Report

Plant Type Materials from Kanagawa Prefecture (Japan) in the Herbarium of the Komarov Botanical Institute (LE; Russia): Angiosperms (Dicots)

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Abstract. In this study, we examined type specimens and related materials collected from Kanagawa Prefecture, Japan, deposited in the herbarium of the Komarov Botanical Institute of the Russian Academy of Sciences (LE). Many of these specimens were collected by the Russian botanist C. J. Maximowicz (1827–1891) and his assistant Tschonosuki (Chonosuke) Sukawa, and most have been described as new taxa by C. J. Maximowicz. Additional complementary data obtained in this investigation, such as collection date, locality, and collector, are registered in the database of Kanagawa Prefectural Museum of Natural History along with images of the specimens: 196 specimens from 69 taxa comprising angiosperms (dicots). In this paper, we indicated the information of examined type materials, including the type materials of thirteen taxa (*Myriophyllum spicatum* L. var. *muricatum* Maxim., *Rhynchosia volubilis* Lour. var. *acuminata* Maxim., *Achudemia japonica* Maxim., *Elatostema umbellatum* Blume var. *majus* Maxim., *Actinostemma lobatum* (Maxim.) Franch. & Sav. var. *japonicum* Maxim. ex Franch. & Sav., *Polygonum suffultum* Maxim., *Stellaria monosperma* Buch.-Ham. var. *japonica* Maxim., *Andromeda cernua* (Siebold & Zucc.) Miq. var. *rubens* Maxim., *Rhododendron ledifolium* G. Don var. *purpureum* Maxim., *Vincetoxicum japonicum* (C.Morren & Decne.) Decne. var. *grayanum* Maxim., *Veronica ornata* Monjusch., *Ajuga genevensis* L. var. *pallescens* Maxim. and *Senecio krameri* Franch. & Sav.) that we have discovered.

Key words: Carl Johann Maximowicz, *Achudemia japonica* Maxim., *Polygonum suffultum* Maxim., *Stellaria monosperma* Buch.-Ham. var. *japonica* Maxim., Sukawa Tschonosuki (Chonosuke)

Introduction

In this report, following the vascular plants [lycophytes, ferns, gymnosperms, and angiosperms (all monocots and some dicots)] (Tanaka *et al*., 2024), we examined and listed the type materials of vascular plants [angiosperms (remaining dicots)] collected from Kanagawa Prefecture in the Central and East Asian Department of Herbarium of higher plants at Komarov Botanical Institute of the Russian Academy of Sciences (LE).

Modern taxonomic studies of the Japanese flora were initiated with the collections made by Carl Peter Thunberg, who came to Japan in 1775, followed by Philipp Franz Balthasar von Siebold, Paul Amedée Ludovic Savatier, Carl Johann Maximowicz and others. Many of the type specimens and related materials of the plants they studied are deposited in the herbaria of institutes within their home countries, and so are the plants collected from Kanagawa Prefecture.

The plants described from Kanagawa Prefecture have been listed by Ozaki (2001). In order to establish a database of the regional flora, we have studied the specimens kept in these foreign herbaria and published serial reports on the type materials (Katsuyama *et al*., 2013; Tanaka *et al*., 2015, 2016; Tanaka *et al*., 2024).

Various specimens of vascular plants, bryophytes,

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lichens, fungi, and algae collected worldwide are deposited in LE, among which are numerous specimens collected in Japan by Maximowicz and his assistant, Tschonosuki (Chonosuke in the Hepburn system of Romanizing the Japanese language) Sukawa.

The Russian botanist Maximowicz (1827–1891) who studied vascular plants, primarily in East and Central Asia, spent the years from 1860 to 1864 in Japan, during which time, he actively surveyed the flora of the Yokohama in Kanagawa Prefecture, as well as Oshima Peninsula in Hokkaido, Nagasaki, and other areas. In the course of the fieldtrip, Maximowicz hired Sukawa Tschonosuki as an assistant collector. After Maximowicz had returned to Russia, Tschonosuki responded to Maximowicz's request to collect plant specimens from wider regions of Japan, which were duly sent to Maximowicz in St. Petersburg. Maximowicz's activities and research in Japan, and his interaction with Japanese botanists are shown in detail by Grabovskaya-Borodina (2016).

Materials and methods

We examined the type specimens and related materials of plants collected from Kanagawa Prefecture in the LE from September 4th to 13th, 2019, with reference to Ozaki (2001) and Grubov (2004). The specimens were photographed using a hand-held Nikon D800E digital SLR camera with a built-in flash and AF-S NIKKOR 28mm f/1.8G. The resulting images were 4,912 × 7,360 pixels. All cited specimens have already been scanned (600 DPI) and deposited at the database of the Komarov Botanical Institute (LE) (https://en.herbariumle.ru/). The collection information of cited specimens on the LE database were compiled from the "Catalogue of the type specimens of East-Asian vascular plants in the Herbarium of the Komarov Botanical Institute (LE) Part 1 (Japan and Korea)" (Grubov, 2004) and the latest studies by A. E. Grabovskaya-Borodina. The collected images and specimen collection information have been registered at the vascular plant image database (KPM-NX) in the collection management system of the Kanagawa Prefectural Museum of Natural History.

Results and discussion

Among the materials examined in the LE herbarium, we identified 196 type materials on 187 sheets of vascular plants collected from Kanagawa Prefecture. These comprise 10 holotypes, 14 isotypes, 24 lectotypes, 36 isolectotypes, 89 syntypes, and 23 isosyntypes of 69 taxa belonging to 31 families. Most of these taxa were described by C. J. Maximowicz, with the exception of eight taxa described by other authors, namely, Carl Ludwig Ritter von Blume, Vladimier A. Monjusch, Eduard August von Regel, Adrien René Franchet & Paul Amedée Ludovic Savatier (4 taxa) and Richard Wettstein. The type materials of *Myriophyllum spicatum* L. var. *muricatum* Maxim., *Rhynchosia volubilis* Lour. var. *acuminata* Maxim., *Achudemia japonica* Maxim., *Elatostema umbellatum* Blume var. *majus* Maxim., *Actinostemma lobatum* (Maxim.) Franch. & Sav. var. *japonicum* Maxim. ex Franch. & Sav., *Polygonum suffultum* Maxim., *Stellaria monosperma* Buch.-Ham. var. *japonica* Maxim., *Andromeda cernua* (Siebold & Zucc.) Miq. var. *rubens* Maxim., *Rhododendron ledifolium* G. Don var. *purpureum* Maxim., *Vincetoxicum japonicum* (C.Morren & Decne.) Decne. var. *grayanum* Maxim., *Veronica ornata* Monjuschko, *Ajuga genevensis* L. var. *pallescens* Maxim. and *Senecio krameri* Franch. & Sav. are recognized for the first time and are here in treated as syntypes.

A list of type materials

Explanation

1. The arrangement of families in the list follows the Angiosperm Phylogeny Group (2016) for angiosperms. Genera and species within families are arranged alphabetically by scientific name.
2. The descriptions of each species are presented in the following order:

(1) the scientific name and nomenclature citation.

(2) accepted name: the scientific name accepted by the Flora-Kanagawa Association (2018). The taxa which are not listed in the Flora-Kanagawa Association (2018), *Berberis maximowiczii* Regel, *Sedum sordidum* Maxim., *Rhododendron ledifolium* G. Don. *Veronica ornata* Monjuschko and *Artemisia schmidtiana* Maxim., follow Yonekura & Kajita (2003–).

(3) specimen collection information, including locality, date, collector, and collector specimen number, as indicated on the label attached to the specimen. In C. J. Maximowicz's collections we use two dates—the Gregorian and the Julian calendar, which were then used in Russia. We use a previously adopted form of labeling (Tanaka *et al*., 2015, 2016, 2024). We omit Iter secundum—C. J. Maximowicz second journey in the Russian Far East and Japan (1859–1864).

(4) specimens ID: The herbarium acronym LE refers to

the Herbarium of higher plants at Komarov Botanical Institute of the Russian Academy of Sciences.

(5) figure numbers and images ID: KPM-NX indicates the vascular plant image database in the collection management system of the Kanagawa Prefectural Museum of Natural History.

(6) comment: Typification and other information. Typification was based on Grubov (2004) and the latest studies.

3. No typification is proposed in this publication, only information from the published literature and labels attached to the specimens.

4. The abbreviations of authors and literary sources of the names are those given in the International Plant Names Index database (https://www.ipni.org/). Herbarium acronyms were obtained from the Index Herbariorum database (http://sweetgum.nybg.org/science/ih/).

Angiosperms

Berberidaceae

Berberis maximowiczii Regel in Gartenflora, 21: 238 (1872).

Accepted name: *Berberis vulgaris* L. [Japanese name: Seiyō-megi]

Japonia, Yokohama, 23 IV/5 V 1862, Maximowicz [sine num.] [LE01012797] (Fig. 1, KPM-NX0001468). Imkhanitzkaya (2004) designated this specimen as the lectotype, with an isolectotype [LE01012796] (Fig. 2, KPM-NX0001469).

Japonia, Yokohama, 11/23 IV 1862, Maximowicz [sine num.] [LE01012795] (Fig. 3, KPM-NX0001467), Japonia, Yokohama, 09/21 XII 1862, Maximowicz [sine num.] [LE01013812] (Fig. 3, KPM-NX0001467), Japonia, Yokohama, 10/22 IV 1862, Maximowicz [sine num.] [LE01012798] (Fig. 4, KPM-NX0001470). Imkhanitzkaya (2004) treated these specimens as syntypes.

Ranunculaceae

Isopyrum trachyspermum Maxim. in Bull. Acad. Sci. Pétersb. 29: 60 (1883).

Accepted name: *Dichocarpum trachyspermum* (Maxim.) W.T.Wang & P.K.Hsiao [Japanese name: Tōgoku-sabanoo]

Japonia, Oyama, 20 IV 1877, J. Bisset, no. 974 [LE01013614] (Fig. 5, KPM-NX0001338). Grabovskaya-Borodina (2004) treated this specimen as a syntype.

Fig. 1. Lectotype of *Berberis maximowiczii* Regel (LE01012797; KPM-NX0001468).

