

Type Collection in the National Science Museum, Tokyo (TNS)
LILIALES

Hiroshige Koyama¹ and Hiroshi Takahashi²

¹Department of Botany, National Science Museum, Tokyo,
Amakubo 4-1-1, Tsukuba-shi, Ibaraki, 305-0005 Japan

²Department of Biology, Faculty of Biology, Gifu University,
Yanagido 1-1, Gifu-shi, Gifu, 501-1193 Japan

Abstract Thirty seven sheets of herbarium specimens of Liliales are confirmed as a type. Twenty one sheets are recognized as a holotype including a lectotype and others are as an isotype or isosynotype. They are of 17 species, 13 varieties and 3 formas.

Key words: type collection, Liliales, TNS-herbarium.

In the course of our making the Herbarium Index in the National Science Museum, Tokyo (TNS), all specimens belonging to the order Liliales were taxonomically examined. More than 20,000 sheets of specimens have been deposited. 150 genera could be listed and about 1100 species were enumerated in our Herbarium Index issued in 1997. There are 37 sheets which are recognized as type specimens for 21 genera of Liliales. Twenty one sheets are recognized as a holotype including a lectotype for 8 species, 10 varieties and 3 formas, and others are as an isotype or isosynotype for 10 species and 4 varieties.

BURMANIACEAE

Glaziocharis Taub. ex Warm.

Glaziocharis abei Akasawa

in Journ. Jap. Bot. 25: 193 (1950).

Shikoku, Awa Prov.: Obata, Sawatani-mura.

Date: 1950-8-4 (ut 1950-7-12). Coll.: Y. Akasawa s. n. (ut I. Shinohara s. n.)

[TNS-83945=holotype]

According to the original description, the collector is of I. Shinohara and the date is of 12 July, 1950. The specimen was donated by the original author, Akasawa, to T. Nakai, who was a professor in his student days and a director of the National Science Museum, Tokyo, at that time. Description of the original label was written by T. Nakai, but not by the collector himself. Record of date and collector of the label can be considered as a clerical error.

IRIDACEAE

Iris L.*Iris formosana* Ohwi

in Acta Phytotax. Geobot. 3: 115 (1934).

Taiwan, Taihoku-shu: Chippongoe, Matsuyama to Aderu.

Date: 1933–5–7. Coll.: J. Ohwi 1558 [TNS-228820, 228821 = isotypes]

LILIACEAE

Aletris L.*Aletris makiyataroi* Naruhashi

in Acta Phytotax. Geobot. 25: 131 (1973).

Shikoku, Kagawa Pref.: Sakase, Awai-cho, Kan'onji-shi.

Date: 1971–5–16. Coll.: N. Naruhashi 3198 [TNS-284765 = isotype]

Aletris spicata Franch. var. *micrantha* Satake

in Journ. Jap. Bot. 17: 725 (1941).

Taiwan, Tainan: Mt. Niitaka-yama.

Date: 1940–10–27. Coll.: R. Imazeki & S. Satake s. n. [TNS-70281 = holotype]

Allium L.*Allium schoenoprasum* L. var. *caespitans* Ohwi

Fl. Japan (Shibundo, Tokyo). Revised ed.: 1437 (1965).

Honshu, Tochigi Pref.: Kashiwakura, Tochigi-shi.

Date: 1958–5–19. Coll.: M. Furuse s. n. [TNS-341701 = holotype]

Asparagus L.*Asparagus rigidulus* Nakai

in Bot. Mag. Tokyo, 27: 213 (1913).

Honshu, Yamaguchi Pref.: Tadano-hama, Otsu-gun.

Date: 1905–5–30. Coll.: J. Nikai 1438 [TNS-49265 = isotype]

Chionographis Maxim.*Chionographis japonica* Maxim. var. *hisauchiana* Okuyama

in Journ. Jap. Bot. 27: 268 (1952).

Honshu, Musashi Prov.: Kasumi-mura.

Date: 1951–6–3. Coll.: T. Satow 7594 [TNS-642585 = holotype]

Chionographis koidzumiana Ohwi

in Bot. Mag. Tokyo, 44: 565 (1930).

Honshu, Kii Prov.: Mt. Nachi.

