

Type Collection in the Herbarium of
National Museum of Nature and Science (TNS)
Ericales, Primulales and Lamiales

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Abstract Type specimens of three angiosperm orders (Ericales, Primulales and Lamiales) deposited in the herbarium of National Museum of Nature and Science (TNS) were explored and re-examined. In total, 109 sheets are confirmed as type collections for 68 taxa including 43 holotypes. The 109 sheets consist of 3 Clethraceae, 24 Ericaceae, 1 Epacridaceae, 4 Myrsinaceae, 20 Primulaceae, 9 Boraginaceae, 5 Verbenaceae and 43 Labiatae.

Key words : Ericales, Lamiales, Primulales, TNS-herbarium, type collection.

CLETHRACEAE (F. (= Family No.) 228)

Clethra L.

Clethra barbinervis Siebold et Zucc. forma
grandis Hayashi
in Bull. Gov. For. Exp. Stat. 77: 30, fig. 20
(1955).

Jap. Name. Ohba-ryobu.

Japan, Hondo, Prov. Iwaki [= Fukushima Pref.], Iwaki-gun, Kawabe-mura, Mt. Megane, 1953-7-10, Y. Hayashi s.n. [TNS-VS-255849 = Holotype].

Note. Holotype was originally deposited in the Herbarium of Government Forest Experimental Station according to the original description, but was later transferred to TNS.

Clethra stolonifera Nakai

in Bull. Natl. Sci. Mus., Tokyo 33: 19 (1953).

Jap. Name. Chabo-ryobu.

Japan, Hondo, Prov. Iwashiro [= Fukushima Pref.], Oze, monte Hiutji [= Hiuchi], alt. 1850 m, 1950-8-27, N. Maruyama s.n. [TNS-VS-84014 = Syntype]. Japan, Prov. Tôtômi [= Shizuoka Pref.], Shuchi-gun, urbis Misakubo, Mt. Shirakurayama, alt. 1800 m, 1949-10-25, Y. Hayashi s.n. [TNS-VS-81077 = Syntype].

Note. TNS-VS-84014 was designated as “florifer.-typus” and TNS-VS-81077 as “typus fructus”. Both specimens should be syntypes.

ERICACEAE (F. 230)

Hugeria Small

Hugeria incisa F.Maek.

in Bot. Mag. (Tokyo) 47: 614, fig. 15 (1933).

Jap. Name. Hagoromo-akushiba.

Japan, Hondo-borealis, Prov. Uzen [= Yamagata Pref.], Urbe Higashine, Rokuta, 1932-8-20, S. Okuyama s.n. [TNS-VS-41677 = Isotype].

Note. Holotype in TI (according to the original description).

Menziesia Sm.

Menziesia ciliicalyx (Miq.) Maxim. var. **la-siostipes** Ohwi

in Fl. Jap. (Ohwi) [Japanese ed.] 883 (1953).

Jap. Name. Kenaga-usugi-youraku.

Japan, Prov. Mikawa [= Aichi Pref.], Mt. Goban-ishi, 1934-8-21, Y. Kato s.n. [TNS-VS-45752 = Holotype].

Menziesia goyozanensis M.Kikuchi

in J. Jap. Bot. 37: 355, figs. 1–2 (1962).

Jap. Name. Goyozan-youraku.
Japan, Prov. Rikuzen [=Iwate Pref.], monte Goyozan, 1962-6-27, M. Kikuchi s.n. [TNS-VS-216513 = Isosyntype].

Menziesia katsumatae M.Tash. et H.Hatta
in Bot. Mag. (Tokyo) **99**: 29, figs. 1–2 (1986).
Jap. Name. Hozaki-tsurigane-tsutsuji.
Japan, Honshū, Gifu Pref., Gujo-gun, Hachiman-chō, Mt. Takagasan, 1974-6-14, H. Katsumata and M. Tashiro 5641 [TNS-VS-458266 = Holotype]. H. Katsumata & M. Tashiro 5642 [TNS-VS-467801 = Isotype].

Menziesia yakushimensis M.Tash. et H.Hatta
in Bot. Mag. (Tokyo) **99**: 33, figs. 3–5 (1986).
Jap. Name. Yakushima-youraku.
Japan, Kyushu, Kagoshima Pref., Yaku-shima Island, Mt. Nagatadake, 1973-6-15, H. Hatta s.n. [TNS-VS-458268 = Holotype; TNS-VS-458267 = Isotype].

Phyllodoce Salisb.

Phyllodoce aleutica (Spreng.) A.Heller var. **marmorata** Toyok.
in Symb. Asahikawa **3**: 128 (1968).
Jap. Name. Nishiki-tsugazakura.
Japan, Prov. Ishikari, in monte Asahi montium Taisetsusan, 1966-7-21, H. Toyokuni and Y. Toyokuni s.n. [TNS-VS-285851 = Holotype].

