of the lower lip of the corolla in *Lamium chinense* and *Lamium tuberiferum* clearly relate these species to *Galeobdolon*, and sect. *Matsumurella* (Mak.) C. Y. Wu & Hsuan was created to include the Chinese species, with *G. tuberiferum* as the type.

The *Flora of Japan* treats *L. tuberiferum* at varietal rank under *L. chinense* but there are sufficient differences to maintain it at specific rank. Compared to *L. chinense*, *L. tuberiferum* is much less vigorous in habit and growth and the leaves and petioles thinner and more slender. Although the calyces of *L. chinense* and *L. tuberiferum* both narrow abruptly into a tube, those of the latter species are clearly pedicellate.

1680. Leucas ciliata Benth. in Wall., Pl. Asiat. Rar. 1: 6 (1830); Dunn in Lévl., Fl. Kouy-Tchéou 209 (1914).

Phlomis esquirolii Lévl. in Fedde, Rep. Sp. Nov. 8: 425 (1910).

CHINA. Kweichow, steppes de Mou chang, x 1905, *Esquirol* 573 (syntype *P. esquirolii*, E); sine loc., *Esquirol* 703 (syntype *P. esquirolii*, E).

The two syntypes were cited in the *Flore du Kouy-Tchéou* but without any reference to *Phlomis esquirolii*.

1681. Lycopus ramosissimus (Makino) Makino in Journ. Jap. Bot. 1(4): 14 (1917), s.l.

L. maackianus (Maxim.) Kom. var. *ramosissimus* Makino in Bot. Mag. Tokyo 12: 117 (1898).

L. coreanus Lévl. in Fedde, Rep. Sp. Nov. 8: 423 (1910), p.p. excl. *Taquet* 1494; Nakai in Bot. Mag. Tokyo 35: 176 (1921), p.p.; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 85 (1929), p.p.; Hara in Bot. Mag. Tokyo 51: 89 (1937); Nakai in Bull. Nat. Sci. Mus. Tokyo no 31: 99 (1952); Henderson in Amer. Mid. Nat. 68: 136 (1962); Fl. Reipubl. Pop. Sin. 66: 281 (1977).

L. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 8: 423 (1910); Dunn in Notes R.B.G. Edinb. 8: 163 (1913), 6: 157 (1915) pro syn. sub *L. europaeus* L. & in Lévl., Fl. Kouy-Tchéou 209 (1914), p.p. pro syn. sub *L. europaeus*; Henderson in Amer. Mid. Nat. 68: 136 (1962).

L. europaeus L. var. *sinensis* Lévl. in Fedde, Rep. Sp. Nov. 8: 423 (1910).

L. coreanus Lévl. var. *cavaleriei* (Lévl.) C. Y. Wu & H. W. Li in Fl. Reipubl. Pop. Sin. 66: 282 (1977).

KOREA. Quelpaert in orizetus Hongno, viii 1909, *Taquet* 3104 (syntype *L. coreanus*, E).

CHINA. Kweichow, Touangué, 10 viii 1905, *Cavalerie* 2480 (holo. *L. cavaleriei*, E); Kweichow, Pin-fa, 9 vii 1902, *Cavalerie* 428 (holo. *L. europaeus* var. *sinensis*, E).

Lycopus coreanus was based on two specimens, *Taquet* 1494 and 3104, which belong to different species: *T.* 1494, in which the calyx teeth are clearly spine-tipped, is *L. uniflorus* Michx., while *T.* 3104 with blunt calyx teeth is *L. ramosissimus*. The description clearly covers both specimens and since they are discordant elements it is not possible to select one of them as a satisfying type, so the name *L. coreanus* should be rejected under Article 70 of the *International Code of Botanical Nomenclature*.

1682. Lycopus uniflorus Michx., Fl. Bor. Amer. ed 2, 1: 14 (1820); Ohwi, Fl. Jap. (Engl. ed.) 781 (1965).

Lycopus coreanus Lévl. in Fedde, Rep. Sp. Nov. 8: 423 (1910), p.p. excl. *Taquet* 3104; Nakai in Bot. Mag. Tokyo 35: 176 (1921) p.p.; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 85 (1929) p.p.; Hara in Bot. Mag. Tokyo 51: 89 (1937); Nakai in Bull. Nat. Sci. Mus. Tokyo no 31: 99 (1952).

KOREA. Quelpaert in sylvis Yengsil, 1000 m, 17 viii 1908, *Taquet* 1494 (syntype *L. coreanus*, E).

1683. Meehania urticifolia (Miq.) Makino in Bot. Mag. Tokyo 13: 159 (1899). var. **urticifolia**.

Dracocephalum urticifolium Miq. in Ann. Mus. Bot. Lugd.-Bat. 2:109(1865); Dunn in Notes R.B.G. Edinb. 8: 166 (1913).

? Nepeta urticifolia Lévl. in Fedde, Rep. Sp. Nov. 9: 245 (1911).

Dracocephalum fargesii Lévl. in Fedde, Rep. Sp. Nov. 9: 246 (1911); Dunn in Notes R.B.G. Edinb. 6: 169 (1915), pro syn. sub *D. moldavica* L.

Meehania fargesii (Lévl.) C. Y. Wu in Acta Phytotax. Sin. 8: 12 (1959); Fl. Reipubl. Pop. Sin. 65(2): 336 (1977).

CHINA. Szechuan, Tchen-Kéou-Tin, *Farges* 1125 (holo. *D. fargesii*, E); Kweichow, *Esquirol* 594 (holo. *Nepeta urticifolia* — n.v.).

The holotype of *D. fargesii* is a rather poor specimen with only two flowers fully developed. The specimen, however, does compare favourably with other typical specimens from neighbouring Hupeh and Yunnan.

Initially Dunn (1913) also sank this species under *D. urticifolium* but later (1915), due to some confusion, cited *D. fargesii* under *D. moldavica* but in the same paper cited *Farges* 1125, the holotype of *D. fargesii* under *D. urticifolium* var. *typica* f. *radicans* Dunn. *Meehania urticifolia* var. *faberi* (Hemsl.) Kudo, also from Szechuan and Hupeh, is probably a synonym of *M. urticifolia*.

Although a specimen of *Nepeta urticifolia* Lévl. has not been seen, the description does appear to match *Meehania urticifolia* reasonably well.

1684. Meehania urticifolia (Miq.) Makino var. **angustifolia** (Dunn) Hand.-Mazz., Symb. Sin. 7: 916 (1936).

Dracocephalum simplex Van. in Bull. Acad. Géog. Bot. 14: 179 (1904), p.p. quoad *Bodinier* 2284.

D. radicans Van. in Bull. Acad. Géog. Bot. 14: 180 (1904).

D. kaitcheense Lévl. in Fedde, Rep. Sp. Nov. 8: 422 (1910).

D. pinfaense Lévl. in Fedde, Rep. Sp. Nov. 8: 422 (1910).

D. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 8: 422 (1910); C. Y. Wu in Acta Phytotax. Sin. 8: 15 (1959); Fl. Reipubl. Pop. Sin. 65(2): 341 (1977), pro syn. sub *Meehania henryi* (Hemsl.) Sun ex C. Y. Wu.

D. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 8: 422 (1910).

D. stachydifolium Lévl. in Fedde, Rep. Sp. Nov. 8: 422 (1910).

D. urticifolium auct. non Miq.; Dunn in Notes R.B.G. Edinb. 8: 166 (1913).

D. urticifolium Miq. var. *simplex* [Van. ex] Dunn in Lévl., Fl. Kouy-Tchéou 207 (1914); Lévl., Cat. Pl. Yunnan 137 (1916), nom. nud.

D. urticifolium Miq. var. *angustifolia* Dunn in Notes R.B.G. Edinb. 6: 170 (1915).

D. urticifolium Miq. var. *angustifolia* Dunn f. *radicans* (Van.) Dunn in Notes R.B.G. Edinb. 6: 171 (1915) & in Lévl., Fl. Kouy-Tchéou 207 (1914); Lévl., Cat. Pl. Yunnan 137 (1916).

D. urticifolium Miq. var. *angustifolia* Dunn. f. *racemosa* Dunn in Notes R.B.G. Edinb. 6: 170 (1915) & in Lévl., Fl. Kouy-Tchéou 207 (1914).

Meehania urticifolia (Miq.) Makino var. *pedunculata* (Hemsl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 223 (1929).

M. urticifolia (Miq.) Makino var. *henryi* (Hemsl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 224 (1929), p.p. quoad syn. Lévl.

M. fargesii (Lévl.) C. Y. Wu var. *radicans* (Van.) C. Y. Wu in Acta Phytotax. Sin. 8: 13 (1959); Fl. Reipubl. Pop. Sin. 65(2): 338 (1977).

M. henryi (Hemsl.) Sun ex C. Y. Wu var. *kaitcheensis* (Lévl.) C. Y. Wu in Acta Phytotax. Sin. 8: 16 (1959); Fl. Reipubl. Pop. Sin. 65(2): 342 (1977).

M. henryi (Hemsl.) Sun ex C. Y. Wu var. *stachydifolia* (Lévl.) C. Y. Wu in Acta Phytotax. Sin. 8: 16 (1959); Fl. Reipubl. Pop. Sin. 65(2): 342 (1977).

M. pinfaensis (Lévl.) Sun ex C. Y. Wu in Acta Phytotax. Sin. 8: 17 (1959); Fl. Reipubl. Pop. Sin. 65(2): 343 (1977).

CHINA. Kweichow, environs de Kouy-Yang, mont du Collège, belles fleurs roses, 26 v 1898, *Bodinier* 2284 (syntype *D. simplex*, E); environs de Tsin-Gay, mont du Sé-tsè-chan, 14 xi 1897, *Laborde in herb. Bodinier* s.n. (holo. *D. radicans*, E); Kin-Tchen-Lin, Kai-tchéou, fleur viol.-rose, vi 1908, *Cavalerie* 2781 (holo. *D. kaitcheense*, E); route Pin-fa–Kouy-Yang, v 1905, *Cavalerie* s.n. (holo. *D. pinfaense*, E); Long-ly, route de Pin-fa, montagnes, fleur violet-rose interieurement pourprée, 16 vi 1902, *Cavalerie* 826 (holo. *D. cavaleriei*, E); ruisseau Kouy-hoa–Siao-meou-tchang, fleur rose, tige couchée, longueur 2–3 m, 5 v 1904, *Esquirol* 57 (holo. *D. esquirolii*, E); Pin-fa, bois humides, fl. rouges-pourpres, 3 vi 1903, *Cavalerie* 1034 (holo. *D. stachydifolium*, E).

Dunn and Handel-Mazzetti were the first to recognize the Léveillé and Vaniot taxa as varieties of *M. urticifolia*. Handel-Mazzetti mentioned that *M. urticifolia* is polymorphic and this is probably true also of var. *angustifolia*. The variations within this variety lie in the size, shape and toothing of the leaves. The types of *D. cavaleriei*, *D. pinfaensis* and *D. simplex* p.p. have very slight toothing while that of *D. stachydifolium* and *D. esquirolii* is more pronounced. *D. kaitcheense* has the largest leaves and also the most pronounced toothing. When young the calyces of these specimens can be as small as 10 mm and the corollas 30 mm but in the fruiting condition these may enlarge to between 17 and c. 40 mm.

From a geographic standpoint certainly there is no reason to separate the taxa represented by all the above names for they are all found within 160 km of each other SE of Kuei-Yang (Kouy-Yang).

Although it is a scrappy specimen, the type of *D. radicans* shows two completely different types of leaves on the same stem: some are 2 cm long, ovate, bluntly toothed and rooting at the nodes; the others are up to 6 cm long, narrowly lanceolate and more sharply toothed.

1685. Meehania urticifolia (Miq.) Makino var. **pinetorum** (Hand.-Mazz.) Hand.-Mazz., Symb. Sin. 7: 916 (1936).

Dracocephalum simplex Van. in Bull. Acad. Géog. Bot. 14: 179 (1904), p.p. excl. *Bodinier* 2284.

D. mairei Lévl. in Fedde, Rep. Sp. Nov. 13: 343 (1914) & Cat. Pl. Yunnan 137 (1916).

D. urticifolium Miq. var. *pinetorum* Hand.-Mazz. in Sitzgsz. Akad. Wiss. Wien Math.-Nat. Kl. 62: 236 (1925).

Meehania pinetorum (Hemsl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 224 (1929).

M. fargesii (Lévl.) C. Y. Wu var. *pinetorum* (Hand.-Mazz.) C. Y. Wu in Acta Phytotax. Sin. 8: 15 (1959); Fl. Reipubl. Pop. Sin. 65(2): 340 (1977).

CHINA. Yunnan, mont. entre Se-tsong et Lo-pin, fleurs roses, 6 iv 1897, *Bodinier* s.n. (syntype *D. simplex*, E); sous bois de Kiao-me-ti, 3100 m, pedicularis vivace en touffes, fl. bleues, vii 1913, *E. E. Maire* s.n. (holo. *D. mairei*, E).

The syntype of *D. simplex* from Yunnan has leaves which match those of var. *pinetorum* but its flowers are much larger (calyx c. 20 mm, corolla 34–40 mm) and in this respect it more closely resembles *M. urticifolia* var. *angustifolia* which, however, has longer and more acuminate leaves.

1686. Melissa axillaris (Benth.) Bakh. f. in Back. & Bakh. f., Fl. Java 2: 629 (1965); Fl. Reipubl. Pop. Sin. 66: 211 (1977).

Geniosporum axillare Benth. in Wall., Pl. Asiat. Rar. 2: 18 (1831).

Calamintha cavaleriei Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 424 (1910).

Melissa parviflora Benth. in Wall., Pl. Asiat. Rar. 1: 65 (1830) & Lab. Gen. & Sp. 394 (1834); Dunn in Notes R.B.G. Edinb. 8: 163 (1913), 6: 160 (1915) & in Lévl., Fl. Kouy-Tchéou 209 (1914) p.p.; Lévl., Cat. Pl. Yunnan 138 (1916); Doan in Fl. Gén. Indo-Chine 4: 992 (1936); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 97 (1929); — non Salisb. (1796).

CHINA. Kweichow, Ma-jo, blanche, 5 ix 1907, *Cavalerie* 3055 (syntype *C. cavaleriei*, E); Pin-fa, fleurs violettes, 16 ix 1902, *Cavalerie* 488 (syntype *C. cavaleriei*, E).

1687. Micromeria biflora (Buch.-Ham. ex D. Don) Benth., Lab. Gen. & Sp. 378 (1834); Dunn in Lévl., Fl. Kouy-Tchéou 210 (1914) & Notes R.B.G. Edinb. 6: 157 (1915) & in Lévl., Cat. Pl. Yunnan 138 (1916); Rehder in Journ. Arn. Arb. 16: 312 (1935).

Thymus biflorus [Buch.-Ham. ex] D. Don, Prodr. Fl. Nep. 112 (1825).

Thymus cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 11: 298 (1912).

Satureia biflora Briq. in Pflanzenfam. 4(3a): 299 (1896); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 99 (1929).

CHINA. Kweichow, Tin lan, montagnes sablonneuses, fleur rose, vi 1910, *Cavalerie* 3778 (syntype *T. cavaleriei*, E); Yunnan, Pan-pien-kai, 2550 m, pâturages des coteaux calcaires, thymus vivace, etalé, fl. roses, ix 1911, *E. E. Maire* s.n. (syntype *T. cavaleriei*, E).

Microtaena coreana Lévl. = **Caryopteris divaricata** (Sieb. & Zucc.) Maxim. (Verbenaceae).

1688. Microtaena insuavis (Hance) Prain ex Briq. in Pflanzenfam. 4(3a): 269 (1896); Dunn in Notes R.B.G. Edinb. 8: 169 (1913) & 6: 188 (1915) & in Lévl., Fl. Kouy-Tchéou 210 (1914) & Cat. Pl. Yunnan 140 (1916); Doan in Fl.-Gén. Indo-Chine 4: 1017 (1936); Rehder in Journ. Arn. Arb. 18: 244 (1937); C. Y. Wu in Acta Phytotax. Sin. 8: 44 (1959); Murata in Tonan Ajia Kenkyu 8: 508 (1971); Fl. Reipubl. Pop. Sin. 66: 53 (1977).

Gomphostemma insuave Hance in Journ. Bot. 22: 231 (1884).

M. mollis Lévl. in Fedde, Rep. Sp. Nov. 9: 222 (1911); Hsuan in Acta Phytotax. Sin. 10: 45 (1965); Fl. Reipubl. Pop. Sin. 66: 51 (1977).

M. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 9: 222 (1911).

CHINA. Kweichow, Lo-fou, jaune, iii 1909, *Cavalerie* 3548 (syntype *M. mollis*, E); Kiao-tsang, labiée jaune, longueur 2–3 m, 13 xii 1904, *Esquirol* 330 (syntype *M. mollis*, E); sine loc., *Esquirol* 755 (mis-cited by Lévl. as 155) (syntype *M. mollis*, E); Tchen-fong, labiée jaune, viii 1905, *Esquirol* 672 (holo. *M. esquirolii*, E).

1689. Mosla chinensis Maxim. in Bull. Acad. Sci. St. Pétersb. 29: 177 (1883); Dunn in Notes R.B.G. Edinb. 8: 163 (1913), 6: 165 (1915) & in Lévl., Fl. Kouy-Tchéou 210 (1914); Doan in Fl. Gén. Indo-Chine 4: 985 (1936); Ohwi, Fl. Jap. (Engl. ed.) 780 (1965); Li in Acta Phytotax. Sin. 12: 229 (1974); Fl. Reipubl. Pop. Sin. 66: 289 (1977).

