

Type Collection in the Herbarium of National Science
Museum, Tokyo (TNS)
Plantaginales, Dipsacales and Campanulales

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Abstract This is a list of the type collection of Plantaginales, Dipsacales and Campanulales in the Herbarium of National Science Museum, Tokyo (TNS) at Tsukuba campus. Forty eight type specimens are confirmed. In the Plantaginales, one type is of *Plantago*. In the Dipsacales, 38 types are of *Abelia*, *Lonicera*, *Sambucus*, *Triose-tum*, *Viburnum* and *Weigela* (Caprifoliaceae), and of *Scabiosa* (Dipsacaceae). In the Campanulales, 9 types are of *Adenophora*, *Campanula*, *Codonopsis*, *Cyananthus* and *Lobelia* (Campanulaceae).

Key words: type collection, Plantaginales, Dipsacales, Campanulales

In the course of our making the Herbarium Index in the National Science Museum, Tokyo (TNS), all specimens belonging to three Orders, Plantaginales, Dipsacales and Campanulales were checked. More than 20,000 sheets of specimens are deposited. 100 genera could be listed and 1300 species were enumerated in our Herbarium Index issued in 2000. There are 48 sheets of which were recognized as a type specimen for 14 genera of three Orders. Fifteen five sheets are recognized as a holotype including two lectotypes and one neotype, and others are as an isotype, syntype or isosyntype.

Plantaginaceae (F. 278)

Plantago polita L. A. Craven in Contrib. Herb. Austral. **13**: 4 (1976).

Papua New Guinea, Cenral District: Mt. victoria, 1974-7-12, L. A. Craven 3058 [TNS-372008=isotype].

Caprifoliaceae (F. 279)

Abelia integrifolia Koidz. in Bot. Mag. Tokyo **29**: 312 (1915).

Honshu, Bicchu: Kawanose, Atetsu-gun. 1914-5, Z. Yoshino s. n. [TNS-46227=isosyntype].

- Abelia ionostachya** Nakai in Bull. Nat. Sci. Mus., Tokyo (33): 23 (1953).
Honshu, Niigata: Kirin-yama, Tsukawa-cho, Higashikanbara-gun, 1950-5-26, T. Nakai & N. Maruyama s. n. [TNS-83706=holotype].
- Lonicera calcarata** Hemsl. in Bot. Mag. **27**: pl. 2632 (1900).
China, Yunnan: Mengtze, —, A. Henry 10721B [TNS-190251=isosyntype].
- Lonicera fudzimoriana** Makino in Bot. Mag. Tokyo **28**: 125 (1914).
Honshu, Iwaki: Miharu, without records of date & collector [TNS-18211=syntype].
- Lonicera harai** Makino
var. **tashiroi** Nakai, Tent. Capr. Jap.: 94 (1921).
Kyushu, Nagasaki: Sasuna, Tsushima, 1911-4-, Z. Tashiro s. n. [TNS-18218=lectotype].
- Lonicera mochidzukiana** Makino in Bot. Mag. Tokyo **28**: 119 (1914).
Honshu, Shimotsuke: Nikko, 1901-6-12, T. Yabe s. n. [TNS-239625=syntype].
- Lonicera morrowii** A. Gray
var. **gamushiensis** Hayashi in Bull. Gov. For. Exp. Sta. (170): 81, t. 2, f. 56 (1964).
Hokkaido, Hiya: Mt. Gamushi, 1952-8-14, Y. Hayashi s. n. [TNS-255846=isotype].
- Lonicera musashiensis** Hiyama in Journ. Jap. Bot. **24**: 113 (1949).
Honshu, Musashi: Mt. Bono'ore-yama, 1938-4-26, K. Hiyama s. n. [TNS-82145=holotype].
- Lonicera nomurana** Makino in Bot. Mag. Tokyo **28**: 122 (1914).
Honshu, Kii: without record of collection site, 1877-, without record of collector [TNS-11437=syntype].
- Lonicera okamotoana** Ohwi in Journ. Jap. Bot. **13**: 340 (1937).
Korea, Keinan: Mt. Chii, 1935-6, J. Ohwi 6840 [TNS-225858=isotype].
- Lonicera shikokiana** Makino in Bot. Mag. Tokyo **26**: 220, f. 19 (1912).
Shikoku, Awa: Mt. Koutsu-san, Oe-gun, 1905-4-30, J. Nikai 1493 [TNS-46246=isosyntype]; Kouchi: Nanokawa, Agawa-gun, 1889-4-10, K. Watanabe s. n. [TNS-53251=isosyntype].
- Lonicera strophophora** Franch.
var. **glabrifolia** Ohwi in Journ. Jap. Bot. **42**: 343 (1967).
Honshu, Iwate: Mt. Goyo-zan, 1967-6-24, Koyama & Hotta 2287 [TNS-171237=holotype].
f. **lancifolia** Hayashi in Bull. Gov. For. Exp. Sta. (107): 28 (1958).
Honshu, Shinano: Kamikouchi, 1955-6-20, Y. Hayashi s. n. [TNS-255850=isotype].
- Lonicera tenuipes** Nakai
var. **chichibuana** Hiyama in Journ. Jap. Bot. **24**: 114 (1949).
Honshu, Musashi: Mt. Bohno'ore-yama, 1938-4-26, K. Hiyama s. n. [TNS-82143=holotype].