Date: 1929–5–12. Coll.: J. Ohwi s. n. [TNS-43153, -231361 = isotypes]

Chionographis koidzumiana Ohwi var. *mikawana* Ohwi et Okuyama
in Journ. Jap. Bot. 28: 304 (1953).
Honshu, Mikawa Prov.: Tomiyama-mura.
Date: 1953–5–31. Coll.: K. Inami s. n. [TNS-98861=holotype]

***Clintonia* Rafin.**

Clintonia udensis Trautv. et Mey. var. *lanceolata* Hayashi
in Journ. Jap. Bot. 29: 200 (1954).
Honshu, Nagano Pref.: Nishi-dake in Yatuga-dake, Suwa-gun.
Date: 1951–8–15. Coll.: Y. Hayashi s. n. [TNS-255472=isotype]

***Fritillaria* L.**

Fritillaria japonica Miq.
Ann. Mus. Bot. Lugd. Bat. 3: 158 (1867); Hara & Kanai in Journ. Jap. Bot.
32:189 (1957).
Honshu, Mino Prov.: Kitayama.
Date: without record. Coll.: Y. Inuma s. n. [TNS-22351=lectotype]

***Hemerocallis* L.**

Hemerocallis darrowiana S. Y. Hu
in Hemerocallis Journ. 23 (4): 42 (1969).
Saghalin: Kami-kiminai, Tominai-gun.
Date: 1942 (ut 2602)–8–11. Coll.: H. Sase 4 [TNS-70917=holotype]

Hemerocallis sendaica Ohwi
in Bull. Nat. Sci. Mus., Tokyo, no. 26: 6 (1949).
Honshu, Miyagi Pref.: Shiromizu-sawa, Daiga-hara, Sendai.
Date: 1922–6–14. Coll.: T. Ito s. n. [TNS-64076=holotype]

***Hosta* Tratt.**

Hosta lancifolia Engler f. *albiflora* Ikegami
in Journ. Jap. Bot. 32: 126 (1957).
Honshu, Fukushima Pref.: Nishi-shirakawa, 400 m alt., Shirakawa.
Date: 1954–8–12. Coll.: Y. Ikegami 27652 [TNS-128129=holotype]

***Lilium* L.**

Lilium medeoloides A. Gray f. *atropurpureum* Okuyama
in Journ. Jap. Bot. 30: 41 (1955).
Honshu, Shinano Prov.: Seijyo-daira, 1850 m alt., Mt. Shirouma.
Date: 1950–8–2. Coll.: N. Maruyama s. n. [TNS-98253=holotype]

Liriope Lour.*Liriope crassiuscula* Ohwi

in Acta Phytotax. Geobot. 12: 108 (1943).

Shansi: Niang-Tze-Kwan.

Date: 1942-9-27. Coll.: T. Kanashiro 5189 [TNS-231479=isotype]

Miyoshia Makino*Miyoshia sakurii* Makino

in Bot. Mag. Tokyo, 17: 145 (1903).

Honshu, Prov. Mino: Foot of Mt. Ena.

Date: 1903-7-27. Coll.: H. Sakurai s. n. [TNS-4037=isotype]

This genus is now considered to be the same as *Petrosavia* Becc.

Paris L.*Paris tetraphylla* A. Gray var. *penduliflora* Murata et Yamanaka

in Acta Phytotax. Geobot. 17: 52 (1957).

Shikoku, Ehime Pref.: Mt. Higashi-akaishi, 1600 m alt.

Date: 1957-5-31. Coll.: Murata & Shimizu 1746 [TNS-133044=isotype]

Peliosanthes Andr.*Peliosanthes kaoi* Ohwi

in Journ. Jap. Bot. 42: 317 (1967).

Taiwan: Mt. Ramaramanii, 1400-1600 m alt., Taitung Hsien.

Date: 1967-7-29. Coll.: M. T. Kao 6870 [TNS-175668=holotype]

Polygonatum Mill.*Polygonatum desoulavyi* Komar. var. *azegamii* Ohwi

Fl. Japan (Shibundo, Tokyo). Revised ed.: 1439 (1965).

Honshu, Musashi Prov.: Minamitakao (cultivated at Ringyo-shikenjyo) (ut Mt. Takao).

Date: 1964-5-*. Coll.: without record (ut U. & C. Azegami) [TNS-175416=holotype]

Polygonatum domonense Satake

in Journ. Jap. Bot. 45: 4 (1970).