Calamintha clipeata Van. in Bull. Acad. Géog. Bot. 14: 184 (1904).

Sideritis ciliatus Thunb. var. *mokpoensis* Van. in Fedde, Rep. Sp. Nov. 8: 450 (1910).

Mosla coreana Lévl. in Fedde, Rep. Sp. Nov. 9: 248 (1911); Nakai in Bot. Mag. Tokyo 35: 178 (1921), pro syn. sub *Mosla angustifolia* Makino.

Orthodon chinense (Maxim.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 75 (1929).

CHINA. Kweichow, environs de Tou-chan, vi 1899, *Cavalerie in herb. Bodinier* 2669 (holo. *C. clipeata*, E).

KOREA. In herbidis Mokpo, 25 ix 1906, *Faurie* 805 (holo. *S. ciliatus* var. *mokpoensis* & *M. coreana*, E).

1690. Mosla dianthera (Buch.-Ham. ex Roxb.) Maxim. in Bull. Acad. Sci. St. Pétersb. 20: 457 (1875); Fl. Reipubl. Pop. Sin. 66: 297 (1977).

Lycopus dianthera [Buch.-Ham. ex] Roxb., Fl. Ind. 1: 145 (1820).

Mosla cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 9: 247 (1911); Dunn in Lévl., Fl. Kouy-Tchéou 210 (1914) & in Notes R.B.G. Edinb. 6: 155 (1915); Doan in Fl. Gén. Indo-Chine 4: 986 (1936); Li in Acta Phytotax. Sin. 12: 231 (1974); Fl. Reipubl. Pop. Sin. 66: 296 (1977).

M. grosse-serrata Maxim. in Bull. Acad. Sci. St. Pétersb. 20: 458 (1875); Nakai in Bot. Mag. Tokyo 35: 179 (1921), p.p.

M. taquetii Lévl. in litt. fide Taquet nom. nud.

Orthodon cavaleriei (Lévl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 81 (1929).

CHINA. Kweichow, Pin-fa, près ruisseau, 24 ix 1902, *Cavalerie* 530 (holo. *M. cavaleriei*, E).

1691. Mosla dianthera (Buch.-Ham. ex Roxb.) Maxim. var. **nana** (Hara) Ohwi in Fl. Jap. (rev. ed.) 1439 (1965).

Orthodon grosseserratum (Maxim.) Kudo var. *nanum* Hara in Journ. Jap. Bot. 14: 75 (1938).

Calamintha taquetii Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 423 (1911), p.p. quoad *Taquet* 1240; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 79 (1929), pro syn. sub *Orthodon grosseserratum* (Maxim.) Kudo.

KOREA. Quelpaert in sylvis Mokan, 1000 m, 7 ix 1908, *Taquet* 1240 (syntype *C. taquetii*, E).

The other syntypes of *C. taquetii*, *Taquet* 1254, 1255 and 3093 are *Calamintha ussuriense* Regel & Maack.

1692. Mosla scabra (Thunb.) C. Y. Wu & H. W. Li in Acta Phytotax. Sin. 12: 230 (1974) & in Fl. Reipubl. Pop. Sin. 66: 294 (1977), p.p. excl. syn. *Calamintha argyi* Lévl.

Ocimum scabrum Thunb. in Trans. Linn. Soc. 2: 338 (1794).

Mosla lanceolata (Benth.) Maxim. in Bull. Acad. Sci. St. Pétersb. 20: 459 (1875); Dunn in Notes R.B.G. Edinb. 8: 162 (1913), 6: 155 (1915) & in Lévl.,

Fl. Kouy-Tchéou 211 (1914), p.p. excl. syn. *Calamintha argyi* Lévl.; Lévl. in Mem. Real Acad. Ci. Art. Barcelona, ser. 3, 12: 554 (1916); Doan in Fl. Gén. Indo-Chine 4: 987 (1936).

Mosla argyi Lévl. in Fedde, Rep. Sp. Nov. 9: 248 (1911).

Orthodon lanceolatum (Benth.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 80 (1929), p.p. excl. syn. *Calamintha argyi*.

CHINA. Kiangsu, Sin-Kia-Wei, bois de bambou, *d'Argy* s.n. (syntype *M. argyi*, E); Souo-Se, *d'Argy* s.n. (syntype *M. argyi*, E).

Calamintha argyi has been placed in synonymy under *Mosla* by several authors: this has arisen because both the names *Mosla argyi* and *Calamintha argyi* have been written in Léveillé's hand on the labels of the syntypes of *Mosla argyi*. The true holotype of *Calamintha argyi* is not a *Mosla* but has been identified as *Clinopodium confine* (see under 1655).

1693. Nepeta cataria L., Sp. Pl. 570 (1753); Dunn in Notes R.B.G. Edinb. 8: 163, 165 (1913), 6: 167 (1915) & in Lévl., Fl. Kouy-Tchéou 211 (1914); p.p. excl. *Esquirol* 3047; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 228 (1929); Wu in Acta Phytotax. Sin. 8: 18 (1959); Fl. Reipubl. Pop. Sin. 65(2): 298 (1977).

Nepeta bodinieri Van. in Bull. Acad. Géog. Bot. 14: 172 (1904).

Calamintha albiflora Van. in Bull. Acad. Géog. Bot. 14: 181 (1904).

CHINA. Kweichow, environs de Kouy-Yang, pied d'un grand rocher, surplombant la rive d'un ruisseau, près de Kouy-Yang, fleurs roses pourprées, 9 xii 1897, *Bodinier* 2030 (holo. *N. bodinieri*, E); environs de Gan-pin, près de la porte de l'Est, fleurs blanches, 11 v 1899, *Martin in herb. Bodinier* 2661 (holo. *C. albiflora*, E).

Esquirol 3047 is *Anisomeles ovata* R. Br.

1694. Nepeta laevigata (D. Don) Hand.-Mazz., Symb. Sin. 7: 916 (1936); Wu in Acta Phytotax. Sin. 8: 17 (1959); Fl. Reipubl. Pop. Sin. 65(2): 278 (1977).

Betonica laevigata D. Don, Prodr. Fl. Nep. 110 (1825).

Nepeta spicata Benth. var. *incana* Lévl. in Fedde, Rep. Sp. Nov. 9: 245 (1911).

CHINA. Szechuan (Thibet oriental), Ta-Tsien-Lou, principauté de Kiala, 1893, *Soulié* 542, (syntype *N. spicata* var. *incana*, E); *Soulié* 260 (syntype *N. spicata* var. *incana* — n.v.).

1695. Nepeta prattii Lévl. in Fedde, Rep. Sp. Nov. 9: 245 (1911); Fl. Reipubl. Pop. Sin. 65(2): 292 (1977).

N. stewartiana Diels in Notes R.B.G. Edinb. 5: 237 (1912); Fl. Reipubl. Pop. Sin. 65(2): 288 (1977).

Dracocephalum stewartianum (Diels) Dunn in Notes R.B.G. Edinb. 8: 166 (1913); Hand.-Mazz., Symb. Sin. 7: 918 (1936).

D. prattii (Lévl.) Hand.-Mazz. in Acta Hort. Gotob. 9: 79 (1934); Sealy in Bot. Mag. 164: sub t. 9646 (1943).

CHINA. Szechuan et frontière du Thibet près de Ta-Tsien-Lou, 2700–4000 m, *Pratt* 501 (typus *N. prattii* — n.v.).

1696 Nepeta souliei Lévl. in Fedde, Rep. Sp. Nov. 9: 221 (1911); Dunn in Notes R.B.G. Edinb. 8: 165 (1913) & 6: 171 (1915) excl. syn. *Dracocephalum prattii* Lévl., pro syn. sub *D. sibiricum*; Fl. Reipubl. Pop. Sin. 65(2): 291 (1977).

Dracocephalum souliei (Lévl.) Hand.-Mazz. in Acta Hort. Gotob. 9: 80 (1934); Sealy in Bot. Mag. 164: sub t. 9646 (1943).

CHINA. Szechuan (Thibet oriental), Ta-Tsien-Lou, principauté de Kiala, 1893, *Soulié* 484, 573, 816 (syntypes, E).

1697. Nepeta subsessilis Maxim. in Bull. Acad. Sci. St. Pétersb. 20: 469 (1875); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 233 (1929); Hara, Enum. Sperm. Jap. 1: 215 (1948); Ohwi, Fl. Jap. (Engl. ed.) 773 (1965).

N. fauriei Lévl. in Fedde, Rep. Sp. Nov. 9: 245 (1911).

JAPAN. Sommet de l'Jide, 29 viii 1898, *Faurie* 2205 (typus *N. fauriei* — n.v.).

1698. Nepeta tenuifolia Benth., Labiat. Gen. & Sp. 468 (1834).

Schizonepeta tenuifolia (Benth.) Briq. in Engl. & Prantl., Pflanzenfam. 4(3a): 235 (1896); Hand.-Mazz., Symb. Sin. 7: 916 (1936); Fl. Reipubl. Pop. Sin. 65(2): 267 (1977).

Nepeta vaniotiana Lévl. in Fedde, Rep. Sp. Nov. 9: 220 (1911); Dunn in Notes R.B.G. Edinb. 8: 165 (1913), 6: 166 (1915) & in Lèvl., Fl. Kouy-Tchéou 211 (1914), pro syn. sub *N. lavandulacea* L.f.

CHINA. Kweichow, environs de Kouy-Yang, bords des routes, collines incultes, fleurs pourpre violet, 13 xi 1897, *Bodinier* 2011 (holo. *N. vaniotiana*, E).

Ocimum aureoglandulosum Lévl. = **Caryopteris terniflora** Maxim. (Verbenaceae).

1699. Origanum vulgare L., Sp. Pl. 590 (1753).

O. vulgare L. var. *lutescens* Lévl., Fl. Kouy-Tchéou 211 (1914).

O. vulgàre L. f. *albiflora* Lévl., Fl. Kouy-Tchéou 212 (1914) nom. nud.

CHINA. Kweichow, Tchen-Fong à Tchei-Tong, fleur jaunâtre, viii 1904, *Esquirol* 163 (holo. var. *lutescens*, E).

1700. Orthosiphon wulfenioides (Diels) Hand.-Mazz. in Acta Hort. Gotob. 9: 98 (1934) & Symb. Sin. 7: 945 (1936); Fl. Reipubl. Pop. Sin. 66: 570 (1977).

Coleus wulfenioides Diels in Notes R.B.G. Edinb. 5: 231 (1912).

Orthosiphon mairei Lévl. in Fedde, Rep. Sp. Nov. 12: 532 (1913) & Cat. Pl. Yunnan 140 (1915) pro syn. sub *O. rubicundus* Benth.

CHINA. Yunnan, collines herbeuses derrière Tong-tchouan, 2550 m, vivace, feuilles en rosette etalée sur le sol, fl. roses, v 1912, *E. E. Maire* s.n. (syntype *O. mairei*, E); pâtures des coteaux à Mo-tsou, 500 m, plante vivace, feuilles etalées en rosette, fl. roses, vii 1913, *E. E. Maire* s.n. (syntype *O. mairei*, E); pâturages des mont. de Ta-hai-tse, 3000 m, labiée vivace, feuil. en rosette etalée sur le sol, v 1912, *E. E. Maire* s.n. (syntype *O. mairei*, E).

1701. Paraphlomis javanica (Bl.) Prain ex Back. & Bakh. f. var. **coronata** (Van.) C. Y. Wu & H. W. Li in Acta Phytotax. Sin. 13(4): 72 (1975) & in Fl. Reipubl. Pop. Sin. 65(2): 552 (1977).

Lamium ? coronatum Van. in Bull. Acad. Géog. Bot. 14: 174 (1904); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 209 (1929) pro syn. sub *Paraphlomis rugosa* (Benth.) Prain.

Loxocalyx vaniotiana Lévl. in Fedde, Rep. Sp. Nov. 9: 224 (1911); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 209 (1929) pro syn. sub *P. rugosa* (Benth.) Prain.

Phlomis rugosa auct. non Benth.; Dunn in Notes R.B.G. Edinb. 8: 168, 169 (1913), 6: 186 (1915) p.p. & in Lévl., Fl. Kouy-Tchéou 212 (1914); Doan in Fl. Gén. Indo-Chine 4: 1015 (1936); C. Y. Wu in Acta Phytotax. Sin. 8: 37 (1959), p.p.; Murata in Tonan Ajia Kenkyu 8: 512 (1971).

Paraphlomis rugosa (Benth.) Prain var. *coronata* (Van.) C. Y. Wu in Acta Phytotax. Sin. 8: 38 (1959); H. W. Li in Acta Phytotax. Sin. 10: 61 (1965).

CHINA. Kweichow, environs de Gan-pin, fond d'un ravin boisé, fleurs jaunes, 2 viii 1897, *Martin in herb. Bodinier* 1777 (holo. *Lamium coronatum*, syntype *Loxocalyx vaniotiana*, E); Ma-jo, Long-ly, près des grottes, crevasses, 13 xi 1907, *Cavalerie* 3195 (syntype *L. vaniotiana*, E).

1702. Perilla frutescens (L.) Britt. var. **acuta** (Thunb.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 74 (1929); H. W. Li in Acta Phytotax. Sin. 12: 227 (1974); Fl. Reipubl. Pop. Sin. 66: 286 (1977).

Ocimum acutum Thunb., Fl. Jap. 248 (1784).

Perilla cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 8: 425 (1910); Dunn in Notes R.B.G. Edinb. 8: 162 (1913), 6: 154 (1915) & in Lévl., Fl. Kouy-Tchéou 212 (1914), pro syn. sub *P. nankinensis* Decne; Doan in Fl. Gén. Indo-Chine 4: 984 (1936), pro syn. sub *P. nankinensis*.

CHINA. Kweichow, Pin-fa, bois, fleurs roses, 13 ix 1902, *Cavalerie* 364 (holo. *P. cavaleriei*, E).

P. nankinensis is generally regarded as a synonym of *P. frutescens* var. *crispa* (Thunb.) Hand.-Mazz.

1703. Phlomis tatsienensis Bur. & Franch. in Journ. de Bot. 5: 149 (1891); Dunn in Notes R.B.G. Edinb. 8: 169 (1913) & 6: 187 (1915); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 215 (1929); Fl. Reipubl. Pop. Sin. 65(2): 460 (1977).

P. souliei Lévl. in Fedde, Rep. Sp. Nov. 9: 222 (1911).

CHINA. Szechuan (Thibet oriental), Ta-Tsien-Lou, principauté de Kiala, 1893, *Soulié* 188, 667(?) (syntypes *P. souliei*, E).

It seems probable that Léveillé mis-cited *Soulié* 667 for *Soulié* 867 of which there is a sheet in E. I have seen no material of *P. tatsienensis* and therefore follow Dunn, who cited *Soulié* 188 & 867.

The type specimen of Soulié at Edinburgh is very poor, consisting only of one piece of inflorescence and a leaf. *P. souliei* may be conspecific with *P. umbrosa* Turcz. but the material is insufficient to be certain.

1704. Plectranthus calcicolus Hand.-Mazz. var. **subcalvus** Hand.-Mazz. in Acta Hort. Gotob. 13: 378 (1939).

Teucrium mairei Lévl. in Bull. Acad. Géog. Bot. 22: 236 (1912); Lévl., Cat. Pl. Yunnan 141 (1916), pro syn. sub *Plectranthus nervosus* Hemsl.; Dunn in Lévl., Fl. Kouy-Tchéou 213 (1914) & in Notes R.B.G. Edinb. 6: 143 (1915), pro syn. sub *P. nervosus*.

Rabdosia calcicola (Hand.-Mazz.) Hara var. *subcalva* (Hand.-Mazz.) C. Y. Wu & H. W. Li in Acta Phytotax. Sin. 13: 90 (1975) & in Fl. Reipubl. Pop. Sin. 66: 488 (1977).

CHINA. Yunnan, pâturages des monts derrière Tong-tchouan, 2700 m, plante vivace, dressée en touffes, feuilles rudes, grisâtres, fl. roses, ix 1911, *E. E. Maire* s.n. (holo. *T. mairei*, E).

Plectranthus chamaedrys Lévl. = **Triumfetta annua** L. (Tiliaceae.)

1705. Plectranthus coetsa [Buch.-Ham. ex] D. Don var. **cavaleriei** (Lévl.) McKean **comb. nov.**

P. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 9: 247 (1911); Dunn in Lévl. Fl. Kouy-Tchéou 213 (1914) & in Notes R.B.G. Edinb. 6: 142 (1915); Hand.-Mazz. in Acta Hort. Gotob. 13: 377 (1939), pro syn. sub *P. coetsa*.

P. mairei Lévl. in Bull. Soc. Agric. Sci. Arts Sarthe 44: 479 (1914); Lévl., Cat. Pl. Yunnan 141 (1916), pro syn. sub *P. coetsa*; Rehder in Journ. Arn. Arb. 16: 314 (1935), pro syn. sub *P. coetsa*; Hand.-Mazz. in Acta Hort. Gotob. 13: 377 (1939), pro syn. sub *P. coetsa*; C. Y. Wu in Acta Phytotax. Sin. 8: 56 (1959), pro syn. sub *Siphocranion macranthum* (Hook. f.) C. Y. Wu; Murata in Tonan Ajia Kenkyu 8: 502 (1971) pro syn. sub *Isodon coetsa* (Buch.-Ham.) Kudo.

