

## Correct Author Names for Combinations in East Asian Species of *Polygonum* s. l. (Polygonaceae)

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Confusion in citation of author names for combinations in East Asian species of *Polygonum* and its allied genera is clarified and discussed. The correct names for those combinations with the correct author names are enumerated, and the earliest reference cited basionyms and bibliography for each combination are indicated.

### Introduction

The genus *Polygonum* L. is extremely polymorphic and has been variously divided into many genera. Recent studies of *Polygonum* and its related genera revealed that *Polygonum* in the broad sense is not a natural group (Haraldson 1978, Ronse Decraene and Akeroyd 1988, etc.). Asian species of *Polygonum* s. l. have been studied by many taxonomists and have been divided into *Polygonum* s. s. and its related genera. Many new combinations from *Polygonum* s. l. into several related genera have been proposed (Greene 1904, Gross 1913a, 1913b and 1919, Nakai 1914, 1919, 1926, etc., Mori 1922). Many recent literature treating local floras in East Asia have cited such combinations (T. B. Lee 1979, Hara 1982, Kitagawa 1982, Tzvelev 1989, Ono et al. 1989, etc.).

We reviewed concepts of *Polygonum* and its related genera represented in East Asian species and adopted such generic concepts as *Persicaria* circumscribed by Hong (1993) and *Fallopia* by Ronse Decraene and Akeroyd (1988) (Yonekura and Ohashi 1997). Some combinations are, however, different in their author name(s) among these literature. Three causes for this disagreement may exist; firstly,

the same combinations were independently published by the different authors; secondly, some of the literature in which such new combinations were published have been little drawn attention of world taxonomists because they had a very limited circulation; and, thirdly, some combinations published in these literature were thought to be dubious in valid publication because of no reference of the basionyms except for the author names. Such combinations, however, should be regarded as validly published if they published on or before 1952 because the Art. 32.4 and 32.5 in ICBN (Greuter et al. 1994) regulate that combinations before 1952 with indirect basionym reference such as citation of author names are validly published. In this occasion, therefore, it is necessary to make clear the correct author names and basionyms for these combinations.

### Results and Conclusion

The following list includes combinations of which author names are differently cited among literature treating East Asian *Polygonum* s. l. The earliest reference cited each basionym is indicated by asterisk (\*) after its author name.

*Aconogonon divaricatum* (L.) Nakai in T. Mori, Enum. Pl. Cor. 129 (1922), sphalm.

*Aconopogon*.

*Polygonum divaricatum* L., Sp. Pl. 363 (1753).

*Persicaria divaricata* (L.) H. Gross in Loes. in Beih. Bot. Centralb. **37**(2): 111 and 112 (1919); Ronse Decraene and Akeroyd in Bot. J. Linn. Soc. **98**: 367 (1988).

*Aconogonon divaricatum* (L.) Nakai ex T. Mori: Tzvel. in Novit. Syst. Pl. Vasc. **24**: 74 (1987), in Kharkev., Pl. Vasc. Orient. Extr. Soviet. **4**: 98 (1989); Tupitzina in Krasnob. and Malyshev, Fl. Sibir. **5**: 123 (1992); Czerep., Vasc. Pl. Russ. Adj. Stat. 404 (1995).

*Aconogonum divaricatum* (L.) Nakai: T. B. Lee, Ill. Fl. Kor. 302, t. 1208 (1980); W. T. Lee, Stand. Ill. Kor. Pl. 71, pl. 71-425 (1996).

*Aconogonum divaricatum* (L.) Nakai ex T. Mori: H. Hara\*, Fl. E. Himal. 631, in adnota (1966); W. T. Lee, Lineam. Fl. Kor. 209 (1996).

Mori (1922) mentioned Nakai's contribution to the new combinations in the preface in his Enumeration of Plants hitherto Known from Corea. Although all of new combinations ascribed to Nakai in Mori (1922) were with indirect reference, they should be treated to be made by Nakai, not by Nakai ex T. Mori.

According to Nakai (1926), generic name *Aconopogon* in Mori (1922) is a misspelling for *Aconogonon*. Although spelling *Aconogonum* has been frequently used as generic name in many references in Japan and Korea, the correct spelling for this genus is *Aconogonon* as discussed in Haraldson (1978).

***Aconogonon ochreatum*** (L.) Nakai in T. Mori, Enum. Pl. Cor. 129 (1922), sphalm. *Aconopogon*.

*Polygonum ochreatum* L., Sp. Pl. 361 (1753).

*Aconogonum ochreatum* (L.) H. Hara\*, Fl. E. Himal. 632, in adnota (1966), comb. superfl.