Phyllodoce alpina Koidz. forma **viridiflora** Nakai
in J. Jap. Bot. **14**: 742 (1938).
Jap. Name. Seika-ko-tsugazakura.
Japan, Honshu, Prov. Etchu [=Pref. Toyama], Mt. Tateyama, 1938-8-17, Y. Katō 13 [TNS-VS-59174 = Isotype].
Note. Holotype probably in TI.

Rhododendron L.

Rhododendron albrechtii Maxim. forma **albiflorum** T.Yamaz.
in Rev. Rhodod. Jap., Taiwan, Kor. Sakhal. 121 (1996).
Jap. Name. Shirobana-murasaki-yashio-tsutsuji.
Japan, Pref. Akita, Senhokugun, Kakunodate-

machi, Shiraiwadake, alt. 1230 m, 1974-6-10, S. Saito s.n. [TNS-VS-322660 = Isotype].

Note. Holotype in TI (according to the original description).

Rhododendron amanoi Ohwi
in Bull. Natl. Sci. Mus., Tokyo n.s. **1**: 4 (1954).

Jap. Name. Sakishima-tsutsuji.
Japan, Ryukyu, Ins. Iriomote, Inaba, secundum fluvii Urauchi, 1953-6-27, T. Amano 7185 [TNS-VS-102296 = Holotype].

Rhododendron eriocarpum (Hayata) Nakai var. **tawadae** Ohwi
in Bull. Natl. Sci. Mus., Tokyo n.s. **1**: 4 (1954).

Jap. Name. Senkaku-tsutsuji.
Japan, Ryukyu [=Okinawa Pref.], ins. Uwot-suri, Mt. Uwotsuridake, alt. 300–320 m, 1952-4-17, S. Tawada 29 [TNS-VS-102295 = Holotype; TNS-VS-102293 and TNS-VS-102294 = Isotype].

Rhododendron keiskei Miq. var. **hypoglaucum** Suto et T.Suzuki
in Trans. Nat. Hist. Soc. Taiwan **22**: 23 (1932).
Jap. Name. Urajiro-hikage-tsutsuji.
Japan, Prov. Shimotuke [=Tochigi Pref.], monte Ozaku-san, 1931-5-?, E. Kitamura ST3902 [TNS-VS-55292 = Isotype].
Note. Holotype in TAI (according to the original description).

Rhododendron reticulatum D.Don ex G.Don var. **ciliatum** Nakai
in Bot. Mag. (Tokyo) **40**: 486 (1926).
Jap. Name. Arage-mitsuba-tsutsuji.
Japan, Prov. Suwo [=Yamaguchi Pref.], Yoshiki-gun, oppido Ōuchi, Hikami, 1892?-?-?, J. Nikai 423 [TNS-VS-46989 = Isotype].
Note. Holotype in TI (according to the original description). The collection date is not accurately shown on the label — flowering in 1892-4-20, unfolding young leaves in 1892-4-22, fruiting in 1892-6-17. This specimen has flowers, leaves and fruit.

Rhododendron schlippenbachii Maxim. var. **ciliatum** Nakai
in Bull. Natl. Sci. Mus., Tokyo **33**: 19 (1953).

South Korea, Zennan, monte Gesshutusan, 1936-8-5, M. Bok (S. Hozawa) s.n. [TNS-VS-84733 = Holotype].

Rhododendron serpyllifolium Miq. forma **ama-gianum** Hayashi

in Bull. Gov. For. Exp. Stat. **170**: 81, t. 1, fig. 51 (1964).

Jap. Name. Amagi-unzen-tsutsuji.

Japan, Hondo, Prov. Idzu [= Shizuoka Pref.], Tagata-gun, Amagi-yugashima-cho, Mt. Amagi, 1962-5-4, Y. Hayashi s.n. [TNS-VS-255847 = Holotype].

Rhododendron tschonoskii Maxim. forma **roseotinctum** Kurash., N.Kobayashi et Yukawa

in Ann. Tsukuba Bot. Gard. **19**: 6 (2000).

Jap. Name. Tsumabeni-choji-kometsutsuji.

Japan, Nagano Pref., Komoro-shi, Mt. Kurofu, alt. 2300 m, 1997-7-16, Y. Kurashige & T. Yukawa 351 [TNS-VS-9508515 = Holotype].

Rhododendron wadanum Makino forma **kaiense** Hiyama

in J. Jap. Bot. **28**: 217 (1953).

Jap. Name. Kai-mitsuba-tsutsuji.