Isodon cavaleriei (Lévl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 130 (1929).

Rabdosia coetsa (Buch.-Ham. ex D. Don) Hara var. *cavaleriei* (Lévl.) C. Y. Wu & H. W. Li in Acta Phytotax. Sin. 13: 91 (1975); Fl. Reipubl. Pop. Sin. 66: 495 (1977).

CHINA. Kweichow, sine loc., *Esquirol* 834 (holo. *P. cavaleriei*, E). Yunnan, pâturages des mont. derrière Tong-tchouan, 2700 m, plante annuelle très rameuse, fl. rouge vif, x, *E. E. Maire* s.n. (holo. *P. mairei*, E).

1706. Plectranthus drogotschiensis Hand.-Mazz. in Acta Hort. Gotob. 9: 95 (1934) & 13: 373 (1939).

Leucas barbeyana Lévl. in Fedde, Rep. Sp. Nov. 9: 247 (1911).

Rabdosia drogotschiensis (Hand.-Mazz.) Hara in Journ. Jap. Bot. 47: 195 (1972).

CHINA. Szechuan (Thibet oriental), Tonglo, principauté de Kiala, 1893, *Soulié* 427 (holo. *L. barbeyana*, E).

The type of *L. barbeyana* matched two collections of *Plectranthus drogotschiensis* at E, *Fang* 3528 & 3696. Determinations of these Fang collections were kindly sent by Mr Li Hsi-wen, Kunming, to whom we are most indebted.

1707. Plectranthus inflexus (Thunb.) Vahl. ex Benth., Labiat. Gen. & Sp. 711 (1835).

Ocymum inflexum Thunb., Fl. Jap. 249 (1784).

Plectranthus coreanus Van. in Bull. Acad. Géog. Bot. 14: 166 (1904).

Stachys polygonatum Lévl. in Fedde, Rep. Sp. Nov. 9: 449 (1911); Nakai in Bull. Nat. Sci. Mus. Tokyo no. 31: 98 (1952) pro syn. sub *Amethystanthus inflexus* var. *vilior* (Maxim.) Nakai.

Plectranthus inflexus (Thunb.) Vahl. ex Benth. var. *microphyllus* Nakai in Bot. Mag. Tokyo 35: 183 (1921).

Isodon inflexus (Thunb.) Kudo var. *microphyllus* (Nakai) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 129 (1929); & var. *canescens* op. cit.: 129.

Rabdosia inflexa (Thunb.) Hara in Journ. Jap. Bot. 47: 196 (1972).

KOREA. Route de Chemulpo à Seoul, lieux secs et incultes, 13 ix 1889, *Bodinier* s.n. (holo. *P. coreanus*, E); Quelpaert in parva insula Mounseum, 9 viii 1910, *Taquet* 4378 (holo. *S. polygonatum*, E).

1708. Plectranthus lophanthoides (Buch.-Ham. ex D. Don) Grierson & Long, **comb. nov.**

Hyssopus lophanthoides [Buch.-Ham. ex] D. Don, Prodr. Fl. Nep. 110 (1825).

Plectranthus striatus Benth. in Wall., Pl. As. Rar. 2: 17 (1831); Dunn in Notes R.B.G. Edinb. 8: 154, 156 (1913) & 6: 139 (1915) & in Lévl., Fl. Kouy-Tchéou 214 (1914); Doan in Fl. Gén. Indo-Chine 4: 948 (1936).

Orthosiphon glabrescens Van. in Bull. Acad. Géog. Bot. 14: 168 (1904).

O. bodinieri Van. in Bull. Acad. Géog. Bot. 14: 170 (1904).

Plectranthus esquirolii Lévl. in Fedde, Rep. Sp. Nov. 9: 247 (1911); Dunn in Lévl., Fl. Kouy-Tchéou 213 (1914) = 'var. du *P. striatus*'.

Isodon striatus (Benth.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 134 (1929).

Rabdosia lophanthoides (Buch.-Ham. ex D. Don) Hara in Journ. Jap. Bot. 47: 197 (1972); H. W. Li in Acta Phytotax. Sin. 13: 88 (1975); Fl. Reipubl. Pop. Sin. 66: 479 (1977).

CHINA. Yunnan, route de Mong-tse à Yun-nan-sen, col de Koan-yu-chan, haies du bord de la route; item, environs de Yun-nan-sen, talus au pied de la mont., 27 x 1896, *Bodinier* s.n. (holo. *O. glabrescens*, E). Kweichow, environs de Kouy-yang, bois de la mont. de N. D. de Liesse, fleurs bleu pâle, 20 x 1898, *Bodinier* 2480 (holo. *O. bodinieri*, E); Ko tchang keou, fleur blanche, ix 1904, *Esquirol* 214 (holo. *P. esquirolii*, E).

I am grateful to Messrs. Grierson & Long for allowing me to publish the above combination here, prior to their next paper in the series 'Notes relating to the Flora of Bhutan', in which a more detailed account of this taxon will appear.

1709. Plectranthus macranthus Hook. f., Fl. Brit. Ind. 4: 616 (1885); Dunn in Notes R.B.G. Edinb. 8: 170 (1913), 6: 139 (1915), & in Lévl., Fl. Kouy-Tchéou 213 (1914); Doan in Fl. Gén. Indo-Chine 4: 946 (1936) p.p. quoad syn. *Hancea hemsleyana* Lévl.

Hancea prainiana Lévl. in Fedde, Rep. Sp. Nov. 9: 223 (1911).

H. hemsleyana Lévl. in Fedde, Rep. Sp. Nov. 9: 223 (1911).

Plectranthus prainianus (Lévl.) Dunn in Notes R.B.G. Edinb. 8: 158 (1913), 6: 139 (1915) & in Lévl., Fl. Kouy-Tchéou 214 (1914).

Isodon macranthus (Hook. f.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 138 (1929).

I. macranthus (Hook. f.) Kudo var. *prainianus* (Lévl.) Kudo in op. cit.: 139.

Siphocranion macranthum (Hook. f.) C. Y. Wu in Acta Phytotax. Sin. 8: 56 (1959) excl. *Plectranthus mairei* Lévl.; Fl. Reipubl. Pop. Sin. 66: 391 (1977), excl. *Plectranthus mairei*.

S. macranthum (Hook. f.) C. Y. Wu var. *prainianum* (Lévl.) C. Y. Wu & H. W. Li in Acta Phytotax. Sin. 10: 239 (1965).

Rabdosia macrantha (Hook. f.) Hara in Journ. Jap. Bot. 47: 197 (1972).

CHINA. Kweichow, Pin-fa, près des cascades, fl. violette, 31 viii 1902, *Cavalerie* 362 (holo. *Hancea prainiana*, E); Pin-fa, près chutes d'eau, fl. viol., 31 viii 1902, *Cavalerie* 363 (holo. *H. hemsleyana*, E).

1710. Plectranthus nervosus Hemsl. in Journ. Linn. Soc. (Bot.) 26: 272 (1890) p.p. maj. excl. *Henry* 2725 & *Carles* 347; Dunn in Notes R.B.G. Edinb. 8: 157 (1913); 6: 143 (1915) p.p. maj. excl. syn. *Teucrium mairei* Lévl. & in Lévl., Fl. Kouy-Tchéou 213 (1914) p.p. excl. syn. *Teucrium mairei & Esquirol* 3042.

P. moslifolius Lévl. in Fedde, Rep. Sp. Nov. 9: 247 (1911).

Isodon nervosus (Hemsl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 136 (1929), excl. syn. *Teucrium mairei*.

Rabdosia nervosa (Hemsl.) C. Y. Wu & H. W. Li in Acta Phytotax. Sin. 13: 79 (1975); Fl. Reipubl. Pop. Sin. 66: 428 (1977).

CHINA. Kweichow, Pin-fa, près ruisseaux, fl. bleues, 1 x 1902, *Cavalerie* 587 (holo. *P. moslifolius*, E).

Henry 2725 and *Carles* 347 are *P. serra* Maxim.

1711. Plectranthus provicarii Lévl., Cat. Pl. Yunnan 141 (1916); Hand.-Mazz., Symb. Sin. 7: 941 (1936) & in Acta Hort. Gotob. 13: 365 (1939).

Rabdosia provicarii (Lévl.) Hara in Journ. Jap. Bot. 47: 199 (1972); H. W. Li in Acta Phytotax. Sin. 13: 83 (1975); Fl. Reipubl. Pop. Sin. 66: 442 (1977).

CHINA. Yunnan, pâtures des mont. à Pe long tsin, 3200 m, labiée, arbuste buissonant, haut. 60 m, fl. roses en grappes dressées, xi 1912, *E. E. Maire* s.n. (holo. E).

Handel-Mazzetti considered this species to be very close to *R. bulleyanus*.

1712. Plectranthus sculponeatus Van. in Bull. Acad. Géog. Bot. 14: 167 (1904); Dunn in Lévl., Fl. Kouy-Tchéou 214 (1914) & in Notes R.B.G. Edinb. 6: 140 (1915); Lévl., Cat. Pl. Yunnan 142 (1916); Hand.-Mazz. in Acta Hort. Gotob. 13: 377 (1939).

Stachys mairei Lévl. in Bull. Acad. Géog. Bot. 22: 236 (1912).

Isodon sculponeatus (Van.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 132 (1929).

Rabdosia sculponeata (Van.) Hara in Journ. Jap. Bot. 47: 200 (1972); Fl. Reipubl. Pop. Sin. 66: 504 (1977).

CHINA. Kweichow, environs de Gan-pin, c. dans la mont., fleurs jaunes en sabot, forte tige de plus 1 metre, 20 ix 1897, *Martin in herb. Bodinier* 1942 (holo. *P. sculponeatus*, E). Yunnan, au tour de Tong-tchouan, 2600 m, pâturages des montagnes, plants vivace en touffes dressées, fl. jaune d'ocre, ix 1911, *E. E. Maire* s.n. (holo. *S. mairei*, E).

1713. Plectranthus ternifolius D. Don, Prodr. Fl. Nep. 117 (1825); Dunn in Notes R.B.G. Edinb. 8: 160 (1913), 6: 138 (1915) & in Lévl., Fl. Kouy-Tchéou 214 (1914); Lévl., Cat. Pl. Yunnan 143 (1916); Rehder in Journ. Arn. Arb. 16: 313 (1935); Doan in Fl. Gén. Indo-Chine 4: 944 (1936).

Elsholtzia lychnitis Lévl. in Fedde, Rep. Sp. Nov. 8: 425 (1910).

Teucrium esquirolii Lévl. in Bull. Acad. Géog. Bot. 22: 236 (1912).
Isodon ternifolius (D. Don) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 140 (1929); Murata in Tonan Ajia Kenkyu 8: 504 (1971).
Rabdosia ternifolia (D. Don) Hara in Journ. Jap. Bot. 47: 201 (1972); Fl. Reipubl. Pop. Sin. 66: 436 (1977).
CHINA. Kweichow, sous Prefect. de Tchen lintcheou, route de Lo pie à Ou la gay, tige de 1.50 m de haut, fleurs blanches ou blanc-bleuâtre, 9 x 1897, *Martin in herb. Bodinier* 1937 (syntype *E. lychnitis*, E); route Tong-tcheou à Pien Yang, xi 1905, *Cavalerie* 2573 (syntype *E. lychnitis*, E); coteaux de Lo fou, rouge, xi 1910, *Esquirol* 2576 (holo. *T. esquirolii*, E).

1714. Pogostemon glaber Benth. in Wall., Pl. Asiat. Rar. 1: 31 (1830); Rehder in Journ. Arn. Arb. 16: 313 (1935); Lauener in Notes R.B.G. Edinb. 38: 483 (1980).
Caryopteris esquirolii Lévl. in Fedde, Rep. Sp. Nov. 9: 449 (1911) & Fl. Kouy-Tchéou 440 (1915).
CHINA. Kweichow, Tchou-ly, 900 m, 1 iii 1910, *Esquirol* 2053 (holo. *C. esquirolii*, E).

1715. Prunella vulgaris L., Sp. Pl. 600 (1753).
P. stolonifera Lévl. & Giraudias in Fedde, Rep. Sp. Nov. 12: 286 (1913); Lévl., Cat. Pl. Yunnan 143 (1916).
P. hispida auct. non Benth., Hand.-Mazz., Symb. Sin. 7: 919 (1936); Fl. Reipubl. Pop. Sin. 65(2): 392 (1977).
CHINA. Yunnan, pâturages des collines à Tong-tchouan, 2500 m, labiée vivace à stolons, fl. roses, vi 1912, *E. E. Maire* s.n. (holo. *P. stolonifera*, E).

1716. Rostrinucula sinensis (Hemsl.) C. Y. Wu in Acta Phytotax. Sin. 10: 233, t. 43 (1965); Fl. Reipubl. Pop. Sin. 66: 350, t. 71 (1977).
Leucosceptrum sinense Hemsl. in Journ. Linn. Soc. (Bot.) 26: 310 (1890); Dunn in Notes R.B.G. Edinb. 8: 160, 171 (1913), 6: 192 (1917) & in Lévl., Fl. Kouy-Tchéou 209 (1914); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 301 (1929); Rehder in Journ. Arn. Arb. 16: 311 (1935); C. Y. Wu in Acta Phytotax. Sin. 8: 4 (1959); Kitamura & Murata in Acta Phytotax. Geobot. 20: 168 (1962).
Elsholtzia cavaleriei Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 424 (1910).
Leucosceptrum bodinieri Lévl. & Van. in Fedde, Rep. Sp. Nov. 9: 224 (1911).
CHINA. Kweichow, environs de Tsin-gay, bord d'une rivière, sous arbrisseau, fleurs roses, 20 ix 1899, *Bodinier* 2709; environs de Tou-chan, sous arbrisseau, ix 1899, *Cavalerie in herb. Bodinier* 2710 (syntypes *Elsholtzia cavaleriei* & *Leucosceptrum bodinieri*, E).

1717. Salvia brevilabra Franch. in Bull. Soc. Phil. Paris, sér. 8, 3: 149 (1891); Dunn in Notes R.B.G. Edinb. 8: 164 (1913) & 6: 164 (1915); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 162 (1929); Stib. in Acta Hort. Gotob. 9: 115 (1934); Fl. Reipubl. Pop. Sin. 66: 89, t. 15 (1977).
S. blinii Lévl. in Fedde, Rep. Sp. Nov. 9: 219 (1911).
CHINA. Szechuan (Thibet oriental), Ta-Tsien-Lou, principauté de Kiala, 1893, *Soulié* 97 (holo. *S. brevilabra* P, iso. E; holo. *S. blinii* E; iso. K, P).

Because of the asymmetric leaf shape and lobing, the white indumentum on the underside of the leaves, and the very variable size of the corolla and calyx, it is

possible that *S. brevilabra* is a hybrid between *S. przewalskii* Maxim. and *S. campanulata* Wall. s.l. Both the Kew and Edinburgh specimens of *Soulié* 97 are rather immature.

1718. Salvia cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 8: 422 (1910); Dunn in Notes R.B.G. Edinb. 8: 165 (1913), 6: 165 (1915) & in Lévl., Fl. Kouy-Tchéou 214 (1914), pro syn. sub *S. japonica* Thunb; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 172 (1929), pro syn. sub *S. japonica* var. *fortunei* (Benth.) Kudo; Stib. in Acta Hort. Gotob. 10: 60 (1935); Fl. Reipubl. Pop. Sin. 66: 152 (1977).

S. betonicoides Lévl. in Fedde, Rep. Sp. Nov. 9: 421 (1910) & Fl. Kouy-Tchéou 214 (1914), pro syn. sub *S. japonica*; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 172 (1929), pro syn. sub *S. japonica* Thunb. f. *chinensis* (Benth.) Kudo.

S. marchandii Lévl. in Fedde, Rep. Sp. Nov. 12: 533 (1913).

CHINA. Kweichow, Pin-fa, Kouy-Yang, v 1905, *Cavalerie* s.n. (holo. *S. cavaleriei*, E); Pin-fa, fleurs violettes, 6 v 1902, *Cavalerie* 824 (syntype *S. betonicoides*, E); sine loc., vi 1905, fleur rouge sombre, *Esquirol* 320 (syntype *S. betonicoides*, E); bords de l'arroyo de Tsin-Tchen, fleur rouge, v 1911, *Esquirol* 3148 (holo. *S. marchandii*, E).

1719. Salvia cavaleriei Lévl. var. **simplicifolia** Stib. in Acta Hort. Gotob. 10: 61 (1935); Fl. Reipubl. Pop. Sin. 66: 154 (1977).

S. delavayi Lévl. in Fedde, Rep. Sp. Nov. 9: 220 (1911); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 175 (1929), pro syn. sub *S. scapiformis* Hance; Fl. Taiwan 4: 519 (1978), pro syn. sub *S. scapiformis*.

S. japonica auct. non Thunb.; Dunn in Notes R.B.G. Edinb. 8: 164 (1913), 6: 165 (1915) & in Lévl., Fl. Kouy-Tchéou 214 (1914); Lévl., Cat. Pl. Yunnan 143 (1916).

CHINA. Yunnan, coteaux ombragés de Long-Ki, v 1894, *Delavay* 5156 (typus *S. delavayi*, P).

