

Distribution of the Droseraceae in Japan

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(Received November 24, 1977)

日本歯科大学紀要

第 7 号

1978年3月

BULLETIN OF NIPPON DENTAL UNIVERSITY, GENERAL EDUCATION

日本におけるモウセンゴケ科の分布

歯 学 部 小 宮 定 志
柴 田 千 晶

要 旨

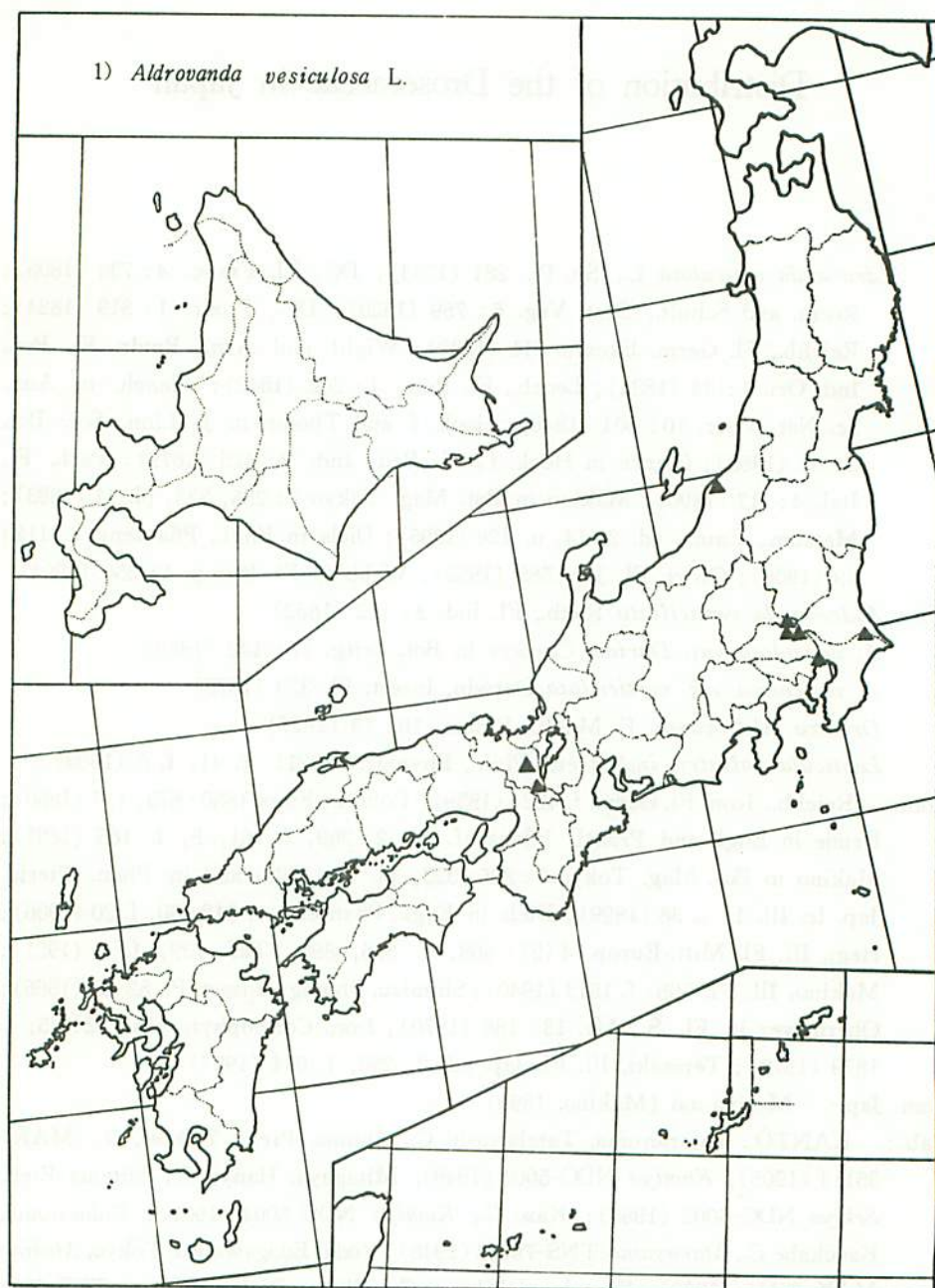
さきに、タヌキモ科の日本における分布をまとめたが(小宮, 1972), ここにモウセンゴケ科の分布をまとめることで, 日本における食虫植物分布の全貌を明らかにする。日本に自生するモウセンゴケ科の6種, 1自然交配種の分布の詳細と分布図を作成し, 併せて, コモウセンゴケ(*Drosera spathulata* Labill.)を2亜種(ssp. *spathulata*; ssp. *tokaiensis*)に新区分し記載した。

この報告書は, 日本及び台湾の主要標本庫15ヶ所にて実見し調査した結果に基づいて作成された(調査した標本のすべてをIndexに集録した)。従って, ムジナモ(*Aldrovanda vesiculosa*)の如く既に絶滅している自生地も多く含まれていることと思われるので, その採取年代を付記した。勿論, 現存する自生地も多い筈であるが, 各地点における最も古い記録のみを採用し, 市町村名については, できる限り現在のものに従って書き改めた。なお, 各地方植物誌や文献に見られる分布地点はすべて省略した。

発表に当たり, 標本調査をお許し下され, ご協力いただいた各標本庫関係の皆様と, 特に新潟県の分布調査を分担下された片桐義昭氏に心から感謝申し上げます。

Distribution of the Droseraceae in Japan

- 1) *Aldrovanda vesiculosa* L., Sp. Pl. 281 (1753); DC., Fl. Franç. 4: 730 (1805); Roem. and Schult., Syst. Veg. 6: 759 (1820); DC., Prodr. 1: 319 (1824); Reichb., Fl. Germ. Excurs. 711 (1832); Wight and Arn., Prodr. Fl. Pen. Ind. Ori. 1: 34 (1834); Ledeb., Fl. Ross. 1: 262 (1842); Planch. in Ann. Sc. Nat. 3 sér. 10: 304 (1848); Hook. f. and Thoms. in J. Linn. Soc. Bot. 2: 83 (1858); Clarke in Hook. f., Fl. Brit. Ind. 2: 425 (1879); Parl., Fl. Ital. 4: 217 (1890); Makino in Bot. Mag. Tokyo 7: 285, 323, pl. 11 (1893); Matsum., Enum. ed. 2, 14, n. 126 (1895); Diels in Engl., Pflanzenr. 4, 112: 59 (1906); Ohwi, Fl. Jap. 585 (1953); Webb in Fl. Europ. 1: 350 (1964)
- Syn. *Aldrovanda verticillata* Roxb., Fl. Ind. 2: 112 (1832)
A. vesiculosa var. *Duriaei* Caspary in Bot. Zeitg. 17: 142 (1859)
A. vesiculosa var. *verticillata* Darwin, Insect. Pl. 329 (1875)
Drosera Aldrovanda F. Muell., Fragm. 10: 79 (1877)
Lenticula palustris indica etc. Pluk., Phytogr. 4: 211, t. 41, f. 6 (1696)
- Icon.: Reichb., Icon. Fl. Germ. f. 4521 (1839); Cohn in Flora 1850: 673, t. 7 (1850); Drude in Engl. and Prantl, Pflanzenf. 3, 2: 269, f. 161, F, f. 165 (1891); Makino in Bot. Mag. Tokyo 7: 285, 323, pl. 11 (1893) and in Phan. Pterid. Jap. Ic. Ill. 1: t. 38 (1899); Diels in Engl., Pflanzenr. 4, 112: 60, f. 20 (1906); Hegi, Ill. Fl. Mitt.-Europ. 4(2): 508, f. 895, 896, Taf. 139, f. 6 (1921); Makino, Ill. Fl. 505, f. 1513 (1940); Shimizu, Photogr. Insect. Pl. 82-97 (1966); Obermeyer in Fl. S. Afr. 13: 188 (1970); Icon. Cormophyt. Sinic. 2: 75, f. 1879 (1972); Terasaki, Ill. Fl. Jap. ed. 2, 256, f. 984 (1977)
- Nom. Jap.: Mujina-mo (Makino, 1890)
- Hab.: KANTŌ: Tataranuma, Tatebayashi C., Gunma Pref., Takano, T. MAK-35114 (1905), Komiya NDC-5000 (1949); Mitagaya, Hanyū C., Saitama Pref., Sekiya NDC-5002 (1950); Kazo C., Komiya NDC-5004 (1951); Fuka-numa, Kasukabe C., Maruyama TNS-79763 (1948); Yōda, Edogawa-ku, Tokyo, Makino MAK-35115 (1890); Kōnodai, Ichikawa C., Chiba Pref., Sakurai TNS-6293 (1890); Nasaka-ura, Itako T. Suzuki, Y. MAK-35117 (1901)
CHŪBU: Koshin, Niigata C., Niigata Pref., Yoshihara Ike-37661 (1910)



KINKI: Nagashima T., Mie Pref., *Itō*, T. TNS-93783 (1950), *Komiya* NDC-5042 (1953); Ogura-ike, Kyōto, *Tan* KYO (1925), *Ohwi* KYO (1937); Ōhara, *Tsuyama* KYO (1934); Mizoro-ike, *Kataoka* TNS-80022 (1941), *Komiya* NDC-5011 (1951)—naturalized artificially.

Distr.: Europ. centr.-bor.-ori. [Type loc.: Budrio, Bologna, Italy, *Monti*], Asia (Siberia ori., China, Japan, India, Bangla Desh), Africa centr. et austr., Timor, Australia bor.

- 2) *Drosera anglica* Huds., Fl. Ang. ed. 2, 135 (1778); Dreves and Hayne, Fl. Eur. 3: 42, t. 75 (1802); DC., Fl. Franç. 4: 729 (1805); Schult., Syst. Veg. 4: 762 (1820); Hook., Brit. Fl. 149 (1830); Hook., Fl. Bor. Amer. 1: 81 (1833); Torr. and Gray, Fl. N. Amer. 1: 146 (1838); Watson in Bibl. Ind. N. Amer. Bot. 1: 353 (1876); Hillebr., Fl. Hawai. Isl. 122 (1888); Makino in Bot. Mag. Tokyo 14: 33 (1900); Diels in Engl., Pflanzenr. 4, 112: 96 (1906); Ohwi, Fl. Jap. 584 (1953); Webb in Fl. Eur. 1: 350 (1964)

Syn. *Drosera americana* Willd., Enum. Pl. Hort. Bot. Berol. 340 (1809)

D. anglica DC., Prodr. 1: 318 (1824), non Huds.

D. anglica var. *β subuniflora* DC., Prodr. 1: 318 (1824)

D. longifolia L., Sp. Pl. 282 (1753), partim

D. longifolia sensu A. Gray in Bot. U.S. Expl. Exped. 1: 100 (1854)

D. longifolia L. var. *α anglica* F. Schultz, in sched.

D. longifolia var. *α vulgaris* Koch, Synops. Fl. Germ. 90 (1835)

Rorella longifolia All, Fl. Pedem. 2: 88 (1785)

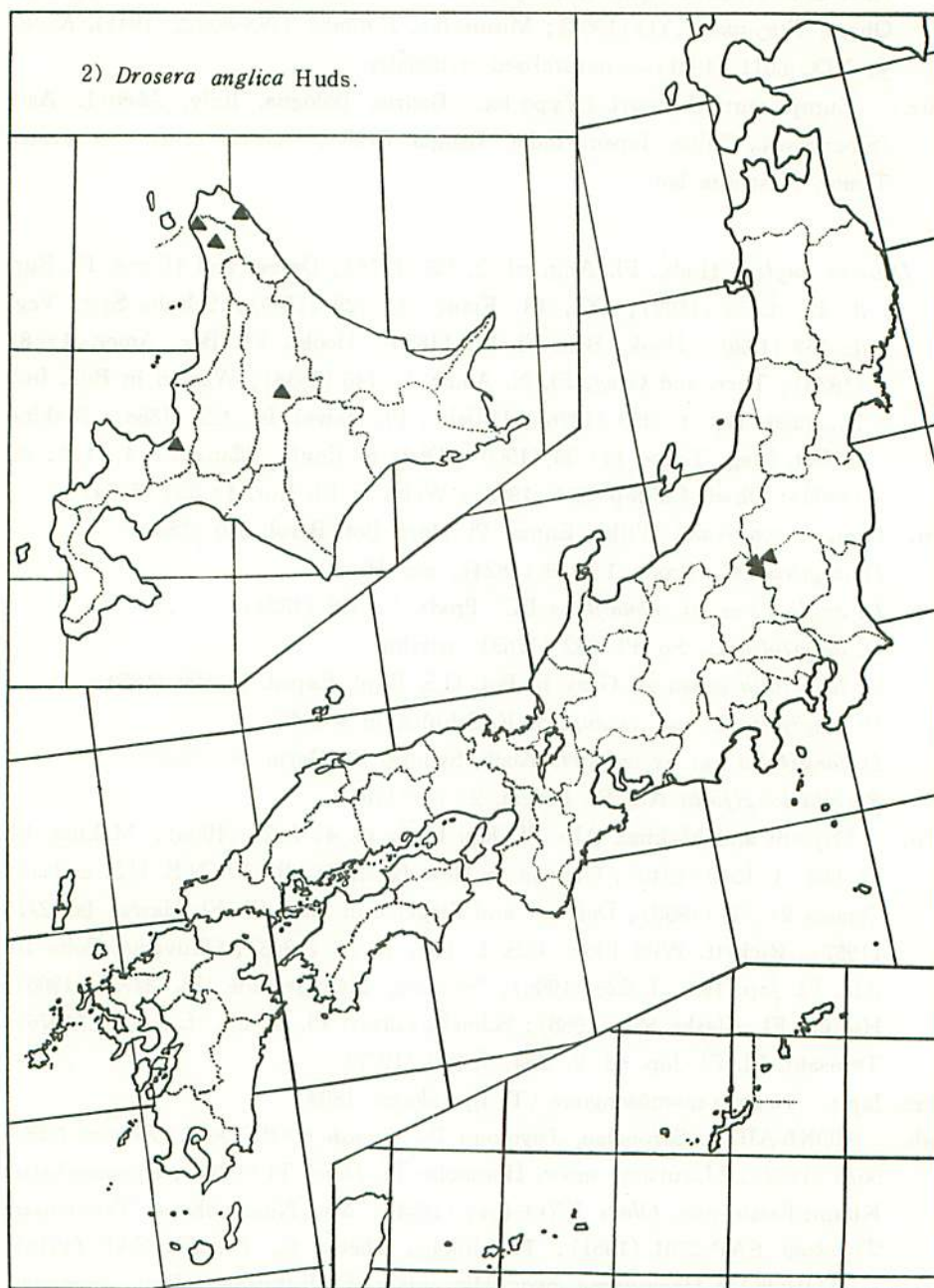
Icon.: Miyoshi and Makino, Alp. Pl. Jap. 1: 8, pl. 4, f. 24 (1906); Makino, Ill. Fl. 504, f. 1510 (1940); Gleason in New Britt.-Br., Ill. Fl. N.E. U.S. and adj. Canada 2: 253 (1952); Degener and Ziegens. in New Ill. Fl. Hawai. Isl. 2/15 (1957); Rickett, Wild Flow. U.S. 1: 198, pl. 57 (1965); Okuyama, Color Ill. Alp. Fl. Jap. 135, f. 226 (1966); Shimizu, Photogr. Ins. Pl. 27-31 (1966); Hultén, Fl. Alaska 559 (1968); Schnell, Carniv. Pl. pl. 61, f. 5-5, 6 (1976); Terasaki, Ill. Fl. Jap. ed. 2, 254, f. 980 (1977)

Nom. Jap.: Nagaba-no-mōsengoke (T. Kawakami, 1898)