*Aconogonon ochreatum* (L.) H. Hara: Tzvel. in Novit. Syst. Pl. Vasc. **24**: 77 (1987), in Kharkev., Pl. Vasc. Orient. Extr. Soviet. **4**: 96 (1989); Tupitzina in Krasnob. and Malyshev,

Fl. Sibir. **5**: 123 (1992); Czerep., Vasc. Pl. Russ. Adj. Stat. 404 (1995).

***Bistorta emodi*** (Meisn.) Petrov in Bull. Jard. Bot. Princ. URSS **27**: 230 (1928).

*Polygonum emodi* Meisn. in Wall. Pl. Asiat. Rar. **3**: 51, t. 287 (1832).

*Bistorta emodi* (Meisn.) H. Hara\*, Fl. E. Himal. 69 (1966), comb. superfl., Fl. E. Himal. 2nd Rep. 22 (1971), in H. Hara et al., Enum. Fl. Pl. Nepal **3**: 173 (1982); Grierson and D. G. Long, Fl. Bhutan **1**(1): 167 (1983).

***Bistorta subscaposa*** (Diels) Petrov in Bull. Jard. Bot. Princ. URSS **27**: 230 (1928); Grierson and D. G. Long, Fl. Bhutan **1**(1): 169 (1983).

*Polygonum subscaposum* Diels in Notes RBG. Edinb. **25**: 261 (1912).

The basionym for *B. subscaposa* is cited here for the first time.

***Bistorta suffulta*** (Maxim.) H. Gross\* in Bull. Géogr. Bot. **23**: 15 (1913), ut *B. suffulta* (Maxim.) Greene; Grierson and D. G. Long, Fl. Bhutan **1**(1): 167 (1983).

*Polygonum suffultum* Maxim. in Mém. Acad. Sci. St.-Pétersb. **22**: 233 (1877).

*Bistorta suffulta* (Maxim.) Greene: T. Mori, Enum. Pl. Cor. 130 (1922); H. Hara in J. Jap. Bot. **9**: 253 (1933); Nemoto, Fl. Jap. Suppl. 167 (1936); Nakai in J. Jap. Bot. **14**: 738 (1938); T. B. Lee, Ill. Fl. Kor. 301, t. 1202 (1980); Kitag. in Satake et al., Wild Fl. Jap. **2**: 18, pl. 15-4 and 16-2 (1982); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 79, t. 314 (1989); W. T. Lee, Lineam. Fl. Kor. 213 (1996), Stand. Ill. Kor. Pl. 73, pl. 73-436 (1996).

Gross (1913b) erroneously ascribed this combination to Greene (1904), but, as pointed out by Ferguson (1982), Greene (1904) did not mention this species in his paper.

***Bistorta tenuicaulis*** (Bisset & S. Moore) Nakai in Rigakkai **24**: 295 (1926); H. Hara in J. Jap. Bot. **9**: 253 (1933); Nemoto, Fl. Jap. Suppl. 167 (1936); T. B. Lee, Ill. Fl. Kor. 300, t. 1199 (1980); Kitag. in Satake et al., Wild Fl. Jap. **2**: 18 (1982), excl. pl. 16-2 in 1st.-3rd.

printings; M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 79, t. 313 (1989); W. T. Lee, Lineam. Fl. Kor. 213 (1996), Stand. Ill. Kor. Pl. 73 (1996), excl. pl. 73-437.

*Polygonum tenuicaule* Bisset & S. Moore in S. Moore in J. Bot. 16: 135 (1878).

*Bistorta tenuicaulis* (Bisset & S. Moore) Petrov\* in Bull. Jard. Bot. Acad. URSS 27: 226 (1928).

Photographs of plants adopted in Kitagawa (1982; in 1st.-3rd. printings) and W. T. Lee (1996b) as *Bistorta tenuicaulis* are not *B. tenuicaulis* but *B. suffulta*.

*Persicaria bungeana* (Turcz.) Nakai in T. Mori, Enum. Pl. Cor. 131 (1922); In Rigakkai 24: 300 (1926); Nemoto\*, Fl. Jap. Suppl. 169 (1936); T. B. Lee, Ill. Fl. Kor. 307, t. 1225 (1980); W. T. Lee, Stand. Ill. Kor. Pl. 75, pl. 75-446 (1996).

*Polygonum bungeanum* Turcz. in Bull. Soc. Nat. Moscow 13: 77 (1840).

*Persicaria bungeana* (Turcz.) Nakai ex T. Mori: Kitag., Lineam. Fl. Mansh. 176 (1939); Tzvel. in Novit. Syst. Pl. Vasc. 24: 78 (1987), in Kharkev., Pl. Vasc. Orient. Extr. Soviet. 4: 79 (1989); Czerep., Vasc. Pl. Russ. Adj. Stat. 407 (1995); W. T. Lee, Lineam. Fl. Kor. 219 (1996).