More detailed investigation might result in treating *S. cavaleriei* s.l. as a form of *S. scapiformis*.

1720. Salvia hians [Royle ex] Benth. in Hook., Bot. Misc. 3: 373 (1833); Lévl., Cat. Pl. Yunnan 143 (1916).

S. mairei Lévl. in Fedde, Rep. Sp. Nov. 13: 344 (1914) — non 1913.

S. kiaometiensis Lévl. in Bull. Acad. Géog. Bot. 25: 25 (1915); Stib. in Acta Hort. Gotob. 9: 134 (1934) & in Hand.-Mazz., Symb. Sin. 7: 929 (1936); Fl. Reipubl. Pop. Sin. 66: 129 (1977).

CHINA. Yunnan, pâturages des mont. à Kiao-me-ti, 3200 m, Boraginée vivace, tomenteuses, en touffes, fleurs faunes, viii 1913, *E.E. Maire* s.n. (holo. *S. kiaometiensis* & *S. mairei* (1914) — non 1913, E).

It might be more satisfactory to regard *S. kiaometiensis* as a subspecies of *S. hians* although the only significant differences are the flower colour and the larger floral bracts of the former. Due to lack of material of *S. kiaometiensis* no new combination is made.

1721. Salvia mairei Lévl. in Fedde, Rep. Sp. Nov. 12: 532 (1913) & Cat. Pl. Yunnan 143 (1916) — non 1914; Stib. in Acta Hort. Gotob. 9: 125 (1934); Fl. Reipubl. Pop. Sin. 66: 110 (1977).

S. aerea Lévl. in Fedde, Rep. Sp. Nov. 12: 532 (1913) & Cat. Pl. Yunnan 143 (1916); Stib. in Acta Hort. Gotob. 9: 116 (1934) & in Hand.-Mazz., Symb. Sin. 7: 928 (1936); Fl. Reipubl. Pop. Sin. 66: 90, t. 16 (1977).

S. leclerei Lévl. in Fedde, Rep. Sp. Nov. 12: 532 (1913) & Cat. Pl. Yunnan 143 (1916).

S. calthaefolia Lévl. in Fedde, Rep. Sp. Nov. 13: 343 (1914) & Cat. Pl. Yunnan 143 (1916).

CHINA. Yunnan, à mi-mont de Ie-ma-tchouan, 3000 m, Boraginée vivace rugueuse, ciliée, fl. bleues, vii 1912, *E.E. Maire* s.n. (holo. *S. mairei*, E); montagnes arides derrière Tong-tchouan, 2700 m, Boraginée vivace, fl. blanches, vi 1912, *E.E. Maire* s.n. (syntype *S. aerea*, E); montagnes incultes, arides, pierreuses de Lou-pou, 3000 m, Boraginée vivace, fl. blanches ou chocolats, v 1912, *E.E. Maire* s.n. (syntype *S. aerea*, E); pâturages du plateau de Ta-hai, 3200 m, Boraginée vivace, toute ciliée, fl. blanc-rose, vii 1912, *E.E. Maire* s.n. (holo. *S. leclerei*, E); sommet du Io-chan*, 3500 m, Boraginée vivace, fl. bleues, vi 1913, *E.E. Maire* s.n. (holo. *S. calthaefolia*, E).

The specimens which have been called *S. mairei*, *S. leclerei* and *S. calthaefolia* are all immature, whilst *S. aerea* represents the mature state. All of the type specimens come from the area to the north of Tung Ch'uan in NE Yunnan and SW Kweichow.

Further study in the group might result in reducing *S. mairei* to a subspecies of *S. przewalskii* Maxim., whilst yet another species *S. evansiana* Hand.-Mazz. appears to be only a slightly more robust and darker form of *S. mairei*.

1722. Salvia maximowicziana Hemsl. in Journ. Linn. Soc. (Bot.) 26: 285 (1890); Dunn in Notes R.B.G. Edinb. 8: 164 (1913) & 6: 163 (1915); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 164 (1929); Stib. in Acta Hort. Gotob. 9: 116 (1934); Fl. Reipubl. Pop. Sin. 66: 94 (1977).

S. fargesii Lévl. in Fedde, Rep. Sp. Nov. 9: 220 (1911).

CHINA. Szechuan, district de Tchen-Kéou-Tin, *Farges* 31 (typus *S. fargesii* — n.v.).

1723. Salvia miltiorrhiza Bunge in Enum. Pl. Chin. Bor. 124 (1833); Dunn in Notes R.B.G. Edinb. 8: 164 (1913), 6: 162 (1915) & in Lévl., Fl. Kouy-Tchéou 215 (1914); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 166 (1929); Stib. in Acta Hort. Gotob. 9: 142 (1934).

S. anomala Van. in Bull. Acad. Géog. Bot. 14: 190 (1904).

S. charbonnelii Lévl. in Fedde, Rep. Sp. Nov. 9: 220 (1911).

S. miltiorrhiza Bunge var. *charbonnelii* (Lévl.) C. Y. Wu in Fl. Reipubl. Pop. Sin. 66: 148 (1977).

CHINA. Pekin, dans les haies, au tombeau des Mîn, près de Pekin, belles fleurs bleues, x 1887, *Bodinier* 144 (holo. *S. anomala*, E); Hopei (Pé-Tché-Ly), Fou-Ping, fleurs roses, viii 1910, *Chanet* 546 (holo. *S. charbonnelii*, E).

*From Part IX of the Catalogue onwards (*Notes R.B.G. Edinb.* 34: 337, 1976) Io-chan was placed under Kweichow as it was thought to be Yaochan (26° 43′ N, 104° 13′ E). However, as a result of information from botanists at Kunming, this Maire locality is now thought to be in NE Yunnan, near Qiaojia (26° 55′ N, 103° 05′ E).

S. miltiorrhiza typically has fleshy pinnate to trifoliate leaves with somewhat acute serrations and is usually fairly hirsute. *S. anomala* and *S. charbonnelii* both exhibit dimorphic (simple and trifoliate) leaves and the leaf serrations are broad and obtuse on the simple leaves and more acute on the trifoliate leaves.

1724. Salvia plectranthoides Griff., Notulae 4: 199 (1854) & Ic. Pl. Asiat. t. 450 (1854); Stib. in Acta Hort. Gotob. 10: 56 (1935) & in Hand.-Mazz., Symb. Sin. 7: 930 (1936); Fl. Reipubl. Pop. Sin. 66: 158 (1977).

S. tuberifera Lévl. in Fedde, Rep. Sp. Nov. 8: 421 (1910); Dunn in Notes R.B.G. Edinb. 8: 165 (1913), 6: 165 (1915) & in Lévl., Fl. Kouy-Tchéou 214 (1914), pro syn. sub *S. japonica* Thunb.; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 170 (1929), pro syn. sub *S. japonica* Thunb.

CHINA. Kweichow, Pien-Yang, fleurs rose-violettes, iv 1906, *Cavalerie* 2743 (holo. *S. tuberifera*, E).

S. plectranthoides is very close to *S. japonica* and should possibly be considered as a subspecies of the latter.

1725. Salvia prattii Hemsl. in Journ. Linn. Soc. (Bot.) 29: 316 (1892); Stib. in Acta Hort. Gotob. 9: 112 (1934); Fl. Reipubl. Pop. Sin. 66: 80 (1977).

S. souliei Lévl. in Fedde, Rep. Sp. Nov. 9: 219 (1911); Dunn in Notes R.B.G. Edinb. 6: 163 (1915), pro syn. sub *S. hians* Royle.

S. prattii Hemsl. var. *souliei* (Lévl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 164 (1929).

CHINA. Szechuan (Thibet oriental), Ta-Tsien-Lou, 1893, *Soulié* 600 (typus *S. souliei*, K, P).

1726. Salvia przewalskii Maxim. in Bull. Soc. Acad. Sci. St. Pétersb. 27: 526 (1882); Dunn in Notes R.B.G. Edinb. 8: 165 (1913) & 6: 163 (1915); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 163 (1929).

S. thibetica Lévl. in Fedde, Rep. Sp. Nov. 9: 219 (1911).

S. feddei Lévl. in Fedde, Rep. Sp. Nov. 12: 532 (1913).

S. labellifera Lévl. in Fedde, Rep. Sp. Nov. 12: 532 (1913) & Cat. Pl. Yunnan 143 (1916).

S. przewalskii Maxim. var. *feddei* (Lévl.) Lévl., Cat. Pl. Yunnan 143 (1916).

S. przewalskii Maxim. var. *mandarinorum* (Diels) Stib. in Acta Hort. Gotob. 9: 115 (1934); Fl. Reipubl. Pop. Sin. 66: 88 (1977).

CHINA. Szechuan (Thibet oriental), Ta-Tsien-Lou, principauté de Kiala, 1893, *Soulié* 203, (typus *S. thibetica*, K, P); Yunnan, haut plateau de Ta-hai, 3200 m, vivace, fleurs roses, vii 1912, *E.E. Maire* s.n. (holo. *S. feddei*, E); haut plateau de Ta-hai, 3200 m, pâturages, Boraginée vivace, fl. roses, vii 1912, *E.E. Maire* s.n. (holo. *S. labellifera*, E).

1727. Salvia tricuspis Franch. in Bull. Soc. Philom. Paris sér. 8 (3): 150 (1891); Dunn in Notes R.B.G. Edinb. 8: 165 (1913) & 6: 163 (1915); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 168 (1929); Stib. in Acta Hort. Gotob. 9: 137 (1934); Fl. Reipubl. Pop. Sin. 66: 134 (1977).

S. marretii Lévl. in Fedde, Rep. Sp. Nov. 9: 219 (1911).

CHINA. Szechuan (Thibet oriental), Ta-Tsien-Lou, principauté de Kiala, 1893, *Soulié* 627 (iso. *S. marretii*, E).

1728. Salvia yunnanensis Wright in Kew Bull. 1896: 164 (1896); Dunn in Notes R.B.G. Edinb. 8: 164 (1913), 6: 162 (1915) & in Lévl., Fl. Kouy-tchéou 215 (1914); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 167 (1929); Stib. in Acta Hort. Gotob. 9: 141 (1934); Fl. Reipubl. Pop. Sin. 66: 144 (1977).

S. bodinieri Van. in Bull. Acad. Géog. Bot. 14: 191 (1904).

S. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 8: 421 (1910).

CHINA. Kweichow, mont. de Hin-y-hien, commun dans les pentes rocailleuses, belles fleurs bleues, 9-12 iv 1897, *Bodinier* 1504 (holo. *S. bodinieri*, E); Se-tse-fen, fleur rosâtre, ix 1904, *Esquirol* 230 (syntype *S. esquirolii*, E); Lieng-tchang-po, fleur blanche, panachée violet, vi 1905, *Esquirol* 572 (syntype *S. esquirolii*, E).

1729. Scutellaria amoena Wright in Kew Bull. 1896: 164 (1896); Dunn in Notes R.B.G. Edinb. 8: 167 (1913) & 6: 176 (1915); Lévl., Cat. Pl. Yunnan 143 (1916); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 261 (1929); Fl. Reipubl. Pop. Sin. 65 (2): 192 (1977).

S. tuberosa Van. in Bull. Acad. Géog. Bot. 14: 188 (1904).

S. hypericifolia Lévl. in Fedde, Rep. Sp. Nov. 9: 221 (1911).

CHINA. Yunnan, mont. de Ma Kay à Se-tsong-hien, dans la mont., bois, pentes herbeuses, fleurs d'un beau bleu, 4 iv 1897, *Bodinier* s.n. (holo. *S. tuberosa*, E); Szechuan (Thibet oriental), Ta-Tsien-Lou, principauté de Kiala, 1893, *Soulié* 526 or 840 (syntype *S. hypericifolia*, E).

The Edinburgh Soulié specimen bears the number '526-840' but it is not known which of these numbers the specimen represents.

1730. Scutellaria barbata D. Don, Prodr. Fl. Nepal 109 (1825); Ohwi in Acta Phytotax. Geobot. 4: 32 (1935); Hara in Bull. Univ. Mus. Univ. Tokyo 2: 117 (1971); Fl. Reipubl. Pop. Sin. 65 (2): 229 (1977).

S. rivularis [Wall ex] Benth. in Wall., Pl. Asiat. Rar. 1: 66 (1830); Benth. Labiatae Gen. & Sp. 438 (1834); Dunn in Notes R.B.G. Edinb. 8: 166 (1913), 6: 173 (1915) & in Lévl., Fl. Kouy-Tchéou 215 (1914); Doan in Fl. Gén. Indo-Chine 4: 1005 (1936); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 268 (1929).

S. komarovii Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 402 (1910); Nakai in Bot. Mag. Tokyo 35: 197 (1921) & in Bull. Nat. Sci. Mus. Tokyo no. 31: 100 (1952); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 256 (1929).

S. cavaleriei Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 402 (1910).

KOREA. In humidis Taikou, 30 v 1906, *Faurie* 819 (holo. *S. komarovii*, E).

CHINA. Kweichow, Gan-pin, fl. viol., 10 v 1904, *Cavalerie* 2105 (syntype *S. cavaleriei*, E); Kiangsu, *d'Argy* s.n. (syntype *S. cavaleriei*, E).

1731. Scutellaria discolor [Wall. ex] Benth. in Wall. Pl. Asiat. Rar. 1: 66 (1830); Hand.-Mazz., Symb. Sin. 7: 914 (1936); Fl. Reipubl. Pop. Sin. 65 (2): 136 (1977).

S. salvia Lévl. in Bull. Acad. Géog. Bot. 24: 252 (1914) & Cat. Pl. Yunnan 148, t.36 (1916); Dunn in Lévl., Fl. Kouy-Tchéou 216 (1914).

CHINA. Kweichow, Goui reou, 600 m, ix 1912, *Esquirol* 3694 (holo. *S. salvia*, E).

Scutellaria esquirolii Lévl. & Van. = **Melampyrum esquirolii** (Lévl. & Van.) Hand.-Mazz. (Scrophulariaceae).

1732. Scutellaria franchetiana Lévl. in Fedde, Rep. Sp. Nov. 9: 221 (1911) & in Cat. Pl. Yunnan 146, t.35 (1916); Dunn in Notes R.B.G. Edinb. 6: 174 (1915); Fl. Reipubl. Pop. Sin. 65 (2): 210 (1967).

S. angulosa [Benth. ex] Wall. var. *franchetiana* (Lévl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 271 (1929).

CHINA. Szechuan, district de Tchen-Kéou-Tin, *Farges* 1133 (typus — n.v.).

1733. Scutellaria guilielmii A. Gray in Proc. Amer. Assoc. Adv. Sci. 21: 25 (1872); Koidz., Fl. Symb. Orient. Asiat. 94 (1930); Hara, Enum. Sperm. Jap. 1: 226 (1948).

S. ferrei Lévl. in Fedde, Rep. Sp. Nov. 9: 246 (1911); Matsum., Ind. Pl. Jap. 2 (2): 550 (1912); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 309 (1929).

JAPAN. Ryukyus, île Amanie-Oshema, environs de Naze, iii-iv 1897, *J. R. Ferrié* 113 (holo. *S. ferrei*, E).

1734. Scutellaria mairei Lévl. in Fedde, Rep. Sp. Nov. 11: 298 (1912) & in Cat. Pl. Yunnan 146 (1916); Hand.-Mazz., Symb. Sin. 7: 914 (1936); Fl. Reipubl. Pop. Sin. 65 (2): 184, t.39, f.8 (1977).

S. hebeclada W. W. Sm. in Notes R.B.G. Edinb. 10: 65 (1917).

CHINA. Yunnan, collines calcaires de Pan-pien-kai, 2550 m, Scrophularinée vivace, dressée, fl. partie superieure rose, infer. blanche, ix 1911, *E.E. Maire* s.n. (holo. *S. mairei*, E).

1735. Scutellaria obtusifolia Hemsl. var. **trinervata** (Van.) C. Y. Wu & H. W. Li in Fl. Reipubl. Pop. Sin. 65 (2): 147 (1977).

S. trinervata Van. in Bull. Acad. Géog. Bot. 14: 189 (1904); Dunn in Lévl., Fl. Kouy-Tchéou 216 (1914) & in Notes R.B.G. Edinb. 6: 175 (1915); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 260 (1929), pro syn. sub *S. formosana* N.E. Br.; Hand.-Mazz. in Acta Hort. Gotob. 13: 340 (1939).

S. vaniotiana [Lévl. ex] Dunn in Notes R.B.G. Edinb. 6: 173 (1915), in clavi.

CHINA. Kweichow, environs de Tou-chan, vi 1899, *Cavalerie in herb. Bodinier* s.n. (holo. *S. trinervata*, E); Yang-Kia Tchang, près des grottes, fleurs violet-pâle, 28 vii 1908, *Esquirol* 291 (holo. *S. vaniotiana*, E).

1736. Scutellaria pekinensis Maxim. var. **transitra** (Makino) Hara, Enum. Sperm. Jap. 1: 229 (1948).

S. transitra Makino in Bot. Mag. Tokyo 18: 70 (1904).

S. glechomaefolia Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 401 (1910).

S. multibrachiata Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 410 (1910).

?*S. fauriei* Lévl. & Van. in Fedde, Rep. Sp. Nov. 8: 410 (1910); Nakai in Bot. Mag. Tokyo 35: 196 (1921) & in Bull. Nat. Sci. Mus. Tokyo no. 31: 100 (1952); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 259 (1929).