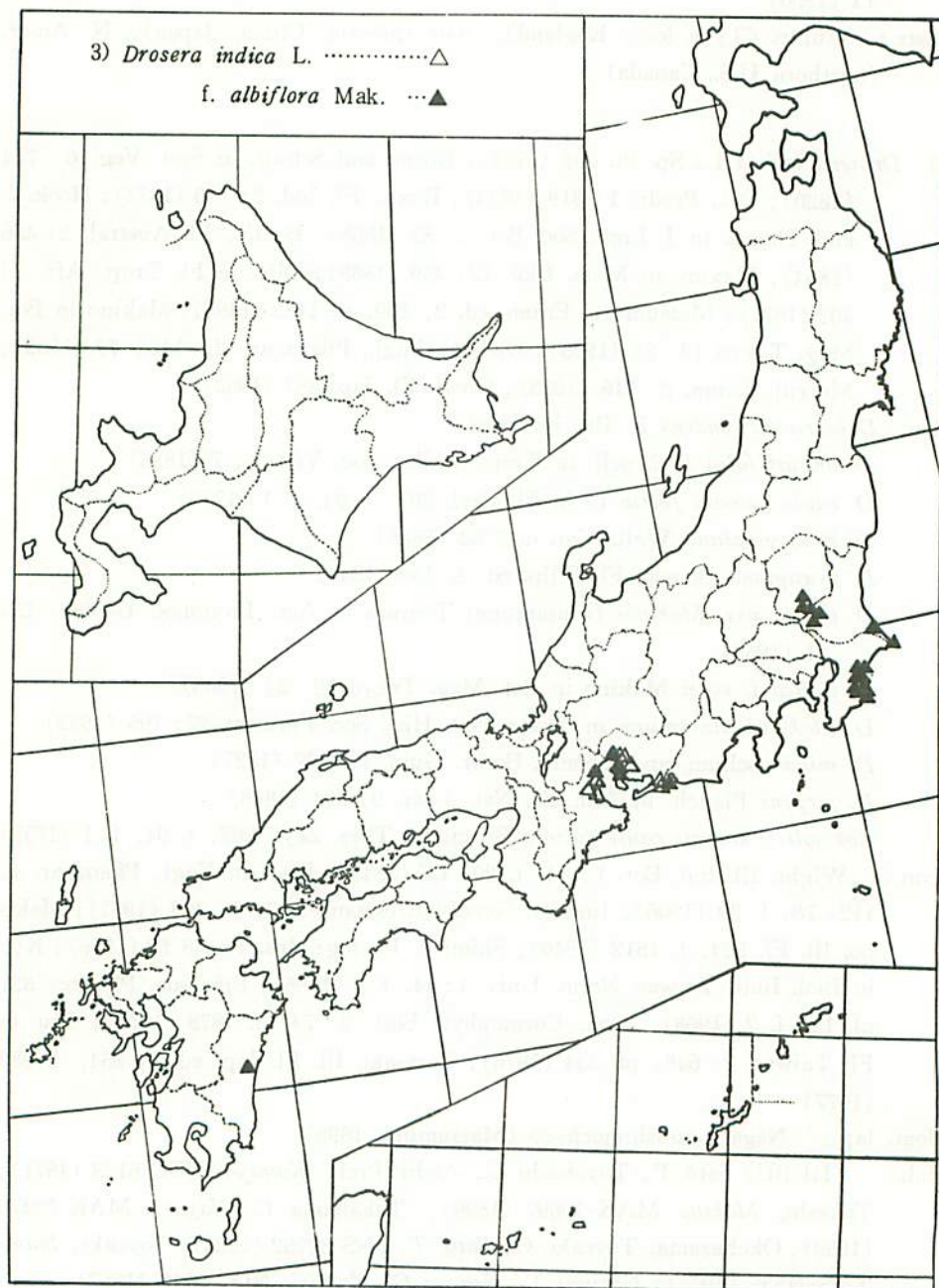
Hab.: HOKKAIDŌ: Sarobetsu, Toyotomi T., *Yoshida* SAP (1953), *Komiya* NDC-5075 (1969); Maruyama moor, Horonobe T., *Hara* TI (1934); Hamatonbetsu, Kitami-Esashi-gun, *Ohwi* KYO-4544 (1934); Mt. Numanohara, Taisetsusan, *Toyokuni* SAP-2761 (1951); Tsuishikari, Ebetsu C., *Nishida* SAP (1910);

TŌHOKU: Hana-numa moor, Hinoemata V., Fukushima Pref., *Suganuma* KYO-3066 (1960)

KANTŌ: Oze-numa, *Hayata* MAK-72456 (1898); Oze-ga-hara, *Nemoto*



- MAK-95201 (1899), *Makino* MAK-72457 (1902); Ayame-daira, Oze, *Hara* TI (1950)
- Distr.: Europ. [Type loc.: England], Asia (Siberia, China, Japan), N. Amer. (northern U.S., Canada)
- 3) *Drosera indica* L., Sp. Pl. 282 (1753); Roem. and Schult. in Syst. Veg. 6: 764 (1820); DC., Prodr. 1: 319 (1824); Roxb., Fl. Ind. 2: 113 (1832); Hook. f. and Thoms. in J. Linn. Soc. Bot. 2: 82 (1858); Benth., Fl. Austral. 2: 456 (1864); Maxim. in Mém. Biol. 12: 459 (1868); Oliv. in Fl. Trop. Afr. 2: 402 (1871); Matsumura, Enum. ed. 2, 109, n. 1182 (1895); *Makino* in Bot. Mag. Tokyo 19: 23 (1905); Diels in Engl., Pflanzenr. 4, 112: 77 (1906); Merrill, Enum. 2: 216 (1923); Ohwi, Fl. Jap. 584 (1953)
- Syn. *Drosera adscendens* R. Br., in sched.
D. angustifolia F. Muell. in Trans. Philos. Soc. Vict. 1: 7 (1855)
D. caule ramoso folioso L. in Fl. Zeyl. 207, t. 94, f. 1 (1737)
D. Finlaysoniana Wall., Cat. n. 3752 (1828)
D. hexagiana Blanco, Fl. Filip. ed. 2, 159 (1845)
D. indica var. *Makinoi* (Masamune) Tamura in Act. Phytotax. Geobot. 15: 31 (1953)
D. indica f. *rosei* *Makino* in Bot. Mag. Tokyo 19: 24 (1905)
D. Makinoi Masamune in Trans. Nat. Hist. Soc. Formosa 22: 195 (1932)
D. minor Schum. and Thonn., Beskr. Guin. Pl. 187 (1827)
D. serpens Planch. in Ann. Sc. Nat. 3 sér. 9: 204 (1848)
Ros solis ramosus caule folioso Burmann, Thes. Zeyl. 207, t. 94, f. 1 (1737)
- Icon.: Wight, Ill. Ind. Bot. 1: 44, t. 20, f. C (1840); Diels in Engl., Pflanzenr. 4, 112: 78, f. 29 (1906); Iinuma, Sōmoku-dzusetsu ed. 3, 1: 403 (1907); *Makino*, Ill. Fl. 504, f. 1512 (1940); Shimizu, Photogr. Ins. Pl. 48-53 (1966); Kuo in Biol. Bull. Taiwan Norm. Univ. 1: 34, f. 2 (1966); Erickson, Pl. Prey 52, pl. 12, f. 2 (1968); Icon. Cormophyt. Sini. 2: 74, f. 1878 (1972); Liu in Fl. Taiwan 2: 648, pl. 434 (1976); Terasaki, Ill. Fl. Jap. ed. 2, 254, f. 982 (1977)
- Nom. Jap.: Nagaba-no-ishimochi-sō (Matsumura, 1895)
- Hab.: CHŪBU: Satō T., Toyohashi C., Aichi Pref., *Komiya* NDC-5123 (1971); Takashi, *Makino* MAK-70697 (1899); Takahama C. *Nagura* MAK-72476 (1899); Okehazama, Toyoake C., Satō, T. TNS-37752 (1924); Toyoake, *Inami* TNS-71536 (1943); Narumi T., Nagoya C., *Komiya* NDC-5118 (1967)
- KINKI: Tamagaki T., Suzuka C., Mie Pref., *Matsuyama* TNS-34861 (1929); Inō T., *Hattori*, T. KYO-262 (1925); Shiroko T., *Kawasaki*, Te. TI (1950)



Distr.: Africa, Asia [Type loc.: India, actually Ceylon, a drawing in Herb. Hermann 5: t. 227, BM], New Guinea, Australia.

forma *albiflora* Makino in Bot. Mag. Tokyo 19: 24 (1905)

Nom. Jap.: Shirobana-nagaba-no-ishimochi-sō (Makino, 1905)

Hab.: KANTŌ: Utsunomiya C., Tochigi Pref., Makino MAK-72470 (1930); Isogawa moor, Ogawa TNS-142721 (1959); Kokubunji T., Shimo-tsuga-gun, Mizushima, K. NDC-5110 (1959); Kyōwa V., Makabe-gun, Ibaragi Pref., Itabashi, T. SAP (1905); Akeno T., Tsutsumi TNS-62116 (1901); Ajiki, Tsukuba T., Tsukuba-gun, Numajiri KYO (1919), Komiya NDC-5156 (1975); Ōfushima, Michikawa NDC-5148 (1975); Kamisu T., Kashima-gun, Suzuki, M. TNS-222875 (1968); Ebijima, Chōshi C., Chiba Pref., Sakurai TNS-6294 (1894); Narutō T., Sanbu-gun, Hisauchi TNS-30546 (1917); Midori-umi, Komiya NDC-5108 (1953); Musada, Tōgane C., Makino MAK-70696 (1920); Ōami-shirasato T., Tamura, Y. TI (1938); Mobara C., Komiya NDC-5096 (1949), Murakami TNS-109447 (1951); Yatsumi, Chōsei V., Chōsei-gun, Sugaya TUS-21844 (1934); Hitotsu-matsu, Komiya NDC-5095 (1949); Ichinomiya T., Matsumura, J. TNS-48314 (1880), Makino MAK-70695 (1897); Torami, Watanabe, K. TNS-62115 (1895), Matsuda, S. KYO (1895)

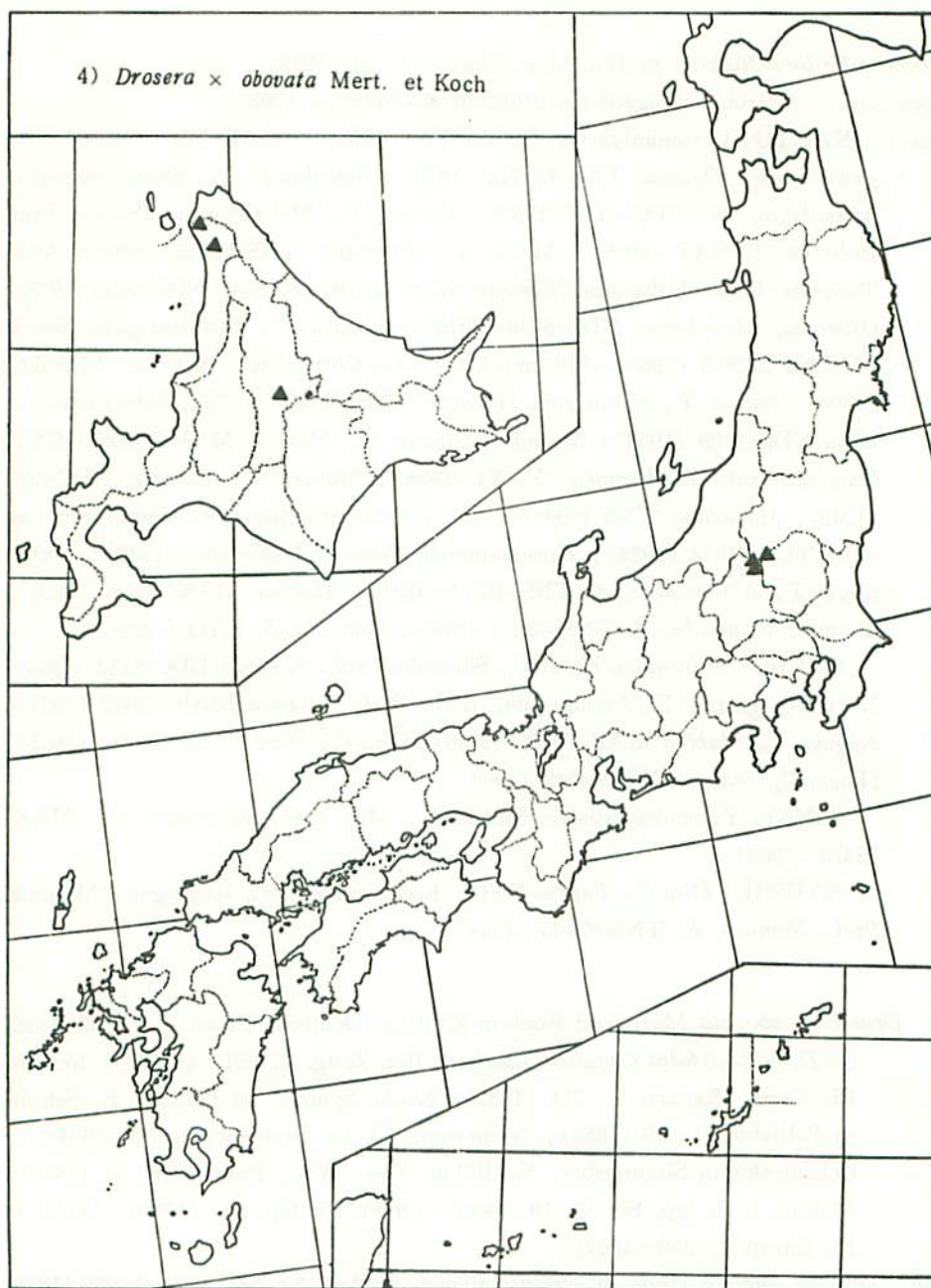
CHŪBU: Shirosuka, Kosai C., Shizuoka Pref., Komiya NDC-5113 (1964); Horikiri, Atsumi T., Atsumi-gun, Aichi Pref., Nagura MAK-72472 (1901); Nagoya C., Makino MAK-70698 (1940); Ōbu C., Inami TNS-109444 (1951); Handa C., Inami TNS-254248 (1969)

KINKI: Yasuzuka-shinden, Suzuka C., Mie Pref., Kawasaki, M. MAK-72473 (1903)

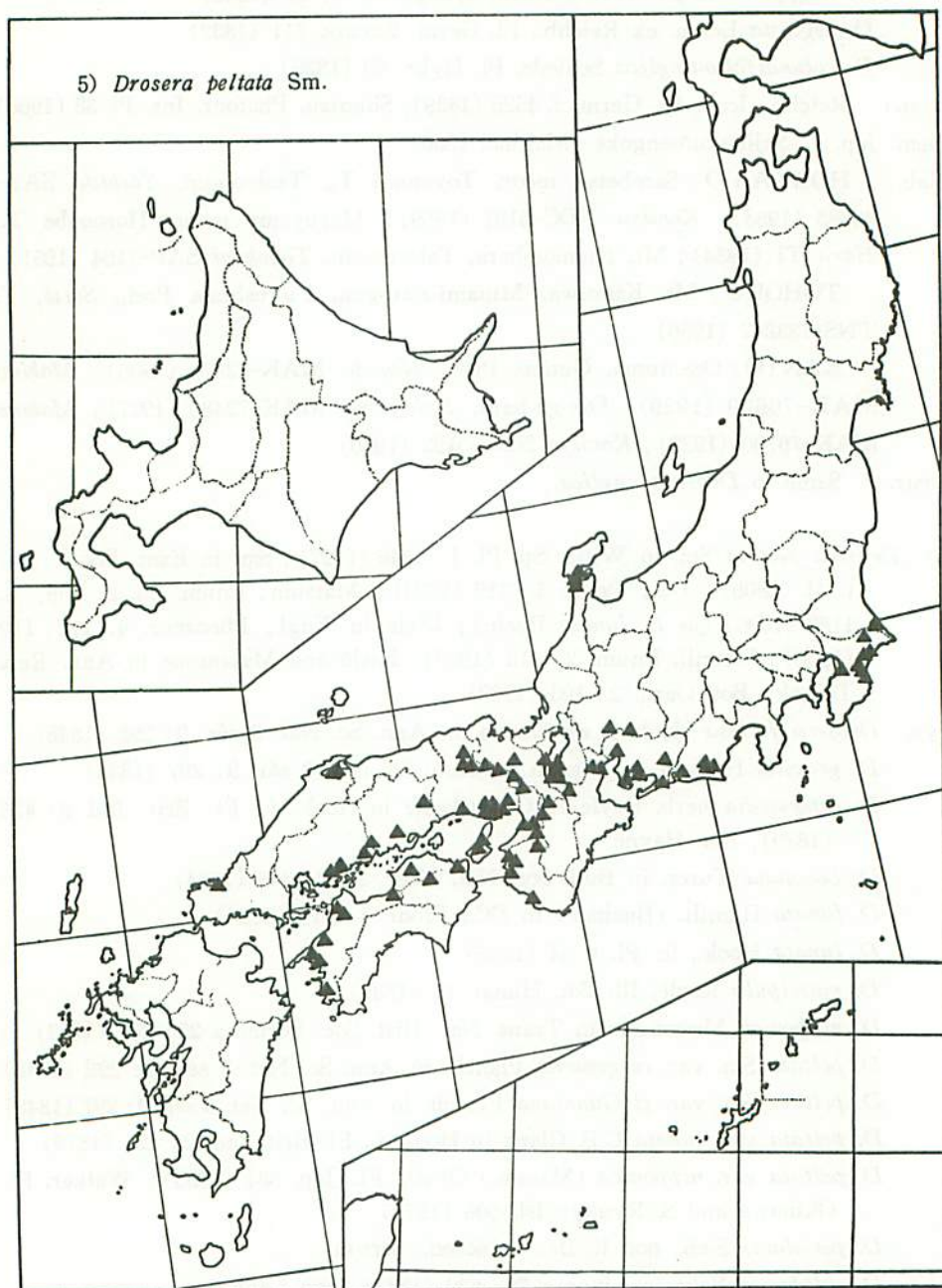
KYŪSHŪ: Ōita C., Faurie KYO; Kawa-minami T., Koyu-gun, Miyazaki Pref., Nomura, K. TNS-87145 (1949)

