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EDITED BY

**TOMITARÔ MAKINO.**

LECTURER OF BOTANY IN THE FACULTY OF SCIENCE,  
IMPERIAL UNIVERSITY OF TOKYO.

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## A Contribution to the Knowledge of the Flora of Japan.

*(Continued from p. 36.)*

By

**Tomitarô Makino.**

***Physaliastrum* Kimurai MAKINO, nov. sp.**

Perennial, 4½-6 decim. high. Stem erect, loosely ramose, terete, herbaceous, deep-green, thinly puberulous; branches slender, divaricate. Leaves binate being one larger and other smaller, long-petiolate, ovate, narrowly ovate, or ovato-lanceolate, long-attenuato-acuminate at the apex, sub-obliquely acute and very narrowly decurrent to the petiole at the base, entire, sub-repand, few-repand-dentate, or few-dentate, thinly ciliated on margin, thinly membranaceous when dry, glabrous but more or less echinulato-puberulous on midrib and veins, 3-9 cm. long and 1-3½ cm. wide in my specimens which are destitute of the lower leaves; midrib slender, prominent beneath; veins delicate, loose, erect-patent, about 4-7 on each side. Flower.... Berry axillary, solitary, cernuo-pendulous, with a pedicel which is curved and slightly longer than the fruit, sphaerical, greenish, smooth, about 1-1½ cm. across, fleshy, polyspermous, closely and wholly covered with the urceolate accrescent calyx, which is not thick in texture, very thinly echinulate externally, 5-dentate at the mouth, slightly longer than the berry. Seeds small, pale, very compressed, orbicular to oval, shallowly foveolate, about 1½ mm. in width.

Nom. Jap. *Takao-hôdzuki* (nov.).

*Hab.* Prov. MUSASHI: Mt. Takao, rare (KÔICHI KIMURA! Oct. 24, 1926.). This species is very closely allied to *P. Savatieri* MAKINO, but the fruit different.

***Solanum takaoyamense* MAKINO, nov. sp.**

Stem scandent, sub-ligneous sub-striate and pale-grey in the basal portion, loosely ramose, slender, green, thinly puberulous with crisped hairs. Leaves alternate, long-petiolate, ovato-lanceolate, often triparted with deep sinuses, which are non-close or subclose and rounded at the bottom, rarely sub-pinnatifid, caudato-acuminate at the apex, usually subcordate or rounded and slightly decurrent to the petiole at the base, about 6-19 cm. long, 1½-6½ cm. broad, membranaceous, very thinly puberulous above, glabrous and with the very scantily puberulous main nerves beneath, ciliated on margin; lateral lobes spreading, acuminato-ovate, entire; midlobe much larger, broadly lanceolate, coarsely and irregularly dentate; veins loose, erect-patent and arcuate above, but the lower ones spreading; petiole slender, puberulous in front, 1½-3½ cm. long. Cyme lateral, few to several flowered; flowers pedicellate, lilac-coloured; corolla rotate, thin in texture. Berry oval, not spherical.

Nom. Jap. *Takao-horoshi* (nov.).

*Hab.* Prov. MUSASHI: Mt. Takao, shady place (T. MAKINO! 1926.).

This comes near to *S. nipponense* MAKINO and *S. glaucescens* NAKAI, but distinguished from the latter two species by the dentate leaves and oval berries.

***Trifolium Lupinaster* L. var. *leucanthum* MAKINO, nov. var.**

Flowers white.

Nom. Jap. *Shirobana-shadzikusô* (nov.).

*Hab.* Prov. SHINANO.

***Liriope graminifolia* BAK. var. *albiflora* MAKINO, nov. var.**

Flowers white.

Nom. Jap. *Shirobana-yaburan* (nov.).

*Hab.* Prov. SAGAMI: Near Dzushi (T. MAKINO!).

***Ophiopogon planiscapus* NAKAI var. *leucanthus* (MAKINO) MAKINO, nov. comb.**

*Ophiopogon Wallichianus* var. *leucanthus* MAKINO in Journ. Jap. Bot. II 3, p. 12.

Nom. Jap. *Shirobana-ôbajanohige*.

*Hab.* JAPAN.

***Artemisia japonica* THUNB. var. *laciniifolia* MAKINO, nov. var.**

Leaves obovate in outline, deeply lacinate into linear clefted (entire in the superior) lobes, narrowly cuneate below.

Nom. Jap. *Kireha-no-otokoyomogi* (nov.).

*Hab.* Prov. SAGAMI: Near Hongô-mura in Kamakura-gôri (T. MAKINO!).

The leaves of this variety pass to those of the type in its dissections.