KOREA. Quelpaert in herbidis, vi 1907, *Faurie* 1929 (holo. *S. glechomaefolia*, E); in sylvis Hallaisan, vi 1909, *Taquet* 3088 (holo. *S. multibrachiata*, E); in sylvis, vi 1907, *Faurie* 1943 (holo. *S. fauriei*, E).

1737. Scutellaria pekinensis Maxim. var. **ussuriensis** (Regel) Hand.-Mazz. in Acta Hort. Gotob. 13: 339 (1939); Hara, Enum. Sperm. Jap. 1: 228 (1948); Ohwi, Fl. Jap. (Engl. ed) 770 (1965); Fl. Reipubl. Pop. Sin. 65 (2): 182 (1977).

S. japonica Maxim. var. *ussuriensis* Regel in Mém. Acad. Imp. Sci. St. Pétersb. sér. 7, 4 (4): 118 (1861), p.p.

S. dentata Lévl. in Fedde, Rep. Sp. Nov. 9: 246 (1911); Nakai in Bull. Nat. Sci. Mus. Tokyo no. 31: 100 (1952).

S. ussuriensis (Regel) Kudo in Kudo & Yoshimi, Rep. Veg. Tomakomai Forest 53 (1916) & in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 257 (1929).

S. transitra Makino var. *ussuriensis* (Regel) Hara in Bot. Mag. Tokyo 51: 142, f. 16 d–e (1937).

JAPAN. Plaine de Sapporo, 15 ix 1888, *Faurie* 3275 (holo. *S. dentata*, E).

1738. Scutellaria sessilifolia Hemsl. var. **delavayi** (Lévl.) Doan in Fl. Gén. Indo-Chine 4: 1000 (1936).

S. delavayi Lévl. in Fedde, Rep. Sp. Nov. 9: 221 (1911); Fl. Reipubl. Pop. Sin. 65(2): 220, t. 47 (1977).

S. sessilifolia auct. non Hemsl.; Lévl., Cat. Pl. Yunnan 146 (1916); Dunn in Notes R.B.G. Edinb. 8: 166 (1913) & 6: 174 (1915); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 270 (1929).

CHINA. Yunnan, Tchen-Fong-Chan, bois de montagnes, vi 1894, *Delavay* 5122 (typus *S. delavayi*, E).

Var. *delavayi* is more robust and has leaves more than twice as large as typical *S. sessilifolia* of which I have seen only material from the type locality of Mt. Omei.

1739. Scutellaria strigillosa Hemsl. in Journ. Linn. Soc. (Bot.) 26: 297 (1890); Fl. Reipubl. Pop. Sin. 65(2): 234 (1977).

S. scordifolia [Fisch. ex] Schrank var. *obtusifolia* Lévl. in Fedde, Rep. Sp. Nov. 8: 280 (1910).

S. taquetii Lévl. in Fedde, Rep. Sp. Nov. 8: 402 (1910); Nakai in Bull. Nat. Sci. Mus. Tokyo no. 31: 100 (1952), pro syn. sub *S. strigillosa* var. *puberula* (Kom.) Nakai; Juz. in Fl. URSS 20: 100, t.5, f.4 (1954).

S. scordifolia [Fisch. ex] Schrank var. *pubescens* auct. non Miq.; Nakai in Bot. Mag. Tokyo 35: 197 (1935).

SAKHALIN. In littore Korsakof, viii 1908, *Faurie* 705 (holo. var. *obtusifolia*, E).
KOREA. Quelpaert, in herbidis Tpyengeni, vi 1909, *Taquet* 3089 (holo. *S. taquetii* E, iso. LE).

The type of *S. taquetii* has not been compared with that of *S. strigillosa* and it may be that *Fl. URSS* is correct in separating these two species.

1740. Scutellaria tayloriana Dunn in Notes R.B.G. Edinb. 8: 166 (1913).

S. indica L. var. *stolonifera* Van. in Fedde, Rep. Sp. Nov. 5: 100 (1908).

HONG KONG. Tay mo chan, dans les rochers au sommet de la mont., 7 v 1895, fleurs roses-pourprées, *Bodinier* 1176 (holo. var. *stolonifera*, E).

1741. Scutellaria tenax W. W. Sm. in Notes R.B.G. Edinb. 12: 222 (1920); Fl. Reipubl. Pop. Sin. 65(2): 184 (1977).

S. veronicifolia Lévl., Cat. Pl. Yunnan 146, t.37 (1916) — non Rydb. (1909); Hand.-Mazz., Symb. Sin. 7: 913 (1936) & in Acta Hort. Gotob. 13: 342 (1939).

CHINA. Yunnan, pâturages de la plaine à Kiao-Kia, 400 m, plantes vivaces, sous ligneuse, à demi couchée, fl. bleues, vi 1912, *E.E. Maire* s.n. (syntype *S. veronicifolia*, E); collines herbeuses de Ta-tchai, 600 m, plante vivace, toujours verte, fl. bleues, v 1912, *E.E. Maire* s.n. (syntype *S. veronicifolia*, E).

1742. Scutellaria violacea Heyne var. **sikkimensis** Benth. in Hook. f., Fl. Brit. Ind. 4: 668 (1885); Hand.-Mazz. in Acta Hort. Gotob. 13: 340 (1939).

S. coleifolia Lévl. in Fedde, Rep. Sp. Nov. 13: 343 (1914) & Cat. Pl. Yunnan 143, f. 34 (1916); Fl. Yunnan. 1: 545, t.130, f. 1–7 (1977); Fl. Reipubl. Pop. Sin. 65(2): 156, t.33, f. 4–11 (1977).

CHINA. Yunnan, collines de Ma-Li-Ouan, 2550 m, sous sapinières, labiée vivace, feuil. glabres, violacées endessous, fl. blanc. violacé (rare), x 1913, *E.E. Maire* s.n. (holo. *S. coleifolia*, E).

1743. Scutellaria yunnanensis Lévl. in Fedde, Rep. Sp. Nov. 9: 221 (1911) & Cat. Pl. Yunnan 146 (1916); Dunn in Notes R.B.G. Edinb. 6: 175 (1915); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 254 (1929); Fl. Reipubl. Pop. Sin. 65(2): 148 (1977).

CHINA. Yunnan, Lou Ki, lieux pais et ombragés, iv 1894, *Delavay* 4983 (typus *S. yunnanensis* — n.v.).

1744. Solenostemon scutellarioides (L.) Codd in Bothalia 11: 439 (1975).

Coleus scutellarioides (L.) Benth. in Wall., Pl. Asiat. Rar. 2: 16 (1830-31).

Stenogyne fauriei Lévl. in Fedde, Rep. Sp. Nov. 10: 150 (1911).

HAWAIIAN (SANDWICH) ISLANDS: Hawaii, Milo, v 1909, *Faurie* 911 (iso. *S. fauriei*, BM).

1745. Stachys chinensis [Bunge ex] Benth., Labiat. Gen. & Sp. 544 (1834); Dunn in Notes R.B.G. Edinb. 8: 167 (1913) & 6: 180 (1915); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 187 (1929); Hand.-Mazz. in Acta Hort. Gotob. 13: 348 (1939), p.p. excl. syn. *S. franchetiana* Lévl.; Fl. Reipubl. Pop. Sin. 66: 13 (1977).

S. chanetii Lévl. in Fedde, Rep. Sp. Nov. 9: 222 (1911).

CHINA. Hopei (Tché-Ly), Ting-Tchéou, bord des fossés, v 1909, *Chanet* 407 (holo. *S. chanetii*, E).

1746. Stachys japonica Miq. in Ann. Mus. Bot. Lugd.-Bat. 2: 111 (1865).

S. baicalensis [Fisch. ex] Benth. var. *japonica* (Miq.) Kom. in Acta Hort. Petrop. 25: 371 (1907); Nakai in Bot. Mag. Tokyo 35: 200 (1921).

S. affinis Bunge var. *glabrata* Lévl. in Fedde, Rep. Sp. Nov. 9: 322 (1911).

KOREA. Kan-Ouen-To, vii 1901, *Faurie* 490 (typus var. *glabrata* — n.v.).

1747. Stachys kouyangensis (Van.) Dunn in Notes R.B.G. Edinb. 8: 167 (1913), 6: 180 (1915) & in Lévl., Fl. Kouy-Tchéou 216 (1914); Lévl., Cat. Pl. Yunnan 146 (1916); Doan in Fl. Gén. Indo-Chine 4: 1029 (1936); Kudo in Mem. Fac. Sci.

Agric. Taihoku Imp. Univ. 2: 191 (1929), pro syn. sub *S. sieboldii* Miq.; Hand.-Mazz. in Acta Hort. Gotob. 13: 347 (1939), pro syn. sub *S. sieboldii*; C. Y. Wu in Acta Phytotax. Sin. 10: 227 (1965); Fl. Reipubl. Pop. Sin. 66: 25 (1977).

Lamium kouyangense Van. in Bull. Acad. Géog. Bot. 14: 175 (1904).

CHINA. Kweichow, environs de Kouy-yang, plaine et mont., cultures, bord des routes, fleurs rouges pourpres, (item. environs de Kouy-yang, plaine, 1 vi 1898), 21 vii 1897, *Bodinier* 1700 (holo. *L. kouyangense*, E).

S. kouyangensis bears some similarity to *S. sieboldii* and could be synonymous with it.

1748. Stachys kouyangensis (Van.) Dunn var. **franchetiana** (Lévl.) C. Y. Wu in Acta Phytotax. Sin. 10: 228 (1965); Fl. Reipubl. Pop. Sin. 66: 27 (1977).

S. franchetiana Lévl. in Fedde, Rep. Sp. Nov. 9: 246 (1911); Dunn in Notes R.B.G. Edinb. 8: 167 (1913) & 6: 180 (1915), pro syn. sub *S. kouyangensis*; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 191 (1929), pro syn. sub *S. sieboldii* Miq.; Hand.-Mazz. in Acta Hort. Gotob. 13: 348 (1939), pro syn. sub *S. chinensis* Bunge.

CHINA. Szechuan (Thibet), principauté de Kiala, Tongolo, 1893, *Soulié* 727 (holo. *S. franchetiana*, E).

1749. Stachys oblongifolia Benth. in Wall., Pl. Asiat. Rar. 1: 64 (1830); Dunn in Notes R.B.G. Edinb. 8: 169 (1913) & 6: 181 (1915) & in Lévl., Fl. Kouy-Tchéou 216 (1914), p.p.; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 187 (1929); Doan in Fl. Gén. Indo-Chine 4: 1028 (1936); Fl. Reipubl. Pop. Sin. 66: 15 (1977).

S. martini Van. in Bull. Acad. Géog. Bot. 14: 187 (1904).

Leucas acloquei Lévl. in Fedde, Rep. Sp. Nov. 9: 222 (1911).

CHINA. Kweichow, sous Pref. de Tchen-lin-tchéou, route de Lo-pie à Ou la gay, dans les champs incultes, fleurs pourpres (item route de Tsin-gay, 24 vi 1899), 9 ix 1897, *Martin & Bodinier* 1945 (holo. *S. martini*, E); Lo-fou, cultures, blanc-pourpré, iii 1909, *Cavalerie* 3438 (holo. *L. acloquei*, E).

1750. Teucrium bidentatum Hemsl. in Journ. Linn. Soc. (Bot.) 26: 312 (1890); Hand.-Mazz. in Acta Hort. Gotob. 13: 363 (1939); Chow in Acta Phytotax. Sin. 10: 345 (1965); Fl. Reipubl. Pop. Sin. 65(2): 52 (1977).

Plectranthus hanceiformis Lévl., Cat. Pl. Yunnan 141 (1916).

CHINA. Yunnan, bord des ruisseaux Li-tse-pin, 800 m, plante vivace en touffes dressées, fl. violettes, vii 1912, *E.E. Maire* s.n. (holo. *P. hanceiformis*, E).

1751. Teucrium ornatum Hemsl. in Journ. Linn. Soc. (Bot.) 26: 313 (1890); Dunn in Notes R.B.G. Edinb. 8: 154 (1913) & 6: 192 (1917); Lévl., Cat. Pl. Yunnan 146 (1916).

Orthosiphon delavayi Lévl. in Fedde, Rep. Sp. Nov. 9: 218 (1911).

Kinostemon ornatum (Hemsl.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 300 (1929); Chow in Acta Phytotax. Sin. 10: 246 (1965); Fl. Reipubl. Pop. Sin. 65(2): 23 (1977).

CHINA. Yunnan, Tchen-Fong-Chan, bois des hautes montagnes, vii 1894, *Delavay* 5051 (typus *O. delavayi* — n.v.).

1752. Teucrium palmatum [Benth. ex] Hook. f., Fl. Brit. Ind. 4: 702 (1885); Rehder in Journ. Arn. Arb. 18: 244, 361 (1937); Lauener in Notes R.B.G. Edinb. 38: 483 (1980).

Caryopteris mairei Lévl., Sert. Yunnan 3 (1916) & Cat. Pl. Yunnan 298 (1917).

Rubiteucris palmata (Benth.) Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 297 (1929); C. Y. Wu in Acta Phytotax. Geobot. 8: 1 (1959); Fl. Reipubl. Pop. Sin. 65(2): 20 (1977).

CHINA. Yunnan, haut plateau de Ta-hai, 3200 m, bord des eaux, labiée vivace dressée, fl. grises, ou roses ou rouges, vii 1912, *E.E. Maire* s.n. (holo. *C. mairei*, E).

1753. Teucrium quadrifarium Buch.-Ham. in D. Don. Prodr. Fl. Nep. 108 (1825); Dunn in Notes R.B.G. Edinb. 8: 171 (1913) & 6: 191 (1917), & in Lévl., Fl. Kouy-Tchéou 217 (1914) p.p. excl. syn. *T. kouytchense* Lévl.; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 292 (1929), p.p. excl. *T. kouytchense*; Doan in Fl. Gén. Indo-Chine 4: 1038 (1936), p.p. excl. *T. kouytchense*; Chow in Acta Phytotax. Sin. 10: 336 (1965), p.p. excl. *T. kouytchense*; Murata in Tonan Ajia Kenkyu 8: 516 (1971), p.p. excl. *T. kouytchense*; Fl. Reipubl. Pop. Sin. 65(2): 42 (1977), p.p. excl. *T. kouytchense*.

T. fulvo-aureum Lévl. in Fedde, Rep. Sp. Nov. 8: 426 (1910).

CHINA. Kweichow, *Esquirol* 765 (holo. *T. fulvo-aureum*, E).

1754. Teucrium quadrifarium Buch.-Ham. var. **kouytchense** (Lévl.) McKean, **comb. & stat. nov.**

T. kouytchense Lévl. in Fedde, Rep. Sp. Nov. 8: 426 (1910).

T. quadrifarium auct. non Buch.-Ham.; Dunn in Notes R.B.G. Edinb. 8: 171 (1913), 6: 191 (1917) & in Lévl., Fl. Kouy-Tchéou 217 (1914); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 292 (1929); Chow in Acta Phytotax. Sin. 10: 336 (1965); Fl. Reipubl. Pop. Sin. 65(2): 42 (1977).

CHINA. Kweichow, environs de Kouy-yang, la mont., dans les cultures, fleur rose-pourpre, 31 vii 1897 (item, à Gan-pin, 26 vii 1897; item, Touchan, vii 1899 — J.C.) *Martin in herb. Bodinier* 1735 (left-hand specimen only, lecto. E); Pin-fa, bois, fleur blanche, 23 vii 1902, *Cavalerie* 92 p.p. (syntype, E); Pin-fa, fl. blanche-rose, 3 vii 1902, *Cavalerie* 822 (syntype, E); Ma-jo, blanche, 9 ix 1907, *Cavalerie* 3172 (syntype, E).

Handel-Mazzetti has already pointed out in a note attached to *Martin* 1735 that the two specimens on the sheet are different. The right-hand one, which is glandular-hairy and has orbicular-cordate bracts, is *T. quadrifarium*.

Most authors have included *T. kouytchense* as a synonym of *T. quadrifarium*, but it is treated here as a variety of that species because var. *kouytchense* differs in having ± glandular hairs and in its bracts being narrow-lanceolate rather than orbicular-cordate as in the typical variety.

1755. Teucrium simplex Van. in Bull. Acad. Géog. Bot. 14: 186 (1904); Dunn in Lévl., Fl. Kouy-Tchéou 217 (1914), p.p. excl. *Cavalerie* 3055; Lévl., Cat. Pl. Yunnan 146 (1916); Dunn in Notes R.B.G. Edinb. 6: 191 (1917); Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 293 (1929); Hand.-Mazz., Symb. Sin. 7: 912 (1936); Chow in Acta Phytotax. Sin. 10: 341, t. 70, f. 7–12 (1965); Fl. Reipubl. Pop. Sin. 65(2): 48, t. 7, f. 7–12 (1977).

CHINA. Kweichow, environs de Gan-pin, sur les tertres, fleur blanche, 11 vii 1897, *Martin in herb. Bodinier* 1778 (holo. E).

Cavalerie 3055 cited in *Flore du Kouy-Tchéou* is different from the type specimen and appears to be *T. labiosum* C. Y. Wu & Chow.

1756. Teucrium viscidum Bl. var. **nepetoides** (Lévl.) C. Y. Wu & Chow in Acta Phytotax. Sin. 10: 331, t. 67, f. 7 (1965); Hsu in Obs. Fl. Huangshan 172 (1965); Fl. Reipubl. Pop. Sin. 65(2): 34 (1977).