*Persicaria chinensis* (L.) H. Gross in Engl. Bot. Jahrb. 49: 269, 277 and 315 (1913); H. Hara, Fl. E. Himal. 70 (1966), in H. Hara et al., Enum. Fl. Pl. Nepal 3: 175 (1982); Grierson and D. G. Long, Fl. Bhutan 1(1): 163 (1983).

*Polygonum chinense* L., Sp. Pl. 363 (1753).

*Persicaria chinensis* (L.) Nakai in Rigakkai 24: 298 (1926); Nemoto\*, Fl. Jap. Suppl. 170 (1936); Kitag. in Satake et al., Wild Fl. Jap. 2: 21, pl. 19-4 (1982); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 74, t. 296 (1989); W. T. Lee, Lineam. Fl. Kor. 219 (1996).

*Persicaria conspicua* (Nakai) Nakai [in T. Mori, Enum. Pl. Cor. 131 (1922), comb. nud., ut *conspicuum*] ex Ohki\* in Bot. Mag. Tokyo 40: 51 (1926), ut Nakai ex T. Mori.

*Polygonum japonicum* var. *conspicuum* Nakai in Bot. Mag. Tokyo 22: 63 (1908).

*Polygonum conspicuum* (Nakai) Nakai\* in Bot. Mag. Tokyo 23: 389 (1909).

*Persicaria conspicua* (Nakai) Nakai: T. B. Lee, Ill. Fl. Kor. 310, t. 1240 (1980); Kitag. in Satake et al., Wild Fl. Jap. 2: 22, pl. 20-2 (1982); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 70, t. 279 (1989); W. T. Lee, Stand. Ill. Kor. Pl. 75, pl. 75-447 (1996).

*Persicaria conspicua* (Nakai) Nakai ex T. Mori: Nemoto, Fl. Jap. Suppl. 170 (1936); W. T. Lee, Lineam. Fl. Kor. 219 (1996).

*Persicaria debilis* (Meisn.) H. Gross [ex Nakai, Rep. Veg. Isl. Querp. 40 (1914), comb. nud., Rep. Veg. Mt. Chiri 30 (1915), comb. nud.; T. Mori, Enum. Pl. Cor. 131 (1922), comb. nud.] ex W. T. Lee\*, Lineam. Fl. Kor. 220 (1996).

*Polygonum debile* Meisn. in Miquel in Ann. Mus. Bot. Lugd.-Bat. 2: 63 (1865), cum  $\alpha$ . *triangulare* Meisn., excl.  $\beta$ . *hastatum* Meisn.

*Persicaria debilis* (Meisn.) H. Gross: T. B. Lee, Ill. Fl. Kor. 306, t. 1223 (1980); Kitag. in Satake et al., Wild Fl. Jap. 2: 20, pl. 17-1 (1982); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 71, t. 284 (1989); W. T. Lee, Stand. Ill. Kor. Pl. 75, pl. 75-448 (1996).

*Persicaria triangularis* (Meisn.) Nakai in Rigakkai 24: 300 (1926), nom. illeg.: H. Hara in J. Jap. Bot. 9: 254 (1933); Nemoto, Fl. Jap. Suppl. 176 (1936).

The name *Persicaria debilis* H. Gross was erroneously cited by Nakai (1914), although Gross did not propose such combination.

*Persicaria dissitiflora* (Hemsl.) H. Gross ex T. Mori, Enum. Pl. Cor. 131 (1922); Kitag. \*, Lineam. Fl. Mansh. 177 (1939).

*Polygonum dissitiflorum* Hemsl. in Forbes & Hemsl. in J. Linn. Soc. Bot. 26: 338 (1891).

*Persicaria dissitiflora* (Hemsl.) Nakai in Rigakkai 24: 297 (1926), comb. superfl.

*Persicaria dissitiflora* (Hemsl.) H. Gross: W. T. Lee, Stand. Ill. Kor. Pl. 75, pl. 75-449

(1996).

*Persicaria dissitiflora* (Hemsl.) H. Gross ex Kitag.: W. T. Lee, Lineam. Fl. Kor. 220 (1996).

***Persicaria filiformis*** (Thunb. ex Murray) Nakai [Rep. Veg. Isl. Querp. 41 (1914), comb. nud.; T. Mori, Enum. Pl. Cor. 131 (1922), comb. nud.] ex W. T. Lee\*, Lineam. Fl. Kor. 220 (1996), cum auct. epith. Thunb.

*Polygonum filiforme* Thunb. ex Murray, Syst. Veg. ed. 14, 337 (1784); Thunb., Fl. Jap. 163 (1784).

*Persicaria filiformis* (Thunb.) Nakai: T. B. Lee, Ill. Fl. Kor. 305, t. 1219 (1980); W. T. Lee, Stand. Ill. Kor. Pl. 75, pl. 75-450 (1996).