***Tricyrtis Masamunei* MAKINO, nov. sp.**

Perennial, stoloniferous, 2-6-decim. high; rhizome ascending, short, with close nodes, verticillately rooting at the nodes; roots stout-filiform; stolons few, hypogaeous, slender, about 4-5½ cm. long. Stem erect or declined, simple, slender, terete, glabrous, slightly flexuous, foliiferous throughout except the basal portion, where the leaves are already decayed in flower. Leaves alternate, distichous, lanceolate and often sub-falcate, attenuatedly acuminate at the apex, amplexicaul at the base, entire, thin, quite glabrous, 6-14 cm. long, 1½-3 cm. broad; veins about 3 on each side. Flowers axillary, 1-3, pedicellate, 3 cm. across. Perianth erect-patent, acute at the apex, about 2½ cm. long, pale and purple-maculate internally; outer 3 (sepals) narrowly oblanceolate, rounded-saccate at the base; inner 3 (petals) linear-lanceolate, slightly dilated above the base. Stamens 6, somewhat shorter than the perianth; filament filiform, curved outwards in the apical portion, glabrous, purple-spotted; anther linear, 5 mm. long, versatile. Ovary narrow-oblong, acute at the top, 3-edged, glabrous, about 14 mm. long; style terminal, erect and 7 mm. long below, 3-branched above, glabrous, purple-spotted; branches long, about 15 mm. in length, narrow, patent and recurved, 2-fid and each arm stigmatiferous above on the inner side. Pedicels straight, provided with few subulate small bracts at the base, glabrous, 17-27 cm. long. Capsule narrow, straight, erect, triquetrous, acute at the apex, glabrous, 3-locular, with coriaceous carpels, many-seeded, about 3 cm. long.

Nom. Jap. *Satsuma-hiyodori* (nov.).

*Hab.* Prov. SATSUMA: Tōgō (GENKEI MASAMUNE! October 10, 1924.).

This is very closely allied to *T. hirta* HOOK. having the quite glabrous habit and subterranean stolons.

***Michelia compressa* MAXIM. var. *angustifolia* MAKINO, nov. var.**

Leaves narrowly oblanceolate, often somewhat falcate, attenuatedly acuminate with an obtuse tip at the apex, cuneate at the base, 5-11 cm. long, 1¼-3 cm. wide; midrib slender; veins erect-patent; petiole 8-13 mm. long.

Nom. Jap. *Hosoba-ogatama* (nov.).

*Hab.* Prov. ISE: Yamada, in garden (T. MAKINO! 1924.).

**var. *latifolia* MAKINO, nov. var.**

Leaves broader, obovato-oblong, abruptly short-acuminate with an obtuse or acutish tip at the apex, acute at the base, 10-14 cm. long, 4-6½ cm. wide; midrib rather stout; veins spreadingly erect-patent; petiole strong, 14-20 cm. long.

Nom. Jap. *Hiroha-ogatama* (nov.).

*Hab.* Prov. ISE: Udzi, wild (T. MAKINO! 1924.).

***Cimicifuga foetida* L. var. *intermedia* REGEL forma *purpurea* MAKINO, nov. f.**

The outer sepals purple.

Nom. Jap. *Murasaki-sarashinashōma* (nov.).

*Hab.* Prov. MUSASHI: Near Asakawa, rare (T. MAKINO! 1926.).

***Viola yezoensis* MAXIM. var. *Takahashii* MAKINO, nov. var.**

Leaves long-petiolate, ovato-deltoid, acuminate with an obtuse tip at the apex, cordate at the base, irregularly sub-inciso-serrate with ovato-deltoid obtuse- or acutish-tipped sub-incumbent teeth, pubescent, 2-4 cm. long, 13-20 mm. in flower. Otherwise as in the type.

Nom. Jap. *Hotchi-sumire* (nov.).

*Hab.* Prov. SHINANO: Hotchi-bara in Nishinagakura-mura, Kitasaku-gōri (TEIKICHI TAKAHASHI! May 6, 1923.).

***Prunus serrulata* LINDL. subsp. *pubescens* MAKINO var. *pubifolia* MAKINO, nov. var.**

Branchlet slender, terete, more or less flexuous, glabrous, thinly dispersed with minute pale lenticels, fuliginous when dry. Leaves obovato-oval, abruptly caudato-acuminate at the apex, rounded or subcordate at the base, duplicately serrated with minutely mucronate-tipped deltoid teeth, chartaceous, green and glabrous above, light green and thinly pubescent (hairs more denser on the midrib and veins) beneath, about 7-11½ cm. long, 4½-6½ cm. broad; midrib prominent beneath; veins about 7 on each side, loose, erect-patent; veinlets fine; petiole narrow, thin-pubescent above, canaliculated in front, 2-1-nectariferous under the blade, 12-22 mm. long; stipules laciniate (in shoot), green, shorter than the petiole. Flower.....

Nom. Jap. *Kibi-zakura* (nov.).

*Hab.* Prov. BITCHŪ: Gagyū-zan in Takahashi (ZENSUKE YOSHINO! June 1925.).

Judging from the form of leaves this may be a variety of the *subsp. pubescens* MAKINO.

***Melastoma candidum* D. DON, var. *Nobotan* (BLUME) MAKINO, nov. comb.**

*Melastoma Nobotan* BLUME, Mus. Bot. Lugd.-Bot. I. p. 54 (1849).

*Melastoma macrocarpum* forma *brevifolia* ENGLER in ENGL. Bot. Jahrb. VI. (1885), p. 62.

*Melastoma macrocarpum* FRANCH. ET SAV. Enum. Pl. Jap. I. p. 166, nota, non D. DON.

Nom. Jap. *No-botan*.

*Hab.* LYŪKYŪ.

(To be continued.)

#### ERRATA.

Page 33, for *japonicolum* read: *japonicola*

— 35, for -oblanceolate read: -oblanceolate