- 4) *Drosera* × *obovata* Mert. and Koch in Röhling. Deutschl. Fl. ed. 3, 2: 502 (1826) [= *D. rotundifolia* × *anglica* Lasch in Bot. Zeitg. 15: 514 (1857)]; Reichb., Fl. Germ. Excurs. 2: 711 (1832); Koch, Synops. 90 (1835); F. Schultz in Pollichia 11: 99 (1853); Ascherson, Fl. Pr. Brandenburg 76 (1864); L. Čelakovský in Sitzungsber. K. Böhm. Ges. Wiss. Prag. 1878: 21 (1879); Makino in J. Jap. Bot. 6: 19 (1930); Ohwi, Fl. Jap. 584 (1953); Webb in Fl. Europ. 1: 350 (1964)

Syn. *Drosera anglica* Huds. β. *obovata* Planch. in Ann. Sc. Nat. 3 sér. 9: 200 (1848) *D. anglica* × *intermedia* Pape, ex Nöldeke sec. Ascherson and Graebner, Fl. Nordostdeutsch. Flachl. 376 (1898)



- D. intermedia* Soyer, Willem. Oberv. 27, 28 (1828), non Hayne
D. longifolia L. β . *obovata* Koch, Synops. ed. 2, 97 (1846)
D. neglecta Lehm. ex Reichb., Fl. Germ. Excurs. 711 (1832)
D. rotundifolio-anglica Schiede, Pl. Hybr. 69 (1825)
 Icon.: Reichb., Icon. Fl. Germ. f. 4525 (1839); Shimizu, Photogr. Ins. Pl. 38 (1966)
 Nom. Jap.: Sajiba-mōsengoke (Makino, 1930)
 Hab.: HOKKAIDŌ: Sarobetsu moor, Toyotomi T., Teshio-gun, Yoshida SAP-42285 (1953), Komiya NDC-5197 (1969); Maruyama moor, Horonobe T., Hara TI (1934); Mt. Numanohara, Taisetsusan, Toyokuni SAP-3164 (1951)
 TŌHOKU: Mt. Kuroiwa, Minami-aizu-gun, Fukushima Pref., Saitō, Y. TNS-133247 (1956)
 KANTŌ: Oze-numa, Gunma Pref., Nemoto MAK-72479 (1905); Makino MAK-70699 (1929); Oze-ga-hara, Kohiyama MAK-72480 (1927); Makino MAK-70700 (1929); Komiya NDC-5192 (1950)
 Distr.: Same to *Drosera anglica*.
- 5) *Drosera peltata* Sm. in Willd. Sp. Pl. 1: 1546 (1797); Sm. in Exot. Bot. 1: 79, t. 41 (1805); DC., Prodr. 1: 319 (1824); Matsum., Enum. ed. 2, 109, n. 1183 (1895) [as *D. lunata* Buch.]; Diels in Engl., Pflanzenr. 4, 112: 110 (1906); Merrill, Enum. 2: 216 (1923); Kudō and Masamune in Ann. Rep. Taihoku Bot. Gard. 2: 108 (1932)
- Syn. *Drosera foliosa* Hook. f. ex Planch. in Ann. Sc. Nat. 3 sér. 9: 298 (1848)
D. gracilis Hook. f. ex Planch. in Ann. Sc. Nat. 3 sér. 9: 297 (1848)
D. intermedia herb. Royle ex C.B. Clarke in Hook. f., Fl. Brit. Ind. 2: 425 (1879), non Hayne
D. Lobbiana Turcz. in Bull. Soc. Nat. Mosc. 27-2: 343 (1854)
D. lunata Hamilt. (Buchan.) in DC., Prodr. 1: 319 (1824)
D. lunata Hook., Ic. Pl. t. 54 (1836)
D. muscipula Royle, Ill. Bot. Himal. 75 (1839)
D. nipponica Masamune in Trans. Nat. Hist. Soc. Formosa 23: 207 (1933)
D. peltata Sm. var. α *genuina* Planch. in Ann. Sc. Nat. 3 sér. 9: 296 (1848)
D. peltata Sm. var. β *Gunniana* Planch. in Ann. Sc. Nat. 3 sér. 9: 297 (1848)
D. peltata var. *lunata* C.B. Clark in Hook. f., Fl. Brit. Ind. 2: 424 (1879)
D. peltata var. *nipponica* (Masam.) Ohwi, Fl. Jap. 584 (1953); Walker, Fl. Okinawa and S. Ryukyu Isl. 506 (1976)
D. petiolaris Sieb., non R. Br., in sched., partim
D. sulphurea Behr in Linnaea 20: 629 (1847), non Lehm.
- Icon.: Wight, Ill. Ind. Bot. 44, t. 20, f.D. (1840); Iinuma, Sōmoku-dzusetsu ed. 3, 1: 402, f. 295 (1907); Hayata, Icon. Pl. Formos. 3: 113 (1913); Makino, Ill.



Fl. 504, f. 1511 (1940); Shimizu, *Photogr. Ins. Pl.* 42-47 (1966); Kuo in *Biol. Bull. Taiwan Normal Univ.* 1: 33, f. 1 (1966); *Icon. Cormophyt. Sini.* 2: 74, f. 1877 (1972); Liu in *Fl. Taiwan* 2: 649, pl. 435 (1976); Terasaki, *Ill. Fl. Jap.* ed. 2, 254, f. 982 (1977)

Nom. Jap.: Ishimochi-sō, Ishitsuri-gusa, Sunamochi-sō

Hab.: KANTO: Kashima T., Kashima-gun, Ibaragi Pref., *Makino* MAK-72486 (1931); Kamisu T., *Hikino* TI (1934); Suzuki, M. TNS-222876 (1968); Makino T., Sahara C., Chiba Pref., *Kuboki* MAK-72489 (1903); Narutō T., Sanbu-gun, *Hisauchi* TI (1919); Nakai, T. TI (1920); Musada, Tōgane C., *Makino* MAK-70704 (1920); Mobara C., *Morita* TI (1882); Komiya NDC-5198 (1949); Yatsumi, Chōsei-gun, *Tamura*, Y. TI (1938); Ichinomiya T., *Jyō* TI (1900); *Makino* MAK-72488 (1902); Goi T., Ichihara C., *Muramatsu*, H. TI (1926); Fukuoka T., Kimitsu C., *Koyama*, T. KYO-6974 (1955)

CHŪBU: Horimatsu, Shiga T., Hakui-gun, Ishikawa Pref., *Shimozawa* KAN-9589 (1951); Takahama T., *Ichimura* KAN-1079 (1898); Bijyōsan, *Tanaka*, S. KAN-43347 (1961); Kagamigahara C., Gifu Pref., *Mori*, Y. MAK-72494 (1886); Hime, Kani T. Kani-gun, *Komiya* NDC-5226 (1976); Kikugawa T., Ogasa-gun, Shizuoka Pref., *Komiya* NDC-5220 (1969); Nobe, Toyooka V., Iwata-gun, *Hisamatsu* TI (1889); Kasuisai, Fukuroi C., *Muramatsu* TI (1922); Mikata-ga-hara, Hamamatsu C., *Komiya* NDC-5219 (1965); Tsukude V., Minami-shidara-gun, Aichi Pref., *Takagi* KYO (1929); Satō T., Toyohashi C., *Furuse* MAK-72496 (1911); Anjyō C., *Ōnuma* TI (1914); Kaibuki T., Nishio C., *Nagura* MAK-70703 (1900); Noma, Mihama T., Chita-gun, *Imahori*, K. KAN-11612 (1952); Yagoto-yama, Nagoya C., *Itō To.* TNS-62109 (1891)

KINKI: Mt. Kagami-yama, Ryūō T., Gamō-gun, Shiga Pref., *Nakai*, G. KYO-5094 (1944); Seta T., Ōtsu C., *Fushimi* KYO (1920); Kami-tanakami T., *Murata*, G. KYO-7535 (1954); Mt. Keikanzan, *Hashimoto*, C. TNS-101420 (1944); Mano T., *Kurosawa* KYO (1928); Komono T., Mie-gun, Mie Pref., *Sakurai* TNS-6297 (1888); Mitate-ō-ike, Yokkaichi C., *Nakano*, K. KAN-15170 (1953); Kawai, Ayama T., Ayama-gun, *Yamamoto*, M. KAG (1934); Gomagō, Hiyoshi T., Funai-gun, Kyōto Pref., *Nakai*, G. KYO-4429 (1950); Nishi-honme, Sonobe T., *Koidzumi* KYO (1930); Mt. Abuyama, Takatsuki C., Ōsaka Pref., *Fukuoka*, N. KAN-27105 (1957) and TNS-180452 (1964); Takitani-fudō, Tondabayashi C., *Chihara* TNS-38169 (1932); Mt. Makio-yama, Izumi C., *Watanabe*, K. TNS-62115 (1895); Shinoda-yama, *Matsuda*, S. TNS-32438 (1896), *Seto* KAN-13549 (1952); Heijyō, Nara C., Nara Pref., *Nakai*, G. KYO (1951); Sekiya, Kita-katsuragi-gun, *Kodama* TNS-247061 (1961); Kōya T., Ito-gun,

Wakayama Pref., *Sakurai* TNS-6299 (1888); Okazaki T., Wakayama C., *Nakajima*, J. TI (1913); Sandō T., *Nakajima*, J. TI (1917); Toriyajyō, Kanaya T., Arita-gun, *Tanaka*, S. KYO (1933); Shinjyō, Tanabe C., *Nakajima*, T. SAP (1927), *Nakajima*, J. TI (1931); Shirahama T., Nishi-murō-gun, *Makino* MAK-72495 (1894); Takeda, Wadayama T., Asako-gun, Hyōgo Pref., *Hosomi* TNS-57080 (1936); Aogaki T., Hikami-gun, *Hosomi* KYO-7195 (1968); Ichijima T., *Hosomi* KYO-1190 (1936); Takigun, *Ōmachi* SAP (1890); Yamamoto, Takarazuka C., *Togashi* TNS-84371 (1949); Nishinomiya C., *Hara*, M. KYO (1930); Kuraku-en, *Tashiro*, Z. KYO (1924); Shirakawa, Kōbe C., *Okamoto* TI (1936); Arima T., *Makino* MAK-72498 (1936); Mt. Rokkōsan, *Kuriyama* MAK-72497 (1928); *Kitamura* KYO (1949); Aono-ga-hara, Ono C., *Itō*, H. TI (1934); Takagaki T. *Tashiro*, Z. TNS-57079 (1937); Kamisō T., Kakogawa C., *Kurosaki*, N. KYO-6830 (1975); Himeji C., *Okamoto* KYO (1950); Awaji Isl., *Makino* MAK-70706 (1939); Ō-machi, Tsuna T., *Ishigami* TI (1943)

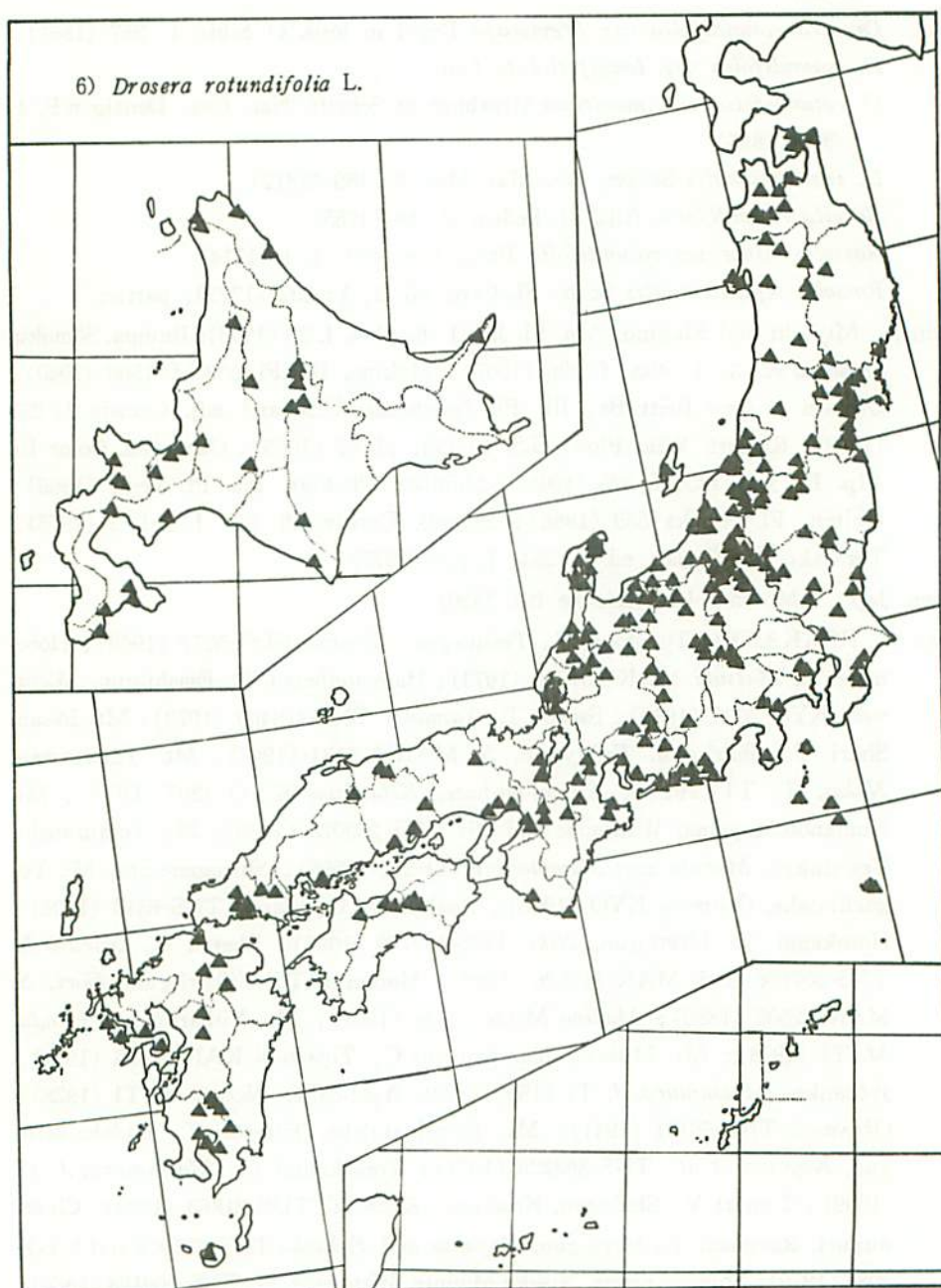
CHŪGOKU: Koshihara, Matsue C., Shimane Pref., *Naitō*, T. KAG-8306 (1922); Mimasaka T., Aida-gun, Okayama Pref., *Arimoto* SAP (1903); Nihonbara, *Ikoma*, Y. TNS-141775 and KAN-27238 (1959); Magane T., Okayama C., *Nikai* TNS-48312 (1902); Ihara C., *Matsushima* TNS-37212; Fukuyama C., Hiroshima Pref., *Shimamura* KAN-1078 (1902); Kōchi T., Kamo-gun, *Tashiro*, Z. KYO (1928); Shimo-minaga, Saijyō T., *Satō*, M. KAN-7465 (1932); Misumi T. Ōtsu-gun, Yamaguchi Pref., *Nikai* TNS-48311 (1905)

SHIKOKU: Ōasa-yama, Zentsūji C., Kagawa Pref., *Naitō* T. KAG-20681 (1916); Bandō, Ōasa T., Naruto C., Tokushima Pref., *Satomi* TNS-73273 and KAN-10368 (1946); Iwakura, Waki-machi T., Mima-gun, *Ōkura* TI (1907); Kamibun T., Kawanoe C., Ehime Pref., *Ishimura* KAG-1162 (1911); Mt. Edo-yama, Onsen-gun, *Okudaira* SAP (1893); Kinu-yama, Matsuyama C., *Okudaira* MAK-72500 (1893); Uchiko T., Kita-gun, *Yamashita* KYO (1924); Yahatahama C., *Oda* TNS-22946 (1913); Uwa T., Higashi-uwa-gun, *Nomura*, Y. KYO (1960); Uwajima C., *Doi* MAK-72501 (1902), *Ogata* KYO (1925)

Distr.: Asia (India ori., Nepal, Thailand, China austr., Japan, Philipp., Java, Timor) Australia ori. [Type loc.: Botany Bay, N.S. Wales, *Smith*], Tasmania

- 6) *Drosera rotundifolia* L., Sp. Pl. 281 (1753); Drev. et Hayne, Pl. Europ. 3: 40, t. 74 (1802); Smith, Fl. Brit. 4: 346 (1804); DC., Fl. Franç. 4: 729 (1805); DC., Prodr. 1: 318 (1824); Koch, Synops. Fl. Germ. 89 (1835); Torr. and Gray, Fl. N. Amer. 1: 146 (1838); Fr. and Sav., Enum. 1: 162 (1876); Matsum., Enum. ed. 2, 110, n. 1184 (1895); Diels in Engl., Pflanzenr. 4,