Japan, Hondo, Prov. Kai [= Yamanashi Pref.], Mt. Mitsutôge, 1935-5-12, K. Hiyama s.n. [TNS-VS-105557 = Holotype].

Tripetaleia Siebold et Zucc.

Tripetaleia paniculata Siebold et Zucc. var. **fruticulata** Nakai

in Bull. Natl. Sci. Mus., Tokyo **33**: 20 (1953).

Jap. Name. Akizaki-hotsutsuji.

Japan, Hondo, Prov. Etjigo [= Niigata Pref.], Higashi-kambara-gun, urbis Tugawa, Mt. Kirinzan, 1950-10-7, T. Nakai and N. Maruyama s.n. [TNS-VS-83989 and TNS-VS-83990 = Syntypes; TNS-VS-83988 = Isosynotype].

Note. TNS-VS-83989 and -83990 are designated as “Holotype of flowers” and TNS-VS-83990 as “Holotype of fruits”, respectively. Since they are “not clearly labeled as being part of a single specimen” (ICBN 2006, Art. 8.3.), TNS-VS-83989 and -83990 should be syntypes. The collection date is different from

that in the original description (1950-10-10).

Tritomodon Turcz.

Tritomodon campanulatus (Miq.) F.Maek. ex

Okuyama forma **ellipticum** Okuyama

in J. Jap. Bot. **30**: 40 (1955).

Jap. Name. Koban-sarasa-dodan.

Japan, Hondo, Prov. Musashi [= Tokyo Pref.], Komazawa, Toritsu-engei [= Tokyo Metropolitan Horticulture High School], 1952-5-13, T. Oba 2523 [TNS-VS-90280 = Holotype].

Note. A cultivated plant.

EPACRIDACEAE (F. 232)

Cyathodes Labill.

Cyathodes mariannensis Kaneh.

in Bot. Mag. (Tokyo) **48**: 734, fig. 5 (1934).

Mariana Islands (USA), Aramagan Island, 1933-7-6, R. Kanehira 2182 [TNS-VS-11160 = Isotype].

Note. Holotype probably in FU.

MYRSINACEAE (F. 234)

Anamtia Koidz.

Anamtia stolonifera Koidz.

in Bot. Mag. (Tokyo) **37**: 40 (1923).

Jap. Name. Tsuru-manryo.

Japan, Honshû, Prov. Yamato [= Nara Pref.], Yoshino-gun, Imoyama near Kamiichi, 1922-10-9, G. Koizumi s.n. [TNS-VS-364347 = Isotype].

Note. Holotype probably in KYO.

Ardisia Sw.

Ardisia sciophila T.Suzuki

in J. Jap. Bot. **13**: 507 (1937).

Taiwan, Taihoku-shû, Bunzan-gun, Agyoku, Tôgo-kei, Habun-Baron, 1936-6-7, T. Suzuki ST15040 [TNS-VS-60019 = Isotype].

Note. Holotype in TAI (according to the original description).

Bladhia Thunb.**Bladhia violacea** T.Suzuki

in Trans. Nat. Hist. Soc. Taiwan **25**: 41 (1935). Taiwan, Pref. Taihoku-Shû, inter Tyakon et Rimogan, 1934-9-4, T. Suzuki 11697 [TNS-VS-64491 = Isotype].

Note. Holotype in TAI (according to the original description).

Rapanea Aubl.**Rapanea okabeana** Tuyama

in Bot. Mag. (Tokyo) **52**: 465, figs. 2b, 3 (1938).

Jap. Name. Maruba-taimin-tachibana.

Japan, Bonin Islands, Isl. Titizima (= Chichijima), Takeda-Bokuzyo, 1938-3-1, T. Tuyama s.n. [TNS-VS-59478 = Isotype].

Note. Holotype in TI (according to the original description).

PRIMULACEAE (F. 235)

Lysimachia L.**Lysimachia clethroides** Duby var. **crassifolia**

Konta

in Bull. Natl. Sci. Mus., Tokyo, Ser. B **31**: 138, figs. 4, 8 (2005).

Jap. Name. Isokaze-okatoranoo.

Japan, Honshu, Pref. Shizuoka, Shimoda City, Suzaki Peninsula, Suzaki, Region II, Suzaki-goyotei, alt. 50 m, 2005-7-2, F. Konta 24430-a [TNS-VS-749838 = Holotype], F. Konta 24430-b [TNS-VS-749840 = Isotype], F. Konta 24430-c [TNS-VS-749837 = Isotype], F. Konta 24430-d [TNS-VS-749839 = Isotype]. Same locality, 2005-6-19, F. Konta 24395-a [TNS-VS-749602 = Paratype], F. Konta 24395-b [TNS-VS-749601 = Paratype], F. Konta 24395-c [TNS-VS-749561 = Paratype], F. Konta 24395-d [TNS-VS-749562 = Paratype].