***Persicaria hastatosagittata*** (Makino) Nakai [Rep. Veg. Mt. Chiri 30 (1915), comb. nud.] in T. Mori, Enum. Pl. Cor. 132 (1922), ut *hastato-sagittata*.

*Polygonum hastatosagittatum* Makino in Bot. Mag. Tokyo 17: 64, 119 (1903), ut *hastato-sagittatum*.

*Persicaria hastato-sagittata* (Makino) Nakai: H. Hara in J. Jap. Bot. 9: 253 (1933); Nemoto\*, Fl. Jap. Suppl. 171 (1936); T. B. Lee, Ill. Fl. Kor. 307, t. 1228 (1980); Kitag. in Satake et al., Wild Fl. Jap. 2: 20 (1982); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 74, t. 293 (1989); W. T. Lee, Lineam. Fl. Kor. 222 (1996), Stand. Ill. Kor. Pl. 76, pl. 76-452 (1996).

***Persicaria maackiana*** (Regel) Nakai in T. Mori, Enum. Pl. Cor. 132 (1922), in Rigakkai 24: 299 (1926); Nemoto\*, Fl. Jap. Suppl. 173 (1936); T. B. Lee, Ill. Fl. Kor. 306, t. 1223 (1980); Kitag. in Satake et al., Wild Fl. Jap. 2: 20, pl. 17-3 (1982); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 72, t. 287 (1989); W. T. Lee, Stand. Ill. Kor. Pl. 77, pl. 77-458 (1996).

*Polygonum maackianum* Regel in Mém. Acad. Imp. Sci. St.-Petersb. ser. 7, 4(4): 127, t. 10, figs. 1 and 2 (1861).

*Persicaria maackiana* (Regel) Nakai ex T.

Mori: Kitag., Lineam. Fl. Mansh. 178 (1939); W. T. Lee, Lineam. Fl. Kor. 225 (1996).

***Persicaria microcephala*** (D. Don) H. Gross in Engl. Bot. Jahrb. 49: 277 (1913); H. Hara\*, Fl. E. Himal. 72 (1966), in H. Hara et al., Enum. Fl. Pl. Nepal 3: 176 (1982); Grierson and D. G. Long, Fl. Bhutan 1(1): 165 (1983).

*Polygonum microcephalum* D. Don, Prodr. Fl. Nepal. 72 (1825).

*Persicaria microcephala* (D. Don) Sasaki, Cat. Gov. Herb. 192 (1930), comb. superfl.

***Persicaria nepalensis*** (Meisn.) H. Gross in Engl. Bot. Jahrb. 49: 277 (1913); Kitag., Lineam. Fl. Mansh. 179 (1939), in Satake et al., Wild Fl. Jap. 2: 21, pl. 19-3 (1982); H. Hara, Fl. E. Himal. 72 (1966), in H. Hara et al., Enum. Fl. Pl. Nepal 3: 177 (1982); Grierson and D. G. Long, Fl. Bhutan 1(1): 164 (1983); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 71, t. 283 (1989); W. T. Lee, Lineam. Fl. Kor. 225 (1996), Stand. Ill. Kor. Pl. 77, pl. 77-459 (1996).

*Polygonum nepalense* Meisn., Monogr. Gen. Polyg. Prodr. 84, t. 7, fig. 2 (1826).

*Persicaria nepalensis* (Meisn.) Miyabe\* in Miyabe & Kudo in J. Fac. Agr. Hokkaido Imp. Univ. 26(4): 514 (1934), comb. superfl.; H. Hara in Bot. Bag. Tokyo 48: 892 (1934); Nemoto, Fl. Jap. Suppl. 173 (1936).

*Persicaria nepalensis* (Meisn.) Miyabe & Kudo: T. B. Lee, Ill. Fl. Kor. 308, t. 1232 (1980).

*Polygonum punctatum* Buch.-Ham. ex D. Don, Prodr. Fl. Nepal. 72 (1825), non Elliot (1817), nec Raf. (1820).

*Polygonum punctatum* var. *alatum* Buch.-Ham. ex D. Don, l. c. 72 (1825).

*Polygonum alatum* Buch.-Ham. [ex D. Don, l. c. 72 (1825), pro syn.] ex Spreng., Syst. Veg. 4: 154 (1827).

*Persicaria alata* (Buch.-Ham. ex Spreng.) H. Gross ex T. Mori, Enum. Pl. Cor. 130 (1922), ut *Persicaria alata* (Hemsl.) Gross.

*P. alata* (Buch.-Ham. ex Spreng.) Nakai

[Rep. Veg. Isl. Quelp. 40 (1914), comb. nud.] in Rigakkai **24**: 298 (1926); Nakai\* in Bot. Mag. Tokyo **45**: 113 (1931).