Fig. 2. Isolectotype of *Berberis maximowiczii* Regel (LE01012796; KPM-NX0001469).

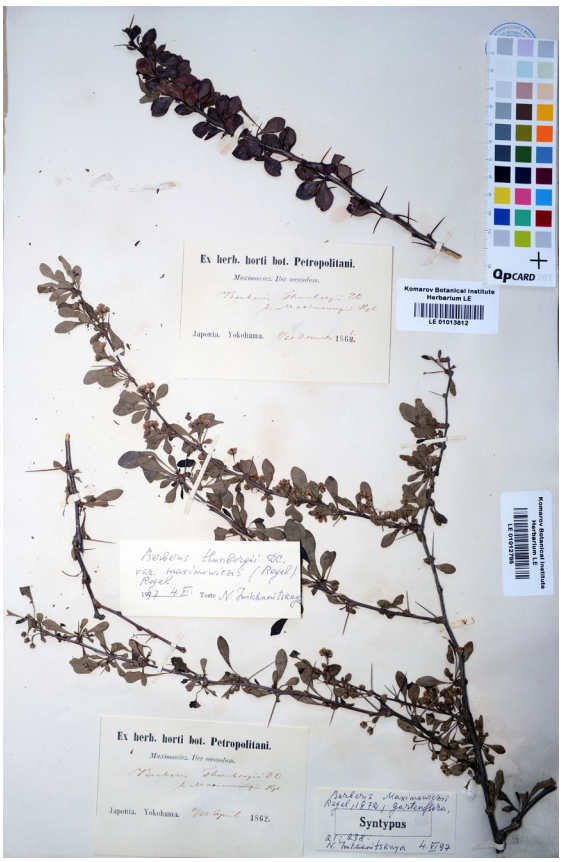

Fig. 3. Syntypes of *Berberis maximowiczii* Regel (LE01012795 & LE01013812; KPM-NX0001467).

Fig. 4. Syntype of *Berberis maximowiczii* Regel (LE01012798; KPM-NX0001470).

Trochodendraceae

Trochodendron aralioides Siebold & Zucc. var. ***longifolium*** Maxim. in Bull. Acad. Sci. Pétersb. 17: 145 (1872).

Accepted name: *Trochodendron aralioides* Siebold & Zucc. form. *longifolium* (Maxim.) Ohwi [Japanese name: Ngaba-no-yamaguruma]

Japonia, Hakone, in silvis mixtis graminois, 18/30 X 1862, Maximowicz [sine num.] [LE01013577] (Fig. 6, KPM-NX0001423). Imkhanitzkaya (2004) treated this specimen as a syntype.

Saxifragaceae

Chrysosplenium macrostemon Maxim. in Bull. Acad. Sci. Pétersb. 23: 348 (1877).

Accepted name: *Chrysosplenium macrostemon* Maxim. var. *macrostemon* [Japanese name: Iwa-botan]

Japonia, Jokoska, in silvis humidis, III 1875, L. Savatier, no. 593 [LE01014837] (Fig. 7, KPM-NX0001356). Vinogradova (2004) designated this specimen as the lectotype, with an isolectotype [LE01012838] (Fig. 7, KPM-NX0001356).

Crassulaceae

Cotyledon japonica Maxim. in Bull. Acad. Sci. Pétersb. 29: 122 (1883).

Accepted name: *Orostachys japonica* (Maxim.) A. Berger [Japanese name: Tsume-renge]

Japonia, Yokohama,18/30 X 1862, [Fl., fr.] Maximowicz [sine num.] [LE01015589] (Fig. 8, KPM-NX0001357). Byalt (2000) designated this specimen as the lectotype.

Sedum sordidum Maxim. in Bull. Acad. Sci. Pétersb. 29: 142 (1883).

Accepted name: *Hylotelephium sordidum* (Maxim.) H.Ohba [Japanese name: Chichippa-benkei]

Japonia, Yokohama, cult. 27 IX/9 X 1862, Maximowicz [sine num.] [LE01014761] (Fig. 9, KPM-NX0001359). Byalt (2004) treated this specimen as the holotype.

Haloragaceae

Myriophyllum spicatum L. var. ***muricatum*** Maxim. in Bull. Acad. Sci. Pétersb. 19: 182 (1873) ("*muricata*").

Accepted name: *Myriophyllum spicatum* L. [Japanese name: Hozaki-no-fusamo]

Fig. 5. Syntype of *Isopyrum trachyspermum* Maxim. (LE01013614; KPM-NX0001338).

Fig. 6. Syntype of *Trochodendron aralioides* Siebold & Zucc. var. *longifolium* Maxim. (LE01013577; KPM-NX0001423).

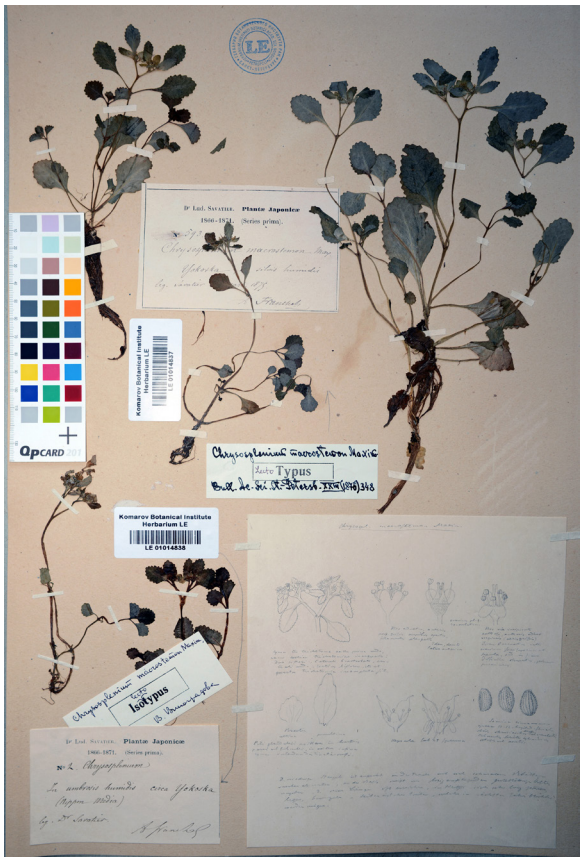

Fig. 7. Lectotype (LE01014837) and Isolectotype (LE01014838) of *Chrysosplenium macrostemon* Maxim. (KPM-NX0001356).

Fig. 8. Lectotype of *Cotyledon japonicus* Maxim. (LE01015589; KPM-NX0001357).

Japonia, Yokohama, 27 VII/8 VIII 1862, Maximowicz [sine num.] [LE01042688] (Fig.10, KPM-NX0001368). This specimen is a syntype newly pointed out here.

Fabaceae/Leguminosae

Apios fortunei Maxim. in Bull. Acad. Sci. Pétersb. 18: 396 (1873).

Accepted name: *Apios fortunei* Maxim. [Japanese name: Hodo-imo]

Japonia, Nippon media, Hakone. 1866, Tschonoski [sine num.] [LE01024862] (Fig. 11, KPM-NX0001369). V. Grubov treated this specimen as a syntype in Illarionova (2004).

Rhynchosia volubilis Lour. var. ***acuminata*** Maxim. in Bull. Acad. Sci. Pétersb. 18: 398 (1873)

Accepted name: *Rhynchosia acuminatifolia* Makino [Japanese name: Tokiri-mame]

Japonia, Yokohama, 13/25 VIII 1862, Maximowicz [sine num.] [LE01042662] (Fig. 12, KPM-NX0001372). This specimen is a syntype newly pointed out here.

Rosaceae

Filipendula multijuga Maxim. in Acta Horti Petrop. 6: 247 (1879).

Accepted name: *Filipendula multijuga* Maxim. var. *multijuga* [Japanese name: Shimotuke-sō]

Japonia, Yokohama, Hakone in cacumine montium lapidosorum graminosorum frequens, 18/30 X 1862, Maximowicz [sine num.] [LE01015068] (Fig. 13, KPM-NX0001376). Schanzer (1994) designated this specimen as the lectotype, with two isolectotypes [LE01015069] (Fig. 14, KPM-NX0001378), [LE01015071] (Fig. 15, KPM-NX0001377).

Potentilla cryptotaeniae Maxim. in Bull. Acad. Sci. Pétersb. 19: 162 (1873).

Accepted name: *Potentilla cryptotaeniae* Maxim. [Japanese name: Mitumoto-sō]

Japonia, Nippon, in arenosis uliginosis prope Yokoska, V 1867, L. Savatier, no. 365 [LE01017076] (Fig. 16, KPM-NX0001383). Buzunova (2004) treated this specimen as a syntype.

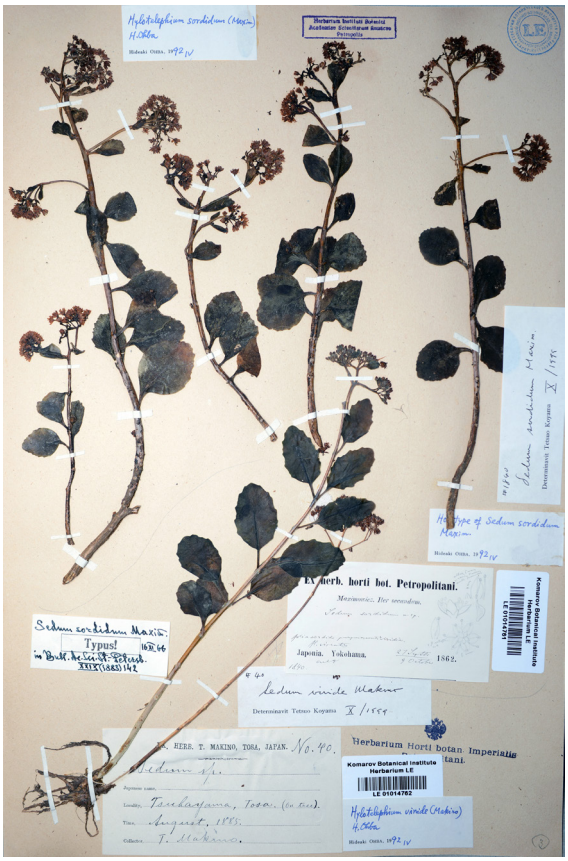

Fig. 9. Holotype of *Sedum sordidum* Maxim. (LE01014761; KPM-NX0001359).