Primula L.**Primula candicans** W.W.Sm.

in Trans. & Proc. Bot. Soc. Edinburgh **35**: 190

(1950).

China, South East Tibet, Sobhe La, near Tongyub Dzong, 1947-5-21, F. Ludlow, G. Sherriff and H. H. Elliot 13749 [TNS-VS-107000 and TNS-VS-107017 = Isotypes].

Note. Holotype in BM (according to the original description).

Primula cuneifolia Ledeb. var. **hakusanensis** (Franch.) Makino forma **albiflora** Makino in J. Jap. Bot. **1**: 20 (1917).

Jap. Name. Shirobana-nankin-kozakura.

Japan, Prov. Iwashiro [= Fukushima Pref.], Mt. Iide, 1908-8-16, collector unknown [TNS-VS-14794 = Holotype].

Primula cuneifolia Ledeb. var. **heterodonta** (Franch.) Makino forma **albiflora** Makino in J. Jap. Bot. **1**: 20 (1917).

Jap. Name. Shirobana-michinoku-kozakura.

Japan, Prov. Mutsu [= Aomori Pref.], Mt. Iwaki, 1885-8-?, H. Sakurai s.n. [TNS-VS-9889 = Holotype].

Primula hisauchii Miyabe

in Trans. Sapporo Nat. Hist. Soc. **16**: 187 (1940).

Jap. Name. Kiyosato-kozakura.

Japan, Honshu, Prov. Kai [= Yamanashi Pref.], Kiyosato-mura, 1936-6-14, K. Hisauchi 1415 [TNS-VS-52354 = Holotype].

Primula kisoana Miq. var. **shikokiana** Makino in J. Jap. Bot. **1**: 19 (1917).

Jap. Name. Shikoku-kakkoso.

Japan, Shikoku, Prov. Iyo [= Ehime Pref.], around Kuma, 1885-5-15, K. Fudzino s.n. [TNS-VS-9899 = Syntype].

Note. Another syntype collected by K. Okudaira is not found in TNS.

Primula miyabeana T.Ito et Kawak.

in Miyabe Festschrift 1, pl. 29 (1911).

Taiwan, montem Morrison (Niitaka-yama), alt. 12000 ft., 1908-11-?, T. Kawakami and U. Mori s.n. [TNS-VS-61543 = Holotype].

Primula modesta Bisset et S.Moore var. **shikokumontana** Miyabe et Tatew.

in Trans. Sapporo Nat. Hist. Soc. **16**: 188 (1940).

Jap. Name. Ishizuchi-kozakura.

Japan, Shikoku, Prov. Iyo [= Ehime Pref.], Mt. Ishizuchi, 1885-8-?, T. Makino s.n. [TNS-VS-9891 = Holotype].

Note. The spelling of the variety name is originally “shikoku-montana”.

Primula reinii Franch et Sav. var. **ovatifolia** Ohwi

in Fl. Jap. (Ohwi) [Japanese ed.] 926 (1953).

Jap. Name. Nagaba-koiwazakura.

Japan, Prov. Totomi [= Shizuoka Pref.], Shuchi-gun, Totyuyama, 1949-10-29, Y. Hayashi s.n. [TNS-VS-81076 = Holotype].

Primula rhodotricha Nakai et F. Maek.

in Bull. Natl. Sci. Mus., Tokyo **29**: 85, t. 3 (1950).

Jap. Name. Chichibu-iwazakura.

Japan, Hondo, Prov. Musashi [= Saitama Pref.], Chichibu, in montis rupitus calcinis montis Bukô, 1949-5-11, T. Nakai s.n. [TNS-VS-112138 = Holotype; TNS-VS-112139 = Isotype].

Primula rhodotricha Nakai et F. Maek. forma **leucantha** Nakai

in Bull. Natl. Sci. Mus., Tokyo **29**: 86 (1950).

Jap. Name. Shirobana-chichibu-iwazakura.

Japan, Hondo, Prov. Musashi [= Saitama Pref.], Chichibu, in montis rupitus calcinis montis Bukô, 1949-5-11, T. Nakai s.n. [TNS-VS-112137 = Holotype].

BORAGINACEAE (F. 256)

Cynoglossum L.

Cynoglossum alpestre Ohwi

in Acta Phytotax. Geobot. **2**: 150 (1933).

Taiwan, Taichushu, Mt. Nanko-taisan, Bunakkei, 1933-7-?, J. Ohwi 4076 [TNS-VS-43024 = Isotype].

Note. Holotype probably in KYO.

Macrotomia DC.

Macrotomia nepalensis Kitam.

in Peoples Nepal Himalaya **3**: 423 (1957).