- 112: 93 (1906); Ohwi, Fl. Jap. 583 (1953); Webb in Fl. Europ. 1: 350 (1964)
- Syn. *Drosera rotundifolia* var. *breviscapa* Regel in Reis. O. Sibir. 1: 257 (1861)
D. rotundifolia var. *longipetiolata* Lén.
D. rotundifolia var. *maritima* Graebner in Schrift. Nat. Ges. Danzig n.F. 1: 367 (1895)
D. septentrionalis Stokes, Bot. Mat. Med. 2: 189 (1812)
Rorella rotundifolia All., Fl. Pedem. 2: 88 (1785)
Rossolis minor seu rotundifolia Barr., Icon. 251, f. 1 (1714)
Rossolis septentrionalis Scop., Fl. Carn. ed. 2, 1: 232 (1772), partim
- Icon.: Miyoshi and Makino, Alp. Pl. Jap. 1: 8, pl. 4, f. 23 (1906); Iinuma, Sōmoku-dzusetsu ed. 3, 1: 403, f. 296 (1907); Makino, Ill. Fl. 503, f. 1508 (1940); Gleason in New Britt.-Br., Ill. Fl. Northeast. U.S. and adj. Canada 2: 253 (1952); Rickett, Wild Flow. U.S. 1: 198, pl. 57 (1965); Okuyama, Color Ill. Alp. Fl. Jap. 135, f. 225 (1966); Shimizu, Photogr. Ins. Pl. 32-37 (1966); Hultén, Fl. Alaska 559 (1968); Schnell, Carniv. Pl. 58, f. 5-1, 2 (1976); Terasaki, Ill. Fl. Jap. ed. 2, 254, f. 978 (1977)
- Nom. Jap.: Mōsen-goke (Keisuke Itō, 1829)
- Hab.: HOKKAIDŌ: Toyotomi T., Teshio-gun, Komiya NDC-5277 (1969); Horonobe T., Matsuki MAK-131219 (1973); Hamatonbetsu T., Esashi-gun, Watanabe KYO-2008 (1954); Esashi T., Yamanoi TNS-319469 (1972); Mt. Iō-san, Shari T., Shari-gun, Kobayashi, S. MAK-128134 (1967); Mt. Taisetsusan, Nakai, T. TI (1928); Kumoi-ga-hara, Kitagarwa KYO-1207 (1958); Mt. Numanohara-yama, Watanabe and Ōki TNS-269078 (1959); Mt. Tomuraushi, Tenninkyō, Murata and Momotani KYO-297 (1955); Shirogane Spa, Mt. Tokachi-dake, Okamoto KYO (1956); Asahikawa C., Saida TNS-6313 (1906); Horokanai T., Uryū-gun, Niki TNS-152793 (1962); Ebetsu C., Naruhashi TNS-307906 and MAK-115526 (1969); Horomui T., Yūbari-gun, Hori, S. MAK-72505 (1886); Makino MAK-72506 (1903); Mt. Yūbari-dake, Honda, M. TI (1938); Mt. Muine-yama, Sapporo C., Toyokuni KAN-26134 (1951); Jyōzankei, Matsumura, J. TI (1899); Mt. Apoi-dake, Nakai, T. TI (1928); Okuyama TNS-69131 (1941); Mt. Poroshiri-dake, Hiratori T., Hidaka-sarugun, Koyama *et al.* TNS-303226 (1971); Tomakomai C., Matsumura, J. TI (1899); Tomari V., Shakotan, Kosō-gun, Kudō, Y. TUS-21863 (1920); Chisenupuri, Rangoshi T., Isoya-gun, Koyama and Fukuoka TNS-271902 and KYO-3084 (1970); Shinsen-numa, Niseko Mounts, Watanabe, M. TNS-309188 (1964); Mt. Yuō-yama, Niseko T., Abuta-gun Murata, G. KYO-9018 (1955); Shizukari, Oshamanbe T., Komiya NDC-5292 (1974); Junsai-numa, Nanae T., To-



shima-kameta-gun, *Faurie* KYO-480 (1897); Hakodate C., *Matsumura, J.* TI (1878); Kikonai T., Kami-iso-gun, *Matsuda, S.* KYO (1890); Shiriuchi T., *Miyabe* and *Tokubuchi* TI (1890)

TŌHOKU: Ōhata T., Shimokita-gun, Aomori Pref., *Makino* MAK-72511 (1928); Mt. Osorezan, *Kashimura, T.* TUS-21868 (1964); Higashi-dōri V., *Kuwano* MAK-23610 (1955); Saru-ga-mori, *Yoshioka* and *Sugawara* TUS-21873 (1964); Shiriyazaki, *Mizushima* MAK-23611 (1955); Ōhashi TUS-21870 (1964); Mutsu C., *Yamazaki, R.* MAK-72510 (1903); *Mizushima* MAK-22734 (1955); Natsudomari, Higashi-tsugaru-gun, *Takeuchi, Y.* TUS-21829 (1960); Aomori C., *Matsumura, J.* TI (1880); Goshogawara C., *Ōba et al.* TI (1975); Iwasaki T., Nishi-tsugaru-gun, *Hosoi* KAN-70158 (1954); Mt. Iwakisan, *Kinashi* KYO-866 (1902); Tokiwano, *Matsumura, J.* TI (1880); Mt. Hakkōda, *Faurie* KYO-480 (1897), *Kinashi* KYO-865 (1902), *Saitō* and *Yoshima* TI (1973); Hachimantai, Iwate Pref., *Muramatsu* TI (1928); Mt. Iwatesan, *Sakurai* TNS-6303 (1893); Mt. Hayachinesan, *Ikuma* KYO (1912); Kaniba, Tazawako T., Senpoku-gun, Akita Pref., *Iwatsuki et al.* KYO-539 (1965); Mt. Akita-komagatake, *Komiya* NDC-5248 (1954); Ōdate C., *Sekiguchi* NDC-5263 (1963); Aikawa, Oga C., *Fujii* TI-560025 (1956); Funakoshi T., *Mochizuki, R.* KAN-50916 (1963); Ninbetsusan, Akita C., *Makino* MAK-72514 (1927); Daiyū V., Hiraka-gun, *Koidzumi* TI (1914); Mt. Chōkaisen, Yamagata Pref., *Makino* MAK-70707 (1927), *Mori, K.* KAN-58516 (1961); Mt. Gassan, *Matsumura, J.* TI (1879); Matsukawa, Yonezawa C., *Katō, M.* KAG (1964); Namekawa Spa, *Koyama* TNS-179915 (1962); Mt. Iidesan, *Makino* MAK-72517 (1908); Ōba *et al.* TI-73057 (1973); Kami-kanetori, Kesennuma C., Miyagi Pref., *Ueno* Ueno-1275 (1966); Mt. Kurikoma-yama, *Makino* MAK-72512 (1890), *Ueno* Ueno-483 (1964); Hyōryō-yama, Hazama T., Tome-gun, *Ueno* Ueno-255 (1966); Naganuma, *Komiya* NDC-5275 (1969); Fukazawa, *Ueno* Ueno-1227 (1966); Kejyo-numa, Furukawa C., *Komiya* NDC-5273 (1969); Arashiyama, *Ueno* Ueno-1319 (1966); Onoda T., Kami-gun, *Ueno* Ueno-1652 (1967); Kagobō-yama, Tōda-gun, *Ueno* Ueno-1443 (1966); Kinkazan, *Sugaya et al.* TUS-21869 (1955); Sendai C., *Endo* TUS-21859 (1913); Kunimi Pass, *Kimura, A.* TUS-21855 (1950); Izumi C., *Ueno* Ueno-1280 (1966); Miyagi T., *Koyama* and *Konta* TNS-246246 (1966); Mt. Daitō-dake, Akibo T., Natori-gun, *Ōhashi* TUS-21851 (1958); Yumoto, *Ueno* Ueno-1237 (1966); Mt. Zaōsan, *Yabe* TI (1898), *Komiya* NDC-5256 (1957); Hama-yoshida, Watari-gun, *Ueno* Ueno-1638 (1967); Hanagama, Yamamoto T., *Komiya* NDC-5283 (1973); Niihama, *Komiya* NDC-5282 (1973); Naramata, Marumori T., Igu-gun, *Ueno* Ueno-1256 (1966); Nishi-azuma-yama, Fukushima Pref., *Okabe* and *Sugaya* TUS-21850 (1952); Mt. Bandaisan, *Matsumura, J.* TI (1879); Akai-yachi,

Hattori, S. TI (1926); Nakamura T., Sōma C., *Watari* TKU (1929); Hana-numa moor, Hinoemata V., Minami-aizu-gun, *Suganuma* KYO-3065 (1960); Fukatsudo, Omotegō V., Nishi-shirakawa-gun, *Komiya* NDC-5311 (1975); Mt. Yamizo-yama, Higashi-shirakawa-gun, *Matsumoto*, T. TKU (1958); Ogawa T., Iwaki C., *Komiya* NDC-5310 (1975); Yotsukura T., *Ueno* Ueno-10352 (1973)

KANTŌ: Mt. Nasusan, Tochigi Pref., *Faurie* KYO-481 (1879), *Kaiwasaki*, T. TKU (1952); Mt. Kinunumasan, *Wada* TKU (1959); Nikkō C., *Matsumura*, J. TI (1877); Senjyō-ga-hara, *Yamamoto*, Y. TI (1922); Akanuma-hara, *Makino* MAK-72523 (1903); Kōtoku-numa, *Okuyama* TNS-277164 (1956); Tadara moor, Ichigai V., Haga-gun, *Komiya* NDC-5255 (1957); Nakamura T., Mōka C., *N.S.* MAK-72526 (1905); Oze-numa, Gunma Pref., *Hirano*, C. TI (1910), *Hirasawa* MAK-72522 (1910); Oze-ga-hara, *Baba*, Y. TNS-222698 (1968), *Hayata*, B. MAK-72520 (1903); Nishikuro-one, Mt. Tanigawa-dake, *Ono* H. TI (1948); Tairapyō-yama, *Okuyama et al.* TNS-262185 (1957); Yubiso, Minakami T., *Noguchi*, R. TNS-45037 (1934); Tsukiyono T., Tone-gun, *Takahashi*, F. TNS-163558 (1963); Nozori, Rokugō V., *Masuda* TNS-251095 (1965); Mt. Mitsumine-san, *Utsumi* TNS-302480 (1954); Mt. Akagisan, *Komiya* NDC-5232 (1950); Miyanowaki, Jyūō T., Ibaragi Pref., *Ueno* Ueno-21752 (1973); Midori-ga-oka, Mito C., *Makino* MAK-72527 (1931); Mizuki T., Hitachi C., *Ryūzaki* TNS-162297 (1965); Mt. Tsukubasan, *Honda*, M. TI (1925); Chōshi C., Chiba Pref., *Sekiya* NDC-5239 (1951); Narutō T., *Nakai*, T. TI (1920); Tōgane C., *Makino* MAK-70711 (1920); Mobara C., *Komiya* NDC-5235 (1951); Yatsumi, Chōsei V., Chōsei-gun, *Tamura*, Y. TI (1938); Daitō-misaki, *Watanabe*, K. TNS-54030 (1895); Masuo T., Kashiwa C., *Tsuyama* TNS-100339 (1953); Nakahara T., *Saitō*, Y. TNS-132942 (1956); Tama C., Tokyō Pref., *Kurogami* TNS-161786 (1964); Mt. Mihara-yama, Izu-ōshima, *Mizushima* TI (1950); Tenjyō-san, Kōzujima, *Jyōtani* TNS-118033 (1936); Oyama, Miyakejima, *Makino* MAK-72528 (1938); Mikurajima, *Suzuki*, T. TI (1956); Mt. Miharayama, Hachijyōjima, *Yamamoto*, A. TI (1930); Higashi-yama, *Momiyama* TNS-11894 (1955); Nishi-yama, *Jyōtani*, TNS-118032 (1931); Noborito, Kawasaki C., Kanagawa Pref., *Hara*, K. TI (1935); Sengoku-bara, Hakone T., *Irie* MAK-72530 (1923)

CHŪBU: Asahi V., Iwafune-gun, Niigata Pref., *Katagiri* Ike (1974); Gagyū-san, *Kudō*, Y. NSM-13281 (1957); Sekikawa V., *Ikegami* Ike-20804 (1952); Mt. Iidesan, *Noda* and *Kobayashi* NIIG (1961); Shanohara, Shibata C., *Ikegami* Ike-12893 (1949); Masugata-ike, *Ikegami* Ike-25277 (1953); Sugatani, *Nagashige* NIIG (1958); Minami-mata, *Ikegami* Ike-58279 (1963); Kurokawa V., Kita-kanbara-gun, *Ikegami* Ike-104932 (1970); Nakajyō T., *Ikegami* Ike-23852 (1953); Seirō V., *Ikegami* Ike-21590 (1952); Toyoura V., *Katagiri* Ike (1972); Honda-yama, *Yoshihara* NSM-22358 (1961); Sasagami V., *Ikegami*

Ike-21745 (1952); Dainichi-ga-hara, Suibara T., *Shibata* NDC-5313 (1975); Mt. Gozusan, *Noda* TNS-267394 (1959); Akiba-yama, Niitsu C., *Ikegami* Ike-65068 (1965); Higashi-jima, *Katagiri* Ike (1973); Gomadō-yama, Gosen C., *Ikegami* Ike-9009 (1947); Yokogoshi V., Naka-kanbara-gun, *Ikegami* Ike-21476 (1952); Hayade-kyō, Muramatsu T., *Ikegami* Ike-49539 (1961); Amidase, *Katagiri* Ike (1976); Nihondaira-san, Mikawa V., Higashi-kanbara-gun, *Ikegami* Ike-45372 (1960); Shikase T., *Ikegami* Ike-85040 (1967); Kamikawa V., *Ikegami* Ike-71883 (1966); Tochibori, *Shibata* NDC-5316 (1975); Tsugawa T., Nakai and Maruyama TNS-84309 (1950); Shimoda V., Minami-kanbara-gun, *Ikegami* Ike-26185 (1954); Sugisawa T., Mitsuke C., *Katagiri* Ike (1975); Daikura, Tochio C., *Yoshihara* NSM-5185 (1953); Yūkyū-zan, Nagaoka C., *Yoshihara* NSM-3407 (1951); Oyazawa T., *Katagiri* Ike (1976); Teradomari T., Santō-gun, *Yoshihara* NSM-25128 (1950); Mishima T., *Yoshihara* Ike-37733 (1932); Koshiji T., *Yoshihara* NSM-25699 (1946); Katagai T., Ojiya C., *Yoshihara* NSM-25706 (1947); Kariwa V., Kariwa-gun, *Ikegami* Ike-1074 (1935); Oguni T., *Iwano* NSM-1088 (1940); Shimo-karui-gawa, Kashiwazaki C., *Katagiri* Ike (1976); Irihiro V., Kita-uonuma-gun, *Ikegami* Ike-13695 (1949); Koide T., *Ikegami* Ike-16495 (1951); Yunotani V., *Ikegami* Ike-40372 (1958); Mt. Echigo-komagatake, *Hayata* TI (1903); Tunan T., Naka-uonuma-gun, *Katagiri* Ike (1975); Mt. Hakkaisan, Minami-uonuma-gun, *Watanabe*, A. NSM-7046 (1951); Yamato T., *Ikegami* Ike-63327 (1965); Mt. Nakano-dake, *Ikegami* Ike-85367b (1967); Makihata-yama, Shiozawa T., *Ikegami* Ike-42736 (1959); Mt. Jyōetsu-asahi-dake, *Shibata* NDC-5322 (1976); Shimizu Pass, *Ikegami* Ike-42533 (1959); Yomogi Pass, Tsuchitaru, Yuzawa T., *Ozaki* NSM-7503 (1954); Mt. Naeba-yama, *Noda* NIIG (1938); Matsuno-yama T., Higashi-kubiki-gun, *Ikegami* Ike-72707 (1966); Hishi-gatake, Yasuzuka T., *Ikegami* Ike-102406 (1970); Mt. Myōkōzan, Naka-kubiki-gun, *Matsuda*, S. KYO (1894); Hiuchi-yama, *Aoyagi* NIIG (1962); Yoshikawa T., *Katagiri* Ike (1973); Ōtsuka-yama, Aikawa T., Sado-ga-shima, *Shinpo* NIIG (1936); Otowa-ike, *Shinpo* NIIG (1931); Mt. Togakushi-yama, Naga-no Pref., *Matsumura*, J. TI (1884); Mt. Iwasuge-yama, Shimo-takai-gun, *Nakajima*, Y. TUS-21860 (1913); Mt. Shiga-yama, *Komiya* NDC-5257 (1957); Mt. Asama-yama, *Ōwatari* KYO (1894); Minami-karuizawa T., *Satō*, K. TI (1954); Mt. Shirouma-dake, *Uchiyama* TI (1905); Tsuga-ike, *Okamoto* KYO (1935); Shirouma-ō-ike, *Naitō* KAG-20223 (1925); Iyari moor, Ōmachi C., *Mizushima* MAK-2905 (1957); Ogawa V., Kami-minochi-gun, *Satake* TI (1926); Ōgemi, Ōoka V., Sarashina-gun, *Minemura* MAK-5188 (1958); Mt. Norikura-dake, *Furuya* TI (1950); Mt. Ontakesan, *Koidzumi* TI