Fig. 10. Syntype of *Myriophyllum spicatum* L. var. *muricata* Maxim. (LE01042688; KPM-NX0001368).

Fig. 11. Syntype of *Apios fortunei* Maxim. (LE01024862; KPM-NX0001369).

Fig. 12. Syntype of *Rhynchosia volubilis* Lour. var. *acuminata* Maxim. (LE01042662; KPM-NX0001372).

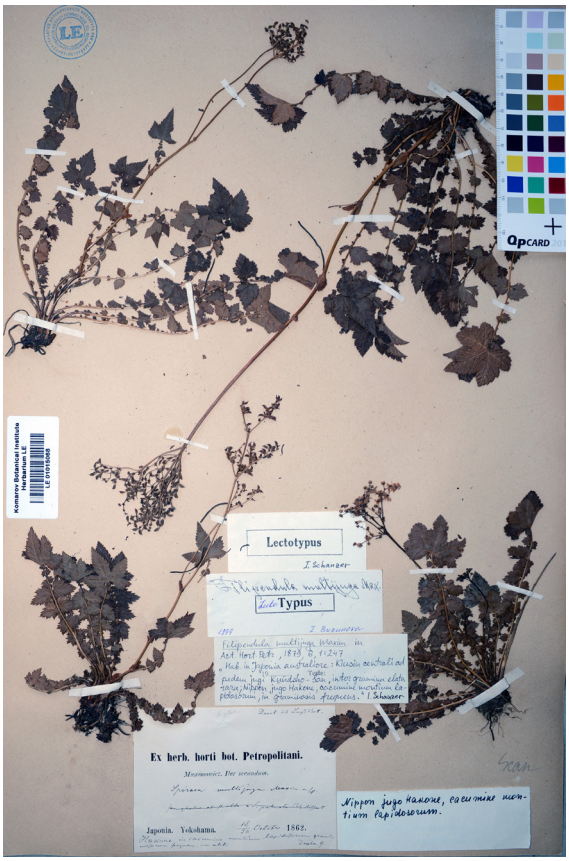

Fig. 13. Lectotype of *Filipendula multijuga* Maxim. (LE01015068; KPM-NX0001376).

Fig. 14. Isolectotype of *Filipendula multijuga* Maxim. (LE01015069; KPM-NX0001378).

Fig. 15. Isolectotype of *Filipendula multijuga* Maxim. (LE01015071; KPM-NX0001377).

Fig. 16. Syntype of *Potentilla cryptotaeniae* Maxim. (LE01017076; KPM-NX0001383).

Potentilla fragarioides L. var. ***ternata*** Maxim. in Bull. Acad. Sci. Pétersb. 19: 165 (1873) ("*ternatam*").

Accepted name: *Potentilla freyniana* Bornm. [Japanese name: Mitsuba-tuchiguri]

Japonia, Yokohama, in decliviis graminosis passim, 10/22 IV 1862, Maximowicz [sine num.] [LE01017086] (Fig. 17, KPM-NX0001387). Buzunova (2001) designated this specimen as the lectotype, with two isolectotypes [LE01017089] (Fig. 18, KPM-NX0001384), [LE01017090] (Fig. 19, KPM-NX0001388).

Prunus ceraseidos Maxim. in Bull. Acad. Sci. Pétersb. 29: 103 (1883).

Accepted name: *Cerasus apetala* (Siebold & Zucc.) H.Ohba ex H.Ohba var. *tetsuyae* H.Ohba [Japanese name: Chōji-zakura]

Japonia, Yokohama, in silvis frondosis mont. Hakone et ad Fudzi occurent dicitur, 13/25 IX 1862, Maximowicz [sine num.] [LE01015799] (Fig. 20, KPM-NX0001390), Hakone, 1866–1871, L. Savatier, no. 326 [LE01015800] (Fig. 20, KPM-NX0001390), Hakone, IX–X 1859–1863, Ph. Fr. Siebold [sine num.] [LE01015801] (Fig. 20, KPM-NX0001390). Buzunova (2004) treated these specimens as syntypes.

Urticaceae

Achudemia japonica Maxim. in Bull. Acad. Sci. Pétersb. 22: 241 (1876).

Accepted name: *Pilea japonica* (Maxim.) Hand-Mazz. [Japanese name: Yama-mizu]

Japonia, Yokohama, Hakone, 5/17 X 1862, Maximowicz [sine num.] [LE01013132] (Fig. 21, KPM-NX0001402), [LE01013133] (Fig. 22, KPM-NX0001403). These are syntypes pointed out here, but Grudzinskaya annotated one [LE01013132] (Fig. 21, KPM-NX0001402) of these specimens as "lectotypus" in 1980. *Achudemia japonica* Maxim. need to be lectotypified.

Elatostema umbellatum Blume var. ***majus*** Maxim. in Bull. Acad. Sci. Pétersb. 22: 247 (1876).

Accepted name: *Elatostema involucratum* Franch. & Sav. [Japanese name: Uwabami-sō]

Japonia, Nippon, Hakone ad rivulos 1864 Tschonoski [sine num.] [LE01042656] (Fig. 23, KPM-NX0001394), Japonia, Yokohama, Kamakura 15/27 V 1862 Maximowicz [sine num.] [LE01042657] (Fig. 24, KPM-NX0001395), Japonia, Yokohama

Fig. 17. Lectotype of *Potentilla fragarioides* L. var. *ternata* Maxim. (LE01017086; KPM-NX0001387).

Fig. 18. Isolectotype of *Potentilla fragarioides* L. var. *ternata* Maxim. (LE01017089; KPM-NX0001384).

Fig. 19. Isolectotype of *Potentilla fragarioides* L. var. *ternata* Maxim. (LE01017090; KPM-NX0001388).

Fig. 20. Syntypes of *Prunus ceraseidos* Maxim. (LE01015799, LE01015800 & LE01015801; KPM-NX0001390).

Fig. 21. Syntype of *Achudemia japonica* Maxim. (LE01013132; KPM-NX0001402).

Fig. 22. Syntype of *Achudemia japonica* Maxim. (LE01013133; KPM-NX0001403).

15/24 V 1862 Maximowicz [sine num.] [LE01042658] (Fig. 25, KPM-NX0001399), [LE01042659] (Fig. 26, KPM-NX0001398), [LE01042660] (Fig. 27, KPM-NX0001397), [LE01042661] (Fig. 28, KPM-NX0001396). These are syntypes newly pointed out here.

Fagaceae

Fagus japonica Maxim. in Bull. Acad. Sci. Pétersb. 31: 101 (1886).

Accepted name: *Fagus japonica* Maxim. [Japanese name: Inu-buna]

Japonia, Nippon, Hakone, 1864, Tschonoski [sine num.] [LE01014452] (Fig.29, KPM-NX0001408). Krestovskaya (2004) designated this specimen as the lectotype.

Juglandaceae

Juglans sieboldiana Maxim. in Bull. Acad. Sci. Pétersb. 18: 60 (1872).

Accepted name: *Juglans mandshurica* Maxim. var. *sachalinensis* (Komatsu) Kitam. Japanese name: Oni-gurumi]

Japonia, Yokohama, Kamakura culta apud rusticanes, 12/24 VII 1862, Maximowicz [sine num.] [LE01012929] (Fig. 30, KPM-NX0001411). Krestovskaya (2004) treated this specimen as a syntype.

Betulaceae

Carpinus tschonoskii Maxim. in Bull. Acad. Sci. Pétersb. 27: 534 (1882).

Accepted name: *Carpinus tschonoskii* Maxim. [Japanese name: Inu-shide]

Japonia, Nippon, Hakone, 1864, Tschonoski, no. 253 [LE01012938] (Fig. 31, KPM-NX0001428). Grabovskaya-Borodina (2004) treated this specimen as a syntype.

Cucurbitaceae

Actinostemma lobatum (Maxim.) Franch. & Sav. var. ***japonicum*** Maxim. ex Franch. & Sav. in Enum. Pl. Jap., 1, 1: 175 (1873) ("*Japonica*").

Accepted name: *Actinostemma tenerum* Griff. [Japanese name: Goki-dzuru]

Japonia, Yokohama 18/30 V 1862, Maximowicz [sine num.] [LE01041270] (Fig. 32, KPM-NX0001431). This specimen is syntype newly pointed out here.

Fig. 23. Syntype of *Elatostema umbellatum* Blume var. *majus* Maxim. (LE01042656; KPM-NX0001394).

Fig. 24. Syntype of *Elatostema umbellatum* Blume var. *majus* Maxim. (LE01042657; KPM-NX0001395).

Fig. 25. Syntype of *Elatostema umbellatum* Blume var. *majus* Maxim. (LE01042658; KPM-NX0001399).

Fig. 26. Syntype of *Elatostema umbellatum* Blume var. *majus* Maxim. (LE01042659; KPM-NX0001398).

Fig. 27. Syntype of *Elatostema umbellatum* Blume var. *majus* Maxim. (LE01042660; KPM-NX0001397).

Fig. 28. Syntype of *Elatostema umbellatum* Blume var. *majus* Maxim. (LE01042661; KPM-NX0001396).

Fig. 29. Lectotype of *Fagus japonica* Maxim. (LE01014452; KPM-NX0001408).

Fig. 30. Syntype of *Juglans sieboldiana* Maxim. (LE01012929; KPM-NX0001411).