**Persicaria perfoliata** (L.) H. Gross in Engl. Bot. Jahrb. **49**: 275 (1913), in Loes. in Beih. Bot. Centralb. **37**(2): 113 (1919); T. Mori, Enum. Pl. Cor. 133 (1922); H. Hara in J. Jap. Bot. **9**: 253 (1933), in Bot. Mag. Tokyo **48**: 892 (Dec. 1934), Fl. E. Himal. **72** (1966), in H. Hara et al., Enum. Fl. Pl. Nepal **3**: 177 (1982); Miyabe and Kudo\* in J. Fac. Agr. Hokkaido Imp. Univ. **26**(4): 515 (Feb. 1934); Masam. in Mem. Fac. Sci. Agr. Taihoku Imp. Univ. **11**: 174 (Dec. 1934); Nemoto, Fl. Jap. Suppl. 174 (1936); Kitag., Lineam. Fl. Mansh. 180 (1939), in Satake et al., Wild Fl. Jap. **2**: 20, pl. 16-4 and 5 (1982); T. B. Lee, Ill. Fl. Kor. 305, t. 1220 (1980); Grierson and D. G. Long, Fl. Bhutan **1**(1): 160 (1983); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 74, t. 295 (1989); W. T. Lee, Lineam. Fl. Kor. 227 (1996), Stand. Ill. Kor. Pl. 78, pl. 78-463 (1996).

*Polygonum perfoliatum* L., Syst. Nat. ed. **10**: 1006 (1759), Sp. Pl. ed. **2**: 521 (1763).

**Persicaria posumbu** (Buch.-Ham. ex D. Don) H. Gross in Engl. Bot. Jahrb. **19**: 313 (1913); H. Gross\* in Loes., Beih. Bot. Centralb. **37**(2): 113 (1919); Nakai, Rep. Veg. Isl. Querp. 41 (1914); Nemoto, Fl. Jap. Suppl. 174 (1936); H. Hara, Fl. E. Himal. 73 and 634 (1966), in H. Hara et al., Enum. Fl. Pl. Nepal **3**: 177 (1982); Grierson and D. G. Long, Fl. Bhutan **1**(1): 162 (1983); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 68, t. 270 (1989).

*Polygonum posumbu* Buch.-Ham. ex D. Don, Prodr. Fl. Nepal. 71 (Feb. 1825).

*Persicaria posumbu* (Buch.-Ham. ex D. Don) Nakai in T. Mori, Enum. Pl. Cor. 133 (1922), comb. superfl.

*Polygonum caespitosum* Blume, Bijdr. 532 (Dec. 1825–1826).

*Polygonum yokusaianum* Makino in Bot. Mag. Tokyo **28**: 116 (1914).

*Persicaria yokusaiana* (Makino) Nakai in

Rigakkai **24**: 301 (1926); Miyabe and Kudo\* in J. Fac. Agr. Hokkaido Imp. Univ. **26**: 527 (1934); Kitag. in Satake et al., Wild Fl. Jap. **2**: 23, pl. 21-1 (1982); Tzvel. in Novit. Syst. Pl. Vasc. **24**: 75 (1987), in Kharkev., Pl. Vasc. Orient. Extr. Soviet. **4**: 75 (1989); Czerep., Vasc. Pl. Russ. Adj. Stat. 408 (1995), W. T. Lee, Stand. Ill. Kor. Pl. 80 (1996).

*Persicaria yokusaiana* (Makino) Nakai ex Kitag.: W. T. Lee, Lineam. Fl. Kor. 234 (1996).

**Persicaria runcinata** (Buch.-Ham. ex D. Don) H. Gross in Engl. Bot. Jahrb. **49**: 277 (1913); H. Hara, Fl. E. Himal. 74 (1966), in H. Hara et al., Enum. Fl. Pl. Nepal **3**: 178 (1982); Grierson and D. G. Long, Fl. Bhutan **1**(1): 164 (1983).

*Polygonum runcinatum* Buch.-Ham. ex D. Don, Prodr. Fl. Nepal. 73 (1825).

*Persicaria runcinata* (Buch.-Ham. ex D. Don) Masam. in Bot. Mag. Tokyo **51**: 234 (1937), comb. superfl.

*Persicaria runcinata* (Buch.-Ham. ex D. Don) Migo\* in Bull. Shanghai Sci. Inst. **14**: 18 (1944), comb. superfl.

**Persicaria senticososa** (Meisn.) H. Gross in Loes., Beih. Bot. Centralb. **37**(2): 113 (1919); H. Hara in J. Jap. Bot. **9**: 254 (1933); Masam. in Mem. Fac. Sci. Agr. Taihoku Imp. Univ. **11**: 175 (1934); T. B. Lee, Ill. Fl. Kor. 306, t. 1221 (1980); Kitag. in Satake et al., Wild Fl. Jap. **2**: 20, pl. 17-2 (1982); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 74, t. 294 (1989); W. T. Lee, Stand. Ill. Kor. Pl. 78, pl. 78-466 (1996).