(1910); Mt. Kiso-komagatake, *Sakurai* TNS-6303 (1893); Yashima-ike, Kiri-gamine, *Momose* TI (1931); Kowashimizu, *Tagawa* and *Iwatsuki* KYO-285 (1955); Mt. Nyūgasa-yama, Suwa C., *Yamazaki*, T. TI (1954); Matsubarako, Minami-saku-gun, *Satō*, K. TI (1960); Nobeyama, *Maekawa* TI (1944); Chiyo T., Iida C., *Muramatsu*, K. TNS-113532 (1948); Tadachi, Nagiso T., Kiso-gun, *Kanai* TI (1957); Mt. Utsukushi-no-mori-yama, Kiyosato, Kita-takuma-gun, Yamanashi Pref., *Mizushima et al.* MAK-133266 (1964); Mt. Sōgatake, Kurobe C., Toyama Pref. *Nagai* TI (1956); Tsurigane Spa, *Ohwi* KYO-7449 (1935); Iburi-daira, Asahi T., Shimo-niikawa-gun, *Kanai* TI (1958); Takamine-yama, Kamiichi T., Naka-niikawa-gun, *Kurosaki* KAN-67682 (1966); Fukuzawa, Oyama T., Kami-niikawa-gun, *Sasaoka* MAK-72532 (1909); Onsen-shita, Mt. Tateyama, *Satō*, W. KAN-10535 (1944); Nishiyama, Yatsuo T., Nei-gun, *Kirino* TNS-139225 (1955); Ningyō-yama, Higashi-tonami-gun, *Satomi* KAG (1959); Nakawatari T., Himi C., *Ikeda*, K. KAN-68604 (1968); Hōryūzan, Hōryū T., Suzu-gun, Ishikawa Pref., *Satomi* KAN-12318 (1952); Matsunami T., *Yoshikawa* KAN-34488 (1931); Isori, Yanagida V., Fugeshi-gun, *Sakai* KAN-71758 (1969); Bira, Anamizu T., *Yoshikawa* KAN-34490 (1930); Ogi, Noto T., *Furuike* KAN-48099 (1958); Notojima T., Kashima-gun, *Yoshikawa* KAN-34489 (1930); Horimatsu, Shiga T., Hakui-gun, *Shimozawa* KAN-9588 (1951); Bijyōsan, Takahama T., *Tanaka*, S. MAK-99785 (1960); Mt. Goishi-ga-mine, Hakui C., *Yamamori* KAN-56183 (1964); Ushinzan, Kanazawa C., *Hara*, R. KAN-21226 (1957); Misoji-yama, *Ikeda*, R. KAN-33353 (1963); Iō-sen, *Shimozawa* KAK-25338 (1954); Takao-yama, *Hatanaka* KAN-13456 (1953); Tatsunoguchi T., Nomi-gun, *Masamune* KAN-40478 (1961); Oyamabi T., Komatsu C., *Takani* KAN-38055 (1963); Mt. Kuragatake, Tsurugi T., Ishikawa-gun, *Shimozawa* KAN-9573 (1951); Mt. Hakusan, *Ichimura*, T. KAN-1029 (1886); *Sakurai* TNS-6307 (1903); *Masamune* KAN-50077 (1961); Tani Pass, Shiramine V., *Koidzumi* KYO; Yamanaka T., Enuma-gun, *Ichimura* KAN-1026 (1886); Katsuyama C., Fukui Pref., *Nakahara*, G. TI (1881); Hino-yama, Takefu C., *Watanabe*, S. KAN-28621 (1960); Ikenokōchi, Tsuruga C., *Hotta* MAK-61923 (1961); Hozue, Takayama C., Gifu Pref., *Honda* TI (1925); Hiru-ga-no, Gujyō-gun, *Hashimoto* KAN-53478 (1964); Koizumi, Kani T. Kani-gun, *Komiya* NDC-5335 (1976); Shinden, Kani T., *Komiya* NDC-5339 (1976); Toki T., Mizunami C., *Komiya* NDC-5336 (1976); Hira-iwa, Hiyoshi T., *Komiya* NDC-5338 (1976); Naga-hara, Gotenba C., Shizuoka Pref., *Makino* MAK-72537 (1904); Matsuzaki, Shimoda C., *Nakai*, T. TI (1940); Kikugawa T., Ogasa-gun, *Komiya* NDC-5276 (1969); Mt. Ogasa-yama, *Hashimoto*, G. TNS-44088 (1930); Shimo-tachibana, Mori T.,

Syūchi-gun, *Komiya* NDC-5271 (1968); Oguni Shrine, *Komiya* NDC-5278 (1971); Nobe, Toyooka V., Iwata-gun, *Hisamatsu* TI (1889); Kasuisai, Fukuroi C., *Muramatsu* TI (1922); Yotsu-ike, Hamamatsu C., *Komiya* NDC-5266 (1965); Shirosuka, Kosai C., *Komiya* NDC-5265 (1964); Miwa, Tōei T., Kitashidara-gun, Aichi Pref., *Yamazaki*, T. TI (1957); Mt. Dandōsan, Shidara T., *Murata*, G. KYO-6514 (1953); Takashi, Toyohashi C., *Makino* MAK-72538 (1893); Tenpaku, *Koike* TI (1971); Mt. Sanage-yama, Nishi-kamo-gun, *Komiya* NDC-5281 (1972); Kaibuki, Nishio C., *Nagura* MAK-72539 (1900); Ueno T., Chita-gun, *Itō*, Tō. TNS-62117 (1891)

KINKI: Mt. Hirasan, Shiga Pref., *Matsuoka* TNS-105440 and MAK-10345 (1952); Mt. Ibuki-yama, *Makino* MAK-72533 (1935); Tsuchiyama T., Kōga-gun, *Kodama* TNS-184261 (1967); Mt. Ryū-gatake, Ishika V., Inabe-gun, Mie Pref., *Fukuoka* KYO-6006 (1963); Mt. Gozaishosan, *Kitamura* KYO (1936); Komono T., Mie-gun, *Sakurai* TNS-6300 (1888); Mitate-ō-ike, Yokkaichi C., *Nakano*, K. KAN-15171 (1953); Aoyama T., Naga-gun, *Takeuchi*, M. TI (1946); Shin-ike, Meiwa T., Taki-gun, *Komiya* NDC-5279 (1971); Asamayama, Ise C., *Matsumura*, J. TI (1883); Noma, Yasaka T., Takeno-gun, Kyoto Pref., *Takahashi*, H. KYO-946 (1971); Mt. Hieizan, *Kawagoe*, S. KAG (1906); Kibune, Sagyō-ku, *Togashi*, M. TI (1965); Taka-ga-mine, Kita-ku, *Okamoto* KYO (1932); Mizoro-ike, Ōsono TNS-16635 (1908); Kansui, Mt. Ikomasan, Higashi-ōsaka C., Ōsaka Pref., *Komiya* NDC-5291 (1974); Mikita, Sakai C., *Watanabe*, K. TNS-62118 (1896); Shinoda-yama, Izumi C., *Komiya* NDC-5318 (1975); Nijyō, Kashiba T., Kita-katsuragi-gun, Nara Pref., *Kodama* TNS-246979 (1961); Murō V., Uda-gun, *Tagawa* KYO (1950); Shinjyō, Tanabe C., Wakayama Pref., *Nakajima* TI (1928); Ōshima, Kushimoto T., Nishimurō-gun, *Tsukamoto* KYO (1940); Hyō-no-sen, Mikata-gun, Hyōgo Pref., *Kitamura* and *Murata* KYO-644 (1952); Aogaki T., Hikami-gun, *Hosomi* KYO (1968); Shikata T., Innami-gun, *Komiya* NDC-5319 (1975); Mt. Rokkōsan, *Kuriyama* MAK-72541 (1928); Kōyōen, Nishinomiya C., *Murata*, G. KYO-18608 (1964); Tsuna T., Awaji-shima, *Ishigami* TI (1943); Ayuhara, Goshiki T., *Kōno*, Y. KYO-43 (1949)

CHŪGOKU: Hino-gun, Tottori Pref., *Naitō*, T. KAG (1927); Mizuho T., Ōuchi-gun, Shimane Pref., *Kanai* TI (1958); Taisa-yama, Kanagi T., Naka-gun, *Miyamoto* MAK-51056 (1964); Nihonbara, Mimasaka T., Aida-gun, *Takayama* TNS-152916 (1961); Sanyō T., Akaiwa-gun, *Komiya* NDC-5332 (1976); Gō-hara, Kure C., Hiroshima Pref., *Maekawa* TI (1944); Mitaki, Hiroshima C., *Iwatsuki* KYO-4589 (1959); Miyajima, *Hayata* TI (1913); Kuha T., Ōtake C., *Satō*, W. KAN-7464 (1937); Kuro-iwa, Kumage T., Kumage-

gun, Yamaguchi Pref., *Mazaki* TNS-251385 (1969); Mt. Kinpokusan, Saba-gun, *Satomi* KAN-10767 (1951); Asahi V., Abu-gun, *Nikai* TNS-48318 (1920); Ono T., Bōfu C., *Migo* KAN-51534 (1959); Hikami, Yamaguchi C. *Nikai* TNS-48317 (1892)

SHIKOKU: Daishinzan, Tonoshō T., Shōdo-shima, Kagawa Pref., *Furuike* KAN-22203 (1955); Ikeda, *Nakano*, K. KAN-15290 (1953); Higashi-iyayama V., Mima-gun, *Nikai* TNS-48316 (1908); Mt. Nakatsusan, Nishi-iyayama V., Miyoshi-gun, *Murata*, G. KYO-7770 (1954); Mt. Kunimi-yama, *Murata*, G. KYO-7619 (1954); Hataeda T., Anan C., *Tamaoki* MAK-72543 (1904); Higashi-akashi-yama, Besshi-yama V., Uma-gun, Ehime Pref., *Murata*, G. KYO-15015 (1961); Nishi-akashi-yama, Niihama C., *Tsuyama* TI (1934); Iōsan, Imabari C., *Akutagarwa* MAK-72545 (1927); Mt. Ishizuchi-yama, Kami-ukena-gun, *Naruhashi* and *Wakabayashi* KYO-151 (1968); Onoda, Uwa T., Higashi-uwa-gun, *Nomura*, Y. KYO (1960)

KYŪSYŪ: Jyōno, Kokura-ku, Kita-kyūsyū C., Fukuoka Pref., *Yano*, S. MAK-72553 (1903); Ueno-hara, Imajiku T., Fukuoka C., *Fujimoto* NDC-5272 (1968); Mt. Inu-gatake, Chikujyō-gun, *Matsumura*, J. TI (1882); Mt. Hikosan, Tagawa-gun, *Matsuda*, S. KYO (1889); *Makino* MAK-72554 (1906); Kusu T., Kusu-gun, Ōita Pref., *Kubo* MAK-72525 (1911); Hirado-jima, Hirado C., Nagasaki Pref., *Hashimoto*, Y. TI (1951); Isahaya C., *Kamimine* KAG-62 (1933); Nagasaki C., *Makino* MAK-72550 (1932); Mt. Unzen-dake, Minamitakagi-gun, *Makino* MAK-72547 (1905); Shisui T., Kikuchi-gun, Kumamoto Pref., *Kamizuma* MAK-72551 (1905); Fukuda, Mashiki T., Kami-mashiki-gun, *Kamizuma* MAK-71482 (1905); Yada-ake-yama, Masaki T., Nishi-morokata-gun, Miyazaki Pref., *Itō* and *Sōma* TKU (1964); Kamamuta, Takaharu T., *Honda*, T. KAG (1929); Karakuni-dake, Mt. Kirishima-yama, *Nakano*, Yo. TKU (1908); Ebino moor, *Hatusima* KAG-15115 (1951); Nishitara T., Ōguchi C., Kagoshima Pref., *Hatusima* and *Sako* KAG-26979 (1962); Takarabe T., Soo-gun, *Sako* KAG-7598 (1968); Mt. Takakuma-yama, Tarumizu C., *Naitō* KAG-9722 (1925); Yoshino T., Kagoshima C., *Uchiyama* TI (1900); Sakurajima, *Itō*, To. TNS-63898 (1894); Mt. Miyanoura-dake, Yaku-shima, Kumage-gun, *Makino* MAK-72555 (1909); Anbō, *Tagarwa*, M. KYO-1773 (1933); Kosugidani, *Sugimoto* TNS-133647 (1956); Kodama Shrine, *Sugimoto* TNS-133660 (1956); Hana-no-e-gawa, *Kawagoe* KAG (1911)

Distr.: Europ., Asia (Siberia, China, Korea, Japan), N. Amer.

- 7) *Drosera spathulata* Labill., Nov. Holl. Pl. Spec. 1: 79, t. 106. f. 1 (1804); Roem. and Schult. in Syst. Veg. 6: 760 (1820); DC., Prodr. 1: 318 (1824);

Hook. f., Fl. Nov. Zel. 1: 20 (1853); Miq., Fl. Ind. Bat. 1, 2: 120 (1859); Benth., Fl. Hongk. 130 (1861); Benth., Fl. Austral. 2: 459 (1864); Hook. f., Handb. N. Zeal. 63 (1864); Vidal, Phan. Cuming. Philip. 111 (1885); Matsum., Enum. ed. 2, 109, n. 1181 (1895) [as *D. Burmanni* Vahl.]; Makino in Bot. Mag. Tokyo 19: 20 (1905); Diels in Engl., Pflanzenr. 4, 112: 83 (1906); Matsum. and Hayata in J. Coll. Sci. Univ. Tokyo 22: 136 (1906); Makino in Iinuma, Sōmoku-dzusetsu ed. 3, 1: 406 (1907); Merrill, Enum. 2: 216 (1923); Ohwi, Fl. Jap. 584 (1953); Walker, Fl. Okinawa and South. Ryukyu Isl. 505 (1976)

subsp. *spathulata* (Labill.) nov.

Planta exsiccata viridula. Folia spathulata; petiolus obscurus; lamina 9~20 mm. longa. Stipulae plerumque trifidae, segmentis angustis. Scapus 5~18 (med. 8.1) cm. longus; inflorescentia 4~18 (med. 8)-flora, 2~4 (med. 5.0) cm. longa. Chromosomata $2n=20, 40$.

Syn. *Drosera Burmanni* DC., Prodr. 1: 318 (1824), non Vahl.

D. Burmanni sensu Itō and Matsum. in J. Coll. Sci. Univ. Tokyo 12: 263 (1899), non Vahl.

D. Loureirii Hook. et Arn. in Bot. Beech. Voy. 167, t. 31 (1841)

D. Lovellae F.M. Bailey in Queensl. Dep. Agr. Bot. Bull. 7: 61 (1893)

D. Minutula Colenso in Tran. N. Zeal. Inst. 21: 81 (1889)

D. propinqua R. Cunn. in Ann. Nat. Hist. 4: 109 (1840)

D. triflora Colenso in Trans. N. Zeal. Inst. 22: 461 (1890)

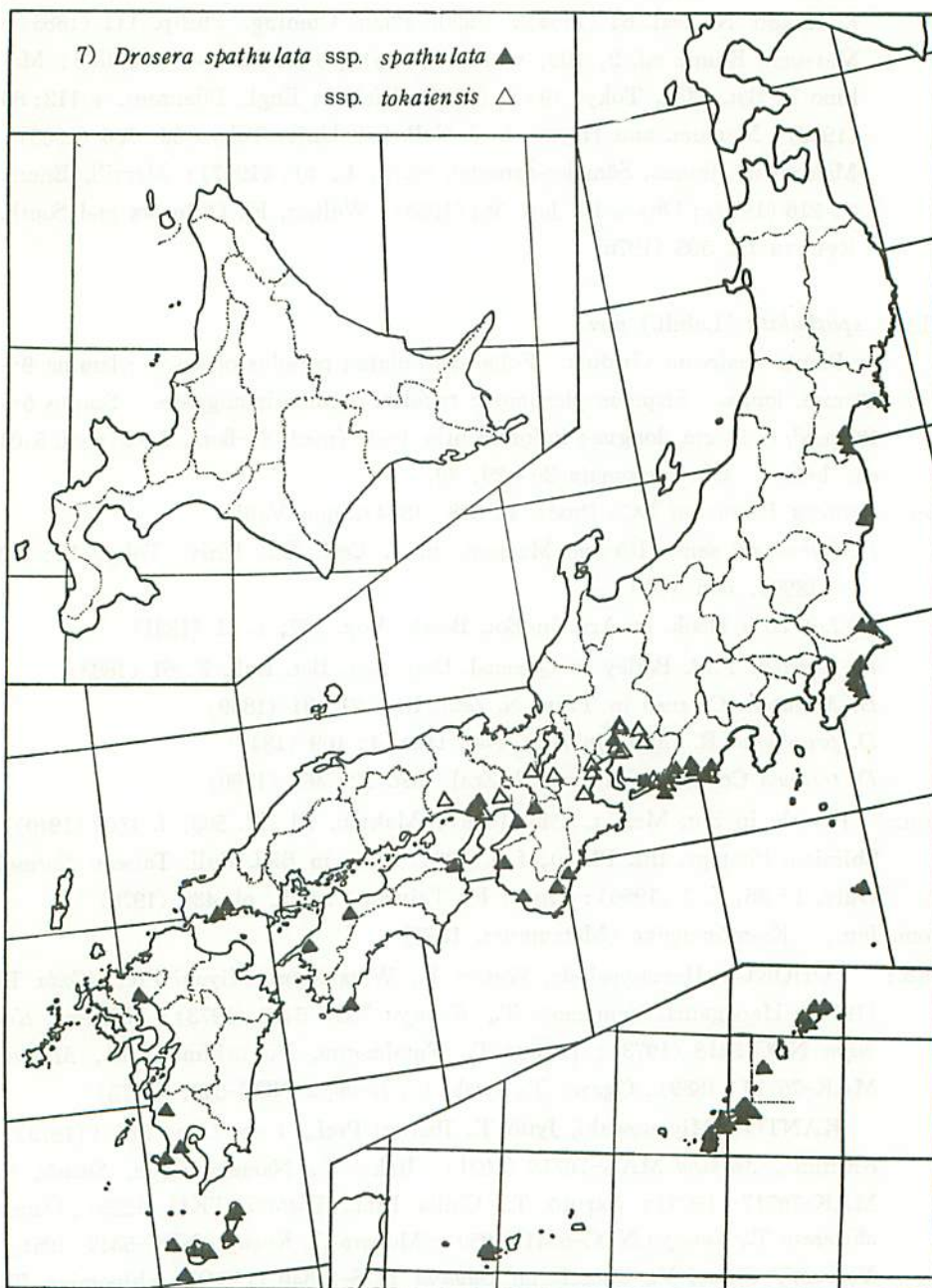
Icon.: Planch. in Bot. Mag. t. 5240 (1876); Makino, Ill. Fl. 503, f. 1509 (1940); Shimizu, Photogr. Ins. Pl. 40, f. 1 (1966); Kuo in Biol. Bull. Taiwan Normal Univ. 1: 36, f. 3 (1966); Liu in Fl. Taiwan 2: 651, pl. 436 (1976)

