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# Contributions to the Knowledge of the Systematics of Morus in Japan V

## MORUS IN CULTIVATION (IV)

By

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With 5 text-figures

### Key to the varieties and forms of *Morus* found in cultivation\*

- |   |                          |
|---|--------------------------|
| 1. Upper surface of the leaf is rugose and has a strong lustre. Cystolith of mesophyll is obtuse and papillate, and deeply placed. .... | 2                        |
| ..... <i>M. latifolia</i> POIRET  |                          |
| Upper surface of the leaf is even and lustrous or not lustrous. Cystolith of mesophyll is obtuse or rarely acute at the apex. ....      | 9                        |
| ..... <i>M. alba</i> LINN.  |                          |
| 2. Base of the leaf usually cordate. ....   | 3                        |
| Base of the leaf auriculate or truncate or rounded. ....  | 4                        |
| 3. Leaf usually not lobate or rarely 2-4 lobate. ....   | 5                        |
| Leaf variously lobate, apex acuminate or abruptly acuminate. ....   |                          |
| .....var. <i>Aburagi</i> HOTTA  |                          |
| 4. Base of the leaf unequally auriculate, teeth large and rounded. ....   | 6                        |
| .....var. <i>Daikoku</i> HOTTA  |                          |
| Base of the leaf truncate or rounded, margin rather arguto-dentate. ....  | 7                        |
| .....var. <i>Ryugan</i> HOTTA   |                          |
| 5. Leaf is usually ovate or ovate-elliptical. ....  | 8                        |
| Leaf is subpalmate, apex of the leaf usually long acuminate. ....   |                          |
| .....var. <i>subpalmata</i> HOTTA   |                          |
| 6. Margin is irregularly dentato-serrate or crenato-dentate. ....   | 7                        |
| Margin is crenato-denticulate or small dentato-serrate or rather crenato-denticulate. ....  | 8                        |
| 7. Apex of the leaf acute, obtuse or rounded. ....  | f. <i>normalis</i> HOTTA |
| Apex of the leaf subulate. ....   | f. <i>subulata</i> HOTTA |

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\* The varieties and forms reported in previous papers are excluded in this paper.  
Trans. Sapporo Nat. Hist. Soc., Vol. XV, Pt. 1, 1937.

8. Margin is crenato-denticulate, base is cordate. . . . .f. *Uneme* HOTTA  
 Margin is dentato-serrulate or crenato-denticulate, base is truncate or shallowly cordate. . . . .f. *Suguwa* HOTTA
9. Petiole of the leaf greenish-blue. . . . . 10  
 Petiole of the leaf dark-purple. . . . .var. *Takaseana* HOTTA
10. Teeth of the leaf argute or arguto-serrulate. . . . . 11  
 Teeth of the leaf usually obtuse or rarely dentato-serrate. . . . .  
 . . . . . var. *typica* HOTTA 12
11. Teeth of the leaf is argute, upper surface of the leaf is asperate. . . . .  
 . . . . . var. *argutidens* KOIDZ.  
 Teeth of the leaf is arguto-serrulate, upper surface of the leaf rather smooth, base truncate. . . . .var. *Okubo* HOTTA
12. Apex of the lateral lobes, when present is usually acute or obtuse. . . . .  
 . . . . . f. *normalis* HOTTA  
 Apex of the lateral lobes is rounded. . . . .f. *Daruma* HOTTA

### Macromorus KOIDZUMI

Imp. Sericult. Exp. Stat., II, 1, p. 4 (1923).

(1). *Morus latifolia* POIRET

*Morus latifolia* POIRET in LAMARCK, Encycl. Bot., IV, p. 381 (1796).