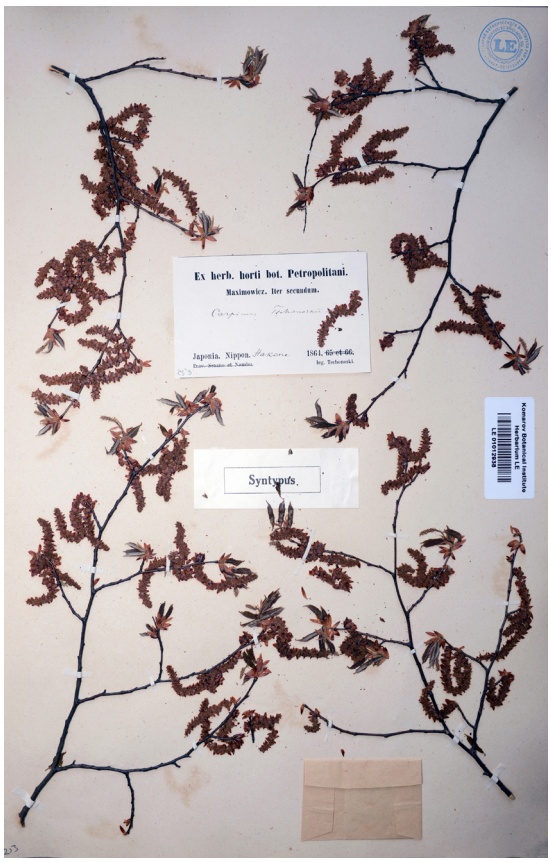

Fig. 31. Syntype of *Carpinus tschonoskii* Maxim. (LE01012938; KPM-NX0001428).

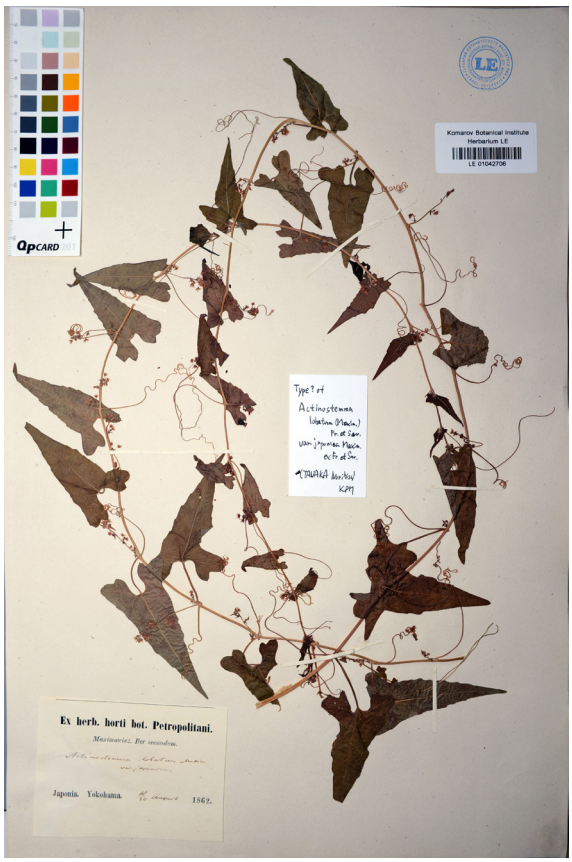

Fig. 32. Syntype of *Actinostemma lobatum* (Maxim.) Maxim. var. *japonica* Maxim. ex Franch. & Sav. (LE01041270; KPM-NX0001431).

Violaceae

Viola bissetii Maxim. in Bull. Soc. Natur. Moscou, 54, 1: 5 (1879).

Accepted name: *Viola bissetii* Maxim. [Japanese name: Nagaba-no-sumire-saishin]

Japonia, Nipponi Oyama, [sine die], J. Bisset, no. 996 [LE01042750] (Fig. 33, KPM-NX0001444). Nikitin (2004) treated this specimen as the holotype.

Japonia, Oyama, [sine die], J. Bisset, no. 995 [LE01042751] (Fig. 33, KPM-NX0001444). This specimen is syntype newly pointed out here.

In original description two specimens are cited — J Bisset, n. 995 and no. 996, and it would be more correct to consider specimen no. 996 [LE01042750] (Fig. 33, KPM-NX0001444) as the lectotype.

Viola phalacrocarpa Maxim. in Bull. Acad. Sci. Pétersb. 23: 318 (1877).

Accepted name: *Viola phalacrocarpa* Maxim. [Japanese name: Akane-sumire]

Japonia, Yokohama, inter *V. sylvestrem* ad margines agrorum sat frequens, 7/19 IV 1862, Maximowicz [sine num.] [LE01017334] (Fig. 34, KPM-NX0001445). Nikitin (2004) treated this specimen as a syntype.

Salicaceae

Idesia polycarpa Maxim. in Bull. Acad. Sci. Pétersb. 10: 485 (1866).

Accepted name: *Idesia polycarpa* Maxim. [Japanese name: Iigiri]

Japonia, ad pagum Fudsi-sawa in vicinio m. Fudsi [Fuji], culta, 5/17 X 1862, Maximowicz [sine num.] [LE01025827] (Fig. 35, KPM-NX0001450). Imkhanitzkaya (2004) treated this specimen as a syntype.

Malvaceae

Tilia miqueliana Maxim. in Bull. Acad. Sci. Pétersb. 26: 434 (1880).

Accepted name: *Tilia miqueliana* Maxim. [Japanese name: Bodaiju]

Japonia, Yokohama, 22 VI/4 VII 1862, Maximowicz, no. 1433 [LE01025763] (Fig. 36, KPM-NX0001455). Krestovskaya (2004) designated this specimen as the lectotype, with two isolectotypes [LE01025765] (Fig. 37, KPM-NX0001457), [LE01025764] (Fig. 38, KPM-NX0001456).

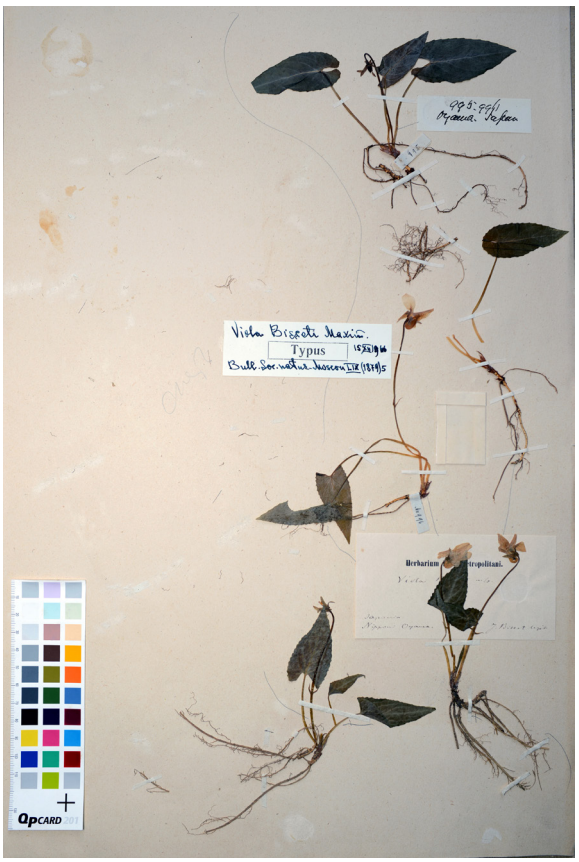

Fig. 33. Holotype (LE01042750) and syntype (LE01042751) of *Viola bissetii* Maxim. (KPM-NX0001444).

Fig. 34. Syntype of *Viola phalacrocarpa* Maxim. (LE01017334; KPM-NX0001445).

Fig. 35. Syntype of *Idesia polycarpa* Maxim. (LE01025827; KPM-NX0001450).

Fig. 36. Lectotype of *Tilia miqueliana* Maxim. (LE01025763; KPM-NX0001455).

Fig. 37. Isolectotype of *Tilia miqueliana* Maxim. (LE01025765; KPM-NX0001457).

Fig. 38. Isolectotype of *Tilia miqueliana* Maxim. (LE01025764; KPM-NX0001456).

Brassicaceae/Cruciferae

Eutrema wasabi Maxim. in Bull. Acad. Sci. Pétersb. 18: 283 (1873).

Accepted name: *Eutrema japonicum* (Miq.) Koidz. [Japanese name: Wasabi]

Japonia, Nippon, ad rivulos in alpibus Hakone, 1864, Tschonoski [sine num.] [LE01014520] (Fig. 39, KPM-NX0001463). Buzunova (2004) treated this specimen as a syntype, with two isosyntypes [LE01014523] (Fig. 40, KPM-NX0001464), [LE01014519] (Fig. 41, KPM-NX0001462).

Hesperis lutea Maxim. in Bull. Acad. Sci. Pétersb. 18: 282 (1873).

Accepted name: *Sisymbrium luteum* (Maxim.) O.E. Schulz [Japanese name: Kibana-hatazao]

Japonia, Yokohama, Hakone, VII 1862, Maximowicz [sine num.] [LE01014619] (Fig. 42, KPM-NX0001465). Buzunova (2004) treated this specimen as a syntype, with an isosyntype [LE01014620] (Fig. 43, KPM-NX0001466).

Polygonaceae

Polygonum suffultum Maxim. in Bull. Acad. Sci. Pétersb. 22: 233 (1876).

Accepted name: *Bistorta suffulta* (Maxim.) H. Gross [Japanese name: Kurin-yukifude]

Japonia, Yokohama, Hakone V 1862, Maximowicz [sine num.] [LE01016045] (Fig. 44, KPM-NX0001473), Japonia, Yokohama, in altissimis jugi Hakone V 1862 Maximowicz [sine num.] [LE01016043] (Fig. 45, KPM-NX0001474). A. Grabovskaya-Borodina annotated on the sheets as "syntype" in 2016, but we identified these specimens as *Bistorta tenuicaulis* (Bisset & S.Moore) Nakai. However, another specimen [LE01016047] (Fig. 46, KPM-NX0001471) collected at prov. Nambu, annotated on the sheet as the "lectotype" by A. Grabovskaya-Borodina in 11 IV 2016, was correctly *Bistorta suffulta* (Maxim.) H.Gross. This is a syntype pointed out here, *Polygonum suffultum* Maxim. need to be lectotypified.

Caryophyllaceae

Stellaria diandra Maxim. in Bull. Acad. Sci. Pétersb. 18: 379 (1873).

Accepted name: *Stellaria diversiflora* Maxim. [Japanese name: Sawa-hakobe]

Japonia, Yokohama, Hakone, 3/15 X 1862, Maximowicz [sine num.] [LE01011766] (Fig. 47,

Fig. 39. Syntype of *Eutrema wasabi* Maxim. (LE01014520; KPM-NX0001463).