T. nepetoides Lévl. in Fedde, Rep. Sp. Nov. 8: 450 (1910).

T. japonicum auct. non Willd.; Dunn in Notes R.B.G. Edinb. 8: 171 (1913), 6: 191 (1917) & in Lévl., Fl. Kouy-Tchéou 217 (1914), p.p.; Nakai in Bot. Mag. Tokyo 35: 201 (1921), p.p.; Kudo in Mem. Fac. Sci. Agric. Taihoku Imp. Univ. 2: 293 (1929), p.p.

CHINA. Kweichow, Pin-fa, fl. rose rouge, odorante, 14 x 1902, *Cavalerie* 624 (holo. E).

Of the four specimens cited in *Flore du Kouy-Tchéou* under *T. japonicum* *Cavalerie* 624 is the type of *T. nepetoides*, *Esquirol* 3063 is *T. viscidum*, *Esquirol* 3754 is *T. quadrifarium* and *Esquirol* 728 is *T. quadrifarium* var. *kouytchense*.

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—— & LI, H. W. (eds) (1977). Labiatae: 1. *Fl. Reipubl. Pop. Sin.* 65(2): 1–649, t. 1–111; op. cit. 2. *Ibid.* 66: 1–647, t. 1–123.

PLANTAGINACEAE

(with D. K. FERGUSON)

1757. Plantago asiatica L., Sp. Pl. 113 (1753) s.l.

P. coreana Lévl. var. *gracilis* Pilger in Notizbl. Bot. Gart. Berlin 8: 111 (1922) & in Engl., Pflanzenr. 102 (IV.269): 61 (1937).

P. coreana Lévl. var. *validior* Pilger in Notizbl. Bot. Gart. Berlin 8: 111 (1922) & in Engl., Pflanzenr. 102 (IV.269): 61 (1937).

As *P. coreana* is reduced to varietal rank under *P. asiatica* (see below) it is expedient to dipose of Pilger's var. *gracilis* and var. *validior*. As we cannot separate them from *P. asiatica* they are placed in synonymy under this species.

P. asiatica and *P. major* are closely related and we have found some difficulty in separating them on general morphological appearance alone and even on Pilger's character of sessile or shortly stalked flowers.

Hara (*Journ. Fac. Sci. Univ. Kyoto* ser. 3, 6: 377, 1956) reports that 'as compared with European *P. major*, *P. asiatica* of Japan has fewer 4–6(–8)-seeded capsules, larger seeds...often ± shortly pedicellate flowers...'. According to *Flora Europaea*, *P. major* subsp. *major* has (4–)6–10(–13) seeds whilst *P. major* subsp. *intermedia* (syn. subsp. *pleiosperma*) has 14–34 seeds. There is, therefore, some overlap between *P. asiatica* and *P. major* in the number of seeds, but the chromosome numbers are different — 2n = 24 for the former and 2n = 12 & 36 for the latter.

We have examined many Asiatic specimens and on the basis of seed number we have been able to separate them as follows: *P. asiatica* (1–)3–6(–8) seeds, and *P. major* subsp. *intermedia* 10–20(–34).

1758. Plantago asiatica L. var. **coreana** (Lévl.) Lauener & Ferguson, **comb. nov.**

P. coreana Lévl. in Fedde, Rep. Sp. Nov. 8: 284 (1910); Pilger in Notizbl. Bot. Gart. Berlin 8: 110 (1922) & in Engl., Pflanzenr. 102(IV.269): 61 (1937); Nakai in Bull. Nat. Sci. Mus. Tokyo 31: 105 (1952), pro syn. sub *P. asiatica*.

P. coreana Lévl. var. *brevior* Pilger in Notizbl. Bot. Gart. Berlin 8: 110 (1922) & in Engl., Pflanzenr. 102(IV.269): 61 (1937) — non *P. asiatica* var. *brevior* Pilger (1922).

KOREA. Quelpaert in sylvis Hallaisan, 1000 m, feuilles rougeâtres, 17 viii 1908, *Taquet* 1262 (holo. *P. coreana* & iso. *P. coreana* var. *brevior*, E).

Nakai considered both *P. coreana* and *P. taquetii* (see below) to be synonymous with *P. asiatica*, while Pilger retained them as distinct species. Both are dwarf plants but whereas *P. taquetii* has ovate, obtusely denticulate leaves and 3–4-seeded capsules, the leaves of *P. coreana* are more lanceolate-ovate

with irregular, sometimes prominent acute teeth and the capsules are 1–2-seeded. We consider that these two Léveillé species are better regarded as varieties of *P. asiatica*.

1759. Plantago asiatica L. var. **yakusimensis** (Masam.) Ohwi in Bull. Nat. Sci. Mus. Tokyo no. 33: 86 (1953) & in Fl. Jap. (Engl. ed.) 820 (1965); Kitamura, Murata & Hori, Col. Ill. Herb. Pl. Japan (Sympet.) 116 (1977).

P. yakusimensis Masam. in Prelim. Rep. Veg. Yakus. 119 (1929), nom. nud. & in Bot. Mag. Tokyo 44: 220 (1930); Pilger in Engl., Pflanzenr. 102 (IV.269): 432 (1937).

P. taquetii Lévl. in Fedde, Rep. Sp. Nov. 8: 283 (1910); Pilger in Notizbl. Bot. Gart. Berlin 8: 111 (1922) & in Engl., Pflanzenr. 102(IV.269): 62 (1937); Nakai in Bull. Nat. Sci. Mus. Tokyo 31: 105 (1952), pro syn. sub *P. asiatica*.

KOREA. Quelpaert, in silvis Hallaisan, Yengtsil, 1000 m, 17 viii 1908, *Taquet* 1257 (holo. *P. taquetii*, E).

1760. Plantago cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 2: 114 (1906); Pilger in Notizbl. Bot. Gart. Berlin 8: 112 (1922) & in Engl., Pflanzenr. 102(IV.269): 67 (1937).

P. gigas Lévl. var. *cavaleriei* (Lévl.) Lévl., Fl. Kouy-Tchéou 315 (1915).

CHINA. Kweichow, Pin Fa à Tin Fan, xi 1904, *Cavalerie* 1863 (holo. E).

Pilger did not see the type specimen of *P. cavaleriei*. The inflorescence is lax, the flowers quite remote from each other and the styles are strongly exserted by up to 8 mm. In these respects it is easily separable from *P. asiatica* or *P. major*. No seeds are available, however, and it is therefore difficult to say to which of these species *P. cavaleriei* is more closely related.

1761. Plantago major L. subsp. **intermedia** (Gilib.) Arcangeli, Comp. Fl. Ital. 501 (1882); Chater in Fl. Europ. 4: 39 (1976).

P. intermedia Gilib., Hist. Pl. Europ. ed. 2, 1: 125 (1806).

P. gigas Lévl. in Fedde, Rep. Sp. Nov. 2: 114 (1906) & Fl. Kouy-Tchéou 315 (1915); Pilger in Notizbl. Bot. Gart. Berlin 8: 114 (1922) & in Fedde, Rep. Sp. Nov. 18: 271 (1922) pro syn. sub *P. major* L. var. *vulgaris* Pilger f. *sinuata* (Lam.) Pilger & in Engl., Pflanzenr. 102(IV.269): 47 (1937) pro syn. sub *P. major* L. subsp. *pleiosperma* Pilger var. *sinuata* (Lam.) Decne.

P. major L. var. *gigas* (Lévl.) Lévl., Cat. Pl. Yunnan 205 (1916).

CHINA. Kweichow, Tsin gay, bords d'une rizière en ville, 29 vi 1899, *Bodinier* 2658 (holo. *P. gigas*, E).

The number of seeds per capsule in the holotype specimen varies from 16–20 and this places it in subsp. *intermedia* sensu *Flora Europaea*, in which subsp. *pleiosperma* is a synonym.

Pilger (1937) states that subsp. *pleiosperma* has 12–24 seeds per capsule but states that *P. major* subsp. *eu-major* var. *intermedia* (Gilib.) Decne. has only 6–9 seeds.

1762. Plantago princeps Cham. & Schlechtend, in Linnaea 1: 167 (1826); Rock in Fedde, Rep. Sp. Nov. 13: 359 (1914); Pilger in Engl., Pflanzenr. 102(IV.269): 86 (1937).

P. fauriei Lévl. in Fedde, Rep. Sp. Nov. 10: 151 (1911).

P. gaudichaudiana Lévl. in Fedde, Rep. Sp. Nov. 10: 151 (1911).

HAWAIIAN (SANDWICH) ISLANDS. Kauai, Hanapepe fall, secus torrentes, rara, xii 1909, *Faurie* 1078 (typus *P. fauriei* — n.v.); Maunakea, 2000 m, vii 1909, *Faurie* 1075 (iso. *P. gaudichaudiana*, BM).

Rock (1914) referred *P. fauriei* to *P. princeps* but under *Faurie* 1078 he referred to *'P. hawaiiensis* Lévl.' stating that it was one of the many forms of *P. pachyphylla* Gray. There is no *'P. hawaiiensis* Lévl.' and it may be that Rock intended to refer *P. gaudichaudiana* to *P. pachyphylla* Gray var. *hawaiensis* Gray (now *P. hawaiiensis* (Gray) Pilger, 1922).

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MOLGAARD, P. (1976). Plantago major ssp. major and ssp. pleiosperma. Morphology, Biology and Ecology in Denmark. *Bot. Tidsskr.* 71: 31–56.

PILGER, R. (April 1922). Die Arten der Plantago major-Gruppe in Ostasien. *Notizbl. Bot. Gart. Berlin* 8: 104–116.

—— (Oct. 1922). Uber die Formen von Plantago major L. *Fedde, Rep. Sp. Nov.* 18: 257–283.

—— (1937). Plantaginaceae. *Engl., Pflanzenr.* 102(IV.269): 1–466.

Nyctaginaceae

1763. Pisonia umbellifera (J. R. & G. Forst.) Seem., Bonplandia 10: 154 (1862); Stemm. in Blumea 12: 280 (1964).

Ceodes umbellifera J. R. & G. Forst., Char. Gen. Pl. 142, t. 71 (1776); Skottsberg in Svensk Bot. Tidskr. 30: 723 (1936).

Pisonia inermis Forst. f. var. *leiocarpa* Hillebr., Fl. Haw. Isl. 369 (1888); Rock in Fedde, Rep. Sp. Nov. 13: 353 (1914).

Labordea (?) fauriei Lévl. in Fedde, Rep. Sp. Nov. 10: 157 (1911).

HAWAIIAN (SANDWICH) ISLANDS. Kauai, Kilauea, i 1910, Maui, Makanao, viii 1909, *Faurie* 713, 717, 718 (syntypes *Labordea fauriei*, BM).

Although Léveillé's species or type specimens are not cited by Skottsberg or by Stemmerik, *L. fauriei* belongs to *Pisonia umbellifera*.

Reference for Pisonia

STEMMERIK, J. F. (1964). Notes on Pisonia L. in the Old World. *Blumea* 12: 275–284.

Amaranthaceae

1764. Achyranthes bidentata Bl. var. **tomentosa** (Honda) Hara, Fl. E. Himal. 635 (1967).

A. fauriei Lévl. & Van. in Bull. Soc. Bot. Fr. 51: 422 (1904); S. Okuyama in Journ. Jap. Bot. 10: 263, f. 3–5, 454 (1934).

A. fauriei Lévl. & Van. var. *tomentosa* Honda, Nom. Pl. Jap. (ed. emend.) 373 (1957).

JAPAN. Secus vias Aomori, x 1900, *Faurie* 4236 (holo. *A. fauriei*, E).

1765. Cyathula capitata Moquin in DC., Prodr. 13(2): 329 (1849).

Achyranthes hamata Lévl. & Van. in Lévl., Fl. Kouy-Tchéou 23 (1914).

CHINA. Kweichow, environs de Tchen-lin tcheou, cimetière des Chrétiens, en

fruits: item à Tsin-gay, champs, 5 x 1897, *Martin in herb. Bodinier* 1926 (lecto. *A. hamata*, E); district de Tsin gai, Tchao-se, jardin, vii 1903, *Cavalerie* 1163 (syntype *A. hamata*, E); Tin-fan, près d'une pagode, sur la route de Pi-Tcha à Sou-tchang, pas vu ailleurs, xi 1904, *Cavalerie* 1854 (syntype *A. hamata*, E); sine loc., *Esquirol* 622 (syntype *A. hamata*, E).

1766. Deeringia amaranthoides (Lam.) Merrill, Interpret. Herb. Amb. 211 (1917); Rehder in Journ. Arn. Arb. 10: 185 (1929).

Achyranthes amaranthoides Lam., Encycl. Meth. 1: 548 (1785).

Mallotus neo-cavaleriei Lévl., Fl. Kouy-Tchéou 165 (1914).

CHINA. Kweichow, Lo-fou, iii 1909, *Cavalerie* 3516 (holo. *M. neo-cavaleriei*, E).

In *Fl. Reipubl. Pop. Sin.* 25(2): 197 (1979) the author of *Amaranthaceae* places *Deeringia amaranthoides* in synonymy under *Cladostachys frutescens* D. Don. *C. frutescens* represents a different taxon and is a nomen illeg. since it included *Achyranthes muricatus* L. in synonymy. *Cladostachys* D. Don (1825) is a nomenclatural synonym of *Digera* Forssk. (1775) and the correct name for *C. frutescens* is *Digera muricata* (L.) Mart.

The same author rejected *Deeringia* R. Br. (1810) because of *Deringa* Adans. (1763) (= *Cryptotaenia* DC. 1829, nom. cons.) but confusion between these two names is not likely and *Deeringia* is a valid genus.

The combination of *Cladostachys polysperma* (Roxb.) Kuan is therefore superfluous and the correct name for this taxon remains *Deeringia polysperma* (Roxb.) Moq.

CHENOPODIACEAE

1767. Acroglochin persicarioides (Poir.) Moq. in DC., Prodr. 13(2): 254 (1849); Hand.-Mazz., Symb. Sin. 7: 161 (1929).

Amaranthus persicarioides Poir., Encycl. Meth. Suppl. 1: 311 (1810).

Boehmeria amarantus Lévl. in Fedde, Rep. Sp. Nov. 11: 550 (1913) & Fl. Kouy-tchéou 422 (1915).

CHINA. Kweichow, environs de Gan-pin, 29 viii 1897, *Martin & Bodinier* s.n. (holo. *B. amarantus*, E).

1768. Chenopodium album L., Sp. Pl. 219 (1753).

C. mairei Lévl., Cat. Pl. Yunnan 35 (1915), p.p.

CHINA. Yunnan, commune aux cultures de la plaine de Tong-tchouan, 2500 m, salsolacée annuelle, 1911–1912, *E.E. Maire* s.n. (syntype *C. mairei*, E).

1769. Chenopodium giganteum D. Don, Prodr. Fl. Nep. 75 (1825).

C. mairei Lévl., Cat. Pl. Yunnan 35 (1915), p.p.

CHINA. Yunnan, plaine, cultures de Tché-hai, 2500 m, spontanée çà et là, beta annuelle, haut 1.50 m, feuil. glabres, maculées de rose, grappes roses, viii 1911–1912, *E.E. Maire* s.n. (syntype *C. mairei*, E).

The syntypes of *C. mairei* were identified by Paul Aellen. That under *C. album* was determined as a subspecies of *C. album* but I cannot find that this was ever published.

PHYTOLACCACEAE

Phytolacca esquirolii Lévl., Fl. Kouy-Tchéou 313 (1915) = **Mallotus kweichowensis** Lauener & W. T. Wang (Euphorbiaceae).

POLYGONACEAE

(with D. K. FERGUSON)

In treating the Léveillé Polygonaceae we have followed the general trend in retaining the segregate genera *Fagopyrum* and *Reynoutria*. *Polygonum* has been split into several other genera such as *Aconogonon*, *Bistorta* and *Persicaria*, but for the sake of convenience we have retained these under *Polygonum*. However, this does not imply that we consider that these genera should be rejected as segregates.

Steward (1930) and Samuelsson (1929) have both studied *Polygonum* s.l. and at times their views have conflicted. We have endeavoured to balance any variation and to make as little change as possible in the nomenclature, since it is obvious that some groups require more extensive study.

1770. Fagopyrum dibotrys (D. Don) Hara, Fl. E. Himal. 69 (1966).

Polygonum dibotrys D. Don, Prodr. Fl. Nep. 73 (1825).

P. cymosum Trev. in Nova Acta Phys.-Med. Acad. Caesar. Leop. Nat. Car. 13: 177 (1826); Lévl., Fl. Kouy-Tchéou 319 (1915); Sam. in Hand.-Mazz., Symb. Sin. 7: 185 (1929); Steward in Contr. Gray Herb. 5(88): 117 (1930).

Fagopyrum cymosum (Trev.) Meisn. in Wall., Pl. As. Rar. 3: 63 (1832); Haraldson in Symb. Bot. Upsal. 22(2): 81 (1978).

Polygonum labordei Lévl. & Van. in Bull. Acad. Géog. Bot. 11: 344 (1902).

P. tristachyum Lévl. in Fedde, Rep. Sp. Nov. 11: 297 (1912) & Cat. Pl. Yunnan 208 (1916).

Fagopyrum tristachyum (Lévl.) H. Gross in Bull. Acad. Géog. Bot. 23: 26 (1913).