In the original description, the date is cited as 1939-4-23.

Sambucus buergeriana Blume

var. **glabra** Nakai in Bull. Nat. Sci. Mus., Tokyo (33): 23 (1953).

Hokkaido, Oshima: Udura-gawa, Assabu-mura, 1950-5-22, T. Nakai & N. Maruyama s. n. [TNS-83849=holotype; TNS-83850=isotype].

var. **platyphylla** Miyabe et Tatewaki in Trans. Sapporo Nat. Hist. **15**: 207 (1938).

Hokkaido, Kitami: Tsunero-mura, Tsunero-gun, 1937-8-17, H. Iwamoto 2204 [TNS-59619=holotype, TNS-59620=isotype].

Triosteum maruyamae Ohwi in Bull. Nat. Sci. Mus., Tokyo (45): 402, t. 76 (1959).

Honshu, Kai: Higashi-zawa, Fuefuki-gawa, Higashiyamanashi-gun, 1959-5-22, N. Maruyama s. n. [TNS-1399285=holotype, TNS-1399295=isotype].

Viburnum erosum Thunb.

var. **osumianum** Hiyama in Journ. Jap. Bot. **31**: 224 (1956).

Kyushu, Osumi: Kirishima-mura, 1953-5-1, M. Nagasawa s. n. [TNS-132567=holotype].

Viburnum odoratissimum Ker

var. **serratum** Makino in Bot. Mag. Tokyo **28**: 27 (1914).

Honshu, Tokyo: Ueno (cult.), 1914-4-23, K. Nemoto s. n. [TNS-20602=neotype; TNS-20603=isoneotype].

Viburnum phlebotrichum Sieb. et Zucc.

f. **xanthocarpum** Hayashi in Bull. Gov. For. Exp. Sta. (170): 82 (1964).

Honshu, Gunma: Kusaki, Higashi-mura, Seta-gun, 1961-10-15, Y. Hayashi s. n. [TNS-255846=isotype].

Viburnum wrightii Miq.

var. **eglandulosum** Nakai, Tent. Capr. Jap.: 36 (1921).

Honshu, Mutsu: Mt. Iwaki-san, 1885-8, H. Sakurai s. n. [TNS-11547=syntype]; Kyushu, Hyuga: Mt. Shiraiwa-yama, Nishiusuki-gun, 1915-8-19, Z. Tashiro s.n. [TNS-24975=syntype]. Shikoku, Ehime: Mt. Ichizuchi, 1915-7-6, G. Koidzumi s. n. [TNS-364408=lectotype].

var. **minus** Nakai, Tr. & Shr. Jap. ed. **2**: 605 (1927).

Honshu, Yamaguchi: Sawa, Misumi-mura, 1917-4-28, J. Nikai 2731 [TNS-46279=isotype].

There is another sheet of the specimen "TNS-30226". The comparative observation on the isotype and another specimen has revealed that the specimen is a part of the isotype, though there is no label which was made by the original collector. Thus, the specimen "TNS-30266" can be considered to be an isotype of this variety.

var. **syvestre** Koidz. in Bot. Mag. Tokyo **29**: 159 (1915).

Shikoku, Ehime: Mt. Ichizuchi, 1915-7-6, G. Koidzumi s. n. [TNS-364408=isosyntype].

f. **kaiense** Hiyama in Journ. Jap. Bot. **31**: 224 (1956).

Honshu, Kai: Komaki-mura, 1951-6-3, M. Furuse s. n. [TNS-132572=holotype]. In the original description and the original label, collector's number was not cited, but in the collector's label, collector's number, 18401, was recorded.

f. **nikoense** Hiyama in Journ. Jap. Bot. **31**: 224 (1956).

Honshu, Shimotsuke: Nikko, 1952-8-12, B. Makino s. n. [TNS-132568=holotype].