Nom. Jap.: Ko-mōsengoke (Matsumura, 1895)

Hab.: TŌHOKU: Hama-yoshida, Watari T., Watari-gun, Miyagi Pref., Toda TI (1974); Hanagama, Yamamoto T., Komiya NDC-5416 (1973); Niihama, Komiya NDC-5418 (1973); Hirono T., Futaba-gun, Fukushima Pref., Makino MAK-70714 (1889); Ogawa T., Iwaki C., Komiya NDC-5437 (1975)

KANTŌ: Miyanowaki, Jyūō T., Ibaragi Pref., Ueno Ueno-21754 (1973); Kashima, Makino MAK-70718 (1931); Itako T., Namekata-gun, Suzuki, Y. MAK-70717 (1903); Narutō T., Chiba Pref., Watari TKU (1929); Ōami-shirasato T., Komiya NDC-5341 (1950); Mobara C., Komiya NDC-5342 (1951); Yatsumi, Chōsei V., Chōsei-gun, Sugaya TUS-21849 (1938); Ichinomiya T., Makino MAK-70720 (1897); Maruyama T., Awa-gun, Asano TNS-162382 (1940)

CHŪBU: Sakabe, Haibara T., Haibara-gun, Shizuoka Pref., Komiya NDC-



5400 (1971); Hosoe-innoya, *Komiya* NDC-5394 (1969); Kikugawa T., Ogasagun, *Komiya* NDC-5397 (1969); Shimo-tachibana, Mori T., Shūchi-gun, *Komiya* NDC-5387 (1968); Oguni Shrine, *Komiya* NDC-5388 (1968); Nobe, Toyooka V., Iwata-gun, *Hisamatsu* and *Masuda* TI (1889); Hirose, *Komiya* NDC-5390 (1968); Kasuisai, Fukuroi C., *Muramatsu* TI (1922); Yotsu-ike, Hamamatsu C., *Komiya* NDC-5353 (1964); Kami-hosoya, Toyohashi C., *Komiya* NDC-5409 (1972); Takashi, *Komiya* NDC-5379 (1967); Komaki C., *Komiya* NDC-5358 (1965)

KINKI: Arii T., Kumano C., Mie Pref., *Itō*, H. TKU (1950); Sekiya, Kashiba T., Kita-katsuragi-gun, Nara Pref., *Kodama* TNS-247018 (1961); Shinoda-yama, Izumi C., Ōsaka Pref., *Seto* KYO-2112 (1952); Minami-nogami T., Kainan C., Wakayama Pref., *Yamamoto*, H. TNS-199321 (1942); Shirahama T., Nishi-murō-gun, *Nakajima*, J. TI (1927); Doro, Kumanogawa T., Higashimurō-gun, *Makino* MAK-70724 (1924); Aono-gahara, Ono C., Hyōgo Pref., *Itō*, H. TI (1934); Kakogawa C., *Komiya* NDC-5378 (1967)

CHŪGOKU: Hikami, Yamaguchi C. Yamaguchi Pref., *Nikai* TI-249 (1892); Minatogawa, Achisu T., *Oka* TNS-275329 and KYO-34567 (1969)

SHIKOKU: Hakamagoshi, Ōtsu T., Naruto C., Tokushima Pref., *Takano* TNS-272710 (1963); Kiuchi-no-ki, Hata-gun, Kōchi Pref., *Makino* MAK-70726 (1889); Kozaitsumo, Tosashimizu C., *Makino* MAK-70725 (1889); Mt. Ishizuchi-yama, Kami-ukena-gun, *Oda* MAK-70728 (1904); Noda, Ōzu C., *Yamashita* KYO (1928)

KYŪSYŪ: Saga C., Saga Pref., *Makino* MAK-70730; Hirakawa, Miya-nojyō T., Satsuma-gun, Kagoshima Pref., *Komada* KAG (1965); Kiire T., Ibusuki-gun, *Nakano*, Yo. TKU (1910); *Tashiro*, Z. KYO (1921); Man-nose, Kaseda C., *Hatusima* KAG-30465 (1966); Tanegashima Isl., *Taniguchi* KAG (1917); Mt. Eboshi-dake, *Tashiro*, Z. KYO (1920); Hirayama, *Hatusima* and *Sako* KAG-28300 (1964); Yakushima Isl., *Muramatsu* TI (1935); Anbō, *Ta-gawa* KYO-77787 (1957); Kosugi-dani, *Kimura*, Y. TI-3942 (1939); Kuchino-erabu-jima Isl., *Hosoyamada* KAG-19421 (1924); Nakanoshima Isl., *Koga* KAG-1160 (1910); *Sako* and *Kawanabe* KAG-1820 and MAK-34830 (1958); Taisyō Pass, Amami-ōshima Isl., *Ikuma* MAK-70731 (1910); Naze C., *Koidzumi* KYO (1923); Tarō Pass, Nishi-nakama, *Komiya* NDC-5407 (1972); Mt. Yuwandake, *Itō*, H. TI (1936); Tsuchihama, Kasari T., *Tsugaru* TNS-341140 (1973); Tokunoshima Isl., *Uehara* KAG-11614 (1921); Mikyō, *Sako* KAG-7495 (1969)

OKINAWA: Benoki, Kunigami V., Okinawa Isl., *Tashiro*, Z. KYO (1924); Sate, *Koidzumi* KYO (1923); Aha, *Kanai et al.* TNS-318311 (1973); Mt.

Yonaha-dake, *Mutō, H.* TNS-295708 (1973); Ō-gimi V., *Tashiro, Y.* TI (1889); Nago C., *Komiya* NDC-5350 (1960); Mt. Nago-dake, *Kuroiwa* KYO (1907); Onna V., *Miyake* TI (1899); Mt. Onna-dake, *Hatusima* KAG-17710 (1955); Urazoe V., *Hatusima* KAG-17485 (1955); Naha C., *Koidzumi* KYO (1923); Kumejima Isl., *Hatusima* KAG-30810 (1967); Urauchi-gawa, Iriomote-jima Isl. *Itō, H.* TI (1936); *Koyama et al.* TNS-295643 (1973); Komi, *Yamazaki et al.* TI (1968); Mt. Goza-dake, *Yamazaki, T.* TI (1963); Uchibanare-jima Isl., *Taketomi T., Masamune* TAI-51879 (1935)

Distr.: Asia (Japan, China, Hongkong, Philip. Borneo), Austral., Tasmania [Type loc.: Southport, *Labill.*], N. Zeal.

subsp. *tokaiensis* nov.

Planta exsiccata nigrescens. Folia plerumque petiolata; petiolus glabratus, 4~15 mm. longus; lamina obovata vel rotundata, 4~8 mm. longa. Stipulae trifidae vel quadrifidae vel multifidae, segmentis plus minus latis. Scapus 6~18 (med. 11.7) cm. longus; inflorescentia 4~16 (med. 7)-flora, 2~7 (med. 3.5) cm. longa. Chromosomata $2n=60$ [K. Kondō, 1976]

Typus: Imō moor, Toyohashi C., Aichi Pref. [NDC-5381, *Komiya*, Aug. 14, 1967]

Syn. *Drosera spathulata* var. *rotundata* Makino [= *D. Loureiri* var. *rotundata* Makino] in sched. [Makino TI (1894)]

Icon.: Shimizu, Photogr. Ins. Pl. 39, f. 2 (1966); Terasaki, Ill. Fl. Jap. ed. 2, 254, f. 979 (1977); Kondō in the Asahi's World Pl. n. 64: 1487 (1977)

Nom. Jap.: Kansai-gata-ko-mōsengoke (hort.)

Hab.: CHŪBU: Shinden, Kani T., Kani-gun, Gifu Pref., *Komiya* NDC-5452 (1976); Hagihara, Himeji V., *Komiya* NDC-5446 (1976); Toki T., Mizunami C., *Komiya* NDC-5336 (1976); Miyakoda T., Hamamatsu C., Shizuoka Pref., *Komiya* NDC-5355 (1964); Mikata-gahara T., *Komiya* NDC-5356 (1965); Shirosuka T., Kosai C., *Komiya* NDC-5354 (1964); Shinjyo-bara, *Komiya* NDC-5361 (1965); Imō moor, Toyohashi C., Aichi Pref., *Komiya* NDC-5381 (1967); Futagawa T., Makino MAK-70722 (1894); Takashi, Makino MAK-70723 (1894); Tenpaku, *Komiya* NDC-5377 (1967); Mt. Sanage-yama, Minami-kamo-gun, *Komiya* NDC-5423 (1973); Togō T., Aichi-gun, *Komiya* NDC-5410 (1972); Chokushi-ike, Toyooka C., *Komiya* NDC-5357 (1965); Narumi T., Nagoya C., *Komiya* NDC-5385 (1967); Higashi-yama, *Ashikari* NDC-5348 (1956); Ōtaka T., Nagoya C., *Komiya* NDC-5349 (1958)

KINKI: Tanakami T., Ōtsu C., Shiga Pref., *Okamoto* KYO (1957); Kamitanakami T., *Murata, G.* KYO-7533 (1954); Mitate-ō-ike, Yokkaichi C., Mie

Pref., Nakano, K. KAN-15172 (1953); Kanashōzu, Suzuka C., *Komiya* NDC-5343 (1951); Yokoo, Matsuzaka C., *Komiya* NDC-5404 (1971); Kamigamo, Kita-ku, Kyōto Pref., Makino MAK-70781 (1905); Kōyō-en, Nishinomiya C., Hyōgo Pref., *Komiya* NDC-5365 (1967); Kakogawa C., *Komiya* NDC-5440 (1975); Shikata T., In-nan-gun, *Komiya* NDC-5445 (1975); Oku-ike, Haya-shida T., Himeji C., *Komiya* NDC-5441 (1975)

Distr.: Endemic in Japan

Index to collectors of the examined specimens

Herbaria and species names are indicated as follows:-

- Ike: Ikegami Herbarium
KAG: Herbarium, Kagoshima University
KAN: Botanical Institute, Faculty of Science, Kanazawa University
KYO: Department of Botany, Faculty of Science, Kyōto University
MAK: Makino Herbarium, Faculty of Science, Tōkyō Metropolitan University
NDC: Department of Biology, Nippon Dental University, Tōkyō
NIIG: Herbarium, Faculty of Science, Niigata University
NSM: Nagaoka Science Museum
SAP: Botanical Institute, Faculty of Science, Hokkaidō University
TAI: Botanical Institute, National Taiwan University
TI: Botanical Institute, Faculty of Science, Tōkyō University
TKU: Botanical Institute, Faculty of Science, Tōkyō Kyōiku University
TNS: Botanical Section, The National Science Museum, Tōkyō
TUS: Biological Institute, Faculty of Science, Tōhoku University
Ueno: Ueno Herbarium

- A.v.= *Aldrovanda vesiculosa*
D.a.= *Drosera anglica*
D.i.= *Drosera indica*
D.ia.= *Drosera indica* f. *albiflora*
D.o.= *Drosera* × *obovata*
D.p.= *Drosera peltata*
D.r.= *Drosera rotundifolia*
D.s.= *Drosera spathulata* ssp. *spathulata*
D.st.= *Drosera spathulata* ssp. *tokaiensis*

- Akutagawa: MAK-72545 (1927)=D.r.
 Anki: TI (1968)=D.s.
 Aoki: TKU (1909)=A.v.
 Aoyagi: NIIG (1962)=D.r.
 Arai: NDC-5231 (1950)=D.r.
 Araki: KYO (1933)=A.v.
 Arimoto: SAP (1903)=D.p.
 Asano: TNS-162382 (1940)=D.s.
 Ashihara: KAN-57636 (1949)=D.a.; KAN-57658 (1949)=D.r.
 Ashikari: NDC-5348 (1956)=D.st.
 Ataka: KAN-33804 (1962)=D.p.; KAN-33805 (1962)=D.r.
 Baba: TNS-222697 (1968)=D.a.; TNS-222698 (1968)=D.r.; TNS-222860 (1968)=D.o.
 Chiba: MAK-72513 (1912)=D.r.
 Chihara: TNS-38169 (1932)=D.p.
 Chūma: TI (1968)=D.r.; TI (1968)=D.s.
 Doi: MAK-72501 (1902), MAK-72558(1903)=D.p.
 Endō: MAK-72468 (1942), TUS-21840 (1910)=D.a.; MAK-72482 (1942)=D.o.; MAK-72521 (1942), TUS-21859 (1913)=D.r.; TUS-21845 (1912)=D.p.; TUS-21836 (1913)=A.v.
 Faurie: KYO (?)=D.i.; KYO-480 (1897), KYO-481 (1897), KYO (1903), KYO (1904)=D.r.; KYO-3975 (1900)=D.s.
 Fujii: TI-560025 (1956)=D.r.
 Fujimoto: NDC-5272 (1968)=D.r.
 Fujita: TUS-21874 (1962)=D.r.
 Fukuda, M.: TI (1975)=D.p.
 Fukuda, T.: TI (1963)=D.r.
 Fukuda, Y.: TI (1969)=D.p.; TI (1969)=D.r.
 Fukuoka: KAN-27105 (1957), MAK-41019 (1964), KYO-6730 (1964), TNS-180452 (1964)=D.p.; KAN-31402 (1961), KYO-4897, 5396 (1962), KAN-38822 (1963), KYO-6006 (1963)=D.r.
 Furuike: KAN-22203 (1955), KAN-48097-9 (1958)=D.r.
 Furuse: MAK-72496 (1911)=D.p.; TI (1946)=D.o.; KAG (1959)=D.ia.
 Furuya: TI (1950)=D.r.
 Fushimi: KYO (1920)=D.p.
 Hara, H.: TI (1934), TI (1950)=D.a.; TI (1934)=D.o.; TI (1951)=D.p.
 Hara, K.: TI (1935)=D.r.
 Hara, M.: KYO (1930)=D.p.
 Hara, R.: KAN-21226 (1957)=D.r.
 Hara, T.: MAK-72536 (1908)=D.r.
 Harasawa: MAK-72465 (1910)=D.a.; MAK-72522 (1910)=D.r.
 Hasegawa, H.: NIIG (1964)=D.r.