Fig. 40. Isosyntype of *Eutrema wasabi* Maxim. (LE01014523; KPM-NX0001464).

Fig. 41. Isosyntype of *Eutrema wasabi* Maxim. (LE01014519; KPM-NX0001462).

Fig. 42. Syntype of *Hesperis lutea* Maxim. (LE01014619; KPM-NX0001465).

Fig. 43. Isosyntype of *Hesperis lutea* Maxim. (LE01014620; KPM-NX0001466).

Fig. 44. Syntype of *Polygonum suffultum* Maxim. (LE01016045; KPM-NX0001473). It is identified *Bistorta tenuicaulis* in this study.

Fig. 45. Syntype of *Polygonum suffultum* Maxim. (LE01016043; KPM-NX0001474). It is identified *Bistorta tenuicaulis* in this study.

Fig. 46. Syntype of *Polygonum suffultum* Maxim. (LE01016047; KPM-NX0001471).

KPM-NX0001487). Buzunova (2004) treated this specimen as the holotype, with an isotype [LE01011767] (Fig. 48, KPM-NX0001486).

Stellaria monosperma Buch.-Ham. var. ***japonica*** Maxim. in Bull. Acad. Sci. Pétersb. 18: 384–385 (1873).

Accepted name: *Stellaria monosperma* Buch.-Ham. ex D.Don var. *japonica* Maxim. [Japanese name: Oōyama-hakobe]

Yokohama Hakone 20 X/1 IX 1862 [LE01042654] (Fig. 49, KPM-NX0001488). [LE01042655] (Fig. 50, KPM-NX0001489). This is syntype pointed out here, *Stellaria monosperma* Buch.-Ham. var. *japonica* Maxim. need to be lectotypified.

Primulaceae

Ardisia hortorum Maxim. in Gartenflora, 14: 363, tab. 491 (1865).

Accepted name: *Ardisia crispa* (Thunb.) A. DC. var. *crispa* [Japanese name: Kara-tachibana]

Yokohama, cult., 9/21 VII 1862, Maximowicz, no. 1534 [LE01031915] (Fig. 51, KPM-NX0001936). Imkhanitzkaya (2004) treated this specimen as a syntype.

Lysimachia acroadenia Maxim. in Bull. Acad. Sci. Pétersb. 12: 70 (1867).

Accepted name: *Lysimachia acroadenia* Maxim. [Japanese name: Miyama-ta-gobō]

Japonia, Yokohama, 30 V/11 VI 1862, Maximowicz [sine num.] [LE01032211] (Fig. 52, KPM-NX0001517). Imkhanitzkaya (2004) treated this specimen as a syntype, with an isosyntype [LE01032206] (Fig. 53, KPM-NX0001511).

Lysimachia fortunei Maxim. in Bull. Acad. Sci. Pétersb. 12: 68 (1867).

Accepted name: *Lysimachia fortunei* Maxim. [Japanese name: Numa-toranoo]

Japonia, Yokohama, 24 VI/6 VII 1862, Maximowicz [sine num.] [LE01032229] (Fig. 54, KPM-NX0001518). Imkhanitzkaya (2004) treated this specimen as a syntype.

Theaceae

Stewartia pseudocamellia Maxim. in Bull. Acad. Sci. Pétersb. 11: 429 (1867).

Accepted name: *Stewartia pseudocamellia* Maxim. [Japanese name: Natsu-tsubaki]

Japonia, Yokohama, culta, 12/24 VI 1862, Maximowicz [sine num.] [LE01042682] (Fig. 55, KPM-NX0001521). Krestovskaya (2004) treated this specimen as the holotype.

Ericaceae

Andromeda cernua (Siebold & Zucc.) Miq. var. ***rubens*** Maxim. in Bull. Acad. Sci. Pétersb. 18: 50 (1872).

Accepted name: *Enkianthus cernuus* (Siebold & Zucc.) Makino form. *rubens* (Maxim.) Ohwi [Japanese name: Beni-Dōdan]

Japonia, Nippon, Hakone, 1864, Tschonoski [sine num.] [LE01042719] (Fig. 56, KPM-NX0001526). This sepcimen is a syntype newly pointed out here, with two isosyntypes [LE01042713] (Fig. 57, KPM-NX0001529), [LE01042712] (Fig. 58, KPM-NX0001530).

Rhododendron ledifolium G. Don var. ***purpureum*** Maxim. in Mém. Acad. Sci. Pétersb. sér. 7, 16, 9: 36 (1870).

Accepted name: *Rhododendron ledifolium* G. Don [Japanese name: Ryukyu-Tsutsuji]

Japonia, Yokohama cult, 2/14 V 1862, Maximowicz [sine num.] [LE01042679] (Fig. 59, KPM-NX0001551), Japonia, Yokohama cult, 5/17 V 1862, Maximowicz [sine num.] [LE01042675] (Fig. 60, KPM-NX0001554), Japonia, Yokohama Kamado, in viciniis m. Hakone, cult, 25 X/6 XI 1862, Maximowicz [sine num.] [LE01042681] (Fig. 59, KPM-NX0001551). These are syntypes newly pointed out here.

Tsusiophyllum tanakae Maxim. in Mém. Acad. Sci. Pétersb. sér. 7, 16, 9: 12, tab. 3, fig. 1–8 (1870).

Accepted name: *Rhododendron tsusiophyllum* Sugim. [Japanese name: Hakone-kome-tsutsuji]

Japonia, in mont[ibus] Hakone, ins. Nippon, [sine die], Tanaka et Yeouchima [sine num.] [LE01031852] (Fig. 61, KPM-NX0001559). Vinogradova (2004) treated this specimen as the holotype.

Apocynaceae

Cynoctonum wilfordii Maxim. in Mél. Biol. 9: 799 (1876); Maxim. in Bull. Acad. Sci. Pétersb. 23: 369 (1877).

Accepted name: *Cynanchum wilfordii* (Maxim.) Hemsl. [Japanese name: Ko-ikema]

Japonia, Yokohama, in fruticetis satis frequens, 23 VI/5 VII 1862, Maximowicz [sine num.]

Fig. 47. Holotype of *Stellaria diandra* Maxim. (LE01011766; KPM-NX0001487).

Fig. 48. Isotype of *Stellaria diandra* Maxim. (LE01011767; KPM-NX0001486).

Fig. 49. Syntype of *Stellaria monosperma* Buch.-Ham. var. *japonica* Maxim. (LE01042654; KPM-NX0001488).

Fig. 50. Syntype of *Stellaria monosperma* Buch.-Ham. var. *japonica* Maxim. (LE01042655; KPM-NX0001489).

Fig. 51. Syntype of *Ardisia hortorum* Maxim. (LE01031915; KPM-NX0001936).

Fig. 52. Syntype of *Lysimachia acroadenia* Maxim. (LE01032211; KPM-NX0001517).

Fig. 53. Isosyntype of *Lysimachia acroadenia* Maxim. (LE01032206; KPM-NX0001511).

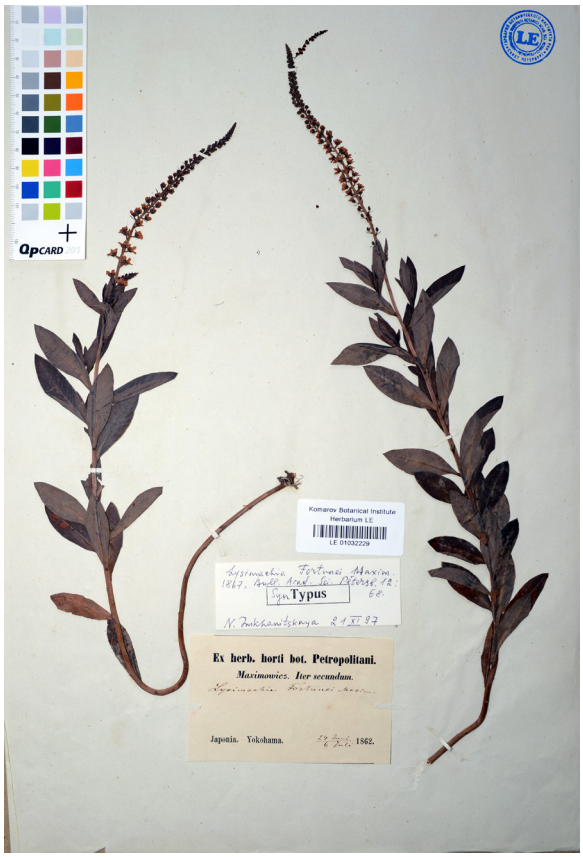

Fig. 54. Syntype of *Lysimachia fortunei* Maxim. (LE01032229; KPM-NX0001518).

Fig. 55. Holotype of *Stewartia pseudocamellia* Maxim. (LE01042682; KPM-NX0001521).

Fig. 56. Syntype of *Andromeda cernua* (Siebold & Zucc.) Miq. var. *rubens* Maxim. (LE01042719; KPM-NX0001526).

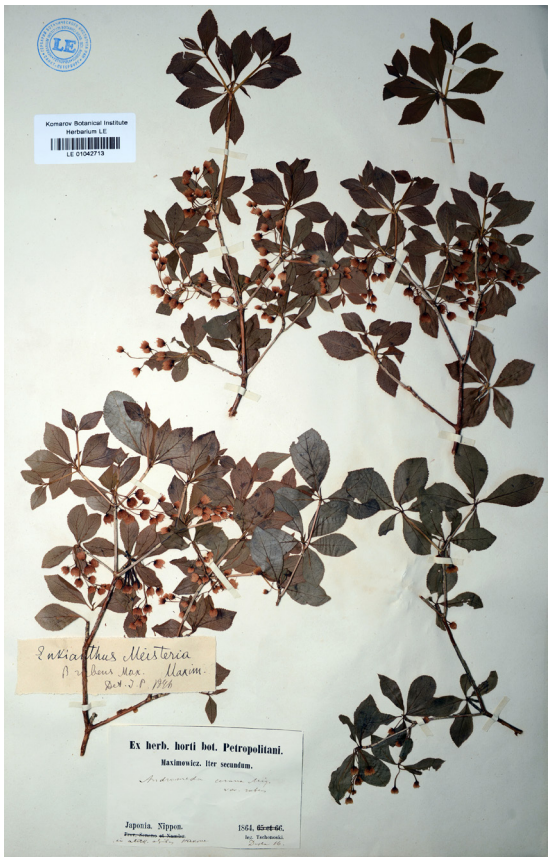

Fig. 57. Isosyntype of *Andromeda cernua* (Siebold & Zucc.) Miq. var. *rubens* Maxim. (LE01042713; KPM-NX0001529).