Honshu, Yamagata Pref.: Katadomon, 240 m alt., Oguni-cho, Nishi-tamaoki-gun. {Cultivated at Urawa and flowered on 6 June, 1968.}

Date: 1968-5-3. Coll.: D. Shimizu s. n. [TNS-248910=holotype]

Polygonatum falcatum A. Gray var. *hyugaense* Hiyama

in Journ. Jap. Bot. 32: 164 (1957).

Kyushu, Hyuga Prov.: Kawaminami-mura.

Date: 1950-4-27. Coll.: M. Nagasawa s. n. [TNS-133476=holotype, 98299=iso-

type]

Polygonatum miserum Satake

in Journ. Jap. Bot. 18: 37 (1942).

Honshu, Nagano Pref.: cultivated at Shimizu-tei (collected from Azusa-yama).

Date: 1941-*(ut 6)-*. Coll.: D. Shimizu s. n. [TNS-64478=holotype]

Polygonatum tenuiflorum Koidz.

in Bot. Mag. Tokyo, 33: 112 (1919).

Honshu, Yamaguchi Pref.: Ohuchi-mura, Yoshiki-gun.

Date: 1893-6-3. Coll.: J. (ut T.) Nikai 1039 [TNS-49358=isotype]

***Schoenocaulon* A. Gray**

Schoenocaulon jaliscense Greenman

in Proc. Amer. Acad. 43: 20 (1907).

Mexico, Jalisco State: Barranca bluffs near Guadalajara.

Date: 1903-10-15. Coll.: C. G. Pringle 11853 [TNS-207288=isotype]

***Scilla* L.**

Scilla borealijaponica M. Kikuchi

in Ann. Rep. Gakugei Fac. Iwate Univ., 11(2): 67 (1957).

Honshu, Iwate Pref.: Tamayama-mura, Iwate-gun.

Date: 1950-8-6. Coll.: M. Kikuchi s. n. [TNS-132466=isotype]

***Tofieldia* Huds.**

Tofieldia kiusiana Okuyama

in Journ. Jap. Bot. 26: 294 (1951).

Kyushu, Miyazaki Pref.: Mt. Horaga-take, Iwado-mura, Nishi-usuki-gun.

Date: 1915-8-23. Coll.: Z. Tashiro s. n. [TNS-25160=holotype]

Tofieldia kiusiana Okuyama var. *geibiensis* Kikuchi

in Ann. Rep. Gakugei Fac. Iwate Univ., 11(2): 67 (1957).

Honshu, Iwate Pref.: Geibi-kei near Ichinoseki, Higashiiwai-gun.

Date: 1947-8-15. Coll.: M. Kikuchi s. n. [TNS-132649=isotype]

Tofieldia nuda Maxim. var. *furusei* Hiyama

in Journ. Jap. Bot. 28: 154 (1953).

Honshu, Tochigi Pref.: Ohya.

Date: 1949-9-4. Coll.: M. Furuse s. n. [TNS-105571=holotype]

***Tricyrtis* Wall.**

Tricyrtis hirta Hook. f. *nivea* Hiyama

in Journ. Jap. Bot. 28: 155 (1953).

Honshu, Musashi Prov.: cultivated at Tokyo.

Date: 1952-*(ut 10)-*. Coll.: Y. Fukuhara s. n. [TNS-105570=holotype]

Tricyrtis latifolia Maxim. var. *nikkomontana* Hiyama

in Journ. Jap. Bot. 27: 26 (1952).

Honshu, Tochigi Pref.: Yumoto, Nikko.

Date: 1951-7-26. Coll.: T. Tanabe & H. Yoshitake s. n. [TNS-110130=holotype]

Tricyrtis macrantha Maxim. var. *ishiana* Kitagawa et T. Koyama

in Journ. Jap. Bot. 33: 254 (1958).

Honshu, Kanagawa Pref.: Mt. Toga-take, Tanzawa.

Date: 1957-9-2. Coll.: H. Ishii s. n. [TNS-133457=holotype]

Tricyrtis nana Yatabe

in Bot. Mag. Tokyo, 7: 39, Pl. 3 (1893).

Shikoku, Kochi Pref.: Mt. Kokuson-yama, Hata-gun.

Date: 1892-8-23. Coll.: K. Watanabe s. n. [TNS-62696=isosytype]

***Veratrum* L.**

Veratrum stamineum Maxim. var. *micranthum* Satake

in Journ. Jap. Bot. 18: 661 (1942).

Honshu, Mikawa Prov.: Togo-mura.

Date: 1940-5-26. Coll.: K. Torii s. n. [TNS-70594=holotype]