Nepal, Thaple Himal, 1953-7-30, S. Nakao s.n. [TNS-VS-263950 = Isotype].

Note. Holotype in KYO (according to the orig-

inal description).

Mertensia Roth

Mertensia pterocarpa (Turcz.) Tatew. et Ohwi var. **yezoensis** Tatew. et Ohwi
in Acta Phytotax. Geobot. **2**: 106 (1933).

Jap. Name. Ezo-ruriso.

Japan, Yezo [= Hokkaido Pref.], Prov. Ishikari, Sorachigun, Mt. Ashibetsu, 1915-7-30, H. Koidzumi 74009 [TNS-VS-712373 = Isotype].
Note. Holotype in KYO (Yonekura and Kajita, 2003–).

Omphalodes Mill.

Omphalodes laevisperma Nakai

in J. Jap. Bot. **23**: 17 (1949).

Jap. Name. Echigo-ruriso.

Japan, Hondo, Prov. Etjigo [= Niigata Pref.], tractus Higashi-Kambara, Tunaki, 1948-5-30, Y. Ikegami 10319 [TNS-VS-79399 = Holotype]. Japan, Hondo, Prov. Etjigo [= Niigata Pref.], tractus Higashi-Kambara, Akatani, 1948-5-30, Y. Ikegami 10321 [TNS-VS-79400 = Paratype]. Japan, Prov. Etjigo [= Niigata Pref.], tractus Higashi-Kambara, Tugawa, 1948-5-16, Y. Ikegami 10269 [TNS-VS-79401 = Paratype].

Omphalodes prolifera Ohwi

in Bull. Natl. Sci. Mus., Tokyo n.s. **3**: 98, fig. 1 (1956).

Jap. Name. Hai-ruriso

Japan, Honshu, Owari Prov. [= Aichi Pref.], Shinanomachi, Mt. Jokojisan, 1955-6?-10 to 17, K. Inami s.n. [TNS-VS-133753 = Syntype]. Same locality, 1956-5-13, K. Inami s.n. [TNS-VS-133754 = Syntype].

Note. TNS-VS-133753 and TNS-VS-133754 are designated as types of fruit and flowers, respectively. There is some confusion about the collection date of TNS-VS-133753 — “55. 10-17 May” is written by hand on the original label, and the same date is shown on the secondary (herbarium) label. But, the latter was corrected to “At. 17, 1955”. The collection date of the type of fruit is “June 10–17, 1955”

according to the original description.

Trigonotis Steven

Trigonotis coronata Ohwi

in Bot. Mag. (Tokyo) **44**: 571 (1930).

Jap. Name. Koshiji-tabirako.

Japan, Hondo, Prov. Echigo [= Niigata Pref.], Mt. Naebayama, 1927-7-15, J. Ohwi s.n. [TNS-VS-219386 = Isotype].

Note. Holotype in KYO (according to the original description).

VERBENACEAE (F. 258)

Callicarpa L.

Callicarpa dichotoma (Lour.) K.Koch forma **albifructus** Okuyama

in Col. Ill. Wild Pl. Jap. **4**: 137, pl. 351-2, index 16 (1959).

Jap. Name. Shiratama-koshikibu.

Japan, Prov. Settsu [= Hyogo Pref.], Nagao-mura, Yamamoto, 1954-11-21, M. Togashi s.n. [TNS-VS-110624 = Holotype]. Japan, Chiba Pref. Tsudanuma, 1957-9-27, S. Okuyama 20540 [TNS-VS-284546 = Paratype].

Note. Cultivated plants. TNS-VS-284546 is not directly cited in the original description, but a specimen of the plant was used for the plate (photograph).

Callicarpa japonica Thunb. var. **luxurians** Rehder forma **albifrons** Konta

in Bull. Natl. Sci. Mus., Tokyo, Ser. B **31**: 147, figs. 15-6, 7 (2005).

Jap. Name. Shirobana-o-murasakishikibu.

Japan, Honshu, Pref. Shizuoka, Shimoda City, Suzaki Peninsula, Tsumekizaki, Region III, alt. ca. 30 m, 2005-7-2, F. Konta 24428-a [TNS-VS-749810 = Holotype], 24428-b [TNS-VS-749709 = Isotype], 24428-c [TNS-VS-749832 = Isotype].

Note. "F. Konta 24428-a" is also cited as an isotype, but is probably a misprint.

LABIATAE (F. 260)

Ajuga L.

Ajuga elatior Ohwi

in Bull. Natl. Sci. Mus., Tokyo n.s. **1**: 4, fig. 3 (1954).

Jap. Name. Oni-kiranso.