Fig. 58. Isosyntype of *Andromeda cernua* (Siebold & Zucc.) Miq. var. *rubens* Maxim. (LE01042712; KPM-NX0001530).

Fig. 59. Syntypes of *Rhododendron ledifolium* G.Don var. *purpureum* Maxim. (LE01042679 & LE01042681 KPM-NX0001551).

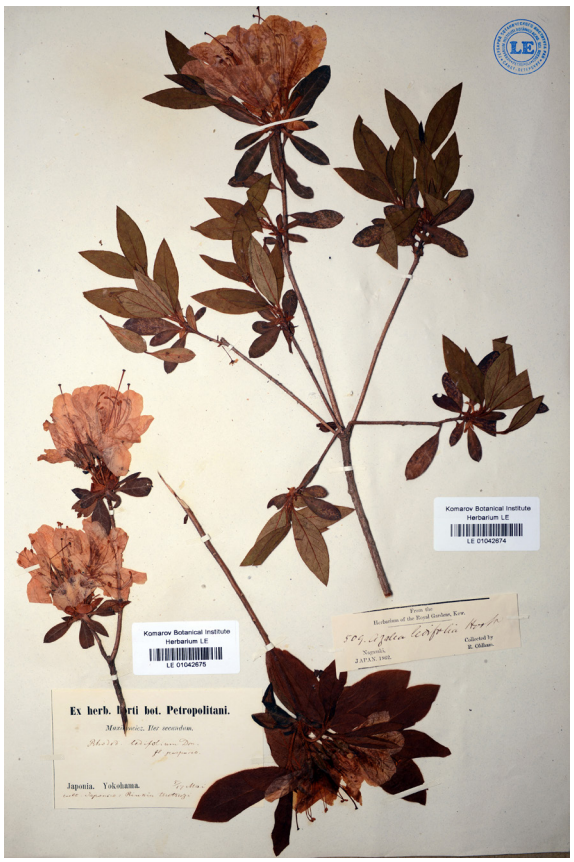

Fig. 60. Syntype of *Rhododendron ledifolium* G.Don var. *purpureum* Maxim. (LE01042675; KPM-NX0001554).

[LE01036903] (Fig. 62, KPM-NX0001563). Imkhanitzkaya (2004) designated this specimen as the lectotype, with two isolectotypes [LE01036901] (Fig. 63, KPM-NX0001561), [LE01036904] (Fig. 64, KPM-NX0001564).

Yokoska, in fruticetis, 1866–1871, L. Savatier, no. 832 [LE01036902] (Fig. 65, KPM-NX0001562). Imkhanitzkaya (2004) treated this specimen as a syntype.

Vincetoxicum japonicum (C.Morren & Decne.) Decne. var. ***grayanum*** Maxim. in Bull. Acad. Sci. Pétersb. 23: 359 (1877).

Accepted name: *Cynanchum grayanum* (Maxim.) Koidz. [Japanese name: Iyo-kazura]

Yokoska 1866–1871, Savatier no. 823 [LE01042671] (Fig. 66, KPM-NX0001565), Japonia, Yokohama, Kanisawa [in protologue "Kanasawa", modern "Kanazawa-ku"] , 14/26 V 1862 [LE01070437] (Fig. 67, KPM-NX0002021). A. Grabovskaya-Borodina annotated on the sheets as "syntypes" in 2019. These are syntypes pointed out here.

Boraginaceae

Eritrichium brevipes Maxim. in Bull. Acad. Sci. Pétersb. 17: 446 (1872).

Accepted name: *Trigonois brevipes* (Maxim.) Maxim. ex Hemsl. [Japanese name: Mizu-tabirako]

Yokohama, Hakone, ad rivulos, 5/17 X 1862, Maximowicz [LE01036944] (Fig. 68, KPM-NX0001570). Raenko (2001a) designated this specimen as the lectotype.

Plantaginaceae

Veronica ornata Monjuschko in Not. Syst. 5: 12 (1924).

Accepted name: *Veronica ornata* Monjuschko [Japanese name: Tōtei-ran]

Hakone, in rupibus inter frutices, 1866–1871, A. Franchet, no. 902 [LE01042788] (Fig. 69, KPM-NX0001575). Elenevsky (1978) designated this specimen as the lectotype.

Japonia, Yokohama, culta, 26 VIII/7 IX 1862, Maximowicz [sine num.] [LE01042819] (Fig. 70, KPM-NX0002019). Japonia, Yokohama, culta, 13/25 IX 1862, Maximowicz [sine num.] [LE01042710] (Fig. 70, KPM-NX0002019). These specimens are syntypes pointed out here.

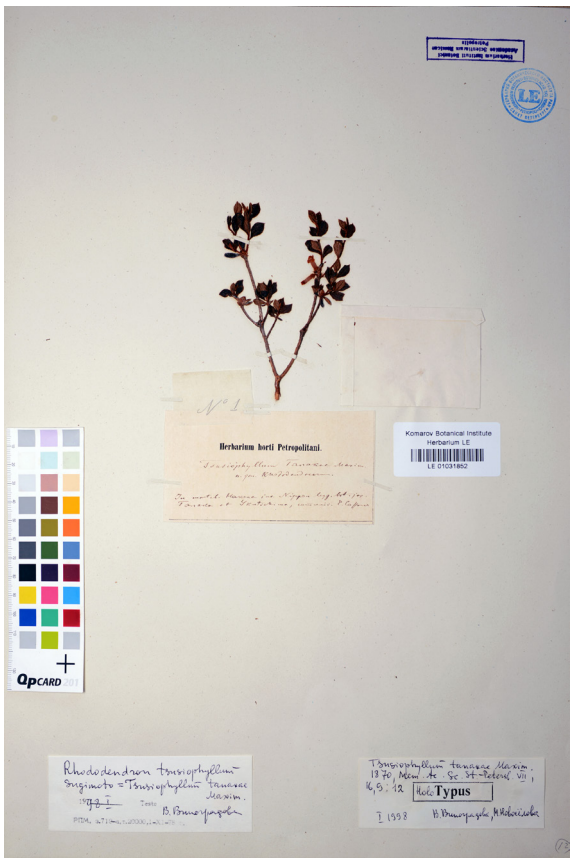

Fig. 61. Holotype of *Tsusiophyllum tanakae* Maxim. (LE01031852; KPM-NX0001559).

Fig. 62. Lectotype of *Cynotonum wilfordii* Maxim. (LE01036903; KPM-NX0001563).

Fig. 63. Isolectotype of *Cynotonum wilfordii* Maxim. (LE01036901; KPM-NX0001561).

Fig. 64. Isolectotype of *Cynotonum wilfordii* Maxim. (LE01036904; KPM-NX0001564).

Fig. 65. Syntype of *Cynotonum wilfordii* Maxim. (LE01036902; KPM-NX0001562).

Fig. 66. Syntype of *Vincetoxicum japonicum* (C.Morren & Decne.) Decne. var. *grayanum* Maxim. (LE01042671; KPM-NX0001565).

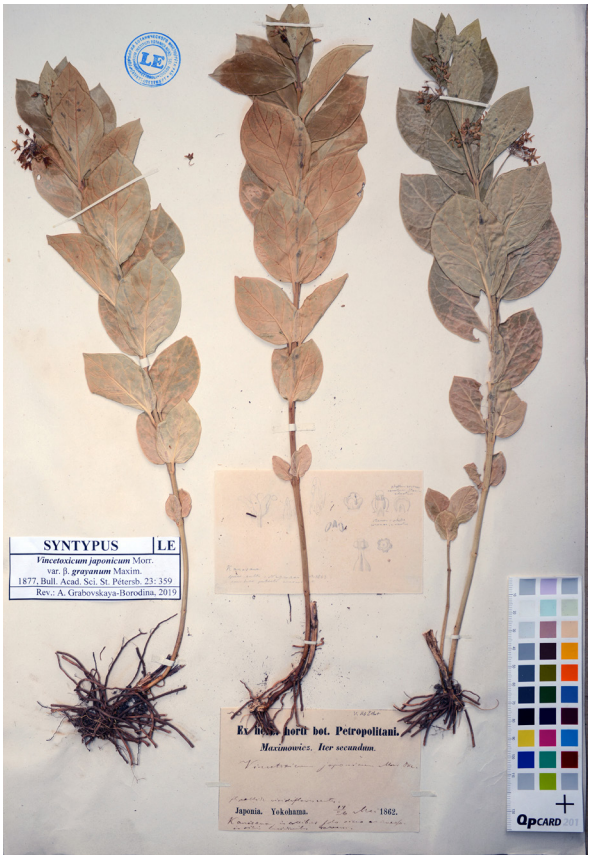

Fig. 67. Syntype of *Vincetoxicum japonicum* (C.Morren & Decne.) Decne. var. *grayanum* Maxim. (LE01070437; KPM-NX0002021).

Fig. 68. Lectotype of *Eritrichium brevipes* Maxim. (LE01036944; KPM-NX0001570).

Fig. 69. Lectotype of *Veronica ornata* Monjuschko (LE01042788; KPM-NX0001575).

Fig. 70. Syntypes of *Veronica ornata* Monjuschko (LE01042819 & LE01042710; KPM-NX0002019).

Lamiaceae/Labiatae

Ajuga genevensis L. var. ***pallescens*** Maxim. in Bull. Acad. Sci. Pétersb. 29: 185 (1883).

Accepted name: *Ajuga shikotanensis* Miyabe & Tatew. [Japanese name: Tsuru-kakosō]

Japonia, Yokohama 5/17 V 1862 Maximowicz [sine num.] [LE01042721] (Fig. 71, KPM-NX0001580), Yokohama 5/17 V 1862 Maximowicz [sine num.] [LE01042722] (Fig. 72, KPM-NX0001581). These specimens are syntypes pointed out here. We identified these specimens as *Ajuga nipponensis* Makino.