Weigela fragrans Ohwi in Journ. Jap. Bot. **24**: 75 (1949).

Idzu Isl., Hachijojima: Mukiyahdo, Kashitate-mura, 1949-5-31, J. Ohwi & N. Maruyama s. n. [TNS-80011=holotype, TNS-81147=isotype].

Dipsacaceae (F. 282)

Scabiosa mairei Levl. in Fedde, Repert. **12**: 535 (1913).

China, Yunnan: Tong-tchouan, 1912-9, E. E. Maire s. n. [TNS-322040=isotype].

The specimen can be identified as *Myriactis nepalensis*, not a species of Dipsacaceae but that of Asteraceae.

Scabiosa togashiana Hurusawa in Bot. Mag. Tokyo **62**: 43 (1949).

China, Shansi: Mt. Wu-tai shan, 1942-7-23, M. Togashi 987 [TNS-85746=isotype].

In the original description, date of collection is 23 July, 1942, though it is from 23 July to 7 August, Kouki 2602 in the original label. Kouki 2602 is equivalent to AC. 1942.

Campanulaceae (F. 283)

Adenophora divaricata Fr. et Sav.

f. **angustifolia** Hiyama in Journ. Jap. Bot. **27**: 142 (1952).

Honshu, Kai: Mt. Mitsutoge, 1934-8-, K. Hiyama s. n. [TNS-90293=holotype].

In the original description, the type is written to be deposited in Herb. Nat. Sci. Mus., Tokyo. There is a specimen "TNS-90293" which can be identified as f. *angustifolia* Hiyama by the original description. But, in the label of the specimen, there is no record of the sites which Hiyama collected the specimen and of the date when he collected it. Collector's name is not written by Hiyama himself. On the sheet of the specimen, there is a small slit of the old News Paper on which Japanese name "Hosoba-fukushima-shajin" was written. The News Paper has been issued on 16th August, 1934. In the original description, f. *aungustifolia* is noted as a species uncommon. On the same site, three sheets of specimens which can be identified as f. *divaircata* were collected. One of them was collected by Hiyama on 19th August, 1934. Thus, the specimen "TNS-90293" can be identified as the holotype.

Adnophora nikoensis Fr. et Sav.

var. **persicaria** Ohwi ex T. Shimizu et Okazaki in Acta Phytotax. Geobot. **33**: 334

(1982).

Honshu, Shinshu: Mt. Togakushi-yama, 1893-8-20, K. Watanabe s. n. [TNS-61164=holotype].

Collector name is Kanau Watanabe, but not T. Watanabe as in the original description.

f. **globiflora** Hiyama in Journ. Jap. Bot. **26**: 157 (1951).

Honshu, Iwashiro: Mt. Iide-san, 1942-8-7, K. Hiyama s. n. [TNS-90291=holotype, TNS-90292=isotype].

Adenophora polymorpha Ledeb.

var. **tashiroi** Makino et Nakai in Bot. Mag. Tokyo **23**: 21 & 54 (1909).

Kyushu, Nagasaki: Osezaki, Fukue-jima, 1906-8-, Z. Tashiro s. n. [TNS-30880=isosyntype].

In the original description, there is no record of the date.

Adenophora triphylla A. DC.

f. **rotundifolia** Hiyama in Journ. Jap. Bot. **27**: 52 (1952).

Honshu, Shimoosa: Inubou-saki, Choshi, 1951-9-16, H. Takai s. n. [TNS-105556=holotype].

Campanula schischkinii Kolak. et Sachok. in Spiske rast. Gerb. fl. SSSR. **12**: 113 (1953).

Krasnodar, Tuapse: Oliginskoe to Dzhunbga, 1951-6-15, Kolakovsky & Sachokia 3699 [TNS-140818=isotype].

Codonopsis lanceolata (Sieb. et Zucc.) Trautv.

var. **omurae** T. Koyama in Journ. Jap. Bot. **32**: 61 (1957).

Honshu, Shizuoka: Shibukawa Spring, Hikisa-cho, 1956-9-3, T. Ohmura 16743 [TNS-133115=isotype].

Cyananthus nepalensis Kitamura in Acta Phytotax. Geobot. **15**: 109 (1954).

Nepal: Tsumje, 1953-7-24, S. Nakao s. n. [TNS-129231=isotype].

Lobelia clavata E. Wimm. in Fedde, Repert. **38**: 78 (1935).

China, Yunnan: Szemao-Gross, —, A. Henry 12663 [TNS-193214=isosyntype].