Japan, Ryukyu, ins. Tokunoshima, Kametoku, 1951-5-17, T. Amano 6434 [TNS-VS-90154 = Holotype; TNS-VS-90153 = Isotype].

Note. While the original label is not found in the holotype, the photograph of the type in the original description matches TNS-VS-90154.

Ajuga nipponensis Nakino forma **nivea** Hiyama

in J. Jap. Bot. **28**: 94 (1953).

Jap. Name. Shirobana-junihitoe.

Japan, Hondo, Prov. Musashi [= Tokyo Pref.], 1952-5-?, Y. Fukuhara 6434 [TNS-VS-133460 = Holotype].

Note. A cultivated plant, originally collected at Shirokane, Shiba, Tokyo.

Amethystanthus Nakai

Amethystanthus × **excisinflexus** Nakai

in Bull. Natl. Sci. Mus., Tokyo **33**: 21 (1953).

Jap. Name. Tairin-yamahakka.

Japan, Hondo, Prov. Etjigo [= Niigata Pref.], Higashi-kambara-gun, Ryokanose-mura, Kanose, 1950-10-8, T. Nakai and N. Maruyama s.n. [TNS-VS-83730 = Holotype; TNS-VS-83729 & TNS-VS-83731 = Isotype].

Note. A putative hybrid between *Amethystanthus excisus* Nakai (= *Rabdosia excisa* (Maxim.) H.Hara) and *A. inflexus* Nakai (= *R. inflexa* (Thunb.) H.Hara).

Chelonopsis longipes Makino

in Bot. Mag. (Tokyo) **12**: 57 (1898)

based on *Chelonopsis moschata* Miq. var. *longipes* Makino, nom. nud.

in Bot. Mag. (Tokyo) **6**: 54 (1892).

Jap. Name. Tani-jakoso.

Japan, Shikoku, Prov. Tosa [= Kochi Pref.], Tosa-yama[-go], 1892-10-?, T. Makino s.n. [TNS-VS-10512 = Possible isosyntype].

Note. The collection date is 1892-10-6 in the original description.

Elsholtzia Willd.**Elsholtzia nipponica** Ohwi

in Acta Phytotax. Geobot. **5**: 180 (1935).

Jap. Name. Futobo-naginatakoju.

Japan, Hondo, Yamashiro [= Kyoto Pref.], Kibune, 1935-10-14, G. Ikeo (J. Ohwi 9567) [TNS-VS-224649a and TNS-VS-224649b = Isotypes].

Note. Holotype in KYO (according to the original description). Ohwi's collection number is not indicated in these isotypes.

Isodon (Schrad. ex Benth.) Spach**Isodon kameba** Okuyama ex Ohwi

in Bull. Natl. Sci. Mus., Tokyo **33**: 85 (1953).

Jap. Name. Kameba-hikiokoshi.

Japan, Hondo, Prov. Shinano [= Nagano Pref.], Manzatôge, 1942-8-29, S. Okuyama 7175 [TNS-VS-78143 = Holotype].

Isodon kameba Okuyama ex Ohwi var. **latiofolius** (Okuyama) Okuyama forma **albescens** Okuyama

in Bull. Natl. Sci. Mus., Tokyo n.s. **3**: 16 (1956).

Jap. Name. Shirobana-koshin-yamahakka.

Japan, Honshu, Prov. Shinano [= Nagano Pref.], Shimoina-gun, Ohshikamura, Jigokudani, 1930-9-21, H. Koidzumi 26960 [TNS-VS-109907 = Holotype], H. Koidzumi 26959 [TNS-VS-109906 = Isotype].

Isodon kameba Okuyama ex Ohwi var. **latiofolius** (Okuyama) Okuyama forma **komaensis** Okuyama

in Bull. Natl. Sci. Mus., Tokyo n.s. **3**: 16 (1956).

Jap. Name. Koma-yamahakka.

Japan, Honshu, Prov. Shinano [= Nagano Pref.], monte Koma, 1911-8-17, J. Nikai 2209 [TNS-VS-46647 = Holotype].

Isodon kameba Okuyama ex Ohwi var. **latiofolius** (Okuyama) Okuyama forma **ternatus** Okuyama

in Bull. Natl. Sci. Mus., Tokyo n.s. **3**: 16 (1956).

Jap. Name. Kurumaba-koshin-yamahakka.

Japan, Honshu, Prov. Shinano [= Nagano Pref.], monte Shiomi, 1951-7-28, collector unknown ("ex Y. Hayashi") [TNS-VS-92834 = Holotype].

Isodon trichocarpus (Maxim.) Kudo forma **crythranthus** Ikegami

in J. Jap. Bot. **32**: 128 (1957).

Jap. Name. Akabana-hikiokoshi.