Nom. Jap. *Roso*: *Ibikuwa* (*Iwase-guwa*), *Ishida-guwa*, *Izuwase*, *Juunsen*, *Kagamime*, *Kairyookameroso*, *Kairyokita* (*Kumakuwa*), *Kairyokirebaroso*, *Kairyokumonryu*, *Kairyomikameroso*, *Kairyooharoso*, *Kairyoyomozaki* (*Kyuichi*, *Kyuichiwase*, *Obayomozaki*), *Kakukasuga*, *Kakumesan*, *Kanraoba*, *Kanroso* (*Asahinishiki*, *Azamiroso*, *Iwafuku*, *Kanra*, *Mikikakushi*, *Wakafuku*, *Yamatonishiki*), *Kantonkeiso*, *Kashiwawase*, *Kawaura*, *Keiso*, *Kikawakoso*, *Kiko-guwa*, *Kinmeroso*, *Kinnotama*, *Kinroso*, *Kinryu* (*Itaria*, *Itaria No. 2*, *Kyohai*, *Ugonishiki*), *Kohairoso*, *Kokoku*, *Kokuka*, *Kokuko*, *Kokuniwase*, *Kokura*, *Kokuso A*, *B*, *C*, *D*, *E*, *Kokuso No. 7*, *Kokuso No. 17*, *Kokuso No. 70*, *Koryu*, *Koso Kotakuginryu*, *Kumonryu* (*Chosen*, *Koryu*, *Kumo*, *Sekitori*, *Shirakumo*, *Shiromeryu*, *Toryu*), *Karanishi*, *Kurijumonji*, *Kurimoto*, *Kurimotowase*, *Kurome*, *Kyuan*, *Masushin-guwa*, *Matsujirowase*, *Mayezawa*, *Meguwa* (*Fuji-guwa*, *Natsume-guwa*), *Midoriwase*, *Migakida*, *Mikadoroso*, *Mikawakanraso*, *Mikuniroso*, *Mikuniso* (*Moriwaki*, *Seihaku No. 2*, *Sekaiichi*, *Tenguroso*), *Misatonishiki*, *Misonoroso*, *Miyanohomare*, *Monsaku-guwa*, *Murasakiwase*.

\* The Japanese names written in italic are of the cultivated races.

\*\* The Japanese names written in parenthesis are synonyms or vernacular names of the cultivated races.

var. **Aburagi** HOTTA, var. nov.

Folium varie lobatum rare non lobatum, supra valde nitidum, apice acuminato vel subito acuminato leviter incurvo, petiolo circ. 2.5–3 cm. longo.

Nom. Jap. *Aburagi*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is variously lobate or rarely not lobate, upper surface of the leaf has a deep green colour, apex is abruptly acuminate or acuminate, petiole is 2.5–3 cm. in length.

var. **Daikoku** HOTTA, var. nov.

Folium subcordatum, dextre sinistrique dissimile, serris magnis obtusis, basi inaequaliter auriculata.

Nom. Jap. *Daikoku*.

Hab. Japonica: in hortis culta.

Remarks. Leaf is subcordate and unequal, teeth are large and rounded, base is unequally auriculate.

Place of the origin of *Daikoku* is Niso village, Kodama district, Prov. Musashi.

*Betsuko* and *Kensakiroso* are rather closely related to this variety.

var. **Ryugan** HOTTA, var. nov.

Folium ovatum vel ovato-ellipticum, venis supra insigniter pubescentibus, margine fere argutidentata, basi truncata vel fere rotundata rarius aperte cordata.

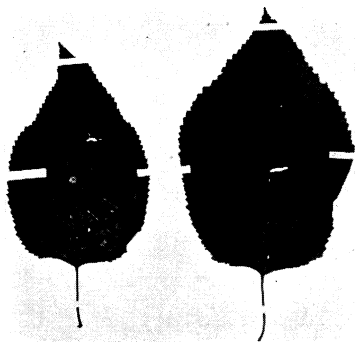


Fig. 2. *M. latifolia* POIRET,  
var. *Ryugan* HOTTA

Nom. Jap. *Ryugan*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is ovate or ovato-elliptical, margin is argutidentato-serrate, on the veins of both upper and lower surfaces conspicuously pubescent, base is truncate or rounded or rarely shallowly cordate.

var. **subpalmata** HOTTA, var. nov.

Folium fere cordatum vel palmatum, apice longiacuminato fere incurvo, petiolus circ. 3 cm. longus.

Nom. Jap. *Azumaya*, *Mitsugi-roso*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is subpalmate, apex of the leaf is long acuminate. Petiole



Fig. 1. *M. latifolia* POIRET,  
var. *Daikoku* HOTTA

3 cm. in length.

*Sakaiwase* is closely related to this variety.

form. **Uneme** HOTTA, f. nov.

Folium ovatum vel ovato-ellipticum, supra valde nitidum, insigniter viride, margine crenato-denticulata.

Nom. Jap. *Uneme-guwa*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is ovate or ovato-elliptical, upper surface of the leaf has a strong luster and deep green colour, margin crenato-denticulate, and the base is cordate.

*Shinteiroso* is closely related to this variety.