*Chylocalyx senticosus* Meisn. in Ann. Mus. Bot. Lugd.-Bat. **2**: 65 (1865).

*Polygonum senticosum* (Meisn.) Franch. & Sav.\*, Enum. Pl. Jap. **1**: 401 (1875).

*Persicaria senticososa* (Meisn.) Nakai [Rep. Veg. Isl. Querp. 41 (1914), comb. nud.] in T. Mori, Enum. Pl. Cor. 133 (1922), comb. superfl.; Ohki\* in Bot. Mag. Tokyo **40**: 54 (1926); Nemoto, Fl. Jap. Suppl. 175 (1936); Kitag., Lineam. Fl. Mansh. 180 (1939).

*Persicaria senticosa* (Meisn.) H. Gross ex Loes.: W. T. Lee, Lineam. Fl. Kor. 229 (1996).

*Truellum japonicum* Houtt., Naturl. Hist. Pl. 8(4): 427, tab. 48, fig. 1 (1777); Soják in Preslia 46: 146 (1974); Tzvel. in Novit. Syst. Pl. Vasc. 24: 76 (1987); in Kharkev., Pl. Vasc. Orient. Extr. Soviet. 4: 87 (1989); Czerep., Vasc. Pl. Russ. Adj. Stat. 414 (1995).

It is clear that the part of Polygonaceae in Loesener (1919) was written by Gross by indication in the headline as "Polygonaceae (H. Gross)". Accordingly, all new combinations of Polygonaceae in Loesener (1919), although most of which are with indirect basionym reference, should be ascribed to H. Gross, not to H. Gross ex Loesener.

**Persicaria thunbergii** (Siebold & Zucc.) H. Gross in Engl. Bot. Jahrb. 49: 275 (1913); H. Gross\* in Loes. in Beih. Bot. Centralb. 37(2): 114 (1919); H. Hara in J. Jap. Bot. 9: 254 (1933), in Bot. Mag. Tokyo 48: 893 (1934); Nemoto, Fl. Jap. Suppl. 175 (1936); Kitag., Lineam. Fl. Mansh. 181 (1939), in Satake et al., Wild Fl. Jap. 2: 20, pl. 17-4 (1982); T. B. Lee, Ill. Fl. Kor. 306, t. 1224 (1980); Grierson and D. G. Long, Fl. Bhutan 1(1): 160 (1983); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 72, t. 285 (1989); W. T. Lee, Lineam. Fl. Kor. 231 (1996), Stand. Ill. Kor. Pl. 79, pl. 79-469 (1996).

*Polygonum thunbergii* Siebold & Zucc. in Abh. Math.-Phys. Kl. Königl. Bayer. Akad. Wiss. 4(3): 208 (1846).

*Persicaria thunbergii* (Siebold & Zucc.) Nakai [Rep. Veg. Isl. Querp. 41 (1914), comb. nud., Rep. Veg. Dagelet Isl. 18 (1919), comb. nud.] in T. Mori, Enum. Pl. Cor. 133 (1922), comb. superfl.; Ohki in Bot. Mag. Tokyo 40: 56 (1926).

**Persicaria trigonocarpa** (Makino) Nakai in Rigakkai 24: 300 (1926); Nakai\* in Bot. Mag. Tokyo 45: 115 (1931); Nemoto, Fl. Jap. Suppl. 176 (1936); Kitag., Lineam. Fl. Mansh. 181 (1939), in Satake et al., Wild Fl. Jap. 2: 23

(1982); T. B. Lee, Ill. Fl. Kor. 312, t. 1248 (1980); Tzvel. in Kharkev., Pl. Vasc. Orient. Extr. Soviet. 4: 76 (1989); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 68, t. 272 (1989); Czerep., Vasc. Pl. Russ. Adj. Stat. 408 (1995); W. T. Lee, Stand. Ill. Kor. Pl. 79, pl. 79-471 (1996).

*Polygonum minus* Hudson form. *trigonocarpum* Makino in Bot. Mag. Tokyo 28: 111 (1914).

*Polygonum trigonocarpum* (Makino) Kudo & Masam.\* in Ann. Rep. Taihoku Bot. Gard. 2: 53 (1932).

*Persicaria erectominor* var. *trigonocarpa* (Makino) H. Hara ex I. Ito\* in J. Jap. Bot. 31: 177 (1956).

*Persicaria trigonocarpa* (Makino) Nakai ex Kitag.: W. T. Lee, Lineam. Fl. Kor. 232 (1996).