- Hasegawa, K.: TI (1964), TI (1968)=D.r.
Hashimoto, C.: KYO (1944), TNS-101420 (1944)=D.p.
Hashimoto, G.: TNS-44088 (1933)=D.r.
Hashimoto, M.: KAN-53478 (1964), KAN-62537 (1966)=D.r.
Hashimoto, Y.: TI (1951)=D.r.
Hatanaka: KAN-13456 (1953)=D.r.
Hatano: NIIG (1955)=D.r.
Hattori, S.: TI (1920), TI (1926)=D.r.
Hattori, T.: KYO-262 (1925)=D.i.
Hatusima: KAG-13651 (1949), KAG-15502 (1952), KAG-17485 (1955), KAG-17710 (1955), KAG-25909 (1960), KAG-30465 (1966), KAG-30810 (1967)=D.s.
Hatusima and Sako: KAG-26979 (1962)=D.r.; KAG-28300 (1964), MAK-48185 (1964)=D.s.
Hayata: MAK-72456 (1898), MAK-72459 (1903), TI (1903)=D.a.; MAK-72520 (1903), TI (1903), TI (1913)=D.r.
Hikino: TI (1934)=D.p.
Hirano: TI (1910)=D.a.; TI (1910)=D.r.
Hiroe: TNS-88596 (1950)=A.v.
Hisamatsu: TI (1889)=D.p.; TI (1889)=D.r.
Hisamatsu and Masuda: TI (1889)=D.s.
Hisauichi: KYO (1917), TI (1917)=A.v.; TNS-30546 (1917)=D.ia.; TI (1917)=D.s.; TI (1919)=D.p.
Honda, M.: TI (1925), TI (1927), TI (1932), TI (1938)=D.r.
Honda, T.: KAG (1929)=D.r.
Hori: MAK-72505 (1886)=D.r.
Hosoi: KAN-70158 (1954)=D.r.
Hosomi: KYO-1190 (1936), TNS-57080 (1936), KYO-7195 (1968)=D.p.; KYO (1968)=D.r.
Hosoyamada: KAG-10973 (1926)=A.v.; KAG-19421 (1924)=D.s.
Hotta: KYO-16728 (1966), MAK-63149 (1966), TNS-180900 (1966)=D.a.; MAK-61923=D.r.
Ichimura: KAN-1026 (1886), KAN-1029 (1886), KAN-1080 (1897)=D.r.; KAN-1079=D.p.
Ihara: KAN-40463 (1961)=D.r.
Ikeda, K.: KAN-68604 (1968)=D.r.
Ikeda, R.: KAN-33353 (1963)=D.r.
Ikegami: Ike-1074 (1935), Ike-9009 (1947), Ike-12893 (1949), Ike-13695 (1949), Ike-15255 (1950), Ike-16495 (1951), Ike-20804 (1952), Ike-21476 (1952), Ike-21590 (1952), Ike-21745 (1952), Ike-23852 (1953), Ike-25277 (1953), Ike-26185 (1954), Ike-29911 (1955), Ike-40372 (1958), Ike-42533 (1959), Ike-42736 (1959), Ike-45372 (1960), Ike-49539 (1961), Ike-53770 (1962), Ike-28279 (1963), Ike-60756b (1964), Ike-63327

- (1965), Ike-65068 (1965), Ike-65227 (1965), Ike-71883 (1966), Ike-72707 (1966),
Ike-85040 (1967), Ike-85367b (1967), Ike-102406 (1970), Ike-104932 (1970)=D.r.
- Ikeno: TI (1890)=A.v.
- Ikoma: KAN-27238 (1959), TNS-141775 (1959)=D.p.
- Ikuma: MAK-70731 (1910)=D.s.; KYO (1912)=D.r.
- Imahori: KAG (1943), KAN-1077 (1949)=D.a.; KAN-9691 (1936), KAN-1069 (1949),
KAN-13772 (1953)=D.r.; KAN-11612 (1952)=D.p.
- Inami: TNS-71536 (1943), TNS-109444-5 (1951), NDC-5104-7 (1951), TNS-210562
(1968)=D.i.; TNS-254248 (1969)=D.ia.
- Inokoshi: TNS-94401 (1950)=D.p.; TNS-102556 (1951)=D.a.
- Irie: MAK-72530 (1923)=D.r.
- Ishigami: TI (1943)=D.p.; TI (1943)=D.r.
- Ishimura: KAG-1162 (1911)=D.p.
- Itabashi, K.: SAP (1919)=D.a.
- Itabashi, T.: SAP (1905)=D.ia.
- Itō, H.: TI (1934), TI (1936), TKU (1950)=D.s.; TI (1934), TKU (1957)=D.p.; TKU
(1959), TKU (1961)=D.r.
- Itō, Ta.: TNS-93783 (1950), TNS-108838 (1952)=A.v.
- Itō, To.: TNS-62117 (1891), TNS-63898 (1894)=D.r.
- Itō and Sōma: TKU (1959)=D.p.; TKU (1964)=D.r.
- Iwakawa: KAG (1928)=A.v.
- Iwano: NSM-1088 (1940)=D.r.
- Iwatsuki: KYO-2785 (1957), KYO-4589 (1959)=D.r.
- Iwatsuki et al.: KYO-539 (1965)=D.r.
- Jyō: TI (1900), MAK-72487 (1901)=D.p.; TI (?)=D.r.; TI (1901)=D.s.
- Jyōtani: TNS-118032 (1931), TNS-118033 (1936)=D.r.
- Kamimine: KAG-62 (1933)=D.r.
- Kamizuma: MAK-71482 (1905), MAK-72551-2 (1905)=D.r.
- Kanai: TI (1952)=D.p.; TI (1954), TI (1957), TI (1958)=D.r.
- Kanai, Shimabuku and Miyagi: TNS-318311 (1973)=D.s.
- Kaneshiro: MAK-70733 (1915)=D.s.
- Kashimura: TUS-21868 (1964)=D.r.
- Katagiri: NDC-5280 (1972), NDC-5301-9 (1975), Ike (1975), Ike (1973), Ike (1974),
Ike (1975), Ike (1976)=D.r.
- Kataoka: TNS-80022 (1941)=A.v.; TNS-113175 (1949)=D.p.
- Katō, E.: TNS-289021 (1957)=D.ia.
- Katō, M.: KAG (1964)=D.r.
- Kawagoe: KAG (1906)=D.a.; KAG (1906), KAG (1911), KAG (1921)=D.r.
- Kawagoe and Kajihara: KAG-19865 (1929)=D.r.
- Kawanabe: KAG-4939 (1959)=D.r.
- Kawasaki, M.: MAK-72473 (1903)=D.ia.

- Kawasaki, Te.: TI (1950)=D.i.
Kawasaki, Ts.: TKU (1952)=D.r.
Kawasaki, Y.: TI (?)=D.i.
Kikuchi: KAN-33713 (1962)=D.p.
Kimura, A.: TUS-21855 (1950)=D.r.
Kimura, K.: KAN-8395 (1950)=D.r.
Kimura, Y.: TI-39, 42 (1939)=D.s.; TI (1939)=D.r.
Kimura and Furusawa: TI (1940)=D.s.
Kinashi: KYO-864 (1890), KYO-868 (1901), KYO-865, 866 (1920), KYO (1920)=D.r.
Kirino: TNS-139225 (1955)=D.r.
Kitagawa: KYO-1207 (1958)=D.r.
Kitamura: KYO (1930), KYO (1936), KYO (1952)=D.r.; KYO (1949), KYO (1952)=D.p.; KYO (1952)=D.o.; KYO (1952)=D.st.
Kitamura and Murata: KYO-644 (1952)=D.r.
Kobayashi, S.: MAK-52328, 52465 (1960), MAK-135001 (1965), MAK-128134 (1967), KYO (1967)=D.r.
Kobayashi, T.: NDC-5264 (1964)=D.r.
Kodama: TNS-247061 (1961)=D.p.; TNS-246979 (1961), TNS-184261 (1967)=D.r.; TNS-162382 (1940)=D.s.
Koga: KAG-1160 (1910)=D.s.; KAG-1161 (1911)=D.r.
Kogure: TNS (1948)=D.a.
Kohiyama: MAK-72466 (1927)=D.a.; MAK-72480 (1927)=D.o.
Koidzumi: KYO (1923)=D.s.; TI (1910), TI (1914), KYO (?)=D.r.; KYO (1930)=D.p.
Koike: TI (1971)=D.r.
Kokawa: KYO-1022 (1968)=D.s.
Komada: KAG (1965)=D.s.
Komiya: NDC-5000 (1949), NDC-5004, 5011 (1951), NDC-5015 (1952), NDC-5027, 5029, 5042 (1953), NDC-5052 (1955), NDC-5058 (1961), NDC-5060 (1962), NDC-5066, 5068 (1964)=A.v.; NDC-5070 (1950), NDC-5071, 5078 (1951), TNS-109450 (1951), NDC-5072 (1954), NDC-5074 (1969)=D.a.; NDC-5101 (1953), NDC-5118 (1967), NDC-5123 (1971), NDC-5135 (1972)=D.i.; NDC-5095 (1949), NDC-5098 (1951), NDC-5108 (1953), NDC-5111 (1962), NDC-5112 (1963), NDC-5113, 5114 (1964), NDC-5115 (1965), NDC-5122 (1969), NDC-5156, 5179 (1975)=D.ia.; NDC-5192 (1950), NDC-5194 (1951), TNS-109449 (1951), NDC-5195 (1953), NDC-5196 (1969)=D.o.; NDC-5198 (1949), NDC-5199 (1951), TNS-109446 (1951), NDC-5204 (1952), NDC-5205 (1953), NDC-5207 (1954), NDC-5212 (1956), NDC-5213 (1958), NDC-5215 (1963), NDC-5219 (1965), NDC-5221 (1969), NDC-5222 (1974), NDC-5226, 5230 (1976)=D.p.; NDC-5232, 5234 (1950), NDC-5235, 5240 (1951), NDC-5244 (1952), NDC-5246 (1953), NDC-5247, 5248 (1954), NDC-5253 (1955), NDC-5254 (1956), NDC-5255-5259 (1957), NDC-5260 (1958), NDC-5261, 5262 (1960),

- NDC-5265 (1964), NDC-5266 (1965), NDC-5271 (1968), NDC-5273-5277 (1969), NDC-5278, 5279 (1971), NDC-5281 (1972), NDC-5282-5289 (1973), NDC-5291, 5292 (1974), NDC-5310-5319 (1975), NDC-5325-5338 (1976)=D.r.; NDC-5341 (1950), NDC-5342, 5343 (1951), NDC-5344 (1952), NDC-5347 (1954), NDC-5350 (1960), NDC-5351 (1961), NDC-5353 (1964), NDC-5358, 5362 (1965), NDC-5366, 5378, 5379 (1967), NDC-5387-5390 (1968), NDC-5394-5398 (1969), NDC-5399, 5400 (1971), NDC-5406-5409, 5414 (1972), NDC-5416-5418 (1973), NDC-5436 (1974), NDC-5437-5439 (1975)=D.s.; NDC-5343 (1951), NDC-5345 (1953), NDC-5349 (1958), NDC-5354, 5355 (1964), NDC-5356, 5357, 5360, 5361, 5363 (1965), NDC-5365, 5377, 5381-5385 (1967), NDC-5402-5404 (1971), NDC-5410-5413 (1972), NDC-5423 (1973), NDC-5440-5445 (1975), NDC-5446-5453 (1976)=D.st.
- Kōno: KYO-43 (1949)=D.r.
- Konno: NIIG (1959)=D.r.
- Koyama, H.: KYO-1332 (1962), TNS-179915 (1962)=D.r.
- Koyama, T.: KYO-6974 (1955)=D.p.
- Koyama and Fukuoka: KYO-3084 (1970), TNS-271902 (1970)=D.r.
- Koyama, Fukuoka and Katō: TNS-295643, 314046 (1973)=D.s.
- Koyama and Konta: TNS-246246 (1966)=D.r.
- Koyama, Toyokuni and Nosaka: TNS-303226 (1971)=D.r.
- Kubo: MAK-72525 (1911)=D.r.
- Kuboki: MAK-72489 (1903)=D.p.
- Kudō, T.: NSM-13281 (1957)=D.r.
- Kudō, Y.: TUS-21863 (1920)=D.r.
- Kumagai: TNS-82137, 82138 (1929)=D.i.
- Kume: TKU (1910), TKU (1912)=D.r.
- Kuriyama: MAK-72497 (1928)=D.p.; MAK-72541 (1928)=D.r.
- Kurogami: TNS-161786 (1964)=D.r.
- Kuroiwa: KYO (1907)=D.s.
- Kurosaki: KAN-67682 (1966)=D.r.; KYO-6830 (1975)=D.p.
- Kurosawa: KYO (1928)=D.p.
- Kurosawa, S.: TI (1957)=D.r.
- Kusumi: TNS-257712 (1969)=D.r.
- Kuwano: MAK-23610 (1955)=D.r.
- Maekawa: TI (1935), TI (1944)=D.r.
- Makino: MAK-35115 (1890), MAK-35121 (1893), TI (1893), KYO (1893), MAK-35118, 35119 (1894), MAK-35122 (1902), KYO (1902), KAG-35122 (1902)=A.v.; MAK-70460, 70689, 706890 (1904), KYO (1904), MAK-72461, 72462 (1905), MAK-70691-70694 (1929), KYO (1929), KAN-64674, 64675 (1929)=D.a.; MAK-70697 (1899), KYO (1899)=D.i.; MAK-72475 (1893), MAK-70695 (1897), TNS-54029 (1897), KAN-64673 (1897), MAK-72469 (1904), MAK-70696 (1920), KYO (1920), KAN-64672 (1920), MAK-72470 (1930), MAK-70698 (1940), TI (1940), KYO (1940),

- KAN-64671 (1940)=D.i.a.; MAK-70699, 70700 (1929), KYO (1929), KAN-64669, 64670 (1929), MAK-72451 (1939)=D.o.; MAK-72495 (1894), MAK-72488 (1902), MAK-72502 (1904), MAK-72490 (1908), MAK-72491, 72492 (1911), MAK-70704 (1920), KAN-64666 (1920), KYO (1920), MAK-70701, 70702, 72486 (1931), KAN-64667 (1931), KYO (1931), MAK-72493 (1932), MAK-72498 (1936), MAK-70705, 70706, 72499 (1939)=D.p.; MAK-72544 (1883), MAK-72513 (1890), MAK-72504 (1892), MAK-72538 (1893), MAK-72506, 72523, 72524 (1903), MAK-72535, 72537 (1904), MAK-72547 (1905), MAK-72554 (1906), MAK-72548 (1907), MAK-72517, 72549 (1908), MAK-72509, 72555 (1909), MAK-72518, 72519 (1915), MAK-70711 (1920), KAN-64664 (1920), MAK-70712 (1925), KYO (1925), MAK-70707, 72514, 72515 (1927), KYO (1927), MAK-72511, 72542 (1928), MAK-70708, 70709 (1929), KYO (1929), MAK-70710, 72516 (1930), KAN-64665 (1930), MAK-72527, 72546 (1931), MAK-72550 (1932), MAK-72533 (1935), MAK-72528 (1938)=D.r.; MAK-70714, 70726 (1889), MAK-70732 (1892), MAK-70720 (1897), MAK-70719 (1902), MAK-70721 (1908), MAK-70724 (1924), MAK-70718 (1931), MAK-70725, 70730=D.s.; MAK-70722, 70723 (1894), TI (1894), MAK-70781 (1905)=D.st.
- Maruyama: TNS-79763, 80021 (1948)=A.v.
- Masamune: TAI-51879 (1935)=D.s.; KAN-48100 (1952), KAN-48101 (1953), KAN-31174 (1957), KAN-40478, 48102, 50077 (1961)=D.r.
- Masuda: TNS-251095 (1965)=D.r.
- Matsuda: KYO (1891), KAN-1022, 1031, 1032 (1893), KYO (1893), KYO (1908), KYO (1923)=A.v.; KYO (1899)=D.i.; KYO (1895), KYO (1901)=D.i.a.; KYO (1891), TNS-32438 (1896)=D.p.; KYO (1889), KYO (1890), KYO (1894)=D.r.
- Matsuki: MAK-131219 (1973)=D.r.
- Matsumoto, H.: TUS-21858 (1948)=D.r.
- Matsumoto, T.: TKU (1958)=D.r.
- Matsumura, G.: SAP (1905)=A.v.
- Matsumura, J.: TNS-48314 (1880)=D.i.; TI (1878), TI (1879), TI (1880), TI (1881), TI (1882), TI (1883), TI (1887)=D.r.
- Matsuoka: TNS-105440 (1952), TUS-21861 (1952), KAN-14464 (1952), MAK-10345 (1952), KAG (1952), TI (1952), KYO (1952)=D.r.
- Matsushima: TNS-37211 (1897)=A.v.; TNS-37215=D.i.; TNS-37212=D.p.
- Matsuyama: KYO (1927), TNS-34861 (1929), TNS-52560 (1931)=D.i.
- Mazaki: TNS-251385 (1969)=D.r.
- Michikawa: NDC-5148 (1975)=D.i.a.
- Migo: KAN-51534 (1959)=D.r.
- Minemura: MAK-5188 (1958)=D.r.
- Miyabe: SAP (1893)=A.v.
- Miyabe and Tokubuchi: TI (1890)=D.r.
- Miyabe and Yokoyama: SAP (1938)=D.a.
- Miyake: TI (1899)=D.s.