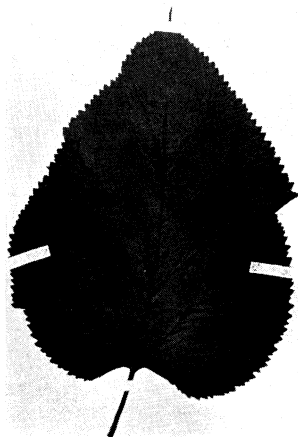


Fig. 3. *M. latifolia* POIRET,  
form. *subulata* HOTTA

form. **subulata** HOTTA, f. nov.

Folium ovatum vel elliptico-ovatum, apice subulato, margine dentato-serrata.

Nom. Jap. *Mino-guwa*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is ovate or elliptical-ovate, apex of the leaf is subulate, margin dentato-serrate.

form. **Sugawa** HOTTA, f. nov.

Folium oblongiovatum, valde pendulum, margine dentato-serrulata vel crenato-denticulata, basi truncata vel aperte cordata, petiolo 2.5–3 cm. longo.

Nom. Jap. *Suguwa*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is oblongo-ovate, pendulate, margin is dentato-serrulate or rather crenato-denticulate, base is truncate or shallowly cordate, petiole 2.5–3 cm. in length.

(2) **Morus alba** LINN.

*Morus alba* LINN., Sp. Pl. ed. 1, p. 986 (1753).

Nom. Jap. *Karayama guwa*: *Aoichi*, *Fukushimaoha*, *Ibaragioha*, *Maguwa*, *Marubajumonji* (*Ishiokajumonji*, *Ishiokasaburo*), *Marubanezumigayeshi*, *Mayesima-guwa*, *Midare-guwa*, *Mikawaawomerokuro*, *Nagashinju*, *Nagase*, *Naganokairyojumonji*, *Nakamagi* (*Tanbagi*), *Nakata*, *Nakayama*, *Nashiji*, *Nemurasaki*, *Obanezumigayeshi*, *Obataro*, *Obawase* (*Akameaoichi*, *Aoichi*, *Fukushimaoha*, *Ibaragioha*, *Nagashinju*, *Obaichibei*, *Obarokuro*, *Obataro*, *Oha*, *Shimamura*, *Unehitsukan-guwa*), *Ochii* (*Jirohachi*, *Kakikomi*), *Oha*, *Ohatajumonji*, *Okutejumonji*, *Onibanto*, *Oshyuoha*, *Riso* (*Fuyeiso*), *Risojumonji*, *Risowase*, *Risowasejumonji*, *Roshiya-guwa*, *Senmatsu* (*Ayanishiki*, *Kojima-guwa*), *Shidarekunitomi*, *Shima-*

*mura* (*Shimamurawase*), *Shimamurawase* (*Aoichi*, *Aokiichibei*, *Jyoshuichibei*), *Shimoshirazu*, *Shironezumigayeshi*, *Shiroshidare*, *Shirowase*, *Shukakuichi* (*Fueiso*, *Futagawawase*, *Kinenwase*, *Osumi-guwa*, *Seihaku No. 2*, *Taishyo-guwa*, *Taishoroso*, *Umedawase*, *Yatsubusa*), *Shoji*, *Sononishiki*, *Sujikuwa*, *Taguchi-guwa*, *Taishyowase*, *Tajimashidare*, *Takedajumonji* (*Ichikojumonji*, *Toyookajumonji*, *Tsukasajumonji*, *Wasukeoha*), *Takaradajumonji*, *Takara-guwa*, *Tamajumonji*, *Tamanishiki*, *Tanba*, *Tanbagi* (*Akitsumaru*, *Nakamagi*, *Tanba*, *Tanbamaru*), *Tanbahamagoro*, *Tanbaichibei*, *Tanbataro*, *Tanbawase*, *Tanbawasemishyo*, *Tarekuwa*, *Toyotajumonji*, *Wada-guwa*, *Wadajumonji*, *Wasejumonji*, *Unehitsukan-guwa*, *Yaguwa*, *Yamano*, *Yamato* (*Aoyagiyamato*, *Mukashiyamato*, *Oyamato*), *Yamanakatakasuke* (*Oshutakasuke*), *Yatsubusa* (*Kairyohosoe*, *Obanezumigayeshi*, *Shukakuichi*, *Yamanishiki*), *Yahei*, *Yotsume*.

var. ***Takaseana*** HOTTA, var. nov.

Frutex fere multicaulis, ramulis breviinternodis, foliis congregatis. Petiolus atropurpurescens, margine folii fere arguta.

Nom. Jap. *Takase-guwa* (nov.).