Japan, Niigata [Pref.], Minami-uwonuma, Tsuchidaru, Yomogi-toge, alt. 1250 m, 1955-8-8, Y. Ikegami 29917 [TNS-VS-123854 = Holotype].

Isodon umbrosus (Maxim.) H.Hara var. **latiofolius** Okuyama

in J. Jap. Bot. **26**: 319 (1951).

Jap. Name. Koshin-yamahakka.

Japan, Honshu, Prov. Kai [= Yamanashi Pref.], Sagashio-kosen, 1943-9-11, Y. Satake & S. Okuyama 4969 [TNS-VS-78124 = Holotype].

Japan, Honshu, Prov. Kai [= Yamanashi Pref.], Mt. Mitsu-toge, 1948-9-1, K. Hiyama s.n. [TNS-VS-80036 = Paratype]. Japan, Honshu, Prov. Shinano [= Nagano Pref.], Kitazawa-tôge, 1938-8-5, S. Okuyama 4311 [TNS-VS-72449a, TNS-VS-72449b and TNS-VS-72449c = Paratypes].

Isodon ×ohwii Okuyama

in Bull. Natl. Sci. Mus., Tokyo n.s. **3**: 16 (1956).

Jap. Name. Kurobana-yamahakka.

Japan, Honshu, Prov. Echigo [= Niigata Pref.], Oyu, 1949-9-?, J. Ohwi s.n. [TNS-VS-85008 = Holotype; TNS-VS-85007 = Isotype].

Note. A putative hybrid between *I. inflexus* (Thunb.) Kudô and *I. trichocarpus* (Maxim.) Kudô.

Isodon ×suzukii Okuyama

in Bull. Natl. Sci. Mus., Tokyo n.s. **3**: 17 (1956).

Jap. Name. Kameba-yamahakka.

Japan, Honshu, Prov. Iwaki [= Fukushima Pref.], monte Kochiyama, 1950-9-20, S. Suzuki s.n. [TNS-VS-83948 = Holotype].

Note. A putative hybrid between *I. kameba* Okuyama ex Ohwi and *I. inflexus* (Thunb.) Kudô.

Isodon ×togashii Okuyama

in Bull. Natl. Sci. Mus., Tokyo n.s. **3**: 16 (1956).

Jap. Name. Koshiji-hikiokoshi.

Japan, Honshu, Prov. Kodzuke [=Gunma Pref.], Shimidzu-toge, 1951-9-16, M. Togashi s.n. [TNS-VS-109911 = Holotype; TNS-VS-109910, TNS-VS-109912, TNS-VS-109913, TNS-VS-109914, TNS-VS-109915 and TNS-VS-109916 = Isotypes].

Note. A putative hybrid between *I. excisiflexus* Nakai (Honda) and *I. kameba*.

Mentha L.**Mentha afghanica** Murata

in Acta Phytotax. Geobot. **17**: 73 (1958).

Afghanistan, Eastern Prov., near Chaghasarai, 1955-7-26, S. Kitamura s.n. [TNS-VS-249737 = Isotype].

Note. Holotype in KYO (according to the original description).

Micromeria Benth.**Micromeria nepalensis** Kitam. et Murata

in Acta Phytotax. Geobot. **16**: 3 (1955).

Nepal, Bangu Khola, alt. 3400 m, 1953-7-23, S. Nakao s.n. [TNS-VS-263933 = Possible isotype].

The collection date is different from that in the original description (1953-7-11).

Holotype in KYO (according to the original description).

Nepeta L.**Nepeta subsessilis** Maxim. forma **latifolia** Nakai

in J. Jap. Bot. **23**: 15 (1949).

Jap. Name. Hiroha-misogawaso.

Japan, Hondo, Prov. Rikutyū [=Iwate Pref.], Isawa, monte Yakeisidake, 1942-8-30, H. Iwabuchi s.n. [TNS-VS-72730 = Holotype].

Phlomis L.**Phlomis kawaguchii** Murata

in Acta Phytotax. Geobot. **16**: 15 (1955).

China, Tibet, circa Lhasa, Pulunka temple, 1914-8-20, E. Kawaguchi 79 [TNS-VS-103284 = Holotype].

Prunellopsis Kudō**Prunellopsis prunelliformis** (Maxim.) Kudō
forma **lilacina** Nakai

in Bull. Natl. Sci. Mus., Tokyo **29**: 97 (1950).

Jap. Name. Usuiro-hakusan-utsubo.

Japan, Hondo, Prov. Shinano [=Nagano Pref.], Kita-azumi-gun, monte Happōzan, 1948-8-4, Y. Hayashi s.n. [TNS-VS-81068 = Holotype].