CHINA. Kweichow, environs de Tsin-Gay, dans les haies des champs, fleurs blanches, x 1897, *Laborde in herb. Bodinier* 1888 (syntype *P. labordei*, E); environs de Tsin-chen, Gan pin, longues tiges, très branchues, dans les haies, fleure blanches, 13 ix 1894, *Martin in herb. Bodinier* 1888 (syntype *P. labordei*, E). Yunnan, haies au pied des montagnes autour de Tong-tchouan, 2550 m, fl. blanches, viii 1911, *E.E. Maire* s.n. (holo. *P. tristachyum*, E).

1771. Fagopyrum gracilipes (Hemsl.) Dammer in Diels, Bot. Jahrb. 29: 315 (1900); Haraldson in Symb. Bot. Upsal. 22(2): 81 (1978).

Polygonum gracilipes Hemsl. in Journ. Linn. Soc. (Bot.) 26: 340 (1891); Sam. in Hand.-Mazz., Symb. Sin. 7: 187 (1929); Steward in Contr. Gray Herb. 5(88): 116 (1930).

P. bonatii Lévl. in Fedde, Rep. Sp. Nov. 8: 258 (1910) & Cat. Pl. Yunnan 206 (1916).

Fagopyrum bonatii (Lévl.) H. Gross in Bull. Acad. Géog. Bot. 23: 25 (1913).

F. odontopterum H. Gross in Bull. Acad. Géog. Bot. 23: 25 (1913).

Polygonum gracilipes (Hemsl.) Dammer var. *odontopterum* (H. Gross) Sam. in Hand.-Mazz., Symb. Sin. 7: 187 (1929) & in Acta Hort. Gotob. 5: 11 (1930).

CHINA. Yunnan, Yunnan-sen, haies, vi 1905, *E.E. Maire* 363 (holo. *P. bonatii*, E).

We have examined one of the syntypes of *F. gracilipes* (*Henry* 4742) and found it to have winged achenes. This character can be seen to be variable over a range of specimens and we do not feel that *P. odontopterum* can be maintained even at varietal rank.

1772. Fagopyrum leptopodum (Diels) Hebd. var. **grossii** (Lévl.) Lauener & Ferguson, **comb. nov.**

Polygonum grossii Lévl. in Fedde, Rep. Sp. Nov. 11: 297 (1912) & Cat. Pl. Yunnan 207 (1916).

Fagopyrum grossii (Lévl.) H. Gross in Bull. Acad. Géog. Bot. 23: 26 (1913).

Polygonum leptopodum Diels var. *grossii* (Lévl.) Sam. in Hand.-Mazz., Symb. Sin. 7: 188 (1929).

CHINA. Yunnan, pâturages des montagnes, derrière Pan-Pien-Kai, 2500 m, fl. blanc. lavé de rose, viii 1912, *E.E. Maire* s.n. (holo. *P. grossii*, E).

1773. Fagopyrum statice (Lévl.) H. Gross in Bull. Acad. Géog. Bot. 23: 26 (1913).

Polygonum statice Lévl. in Fedde, Rep. Sp. Nov. 7: 338 (1909) & Fl. Kouy-Tchéou 321 (1915); Sam. in Hand.-Mazz., Symb. Sin. 7: 186 (1929); Rehder in Journ. Arn. Arb. 10: 283 (1929) & 17: 317 (1936); Steward in Contr. Gray Herb. 5(88): 115 (1930); Haraldson in Symb. Bot. Upsal. 22(2): 81 (1978).

CHINA. Kweichow, *Esquirol* 164 (holo. E).

1774. Fagopyrum urophyllum (Bur. & Franch.) H. Gross in Bull. Acad. Géog. Bot. 23: 21 (1913); Roberty & Vautier in Boissiera 10: 52 (1964); Haraldson in Symb. Bot. Upsal. 22(2): 81 (1978).

Polygonum urophyllum Bur. & Franch. in Journ. de Bot. 5: 150 (1891); Sam. in Hand.-Mazz., Symb. Sin. 7: 186 (1929); Rehder in Journ. Arn. Arb. 10: 184 (1929) & 17: 317 (1936); Steward in Contr. Gray Herb. 5(88): 116(1930).

P. mairei Lévl. in Fedde, Rep. Sp. Nov. 7: 338 (1909) & Cat. Pl. Yunnan 207 (1916).

CHINA. Yunnan, Yunnan-sen, *E.E. Maire* 348 (syntype *P. mairei* — n.v.), *E.E. Maire* 366 (syntype *P. mairei*, E).

1775. Oxyris sinensis Hemsl. in Journ. Linn. Soc. Bot. 29: 317, t. 33 (1892); Sam. in Hand.-Mazz., Symb. Sin. 7: 169 (1929).

O. mairei Lévl. in Fedde, Rep. Sp. Nov. 12: 286 (1913) & Cat. Pl. Yunnan 206 (1916).

CHINA. Yunnan, plaine de Tong-tchouan, 2500 m, sur les vieux murs et les amas de pierres, iv 1912, *E.E. Maire* s.n. (holo. *O. mairei*, E).

1776. Polygonum barbatum L. var. **stagninum** (Buch.-Ham. ex Meisn.) Steward in Contr. Gray Herb. 5(88): 54 (1930).

P. stagninum [Buch.-Ham. ex] Meisn. in Wall., Pl. As. Rar. 3: 56 (1832) & in DC., Prodr. 14(1): 104 (1856); Craib in Kew Bull. 1911: 449 (1911).

Persicaria hosseussii Lévl. in Fedde, Rep. Sp. Nov. 11: 496 (1913); Steward in Contr. Gray Herb. 5(88): 118 (1930).

SIAM. Wand-Djao, kleine Insel in Meping, 30 ix 1904, *Hosseus* 31 (typus *P. hosseussii*, E).

Hosseus 31 is a mixture of *Polygonum glabrum* and *P. stagninum*. Craib cites 31a and 31b pro parte under *P. glabrum*, and 31b under *P. stagninum*. In the Edinburgh herbarium there are two sheets, of which 31a is a mixture of *P. glabrum* and *P. stagninum* while 31b is *P. stagninum*.

Léveillé's *P. hosseussii* probably belongs to *P. stagninum*, as part of his description 'vaginis longis hirsutissimis' accords with the latter species and Léveillé himself drew comparison with this difference from *P. glabrum*. The Edinburgh specimen does not seem to be the type on which Léveillé based his species.

1777. Polygonum bodinieri Lévl. & Van. in Bull. Acad. Géog. Bot. 11: 343 (1902); Sam. in Hand.-Mazz., Symb. Sin. 7: 167 (1929); Steward in Contr. Gray Herb. 5(88): 118 (1930).

HONG KONG. Fossés, près Betphagé, 14 xii 1895, *Bodinier* 1409 (holo. E).

This species is closely related to *P. dissitiflorum* (sect. *Echinocaulon*) but differs in the leaf tips being acute, not acuminate, and the flowers clustered in heads rather than openly paniculate.

1778. Polygonum bungeanum Turcz. in Bull. Soc. Nat. Mosc. 13: 77 (1840); Sam. in Hand.-Mazz., Symb. Sin. 7: 167 (1929); Steward in Contr. Gray Herb. 5(88): 87 (1930); Ohwi, Fl. Jap. (Engl. ed.) 409 (1965).

P. chaneti Lévl. in Bull. Soc. Bot. Fr. 54: 370 (1907) & in Bull. Acad. Géog. Bot. 27: 82 (1917).

CHINA. Hopei, Tchao-Tchao, fossés humides, tiges épineuses, 10 viii 1905, *Chanet* 86 (holo. *P. chaneti*, E).

1779. Polygonum campanulatum Hook. f. var. **fulvidum** Hook. f., Fl. Brit. Ind. 5: 52 (1886); Steward in Contr., Gray Herb. 5(88): 104 (1930).

P. duclouxii Lévl. & Van. in Fedde, Rep. Sp. Nov. 6: 112 (1908); Dunn in Lévl., Cat. Pl. Yunnan 206 (1916); Sam. in Hand.-Mazz., Symb. Sin. 7: 183 (1939), pro syn. sub *P. campanulatum*.

Persicaria duclouxii (Lévl. & Van.) H. Gross in Bull. Acad. Géog. Bot. 23: 32 (1913).

Persicaria duclouxii Lévl. & Van. var. *hypoleuca* Lévl. in Bull. Acad. Géog. Bot. 25: 40 (1915) & Cat. Pl. Yunnan 206 (1916).

CHINA. Yunnan, Lou pou, près Tong-tchouan, ix 1906, *J. Tchang* 540 (holo. *P. duclouxii*, E); bord des torrents à Tong-tchouan, 2550–3000 m, fl. blanches, feuil. tomenteuses et blanches endessous, vii 1912, *E.E. Maire* s.n. (holo. *P. duclouxii* var. *hypoleuca*, E).

1780. Polygonum chinense L., Sp. Pl. 363 (1753); Craib in Kew Bull. 1911: 449 (1911).

Persicaria chinensis (L.) H. Gross var. *siamensis* Lévl. in Fedde, Rep. Sp. Nov. 11: 496 (1913).

SIAM. Chieng Mai, sommet du Doi Sutep, 1700 m, 11 xii 1904, *Hosseus* 193 (typus var. *siamensis* — n.v.).

We have not seen *Hosseus* 193 but it is cited by Craib under *'Polygonum chinense* L. var.' and may be var. *ovalifolia*.

1781. Polygonum debile Meisn. in Miq., Ann. Mus. Bot. Lugd.-Bat. 2: 63 (1865).

P. thunbergii Sieb. & Zucc. var. *coreana* Lévl. in Fedde, Rep. Sp. Nov. 8: 171 (1910).

KOREA. Quelpaert in silvis Piento Hoatien, 19 ix 1908, *Taquet* 1288 (syntype var. *coreana*, E); 4 ix 1908, *Taquet* 1319 (syntype var. *coreana*, E); in sylvis Yengsil, 1000 m, 27 ix 1908, *Taquet* 1324 (syntype var. *coreana*, E); 17 viii 1908, *Taquet* 1329 (syntype var. *coreana*, E).

The leaves of *Taquet* 1319 tend to be longer than broad and resemble *P. thunbergii* in shape, but the inflorescence and habit are those of *P. debile*.

1782. Polygonum dissitiflorum Hemsl. in Journ. Linn. Soc. (Bot.) 26: 338 (1891).

Polygonum fauriei Lévl. & Van. in Bull. Soc. Bot. Fr. 51: 423 (1904); Steward in Contr. Gray Herb. 5(88): 21 (1930) & Sugawara, Ill. Fl. Saghalien 2: 751 (1939), pro syn. sub *P. aviculare* L. var. *vegetum* Ledeb.

Persicaria fauriei (Lévl. & Van.) Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo 31: 171 (1911), in Mori, Enum. Pl. Cor. 131 (1922) & in Bull. Nat. Sci. Mus. Tokyo no. 31: 33 (1952).

KOREA. In uliginosis Corea mediae, 6 ix 1901, *Faurie* 570 (holo. *P. fauriei*, E).

Steward placed *P. fauriei* under *P. aviculare* var. *vegetum* according to a letter from W. W. Smith. Smith, however, had probably taken *Faurie* 970, labelled *P. fauriei* in Léveillé's hand, as the type of *P. fauriei*. *Faurie* 970 does belong to *P. aviculare* but it is not the type of *P. fauriei* Lévl.

1783. Polygonum emodi Meisn. var. **dependens** Diels in Notes R.B.G. Edinb. 5: 256 (1912); Sam. in Hand.-Mazz., Symb. Sin. 7: 176 (1929); Rehder in Journ. Arn. Arb. 10: 184 (1929) & 17: 316 (1936); Steward in Contr. Gray Herb. 5(88): 29 (1930).

P. zigzag Lévl. & Van. in Fedde, Rep. Sp. Nov. 6: 112 (1908) & Cat. Pl. Yunnan 208, f. 54 (1916).

Bistorta zigzag (Lévl. & Van.) H. Gross in Bull. Acad. Géog. Bot. 23: 19 (1913).

CHINA. Yunnan, Lou-Pou, près Tong-tchouan, ix 1906, *J. Tchang* 541 (holo. *P. zigzag* — n.v.).

The type has not been seen by Rehder, Samuelsson, nor by us, but we have seen other collections made by Maire from the same area and determined by Léveillé as *P. zigzag*. These sheets accord well with *P. emodi* var. *dependens*.

1784. Polygonum hydropiper L., Sp. Pl. 361 (1753); Steward in Contr. Gray Herb. 5(88): 58 (1930); Nakai in Bot. Mag. Tokyo 48: 775 (1934).

Persicaria hydropiper (L.) Spach, Hist. Nat. Veg. 10: 536 (1841); Nakai in Bot. Mag. Tokyo 48: 775 (1934).

Polygonum punctatum Lévl. in Fedde, Rep. Sp. Nov. 11: 67 (1912) — non Elliot (1817) nec Raf. (1820), nec [Buch.-Ham. ex] D. Don (1825).

KOREA. Quelpaert N. in humidis Moktpyang, vi 1911, *Taquet* 5896 (holo. *P. punctatum*, E).

1785. Polygonum japonicum Meisn. in DC., Prodr. 14(1): 112 (1856); Sam. in Hand.-Mazz., Symb. Sin. 7: 179 (1929); Steward in Contr. Gray Herb. 5(88): 55 (1930); H. Gross in Lévl., Fl. Kouy-Tchéou 320 (1915).

P. martini Lévl. & Van. in Bull. Acad. Géog. Bot. 11: 340 (1902) p.p.

CHINA. Kweichow, environs de Kouy-Yang, bord des ruisseaux de la plaine, fleurs roses, 9 viii 1897, *Bodinier* 1773 (syntype *P. martini*, E); environs de Tsin-chen, Gan-pin etc., le long des ruisseaux, belles fleurs blanches, 14 ix 1897, *Martin in herb. Bodinier* 1887 (syntype *P. martini*, E); environs de Hoang-ko-chou, bord des fossés, fleurs blanches, 8 x 1898, *Séguin in herb. Bodinier* (1887) & 2496 (syntype *P. martini*, E).

Another syntype of *P. martini* belongs to *P. longisetum* (q.v.). In his key and discussion Steward (op. cit., p. 51) separates *P. japonicum* and *P. macranthum* Meisn. on the basis of the perianth being glandular-dotted in *P. macranthum* and eglandular in *P. japonicum*. We have examined many Japanese and Chinese specimens and find this character to be very variable and we are inclined to agree with Samuelsson (1929) that *P. macranthum* is synonymous with *P. japonicum*.

1786. Polygonum lapathifolium L., Sp. Pl. 360 (1753); Steward in Contr. Gray Herb. 5(88): 44 (1930); Ohwi, Fl. Jap. (Engl. ed.) 410 (1965).

Polygonum pyramidale Lévl. in Bull. Soc. Bot. Fr. 54: 370 (1907).

Polygonum komarovii Lévl. in Fedde, Rep. Sp. Nov. 8: 171 (1910); Sugawara, Ill. Fl. Sachalin 2: 783 (1939), pro syn. sub *Persicaria glandulosa* Nakai & Ohki.

Persicaria vaniotiana Lévl. in Fedde, Rep. Sp. Nov. 11: 496 (1913).

Polygonum vaniotianum (Lévl.) Lévl., Cat. Pl. Yunnan 208 (1916).

CHINA. Hopei, Tchao-Tchao, fossés humides, 10 viii 1905, *Chanet* 85 (holo. *P. pyramidale*, E). Yunnan, plaine de Tong-tchouan, 2500 m, fossés-mares d'eau, fl. roses, viii 1911, *E. E. Maire* s.n. (holo. *P. vaniotiana*, E).

SACHALIN. Secus vias Korsakof, viii–ix 1908, *Faurie* 637 (holo. *P. komarovii*, E).

Samuelsson (1929) includes *Polygonum pyramidale* and *Persicaria vaniotiana* under *P. lapathifolium* ssp. *nodosum* (Pers.) Weinm., but we have been unable to find where this subspecific combination was published. The same combination has also been made by Danser (*Ned. Kruidk. Archf.* 1931: 107 1931) and by Kitamura (*Acta Phytotax. Geobot.* 20: 207, 1962). *P. nodosum* is often included in *P. lapathifolium*.

1787. Polygonum longisetum De Bruyn in Miq., Pl. Jungh. 307 (1854); Sam. in Hand.-Mazz., Symb. Sin. 7: 178 (1929); Ohwi, Fl. Jap. (Engl. ed.) 411 (1965).

Polygonum martini Lévl. & Van. in Bull. Acad. Géog. Bot. 11: 340 (1902), p.p.; H. Gross in Lévl., Fl. Kouy-Tchéou 320 (1915), sub *Polygonum jucundum* Meisn. var. *longisetum* H. Gross, nom. nud.

Polygonum kinashii Lévl. & Van. in Bull. Soc. Bot. Fr. 51: 422 (1904); Steward in Contr. Gray Herb. 5(88): 58 (1930), pro syn. sub *Polygonum hydropiper* L.

Persicaria gentiliana Lévl. in Fedde, Rep. Sp. Nov. 13: 338 (1914).

Polygonum gentilianum (Lévl.) Lévl., Cat. Pl. Yunnan 207 (1916).