Hab. Japonia: in hortis culta.

Remarks. Shoots with short internodes and dense leaves are profusely branched. Petiole is dark-purple. Teeth of the leaf is more or less argute.

This variety was originated in the Sericultural Experiment Station in Nagahama, Prov. Omi.

var. ***argutidens*** KOIDZUMI, Bot. Mag. (Tokyo), XXX, p. 40 (1917); Bull. Imp. Sericult. Exp. Stat., II, 1, p. 30 (1923)—MAKINO et NEMOTO, Fl. Jap., p. 219 (1931).

Folium supra valde asperatum varie lobatum. Apex laterisegmenti rotundatus vel acutus vel subito acuminatus; margine plerumque argutidentata, apice incurvo.

Nom. Jap. *Zarabakarayama-guwa* (nov.); *Aichiichibei-guwa*, *Akagiichibei-guwa* (*Akaichi*, *Akaichibei*, *Akameichibei*, *Dateichibei*, *Ichibei*, *Jyoshuichibei* et *Kireichi*), *Dateichibei*, *Fukushimaichibei-guwa* (*Banto*, *Kuroshodo*, *Sakamoto*, *Sekaiichi*, *Tanikaze* et *Tsuruta*), *Ichibei* (*Akaichi*, *Dateichibei*, *Hirakiriichibei*, *Kurokiichibei*, *Oshyuichibei*), *Marubaichibei*.

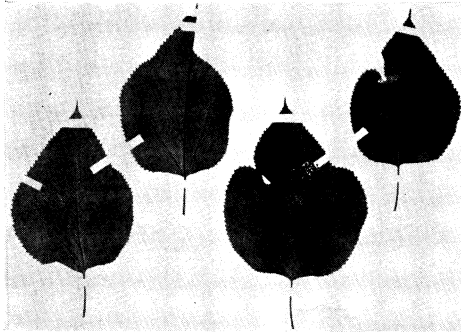
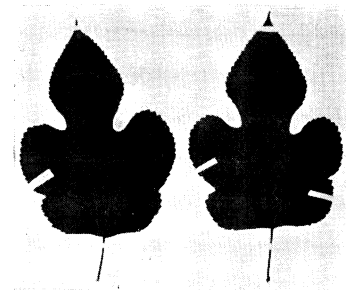
Hab. Japonia: in hortis culta.

Remarks. *Ichibei* was originated in 1880 (the era of Genroku) by I. SATO of Fushiguro village, Date district, Prov. Iwashiro.

*Oshyu* is closely related to this variety.

var. ***Okubo*** HOTTA, var. nov.

Folium dextre sinistrique dissimile, margine argutiserrulata, apice leviter incurvo, basi truncata.

Fig. 4. *M. alba* LINN., var. *Okubo* HOTTAFig. 5. *M. alba* LINN.,  
form. *Daruma* HOTTA

Nom. Jap. *Okubo*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is unequal in shape, margin arguto-serrulate, base is truncate.

form. *Daruma* HOTTA, f. nov.

Ramulus fere erectus, folio plerumque 2-4 lobato, supra laeve, apice lateri-segmenti rotundo, basi truncata vel aperte cordata.

Nom. Jap. *Daruma*.

Hab. Japonia: in hortis culta.

Remarks. Branch is rather erect. Leaf is usually 2-4 lobate, apex of the lateral lobes rounded, upper surface of the leaf is smooth, base is truncate or shallowly cordate.

*Kairyodaruma* is closely related to this form, but the young shoot of the former is rather bluish-white.

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## 摘 要

### 邦産桑屬ノ分類學的知見(五)

*Morus latifolia* POIRET, var. *Aburagi*, var. *Daikoku*, var. *Ryugan*, var. *subpalmata* ノ四新變種竝ニ f. *Uneme*, f. *subulata*, f. *suguwa* ノ三新品種ヲ創定シ又 *Morus alba* LINN. = var. *Takaseana*, var. *Okubo* ノ二新變種及 f. *Daruma* ノ一新品種ヲ創定シタ。又 var. *argutidens* = 新シク二三ノ栽培種ヲ加ヘタ。即栽培種ニ六新變種、四新品種竝ニ新シク栽培種ヲ加ヘター變種ヲ合シ七變種四品種ヲ記載シタ。

尙 *Morus Latifolia* POIRET = 包含スベキ栽培種六十五種、*Morus alba* LINN. = 包含スベキ栽培種七十一種ヲ確認シタ。