Salvia L.**Salvia omerocalyx** Hayata var. **prostrata** Satake

in J. Jap. Bot. **17**: 724 (1941).

Jap. Name. Hai-tamuraso.

Japan, Honshu, Prov. Etizen [=Fukui Pref.], Kurokawa, 1936-6-9, Z. Tashiro s.n. [TNS-VS-56576 = Holotype].

Salvia ×sakuensis Naruh. et Hihara

in J. Phytogeogr. Taxon. **49**: 168 (2002).

Jap. Name. Saku-kibana-akigiri.

Japan, Nagano Pref., Saku-shi, Uchiyama, alt. 800 m, 2001-9-24, N. Naruhashi 1092401 [TNS-VS-775650 = Isotype].

Scutellaria L.**Scutellaria indica** L. var. **japonica** Franch. et Sav. forma **humilis** Makino

in Bot. Mag. (Tokyo) **18**: 46 (1904).

Jap. Name. Shisoba-tatsunami.

Japan, Prov. Tosa [=Kochi Pref.], Akinokawamura, 1892-6-3, T. Makino s.n. [TNS-VS-10753 = Isotype].

Note. Holotype in MAK (Yonekura and Kajita. 2003–). This is the basynonym of *Scutellaria laeteviolacea* Koidz.

Scutellaria shikokiana Makino forma **pubericaulis** Ohwi

in Fl. Jap. (Ohwi) [Japanese ed.] 1000 (1953).

Jap. Name. Ke-miyama-namiki.

Japan, Kiushu, Osumi [=Kagoshima Pref.],

Mt. Takakuma, 1913-7-24, Z. Tashiro s.n. [TNS-VS-31057 = Holotype].

Scutellaria transitra Makino

in Bot. Mag. (Tokyo) **18**: 70 (1904).

Jap. Name. Yama-tatsunamiso.

Japan, Prov. Tosa [=Kochi Pref.], Sakawa[mura], 1889-5-18, T. Makino s.n. [TNS-VS-10758 = Isosynotype].

Stachys L.

Stachys takanoi Satake

in J. Jap. Bot. **17**: 721 (1941).

China, Manchukuo, Prov. Lung-chiang, Chên-tung-hsien, Chiêu-t'ai, 1940-7-15, T. Takano 68 [TNS-VS-13271 = Holotype]. Prov. Lung-chiang, Chên-tung-hsien, Êr-ching, 1940-7-26, T. Takano 29 [TNS-VS-13272 = Paratype], same locality, T. Takano 45 [TNS-VS-13273 = Paratype].

Teucrium L.

Teucrium veronicoides Maxim. var. **brachytrichum** Ohwi

in Fl. Jap. (Ohwi) [Japanese ed.] 998 (1953).

Jap. Name. Inu-nigakusa.

Japan, Hondo, Uzen [=Yamagata Pref.], Tachitanisawa, 1948-8-3, M. Kato s.n. [TNS-VS-85735 = Holotype].

Following specimens have not yet found in the herbarium, though they are cited as holotypes and an isotype in the original description.

Enkianthus subsessilis (Miq.) Makino var. **angustifolius** H.Hatta et K.Yoshida

in Ann. Tsukuba Bot. Gard. **8**: 11 (1989).

Jap. Name. Hosoba-abura-tsutsuji.

Japan, Gunma Pref., Onishi-machi, Nango, Sanbagawa (cultivated at private garden of T. Azami, Saitama Pref.), 1986-5-16, K. Yoshida & N. Kobayashi s.n. [TNS-VS-? = Holotype].

Rhododendron sataense Nakai

in Bull. Natl. Sci. Mus., Tokyo **27**: 33 (1949).

Jap. Name. Sata-tsutsuji.

Japan, Osumi [=Kagoshima Pref.], Sata, 1948-4-16, T. Nakai & N. Maruyama s.n. [TNS-VS-? = Holotype].

Primula tosaensis Yatabe forma **brachycarpa**

H.Hara

in Iconogr. Pl. Asiae Orient. **1**(4): 76 (1936).

Jap. Name. Shinano-kozakura.

Japan, Shinano [=Nagano Pref.], Kosedozawa, 1928-7-15, H. Koidzumi 16639 [TNS-VS-? = Holotype].

Salvia japonica Thunb. forma **albiflora** Hiyama

in J. Jap. Bot. **17**: 319 (1941).

Jap. Name. Shirobana-aki-no-tamuraso. Japan, Sagami [=Kanagawa Pref.], Arasiyama, 1938-10-9, K. Hiyama s.n. [TNS-VS-? = Holotype].

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Yonekura, K. and T. Kajita. 2003-. BG Plants Name Index (YList). http://bean.bio.chiba-u.jp/bgplants/ylist_main.html.