Mosla grosseserrata Maxim. in Bull. Acad. Sci. Pétersb. 20: 458 (1875).

Accepted name: *Mosla dianthera* (Buch.-Ham. ex Roxb.) Maxim. [Japanese name: Hime-jiso]

Japonia, Yokohama, 11/23IX 1862, Maximowicz [sine num.] [LE01042811] (Fig. 73, KPM-NX0001587). Krestovskaya (2001) designated this specimen as the lectotype.

Japonia, Yokohama, 26 IX/8 X 1862, Maximowicz [sine num.] [LE01042810] (Fig. 74, KPM-NX0001588). Krestovskaya (2004) treated this specimen as a syntype.

Plectranthus inflexus (Thunb.) Vahl. Vahl ex Benth. var. ***umbrosus*** Maxim. in Bull. Acad. Sci. Pétersb. 20: 453 (1875).

Accepted name: *Isodon umbrosus* (Maxim.) H.Hara var. *umbrosus* [Japanese name: Inu-yama-hakka]

Japonia, Yokohama, Hakone, in silvis ad rivulos, 6/18 X 1862, Maximowicz [sine num.] [LE01042803] (Fig. 75, KPM-NX0001586). Krestovskaya (2004) treated this specimen as the holotype.

Plectranthus longitubus Miq. var. ***effusus*** Maxim. in Bull. Acad. Sci. Pétersb. 20: 451 (1875) ("*effusa*").

Accepted name: *Isodon effusus* (Maxim.) H. Hara [Japanese name: Sekiya-no-aki-chōji]

Japonia, Yokohama, Hakone , 5/17X 1862, Maximowicz no. 1878 [LE01042804] (Fig. 76, KPM-NX0001583). Krestovskaya (2004) treated this specimen as the holotype, with two isotypes [LE01042805] (Fig. 77, KPM-NX0001582), [LE01042806] (Fig. 78, KPM-NX0001584).

Teucrium stoloniferum Roxb. var. ***miquelianum*** Maxim. in Bull. Acad. Sci. Pétersb. 23: 387 (1877).

Accepted name: *Teucrium viscidum* Blume var. *miquelianum* (Maxim.) H. Hara [Japanese name:

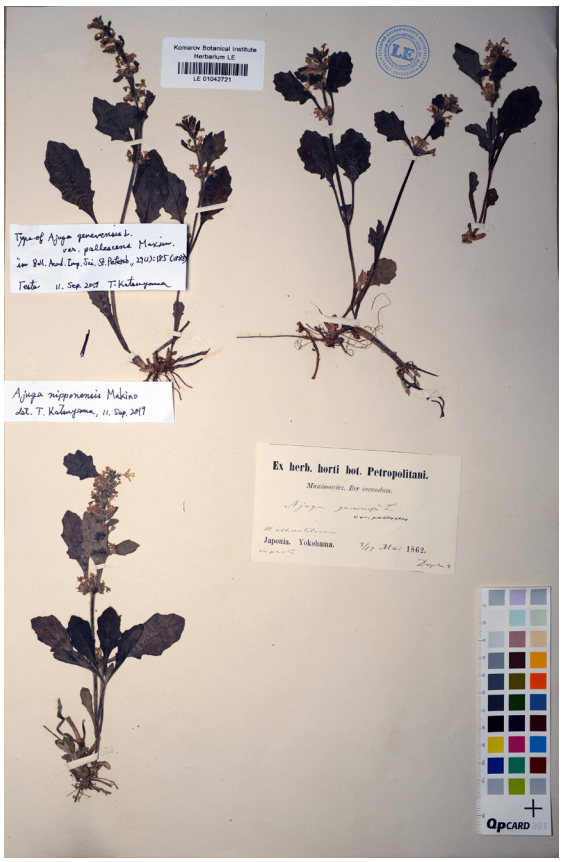

Fig. 71. Syntype of *Ajuga genevensis* L. var. *pallescens* Maxim. (LE01042721; KPM-NX0001580). It is identified *Ajuga nipponensis* in this study.

Fig. 72. Syntype of *Ajuga genevensis* L. var. *pallescens* Maxim. (LE01042722; KPM-NX0001581). It is identified *Ajuga nipponensis* in this study.

Fig. 73. Lectotype of *Mosla grosseserrata* Maxim. (LE01042811; KPM-NX0001587).

Fig. 74. Syntype of *Mosla grosseserrata* Maxim. (LE01042810; KPM-NX0001588).

Fig. 75. Holotype of *Plectranthus inflexus* (Thunb.) Vahl. var. *umbrosus* Maxim. (LE01042803; KPM-NX0001586).

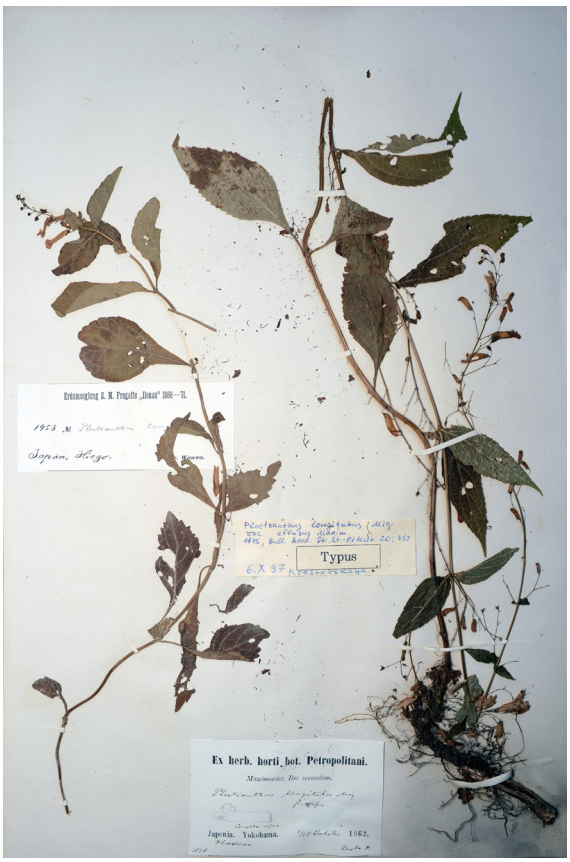

Fig. 76. Holotype of *Plectranthus longitubus* Miq. var. *effusus* Maxim. (LE01042804; KPM-NX0001583).

Fig. 77. Isotype of *Plectranthus longitubus* Miq. var. *effusus* Maxim. (LE01042805; KPM-NX0001582).

Fig. 78. Isotype of *Plectranthus longitubus* Miq. var. *effusus* Maxim. (LE01042806; KPM-NX0001584).

Tsuru-nigakusa]

Japonia, Yokohama, Hakone, ad rivulos silvarum, 6/18 X 1862, Maximowicz [sine num.] [LE01041258] (Fig. 79, KPM-NX0001591). Krestovskaya (2004) treated this specimen as a syntype.

Orobanchaceae

Euphrasia maximowiczii Wettst. in Monor. Gatt. Euphr.: 87, taf. 11, fig. 4; taf. III, fig. 120–126 (1896).

Accepted name: *Euphrasia maximowiczii* Wettst. [Japanese name: Tachi-kogomegusa]

Nippon, in montibus Hakone, prope Foudgi-Yama, 1864, Tanaka et Yeouchima, no. 102 [LE01042743] (Fig. 80, KPM-NX0001579). Popova (2004) treated this specimen as a syntype.

Asteraceae/Compositae

Artemisia schmidtiana Maxim. in Bull. Acad. Sci. Pétersb. 17: 439 (1872).

Accepted name: *Artemisia schmidtiana* Maxim. [Japanese name: Asagiri-sō]

Japonia, Yokohama, culta, 15/27 IX 1862, Maximowicz, no. 1824 [LE01017282] (Fig. 81, KPM-NX0001600). Raenko (2004) designated this specimen as the lectotype, with two isolectotypes [LE01017278] (Fig. 82, KPM-NX0001602), [LE01017280] (Fig. 83, KPM-NX0001601).

Artemisia thunbergiana Maxim. in Bull. Acad. Sci. Pétersb. 17: 432 (1872).

Accepted name: *Artemisia apiacea* Hance [Japanese name: Kawara-ninjin]

Japonia, Yokohama, in ruderatis et passim ad vias, 14/26 VIII 1862, Maximowicz [sine num.] [LE01017298] (Fig. 84, KPM-NX0001604). V. Grubov designated this specimen as the lectotype in Raenko (2001b), with five isolectotypes [LE01017297] (Fig. 85, KPM-NX0001603), [LE01017299] (Fig. 86, KPM-NX0001605), [LE01017300] (Fig. 87, KPM-NX0001606), [LE01018201] (Fig. 88, KPM-NX0001607), [LE01018202] (Fig. 89, KPM-NX0001608).

Aster dimorphophyllus Franch. & Sav. in Enum. Pl. Jap. 1, 2: 223 (1875); id. ibid. 2, 2: 395 (1878).

Accepted name: *Aster dimorphophyllus* Franch. & Sav. [Japanese name: Tateyama-giku]

Hakone (Nippon med.) in rupestribus umbrosis regionis alpinae, 30 VII 1871, L. Savatier, no. 602 [LE01017144] (Fig. 90, KPM-NX0001609). Raenko (2004) treated this specimen as an isotype.

Aster rugulosus Maxim. in Bull. Acad. Sci. Pétersb. 15: 226 (1870).

Accepted name: *Aster rugulosus* Maxim. var. *rugulosus* [Japanese name: Sawashiro-giku]

Japonia, Yokohama, 26 VIII/7 IX 1862, Maximowicz [sine num.] [LE01017150] (Fig. 91, KPM-NX0001616). V. Grubov designated this specimen as the lectotype in Raenko (2001b), with two isolectotypes [LE01017148] (Fig. 92, KPM-NX0001613), [LE01017149] (Fig. 93, KPM-NX0001614).