- Miyamoto: MAK-51056 (1964), MAK-93916 (1969)=D.r.
- Miyazaki: TNS-65714 (1933)=D.a.; TNS-65717 (1933)=D.o.; TNS-65716 (1933)=D.r.
- Miyoshi: TI (1920)=D.ia.
- Mizushima, K.: NDC-5110 (1958)=D.ia.
- Mizushima, M.: MAK-33474 (1959)=D.ia.; TI (1950)=D.o.; MAK-33475 (1959)=D.p.;
TI (1950), MAK-22734, 23611 (1955), MAK-2905 (1957)=D.r.
- Mizushima, Ono and Kobayashi: MAK-133266 (1964), KYO (1964)=D.r.
- Mochizuki: KAN-50916 (1963)=D.r.
- Momiyama: TNS-118194 (1955)=D.r.
- Momose: TI (1931)=D.r.
- Mori, K.: KAN-58516 (1961)=D.r.
- Mori, Y.: MAK-72494 (1886)=D.p.
- Morikawa: KYO (?)=D.p.
- Morita: TI (1882)=D.p.
- Murakami: TNS-109448 (1951)=A.v.; TNS-109447 (1951)=D.ia.
- Murakawa: TI (1975)=D.r.
- Muramatsu, H.: TI (1922), TI (1926)=D.p.; TI (1922), TI (1924), TI (1928)=D.r.;
TI (1922), TI (1935)=D.s.
- Muramatsu, K.: TNS-113532 (1948)=D.r.
- Murata: KYO-7535 (1954)=D.p.; KYO-6514 (1953), KYO-7619, 7770 (1954), KYO-
8937, 9018 (1955), KYO-14754, 15015 (1961), KYO-18608 (1964)=D.r.; KYO-7533
(1954)=D.st.
- Murata and Momotani: KYO-297 (1955)=D.r.
- Murata and Nakamura: KYO (1972)=D.r.
- Murata and Tabata: KYO-151 (1967), KYO-390, 542 (1974)=D.r.
- Mutō: TNS-295707, 295708 (1973)=D.s.
- Nagai: TI (1956)=D.r.
- Nagasawa, M.: TNS-113177 (1952)=D.i.
- Nagasawa, T.: TNS-54028 (1894)=A.v.
- Nagashige: NIIG (1958)=D.r.
- Nagura: MAK-72476 (1899)=D.i.; MAK-72472 (1901)=D.ia.; MAK-70703 (1900), KYO
(1900)=D.p.; MAK-72539 (1900)=D.r.
- Naitō: KAG-9722, 20223 (1925)=D.r.; KAG (1933), KAG (1935)=D.s.
- Nakahara: TNS-24458 (1904), TI (1904)=D.a.
- Nakai, G.: KYO-3833(1948)=A.v.; KYO-2683 (1946)=D.a.; KYO-5094 (1944), KYO-
4429 (1950), KYO (1951)=D.p.; KYO (1946), KYO-4611 (1950)=D.r.; KYO-5190
(1951)=D.s.; KYO-5095 (1945)=D.st.
- Nakai, T.: TI (1920)=D.p.; TI (1920), TI (1927), TI (1928), TI (1931), TI (1940)=
D.r.
- Nakai and Maruyama: TNS-84309 (1950)=D.r.
- Nakajima, J.: TI (1913), TI (1917), TI (1927), TI (1931)=D.p.; TI (1928)=D.r.; TI

- (1927)=D.s.
Nakajima, T.: SAP (1927)=D.p.
Nakajima, Y.: TUS-21846=D.p.; TUS-21860 (1913)=D.r.
Nakano, H.: TI (1919)=A.v.
Nakano, K.: KAN-15170 (1953)=D.p.; KAN-15171, 15290 (1953)=D.r.; KAN-15172 (1953)=D.st.
Nakano, Y.: TKU (1908), TKU (1909)=D.r.; TKU(1910)=D.s.
Naruhashi: TNS-307906 (1969), MAK-115526 (1969)=D.r.
Naruhashi and Wakabayashi: KYO-151 (1968)=D.r.
Nemoto: MAK-95201 (1899)=D.a.; MAK-72479 (1905)=D.o.
Nikai: TNS-48312 (1902), TI (1902), TNS-48311 (1905)=D.p.; TNS-48317 (1892), TI (1892), TNS-48316 (1908), TNS-48318 (1920)=D.r.; TI-249 (1892)=D.s.
Niki: TNS-152793 (1962)=D.r.
Nishida: SAP (1910)=D.a.
Nishida, M.: KAN-14195(1950)=D.a.
Noda: NIIG (1938), TNS-267394 (1959)=D.r.
Noda and Kobayashi: NIIG (1961)=D.r.
Noguchi, H.: KAG-6222 (1958)=D.r.; KAG-3163 (1957)=D.s.
Noguchi, K.: TNS-35649 (1930)=D.o.
Noguchi, R.: TNS-45037 (1934)=D.r.
Nomura, K.: TNS-87145 (1949)=D.i.
Nomura, Y.: KYO (1960)=D.p.; KYO (1960)=D.r.
Numajiri: KYO (1919)=D.ia.
Ōba: TI-677068 (1967)=D.r.
Ōba and Tateishi et al.: TI-73057 (1973), TI (1975), KYO (1975)=D.r.
Oda: MAK-70728 (1904)=D.s.; TNS-22946 (1913)=D.p.
Ogata: KYO (1925)=D.p.
Ogawa: TNS-142721 (1959)=D.ia.
Ogura: TI (1914), TI (1915)=D.r.
Ōhashi: TUS-21837 (1955)=D.a.; TUS-21851 (1958), TUS-215957 (1960), TI-6722 (1960), TUS-21870 (1954), TI-4171 (1964)=D.r.
Ohwi: KYO (1937)=A.v.; KYO-4544 (1934)=D.a.; KYO (1925)=D.p.; KYO-7449, 7802, 8294 (1935)=D.r.; KYO (1925)=D.s.
Ohwi and Tagawa: KYO-8954 (1935)=D.a.; KYO-863 (1935)=D.r.; KYO (1931)=D.s.
Oka: KYO-34567 (1969), TNS-275329 (1969)=D.s.
Okabe: TUS-21842 (1953)=D.a.; TUS-21848 (1953)=D.o.
Okabe and Sugaya: TUS-21850 (1952)=D.r.
Okada: TI (1916)=A.v.
Okamoto: KYO (1959)=D.a.; TI (1936), KYO (1950), KYO (1957)=D.p.; KYO (1932), KYO (1935), TNS-105439 (1953), MAK-10346 (1953), KYO (1950), TUS-21862 (1953), KAN-14489 (1953), TI-779 (1953), KYO (1956)=D.r.; TNS-240754

- (1955)=D.s.; KYO (1957)=D.st.
- Okudaira: MAK-72500 (1893), SAP (1893)=D.p.
- Ōkura: TI (1907)=D.p.
- Okuyama: TNS-281093 (1960)=A.v.; TNS-282356 (1937), TNS-69131 (1941), TNS-71810 (1942), TNS-278921 (1952), TNS-277164 (1956), TNS-289022 (1957), TNS-278888 (1958)=D.r.
- Okuyama et al.: TNS-262185 (1957), TNS-275173 (1959)=D.r.
- Ōmachi: SAP (1890)=D.p.
- Ono: TI (1948)=D.r.
- Ōno: KAG (1955)=D.s.
- Ōnuma: TNS-62114 (1906)=D.a.; TI (1914)=D.p.
- Ookobara and Saitō: TNS-106644 (1953), MAK-10344 (1953), KYO-932 (1953), KAN-16667 (1953), TUS-21839 (1953)=D.a.
- Ōta: TNS-255676 (1969)=D.i.
- Ōwatari: KYO (1894)=D.r.
- Ōya: KAN-1028 (1921)=D.p.
- Ozaki: NSM-7503 (1954)=D.r.
- Ryūzaki: TNS-162297 (1965)=D.r.
- Saida: TNS-6313 (1906)=D.r.
- Saitō, N.: TKU (1911)=A.v.
- Saitō, Y.: TNS-133247 (1956)=D.o.; TNS-132942 (1956)=D.i.
- Saitō and Yoshima: TI (1973)=D.r.
- Sakai: KAN-71758 (1969)=D.r.
- Sako: KAG-7598 (1968)=D.r.; KAG-4087 (1961), KAG-5300 (1965), KAG-7495 (1969), TI (1969)=D.s.
- Sako and Kawanabe: KAG-1820, 2029 (1958), MAK-34830 (1958)=D.s.
- Sakurai: TNS-6293 (1890)=A.v.; TNS-6312 (1885), TNS-6300 (1888), TNS-6303 (1893), TNS-6311 (1900), TNS-6307 (1903)=D.r.
- Samejima and Misumi: SAP (1952)=D.a.
- Sasaoka: MAK-72532 (1909)=D.r.
- Satake: TI (1926)=D.r.
- Satake and Itō: TNS-304255 (1951)=D.r.
- Satō, K.: TI (1954), TI (1960)=D.r.
- Satō, M.: KAN-7465 (1932)=D.p.; TI (1932)=D.r.
- Satō, T.: TNS-37752 (1924)=D.i.; TNS-40764 (1933)=D.p.
- Satō, W.: KAN-7464 (1937), KAN-10535 (1944)=D.r.
- Satomi: TNS-79563 (1947)=D.a.; TNS-73273 (1946), KAN-10368 (1946)=D.p.; KAN-10767 (1951), KAN-12318 (1952), KAG (1959)=D.r.
- Sekiguchi: NDC-5263 (1963)=D.r.
- Sekiya: NDC-5002 (1950)=A.v.; NDC-5069 (1950)=D.a.; NDC-5191 (1950)=D.o.; NDC-5239 (1951)=D.r.

- Sengoku: KAN-66081 (1959)=D.r.
Seto: KAN-13549 (1952)=D.p.; KYO-2112 (1952)=D.s.
Shibata: NDC-5313-5317 (1975), NDC-5322 (1976)=D.r.
Shimamura: KAN-1078 (1902)=D.p.
Shimano: TNS-142736 (1955)=D.a.; TNS-142737 (1955)=D.o.; TNS-142739 (1955)=D.r.
Shimozawa: KAN-9589 (1951)=D.p.; KAN-9573, 9588 (1951), KAN-25338 (1954)=D.r.
Shinagawa: KAN-29238 (1960)=D.r.
Shinpo: NIIG (1931), NIIG (1936)=D.r.
Shiobara: TNS-40294 (1931)=A.v.
Shirai: TNS-65715 (1934)=D.r.
Sōma: TKU (1954)=D.a.; TKU (1954)=D.r.
Sono: TNS-16635 (1908)=D.r.
Sudō: TI (1950)=D.r.
Suganuma: KYO-3066 (1960)=D.a.; KYO-3067 (1960)=D.o.; KYO-3065 (1960)=D.r.
Sugaya: TUS-21835 (1934)=A.v.; TUS-21844 (1934)=D.ia.; TUS-21849 (1938)=D.s.
Sugaya, Kimura *et al.*: TUS-21869 (1955)=D.r.
Sugaya, Sōma *et al.*: TUS-21876 (1965)=D.r.
Sugimoto: TNS-247697 (1961)=D.p.; TNS-133647, 133660 (1956)=D.r.
Suzuki, D.: MAK-72464 (1907)=D.a.
Suzuki, H.: TKU (1949)=D.a.
Suzuki, M.: TNS-222875 (1968)=D.ia.; TNS-222876 (1968)=D.p.; TNS-156049 (1963)=
D.r.
Suzuki, T.: TNS-94400 (1950), TI (1956)=D.r.
Suzuki, Y.: MAK-35117 (1901), MAK-35116 (1902)=A.v.; MAK-70717 (1903)=D.s.
Tagawa, M.: KYO-2504 (1938)=D.i.; KYO-2495 (1938), KYO-8659 (1962), MAK-63150
(1962)=D.p.; KYO-206 (1931), KYO-1773 (1933), KYO (1950)=D.r.; KYO-7778
(1957)=D.s.
Tagawa, T.: KYO (1951)=D.ia.
Tagawa and Iwatsuki: KYO-285 (1955)=D.r.; KYO-2886, 2920 (1958)=D.s.
Takagi: KYO (1929)=D.p.
Takahashi, F.: TNS-163558 (1963)=D.r.
Takahashi, H.: KYO-946 (1971)=D.r.
Takani: KAN-38055 (1963)=D.r.
Takano, A.: KAN-25588 (1957)=D.r.
Takano, T.: MAK-35114 (1905), MAK-35120 (1910)=A.v.
Takatō: TNS-272710 (1963)=D.s.
Takayama: TNS-152566 (1961)=D.p.; TNS-152516 (1961)=D.r.
Takeda: TNS-231195 (1924)=D.a.
Takeuchi, K.: KYO (1934)=A.v.
Takeuchi, M.: TI (1946), TI (1954)=D.r.; TI (1954)=D.s.
Takeuchi, Y.: TUS-21829 (1960)=D.r.

- Tamaki: KYO (1910)=D.a.
 Tamaoki: MAK-72543 (1904)=D.r.
 Tamura, M.: KYO (1952)=D.o.
 Tamura, Y.: TI (1938)=D.ia.; TI (1938)=D.p.; TI (1938)=D.r.; TI (1938)=D.s.
 Tan: KYO (1925)=A.v.
 Tanaka, S.: KYO (1933), KAN-43347 (1961)=D.p.; MAK-99785 (1960), KAN-43348 (1961)=D.r.
 Tanaka, Y.: KYO (1894)=D.p.
 Taniguchi: KAG (1917)=D.s.
 Tashiro, Y.: TI (1889)=D.s.
 Tashiro, Z.: TNS-34860 (1929), TI (1929)=A.v.; KYO (1932)=D.a.; KYO (1924), KYO (1928), TNS-57079 (1937)=D.p.; KYO (1920), KYO (1921)=D.s.
 Tatewaki: TNS-153576 (1955)=D.r.
 Tatsuguchi: NDC-5352 (1964)=D.s.
 Teramoto: TI (1944)=D.a.
 Terashita: KAN-1025 (1950)=D.r.
 Tōda: TI (1974), KYO (1974)=D.s.
 Togashi, M.: MAK-72467 (1939)=D.a.; TNS-84371 (1949), TI (1949), TI (1956), TI (1968)=D.p.; TI (1965)=D.r.
 Togashi, S.: TI (1962)=D.s.
 Tomoyori: KYO (1923)=D.s.
 Torii: KAN-13947 (1949)=D.i.
 Tōyama: NDC-5252 (1956)=D.r.
 Toyokuni: SAP (1951), TNS-128474 (1953)=D.a.; SAP (1951)=D.o.; KAN-26134 (1951)=D.r.
 Tsugaru: TNS-341140 (1973), KYO-166 (1973)=D.s.
 Tsukamoto: KYO (1940)=D.r.
 Tsutsumi: TNS-62116 (1901)=D.ia.
 Tsuyama: TI (1934)=A.v.; TI (1934), TNS-100339 (1953)=D.r.
 Uchiyama: TI (1900), TI (1905)=D.r.
 Ueda: KAN-1429 (1902)=D.p.
 Uehara: KAG-11614 (1921)=D.s.; KAG (1937)=D.r.
 Ueno: Ueno-483 (1964), Ueno-1227, 1237, 1255, 1256, 1275, 1280, 1319, 1320, 1443 (1966), Ueno-1638, 1652 (1967), Ueno-21752 (1973)=D.r.; Ueno-21754 (1973)=D.s.
 Utsumi: TNS-302480 (1954)=D.r.
 Wada: TKU (1959)=D.r.
 Wakana: TNS-133503 (1956), KAN-20679 (1956)=D.ia.
 Walker, Sonohara et al.: TI-6233 (1951)=D.s.
 Watanabe, A.: MAK-126988 (1923), NSM-7046 (1951)=D.r.
 Watanabe, C.: KYO (1934)=D.r.
 Watanabe, K.: TNS-62108 (1891)=A.v.; TNS-62115 (1895)=D.ia.; TNS-62110 (1896)

- =D.p.; TNS-54030 (1895), TNS-62118 (1896)=D.r.
Watanabe, M.: TNS-309188 (1964)=D.r.
Watanabe, S.: KYO-2008 (1954), KAN-28621 (1960)=D.r.
Watanabe and Ōki: TNS-269078, 269212 (1959)=D.a.; TNS-269078b (1959)=D.r.
Watari: TKU (1929)=D.ia.; TKU (1929)=D.p.; TKU (1929)=D.r.; TKU (1929)=D.s.
Yabe: TI (1898), TKU (1929)=D.r.
Yahei: MAK-72534 (1903)=D.r.
Yamada and Akiyama: TI (1930)=D.r.
Yamaguchi: KYO (1953)=D.s.
Yamamori: KAN-56183 (1964)=D.r.
Yamamoto, A.: TI (1930)=D.r.
Yamamoto, H.: KYO (1903)=D.p.; TI (1934)=A.v.; TNS-199321 (1942)=D.s.
Yamamoto, M.: KAG (1934)=D.p.
Yamamoto, Y.: TI (1922)=D.r.
Yamanaka: MAK-72463 (1906)=D.a.; TUS-21847 (1960)=D.p.
Yamanoi: TNS-319469 (1972)=D.r.
Yamashita: KYO (1924)=D.p.; KYO (1928)=D.s.
Yamazaki, R.: MAK-72510 (1903)=D.r.
Yamazaki, T.: TI (1954), TI (1957)=D.r.; TI (1950), TI (1951), TI (1963), TI (1971)
=D.s.
Yamazaki et al.: TI (1968), KYO (1968)=D.s.
Yano, K.: TI (1929)=D.s.
Yano, S.: MAK-72553 (1903)=D.r.
Yano, T.: MAK-47511 (1964)=D.s.
Yokoyama: TNS-142243 (1959)=D.p.
Yoshida: SAP (1953)=D.a.; SAP-42285 (1953)=D.o.
Yoshihara: Ike-37661 (1910)=A.v.; Ike-37733 (1932), NSM-25699 (1946), NSM-25706
(1947), NSM-25128 (1950), NSM-3407 (1951), NSM-5185 (1953), Ike-52669 (1953),
NSM-22358, 22518, 22734 (1961), NSM-23705 (1962)=D.r.
Yoshikawa: KAN-34489, 34490 (1930), KAN-34488 (1931)=D.r.
Yoshioka and Sugawara: TUS-21873 (1964)=D.r.
Yoshizawa: KAN-65197 (1966)=D.r.