**Persicaria viscofera** (Makino) H. Gross [ex Nakai, Rep. Veg. Isl. Querp. 42 (1914), comb. nud.] in Loes. in Beih. Bot. Centralb. 37(2): 114 (1919); H. Hara in J. Jap. Bot. 9: 254 (1933); Nemoto, Fl. Jap. Suppl. 177 (1936); T. B. Lee, Ill. Fl. Kor. 311, t. 1243 (1980); Kitag. in Satake et al., Wild Fl. Jap. 2: 22 (1982); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 69, t. 275 (1989); W. T. Lee, Stand. Ill. Kor. Pl. 79, pl. 79-472 (1996).

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

*Persicaria viscofera* (Makino) Nakai in T. Mori, Enum. Pl. Cor. (1922), comb. superfl., in Rigakkai 24: 300 (1926); Nakai\* in Bot. Mag. Tokyo 44: 519 (1930).

*P. viscofera* (Makino) H. Gross ex Nakai: Tzvel. in Novit. Syst. Pl. Vasc. 24: 75 (1987), in Kharkev., Pl. Vasc. Orient. Extr. Soviet. 4: 75 (1989); Czerep., Vasc. Pl. Russ. Adj. Stat. 408 (1995); W. T. Lee, Lineam. Fl. Kor. 233 (1996).

**Persicaria viscosa** (Buch.-Ham. ex D. Don) H. Gross [ex Nakai, Rep. Veg. Isl. Querp. 42 (1914), comb. nud.] ex T. Mori, Enum. Pl. Cor.

134 (1922); Miyabe and Kudo\* in J. Fac. Agr. Hokkaido Imp. Univ. **26**(4): 524 (1934).

*Polygonum viscosum* Buch.-Ham. ex D. Don, Prodr. Fl. Nepal. 71 (1825).

*Persicaria viscosa* (Buch.-Ham. ex D. Don) Nakai in Rigakkai **24**: 300 (1926), comb. superfl.; H. Hara, Fl. E. Himal. 2nd. Rep. 24 (1971), in H. Hara et al., Enum. Fl. Pl. Nepal **3**: 178 (1982).

*Persicaria viscosa* (Buch.-Ham. ex D. Don) H. Gross: T. B. Lee, Ill. Fl. Kor. 309, t. 1234 (1980); Kitag. in Satake et al., Wild Fl. Jap. **2**: 22 (1982); W. T. Lee, Stand. Ill. Kor. Pl. 79, pl. 79-474 (1996).

*Persicaria viscosa* (Buch.-Ham. ex D. Don) H. Gross ex Nakai: Nemoto, Fl. Jap. Suppl. 177 (1936); Kitag., Lineam. Fl. Mansh. 181 (1939); Tzvel. in Novit. Syst. Pl. Vasc. **24**: 75 (1987), in Kharkev., Pl. Vasc. Orient. Extr. Soviet. **4**: 68 (1989); M. Ono et al., Rev. Makino's New Ill. Fl. Jap. 71, t. 281 (1989); Czerep., Vasc. Pl. Russ. Adj. Stat. 408 (1995); W. T. Lee, Lineam. Fl. Kor. 233 (1996).

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#### References

- Ferguson D. K. 1982. Polygonaceae. In: Lauener L. A. Catalogue of the names published by Hector Léveillé: XIV. Notes RBG. Edinb. **40**: 194-203.  
 Greene E. L. 1904. Certain Polygonaceous genera. Leaflet. Bot. Obs. Crit. **1**: 17-50.  
 Greuter W. (ed.) 1994. International code of botanical nomenclature (Tokyo code), adopted by the fifteenth international botanical congress, Yokohama, August-September 1993. Regnum Vegetabile **131**. 389 pp. Koeltz Scientific Books,

Königstein.

Gross H. 1913a. Beiträge zur Kenntnis der Polygonaceen. Bot. Jahrb. Syst. **49**: 234-339.

——— 1913b. Remarques sur les Polygonées de l'Asie orientale. Bull. Géogr. Bot. **23**: 7-32.

——— 1919. Polygonaceae. In: Loesener T., Die Pflanzenwelt des Kiautschou-Gebietes (Index florae Tsingtauensis). Beih. Bot. Centralb. **37**(2): 111-115.

Hara H. 1966. Polygonaceae. in Fl. E. Himal. 67-75. University of Tokyo.

——— 1982. Polygonaceae. In: Hara H., Chater A. O. and Williams L. H. J., An enumeration of the flowering plants of Nepal **3**: 172-180. Trustees of British Museum (Natural History), London.

Haraldson K. 1978. Anatomy and taxonomy in Polygonaceae subfam. Polygonoideae Meisn. emend. Jaretsky. Symb. Bot. Upsal. **22**(2): 1-93.

Hong S.-P. 1993. Reconsideration of the generic status of *Rubrivena* (Polygonaceae, Persicarieae). Pl. Syst. Evol. **186**: 95-122.