CHINA. Kweichow, environs de Kouy-yang, bords du ruisseau, à Kieh-lin-chan, fleurs roses, 13 xi 1897, *Bodinier* 1989 (syntype *P. martini*, E). Yunnan, plaine de

La Kou, fossés, 2400 m, fl. vertes, xi 1913, *E. E. Maire* s.n. (holo. *P. gentiliana*, E).
JAPAN. Aomori, ix 1900, in *herb. Kinashi* 1, 3 (syntypes *P. kinashii*, E); Hakkoda, viii 1901, in *herb. Kinashi* 2 (syntype *P. kinashii*, E).

1788. Polygonum macrophyllum D. Don, Prodr. Fl. Nep. 70 (1825).
P. paleaceum [Wall. ex] Hook. f., Fl. Brit. Ind. 5: 32 (1886); Sam. in Hand.-Mazz., Symb. Sin. 7: 153 (1929).
Bistorta chinensis H. Gross in Bull. Acad. Géog. Bot. 23: 18 (1913); Steward in Contr. Gray Herb. 5(88): 35 (1930), pro syn. sub *P. bistorta* L.
B. yunnanensis H. Gross in Bull. Acad. Géog. Bot. 23: 19 (1913); Steward in Contr. Gray Herb. 5(88): 35 (1930), pro syn. sub *P. bistorta*.
Polygonum ophioglossum Lévl., Fl. Kouy-Tchéou 320 (1915) in clavi — non *Bistorta ophioglossa* Greene (1903), nom. nov. for *Bistorta chinensis* H. Gross.
P. yunnanensis (H. Gross) Lévl., Cat. Pl. Yunnan 208 (1916) — non *P. yunnanensis* Lévl. (1908).

The specimen cited in *Flore du Kouy-Tchéou* under '*P. ophioglossum* (Gross) Lévl.' is *Martin in herb. Bodinier* 1785 which is the holotype of *Bistorta chinensis*. We have also seen the holotype of *Bistorta yunnanensis* . No Léveillé type specimen is involved in *P. macrophyllum*.

1789. Polygonum milletii (Lévl.) Lévl., Cat. Pl. Yunnan 207 (1916); Sam. in Hand.-Mazz., Symb. Sin. 7: 175 (1929); Steward in Contr. Gray Herb. 5(88): 35 (1930).
Bistorta milletii Lévl. in Fedde, Rep. Sp. Nov. 12: 286 (1913).
CHINA. Yunnan, pâturages du haut plateau de Ta-hai, 3200 m, renouée vivace, dressés, fl. violettes, vii 1912, *E. E. Maire* s.n. (holo. E).

We agree with Steward (op. cit.) and with Samuelsson (op. cit.) that *P. milletii* is very closely related to *P. bistorta* and may be only a variety of it.

1790. Polygonum paniculatum Bl. var. **rude** (Meisn.) Steward in Contr. Gray Herb. 5(88): 106 (1930).
P. rude Meisn. in DC., Prodr. 14(1): 137 (1856); Lévl., Fl. Kouy-Tchéou 321 (1915); Sam. in Hand.-Mazz., Symb. Sin. 7: 183 (1939).
P. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 8: 171 (1910).
Persicaria rudis (Meisn.) H. Gross in Bull. Acad. Géog. Bot. 23: 31 (1913).
CHINA. Kweichow à Chouy gay tsin, Hin y hien, fleur blanche, xi 1906, *Esquirol* 1065 (syntype *P. esquirolii*, E); Hoa-Ouan-Jao, viii 1905, *Esquirol* 669 (syntype *P. esquirolii* — n.v., but cited by Léveillé).

1791. Polygonum paradoxum Lévl. in Fedde, Rep. Sp. Nov. 7: 339 (1909) & Cat. Pl. Yunnan 207 (1916); H. Gross in Lévl., Fl. Kouy-Tchéou 319 (1915), pro syn. sub *P. chinense* var. *pleiocephala* H. Gross; Sam. in Hand.-Mazz., Symb. Sin. 7: 180 (1929), pro syn. sub *P. chinense* L.; Steward in Contr. Gray Herb. 5(88): 71 (1930), pro syn. sub *P. chinense* L.
P. jucundum Diels in Notes R.B.G. Edinb. 5: 257 (1912) — non Meisn. (1826).
P. dielsii Lévl., Cat. Pl. Yunnan 206 (1916), nom. nov. for *P. jucundum* Diels non Meisn.

CHINA. Yunnan, Yunnan-sen, *E. E. Maire* 351 (syntype *P. paradoxum*, E); *E. E. Maire* 362, 364, 369 (syntypes *P. paradoxum* — n.v.).

Neither Samuelsson (op. cit.) nor Steward (op. cit.) had seen type material of *P. paradoxum*, but Samuelsson did examine a specimen (*Esquirol* 896), determined as *P. paradoxum* by Léveillé, which he rightly referred to *P. chinense*. Steward simply followed Samuelsson's opinion.

According to Steward *P. chinense* has glandular peduncles, while those of *P. dielsii* are scabrid. In the herbarium material we have looked at, this difference breaks down and we have followed Samuelsson in distinguishing the two species on leaf shape.

1792. Polygonum pinetorum Hemsl. in Journ. Linn. Soc. (Bot.) 26: 345 (1891); Sam. in Hand.-Mazz., Symb. Sin. 7: 167 (1929); Steward in Contr. Gray Herb. 5(88): 106 (1930).

Persicaria pinetorum (Hemsl.) H. Gross in Bull. Acad. Géog. Bot. 23: 30 (1913).

Polygonum gloriosum Lévl. in Fedde, Rep. Sp. Nov. 13: 338 (1914) & Cat. Pl. Yunnan 207 (1916).

CHINA. Yunnan, Io-chan, bord des torrents, balsamine annuelle en touffes, fl. blanches, 3200 m, vi 1913, *E. E. Maire* s.n. (holo. *P. gloriosum*, E).

We have not seen any material of *P. pinetorum* and therefore follow Samuelsson (op. cit.).

1793. Polygonum praetermissum Hook. f., Fl. Brit. Ind. 5: 47 (1886).

Polygonum auriculatum Makino in Bot. Mag. Tokyo 17: 117 (1903) — non Meisn. (1826).

Polygonum thunbergii Sieb. & Zucc. var. *hastato-trilobum* Maxim. subvar. *eciliolatum* Lévl. in Bull. Soc. Bot. Fr. 51: 423 (1904).

Persicaria hastato-auriculata Nakai in Rigakkai 24: 299 (1926).

JAPAN. Shikoku, fossés, vi 1900, *Faurie* 4219 (holo. subvar. *eciliolatum*, E).

Léveillé did not cite a type but the above specimen bears the annotation in Léveillé's hand.

1794. Polygonum runcinatum [Buch.-Ham. ex] D. Don, Fl. Nep. 73 (1825); Sam. in Hand.-Mazz., Symb. Sin. 7: 180 (1929); Steward in Contr. Gray Herb. 5(88): 73 (1930).

P. panduriforme Lévl. & Van. in Bull Acad. Géog. Bot. 11: 343 (1902).

P. runcinatum [Buch.-Ham. ex] D. Don var. *panduriforme* (Lévl. & Van.) H. Gross in Lévl., Fl. Kouy-Tchéou 321 (1915).

CHINA. Kweichow, environs de Kouy-yang, mont. du collège, près des maisons du village, 13 vi 1899, *Bodinier* 2615 (holo. *P. panduriforme*, E).

1795. Polygonum sagittatum L., Sp. Pl. 363 (1753) s.l.

P. sagittatum L. var. *hallaisanense* Lévl. in Fedde, Rep. Sp. Nov. 8: 171 (1910).

KOREA. Quelpaert in herbidis Hallaisan, 1700m, 13 viii 1908, *Taquet* 1296 (syntype var. *hallaisanense*, E); in humidis Hallaisan, 1700m, 7 ix 1908, *Taquet* 1313 (syntype var. *hallaisanense*, E).

Léveillé's variety may be synonymous with *P. paludosa* (Kom.) Kom. (syn. *P.*

sagittatum var. *paludosum* Kom.) but we have no material of this taxon. Nakai (*Bull. Nat. Sci. Mus. Tokyo* no. 31: 33, 1952) lists a number of varieties of *Persicaria sagittata* and places var. *hallaisanense* in synonymy under *P. sagittata* var. *paludosa* (Kom.) Nakai.

1796. Polygonum sagittifolium Lévl. & Van. in Bull. Acad. Géog. Bot. 11: 342 (1902); H. Gross in Lévl., Fl. Kouy-Tchéou 321 (1915) — 'sagittariaefolium'; Sam. in Hand.-Mazz., Symb. Sin. 7: 183 (1929); Steward in Contr. Gray Herb. 5(88): 83 (1930).

P. darrisii Lévl. in Fedde, Rep. Sp. Nov. 11: 297 (1912); H. Gross in Lévl., Fl. Kouy-Tchéou 320 (1915).

CHINA. Kweichow, environs de Tsin Gay à Tchao-se, dans les rocailles, 7 ix 1899, *Laborde in herb. Bodinier* 2720 (holo. *P. sagittifolium*, E); dans les fourrés à Hong-Kouang, vii 1911, *Esquirol* 2688 (holo. *P. darrisii*, E).

1797. Polygonum strigosum R. Br. var. **hastato-sagittatum** (Makino) Steward in Contr. Gray Herb. 5(88): 90 (1930).

P. hastato-sagittatum Makino in Bot. Mag. Tokyo 17: 119 (1903); Sam. in Hand.-Mazz., Symb. Sin. 7: 182 (1930).

P. thunbergii Sieb. & Zucc. var. *spicatum* Lévl. in Bull. Soc. Bot. Fr. 51: 423 (1904).

P. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 8: 172 (1910) & Fl. Kouy-Tchéou 319 (1915).

JAPAN. Prope Aomori, ix 1902, *Faurie* 5132 (holo. *P. thunbergii* var. *spicatum*, E).

CHINA. Kweichow, Pin-fa, rocailles d'un ruis., 8 ix 1905, *Cavalerie* 2550 (holo. *P. cavaleriei*, E).

Léveillé did not cite a specimen under var. *spicatum* but the Faurie sheet bears the words 'spicata var. nov.' in Léveillé's hand.

1798. Polygonum suffultum Maxim. in Bull. Acad. Sci. St. Pétersb. 22: 233 (1876) & in Mél. Biol. 9: 616 (1876); Sam. in Hand.-Mazz., Symb. Sin. 7: 176 (1929); Steward in Contr. Gray Herb. 5(88): 32 (1930).

Bistorta suffulta (Maxim.) H. Gross in Bull. Acad. Géog. Bot. 23: 15 (1913); Nakai in Journ. Jap. Bot. 14: 738 (1938); Anon., ibid. 17: 318 (1941).

Polygonum marretii Lévl. in Fedde, Rep. Sp. Nov. 8: 171 (1910); Nakai in Journ. Jap. Bot. 18: 288 (1942) pro syn. sub *Bistorta tenuicaulis* Nakai.

KOREA. Quelpaert in silvis Hallaisan, 1200 m, 17 v 1907, *Faurie* 2033; 1000 m, 6 vi 1908, *Taquet* 1297 (syntypes *P. marretii*, E).

Both Gross and Nakai attributed the combination *Bistorta suffulta* to Greene (*Leafl. Bot. Obs. & Crit.* 1: 21, 1903) who transferred some Asiatic species of *Polygonum* to *Bistorta*. However, Greene did not mention *P. suffulta* and the combination should therefore be under the name of Gross. *Bistorta suffulta* does not appear anywhere in the *Index Kewensis*.

1799. Polygonum taquetii Lévl. in Fedde, Rep. Sp. Nov. 8: 258 (1910); Ohwi, Fl. Jap. (Engl. ed.) 412 (1965).

Persicaria taquetii (Lévl.) Koidz. in Acta Phytotax. Geobot. 9: 72 (1940).

KOREA. Quelpaert in humidis sylvarum, viii 1907, *Faurie* 2032 (syntype, E); in

sylvis Hallaisan, 800 m, 18 ix 1908, *Taquet* 1318 (syntype, E); Hallaisan, in humidis sylvarum, 900 m, 4 ix 1908, *Taquet* 1320 (syntype, E); in sylvis Yengsil, 1000 m, 27 ix 1908, *Taquet* 1325 (syntype, E).

1800. Polygonum viscoferum Makino in Bot. Mag. Tokyo 17: 115 (1903).

P. posumbu Buch.-Ham. var. *pseudobarbatum* Lévl. in Fedde, Rep. Sp. Nov. 8: 258 (1910).

KOREA. Ouensan, poilue à la base, viii 1901, *Faurie* 555 (syntype var. *pseudobarbatum*, syntype *P. excurrens* Steward — n.v.); in arenosis littoralibus, viii 1901, *Faurie* 565 (syntype var. *pseudobarbatum*, syntype *P. excurrens* — n.v.); in herbidis Chemulpo, ix 1906, *Faurie* 967 (syntype var. *pseudobarbatum*, E); in agris Quelpaert, viii 1907, *Faurie* 2036 (syntype var. *pseudobarbatum*, E).

JAPAN. Tarardake (Kiushiu), 10 vi 1899, *Faurie* 3603 (syntype var. *pseudobarbatum*, E); Hachinohe, 10 viii 1898, *Faurie* 2234 (syntype var. *pseudobarbatum* — n.v.).

1801. Polygonum viscosum [Buch.-Ham.] ex D. Don, Prodr. Fl. Nep. 71 (1825); Sam. in Hand.-Mazz., Symb. Sin. 7: 178 (1929); Steward in Contr. Gray Herb. 5(88): 48 (1930).

Persicaria kukenthalii Lévl. in Fedde, Rep. Sp. Nov. 12: 286 (1913).

Polygonum kukenthalii (Lévl.) Lèvl., Cat. Pl. Yunnan 207 (1916).

CHINA. Yunnan, plaine de Tong-tchouan, çà-et-là, cultures, tiges velues rouges, fl. en épis écarlates, 2500 m, ix 1912, *E. E. Maire* s.n. (holo. *P. kukenthalii*, E).

1802. Polygonum weyrichii [F. Schmidt ex] Maxim. in Mém. Acad. Sci. St. Pétersb. 9: 234 (1859).

Pleuropterum weyrichii (F. Schmidt) H. Gross var. *vulcanicum* Lévl. in Fedde, Rep. Sp. Nov. 11: 496 (1913).

JAPAN. Dans la lave du volcan de Mori, 21 viii 1885, *Faurie* 969 (typus var. *vulcanicum* — n.v.).

We have not seen the type of var. *vulcanicum* and it is placed under *P. weyrichii* provisionally.

1803. Reynoutria japonica Houtt., Handleid. 8: 640, t. 51, f. 1 (1777).

Polygonum cuspidatum Sieb. & Zucc. in Abh. Bayer. Akad. Wiss. Münch. Math.-Phys. Kl. 4(3): 208 (1846); Lévl., Fl. Kouy-Tchéou 319 (1915); Sam. in Hand.-Mazz., Symb. Sin. 7: 185 (1929); Steward in Contr. Gray Herb. 5(88): 97 (1930); Rehder in Journ. Arn. Arb. 17: 316 (1936).

Polygonum yunnanense Lévl. in Fedde, Rep. Sp. Nov. 6: 112 (1908) — non Cat. Pl. Yunnan 208 (1916).

Pleuropterus cuspidatus (Sieb. & Zucc.) H. Gross ex Loesen. in Beih. Bot. Centralbl. 37(2): 114 (1920).

Reynoutria henryi [Nakai ex] Migo in Journ. Shanghai Sci. Inst. sect. 3, 3: 92 (1935).

R. yunnanensis (Lévl.) Nakai ex Migo in Journ. Shanghai Sci. Inst. sect. 3, 3: 229 (1937).

CHINA. Yunnan, Yunnan-sen, buissons, 15 viii 1905, *Ducloux* 539 (holo. *Polygonum yunnanense*, E).

1804. Rheum kialense Franch. in Bull. Mus. d'Hist. Nat. 1: 212 (1895); Sam. in Svensk Bot. Tidskr. 30: 716 (1936); A. Los. in Trudy Bot. Inst. Akad. Nauk SSSR, ser. 1, 3: 93 (1937).

Rumex cacaliifolia Lévl. in Fedde, Rep. Sp. Nov. 13: 338 (1914) & Cat. Pl. Yunnan 208 (1916).

CHINA. Yunnan, pâtures du Io-chan, 3300 m, rumex vivace, fl. rouges, viii 1913, *E. E. Maire* s.n. (holo. *Rumex cacaliifolia*, E).

1805. Rumex hastatus D. Don, Prodr. Fl. Nep. 74 (1825); Sam. in Hand.-Mazz., Symb. Sin. 7: 168 (1929).

R. dissecta Lévl. in Bull. Acad. Géog. Bot. 22: 228 (1912) & Cat. Pl. Yunnan 208 (1916).

CHINA. Yunnan, La-kou, 2400 m, commun dans les terrains rocailleux et secs, rumex vivace, x 1911, *E. E. Maire* s.n. (holo. *R. dissecta*, E).

1806. Rumex nepalensis Spreng., Syst. 2: 159 (1825); Sam. in Hand.-Mazz., Symb. Sin. 7: 168 (1929); Rech. f. in Beih. Bot. Centralbl. 49(2): 69 (1932).

R. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 11: 550 (1913), Fl. Kouy-Tchéou 321 (1915) & Cat. Pl. Yunnan 208 (1916).

CHINA. Kweichow, Cascade du Tong rouy, vi 1905, *Esquirol* 520 (holo. *R. esquirolii*, E).

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