Kitagawa M. 1982. Polygonaceae. In: Satake Y. et al. (ed.) Wild flowers of Japan, herbaceous plants (including dwarf subshrubs) **3**: 14-26. Heibonsha Publ., Tokyo (in Japanese).

Lee T. B. 1979. Illustrated flora of Korea. 990 pp. Seoul (in Korean).

Lee W. T. 1996a. Lineamenta Florae Koreae. 1688 pp. Seoul (in Korean).

——— 1996b. Standard illustrations of Korean plants. 624 pp. Seoul (in Korean).

Mori T. 1922. Enumeration of plants hitherto known from Corea. 372 pp. Seoul (in Japanese).

Nakai T. 1914. Report on the vegetation of Isls. Querpaert and Kwan-to. 156 pp. Tokyo (in Japanese).

——— 1919. Report on the vegetation of Isl. Dagelet, Corea. 87 pp. Tokyo (in Japanese).

——— 1926. A new classification of Linnean *Polygonum*. Rigakkai **24**: 289-301 (in Japanese).

Ono M., Ohba H. and Nishida M. (supervised) 1989. Revised Makino's new illustrated flora of Japan. 1453 pp. Hokuryukan, Tokyo (in Japanese).

Ronse Decraene L. P. and Akeroyd J. R. 1988. Generic limits in *Polygonum* and related genera (Polygonaceae) on the basis of floral characters. Bot. J. Linn. Soc. **98**: 321-371.

Tzvelev N. N. 1989. Polygonaceae. In: Charkevich (Kharkevich) S. S. (ed.) Plantae vasculares orientis extremi Sovietici. **4**: 25-122. Nauka, Leningrad (in Russian).zzz

Yonekura K. and Ohashi H. 1997. Some new combinations of East Asian species of *Polygonum* s. l. J. Jpn. Bot. **72**: 154-161.

米倉浩司, 大橋広好: 東アジア産タデ属 (広義) 植物名の正しい著者名

広義のタデ属 (*Polygonum* L. s. l.) は人為的なまとまりであり, これをより自然な属に細分しようとする試みは今までしばしば提案されている。筆者らもこれらの分類系を比較検討した上で, 狭

義のタデ属を採用した (Yonekura and Ohashi 1997)。東アジア地域では広義のタデ属を分割する分類系を用いている文献が多い。しかしながら, 一部の種の学名では文献間で同じ組合せの著者名

が異なっている。この混乱は、(1)同じ組合せが複数の著者により独立に発表されたこと、(2)組合せが発行部数の少ない著作や日本語の論文として発表されたために、世界の分類学者の目に触れにくかったこと、(3)基礎異名を引用せずに、単に基礎異名の著者名を形容語の後の括弧の中に引用しているため正式発表かどうか疑問のある組合せが多く発表されたこと、が主な原因と考えられる。しかし、国際植物命名規約第32.4条および32.5条に、1952年以前に発表された新組合せは基礎異名を直接に引用していなくてもその著者名を利用してれば正式発表であると規定されているので、(3)にあたる組合せも正式に発表されているものと考えられる。

本論文では、こうした組合せの正しい著者名を示すと共に代表的な文献における引用の状況を整理し、また基礎異名を引用した最も早い文献をも示した。その中で日本産植物の学名に関しては、正しい著者名は次のようになる。

*Bistorta suffulta* (Maxim.) H. Gross クリンユキフデ

*Bistorta tenuicaulis* (Bisset & S. Moore) Nakai ハルト  
ラノオ

*Persicaria bungeana* (Turcz.) Nakai ハリタデ

*Persicaria chinensis* (L.) H. Gross ツルソバ

*Persicaria conspicua* (Nakai) Nakai ex Ohki サクラタ  
デ

*Persicaria debilis* (Meisn.) H. Gross ex W. T. Lee ミヤ  
マタニソバ

*Persicaria filiformis* (Thumb. ex Murray) Nakai ex W.  
T. Lee ミズヒキ

*Persicaria hastatosagittata* (Makino) Nakai ナガバノ  
ウナギツカミ

*Persicaria maackiana* (Regel) Nakai サデクサ

*Persicaria nepalensis* (Meisn.) H. Gross タニソバ

*Persicaria perfoliata* (L.) H. Gross イシミカワ

*Persicaria posumbu* (Buch.-Ham. ex D. Don) H. Gross  
ハナタデ

*Persicaria senticosa* (Meisn.) H. Gross ママコノシリ  
ヌグイ

*Persicaria thunbergii* (Siebold & Zucc.) H. Gross ミゾ  
ソバ

*Persicaria trigonocarpa* (Makino) Nakai ホソバイヌ  
タデ

*Persicaria viscofera* (Makino) H. Gross ネバリタデ

*Persicaria viscosa* (Buch.-Ham. ex D. Don) H. Gross  
ex T. Mori ニオイタデ

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