Japonia, Yokohama, 13/25 IX 1862, Maximowicz [sine num.] [LE01017146] (Fig. 94, KPM-NX0001611). Raenko (2004) treated this specimen as a syntype, with an isosyntype [LE01017145] (Fig. 95, KPM-NX0001610), Japonia, Yokohama, 12/24 IX 1862, Maximowicz [sine num.] [LE01017147] (Fig. 96, KPM-NX0001612). Raenko (2004) treated this specimen as a syntype.

Carpesium glossophyllum Maxim. in Bull. Acad. Sci. Pétersb. 19: 475 (1874).

Accepted name: *Carpesium glossophyllum* Maxim. [Japanese name: Saji-gankubi-sō]

Yokohama, 7/19VIII 1862, Maximowicz [sine num.] [LE01017209] (Fig. 97, KPM-NX0001622). V. Grubov designated this specimen as the lectotype in Raenko (2004).

Japonia, Yokohama, 21 VI/3 VII 1862, Maximowicz [sine num.] [LE01017203] (Fig. 98, KPM-NX0001619), Japonia, Yokohama, 28 VII/9 VIII 1862, Maximowicz [sine num.] [LE01017204] (Fig. 99, KPM-NX0001620), Japonia, Yokohama, 2/14 VIII 1862, Maximowicz [sine num.] [LE01017205] (Fig. 100, KPM-NX0001621). Raenko (2004) treated these specimens as syntypes.

Japon, Yokoska in incultis, 1866–1871, L. Savatier no. 656 [LE01017201] (Fig. 101, KPM-NX0001617). Raenko (2004) treated this specimen as a syntype, with an isosyntype [LE01017202] (Fig. 102, KPM-NX0001618).

Cnicus suffultus Maxim. var. ***incomptus*** Maxim. in Bull. Acad. Sci. Pétersb. 19: 499 (1874).

Accepted name: *Cirsium nipponicum* (Maxim.) Makino var. *incomptum* (Maxim.) Kitam. ex Kadota [Japanese name: Tai-azami]

Fig. 79. Syntype of *Teucrium stoloniferum* Roxb. var. *miquelianum* Maxim. (LE01041258; KPM-NX0001591).

Fig. 80. Syntype of *Euphrasia maximowiczii* Wettst. (LE01042743; KPM-NX0001579).

Fig. 81. Lectotype of *Artemisia schmidtiana* Maxim. (LE01017282; KPM-NX0001600).

Fig. 82. Isolectotype of *Artemisia schmidtiana* Maxim. (LE01017278; KPM-NX0001602).

Fig. 83. Isolectotype of *Artemisia schmidtiana* Maxim. (LE01017280; KPM-NX0001601).

Fig. 84. Lectotype of *Artemisia thunbergiana* Maxim. (LE01017298; KPM-NX0001604).

Fig. 85. Isolectotype of *Artemisia thunbergiana* Maxim. (LE01017297; KPM-NX0001603).

Fig. 86. Isolectotype of *Artemisia thunbergiana* Maxim. (LE01017299; KPM-NX0001605).

Fig. 87. Isolectotype of *Artemisia thunbergiana* Maxim. (LE01017300; KPM-NX0001606).

Fig. 88. Isolectotype of *Artemisia thunbergiana* Maxim. (LE01018201; KPM-NX0001607).

Fig. 89. Isolectotype of *Artemisia thunbergiana* Maxim. (LE01018202; KPM-NX0001608).

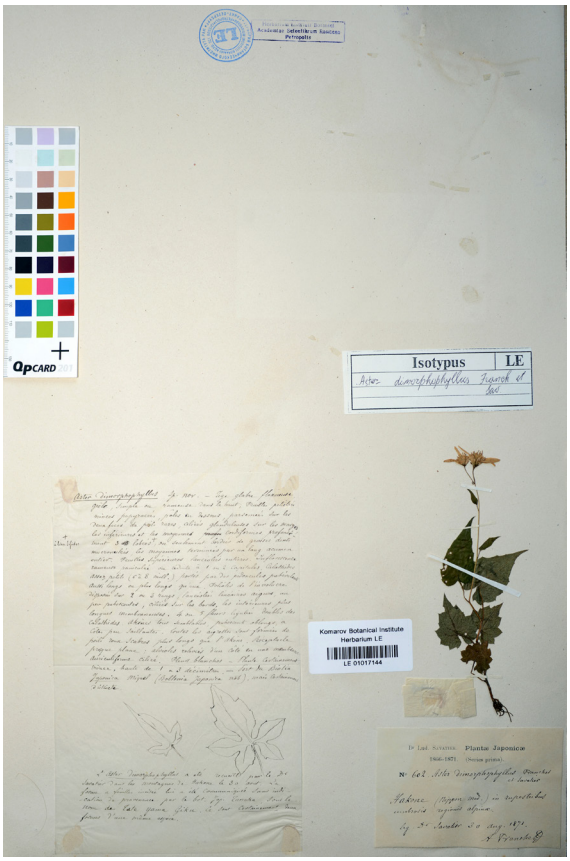

Fig. 90. Isotype of *Aster dimorphophyllus* Franch. & Sav. (LE01017144; KPM-NX0001609).

Fig. 91. Lectotype of *Aster rugulosus* Maxim. (LE01017150; KPM-NX0001616).

Fig. 92. Isolectotype of *Aster rugulosus* Maxim. (LE01017148; KPM-NX0001613).

Fig. 93. Isolectotype of *Aster rugulosus* Maxim. (LE01017149; KPM-NX0001614).

Fig. 94. Syntype of *Aster rugulosus* Maxim. (LE01017146; KPM-NX0001611).

Fig. 95. Isosyntype of *Aster rugulosus* Maxim. (LE01017145; KPM-NX0001610).

Fig. 96. Syntype of *Aster rugulosus* Maxim. (LE01017147; KPM-NX0001612).

Fig. 97. Lectotype of *Carpesium glossophyllum* Maxim. (LE01017209; KPM-NX0001622).

Fig. 98. Syntype of *Carpesium glossophyllum* Maxim. (LE01017203; KPM-NX0001619).

Fig. 99. Syntype of *Carpesium glossophyllum* Maxim. (LE01017204; KPM-NX0001620).

Fig. 100. Syntype of *Carpesium glossophyllum* Maxim. (LE01017205; KPM-NX0001621).

Fig. 101. Syntype of *Carpesium glossophyllum* Maxim. (LE01017201; KPM-NX0001617).

Fig. 102. Isosyntype of *Carpesium glossophyllum* Maxim. (LE01017202; KPM-NX0001618).

Yokohama, 1859–1863, Fr. Siebold [LE01024423] (Fig. 103, KPM-NX0001658). Kadota (1993) designated this specimen as the lectotype, two isolectotypes [LE01024422] (Fig. 104, KPM-NX0001657), [LE01024424] (Fig. 105, KPM-NX0001656).

Japonia, Yokohama, 18/30 VIII 1862, Maximowicz no. 863 [LE01024430] (Fig. 106, KPM-NX0001665), Japonia, Yokohama, 25 VIII/6 IX 1862 [LE01024428] (Fig. 107, KPM-NX0001663), Japonia, Yokohama, 27 IX/9 X 1862 [LE01024429] (Fig. 108, KPM-NX0001664). Raenko (2004) treated these specimens as syntypes.

Japonia, Yokohama, 15 IX/27 IX 1862, Maximowicz [sine num.] [LE01024431] (Fig. 109, KPM-NX0001666). Raenko (2004) treated this specimen as a syntype, with two isosyntypes [LE01024432] (Fig. 110, KPM-NX0001667), [LE01024425] (Fig. 111, KPM-NX0001660).

Macroclinidium robustum Maxim. in Bull. Acad. Sci. Pétersb. 15: 376 (1870).

Accepted name: *Pertya robusta* (Maxim.) Makino [Japanese name: Kashiwa-ba-haguma]

Japonia, Yokohama, 15/27 X 1862, Maximowicz [LE01024460] (Fig. 112, KPM-NX0001677). V. Grubov designated this specimen as the lectotype in Raenko (2001b), with four isolectotypes [LE01024458] (Fig. 113, KPM-NX0001675), [LE01024459] (Fig. 114, KPM-NX0001676), [LE01024461] (Fig. 115, KPM-NX0001678), [LE01024462] (Fig. 116, KPM-NX0001679).

Japonia, Yokohama, 4/16 X 1862, Maximowicz [LE01024463] (Fig.118, KPM-NX0001680), [LE01024464] (Fig. 117, KPM-NX0001680), Japonia, Yokohama. 24 X/8 XI 1862, Maximowicz –[LE01024465] (Fig. 118, KPM-NX0001681), [LE01024466] (Fig. 119, KPM-NX0001682), [LE01024467] (Fig. 120, KPM-NX0001683). Raenko (2004) treated these specimens as syntypes.

Pertya ovata Maxim. in Bull. Acad. Sci. Pétersb. 16: 217 (1871).

Accepted name: *Pertya scandens* (Thunb.) Sch. Bip. [Japanese name: Kōya-bōki]

Japonia, Yokohama, 4/16 X 1862, Maximowicz [LE01024447] (Fig. 121, KPM-NX0001686), [LE01024449] (Fig. 122, KPM-NX0001689), [LE01024450] (Fig. 123, KPM-NX0001690), [LE01024451] (Fig. 124, KPM-NX0001692), Japonia, Yokohama, Hakone, 8/20 X 1862, Maximowicz [LE01024456] (Fig. 125, KPM-NX0001696), Japonia, Yokohama, 5/17 XII 1862, Maximowicz [LE01024452] (Fig. 126, KPM-NX0001693), [LE01024454] (Fig. 127, KPM-NX0001694), [LE01024455] (Fig. 128, KPM-NX0001695), in montibus Hakone prope Foudgi-Yama, Japonia, 1864, Tanaka et Yeouchima, no. 85 [LE01024453] (Fig. 126, KPM-NX0001693). Raenko (2004) treated these specimens as syntypes.

Saussurea tanakae Franch. & Sav. ex Maxim. var. ***phyllolepis*** Maxim. in Bull. Acad. Sci. Pétersb. 19: 517 (1874).

Accepted name: *Saussurea tanakae* Franch. & Sav. ex Maxim. [Japanese name: Seitaka-Tōhiren]

Japonia, Nippon media, 1866, Tschonoski [LE01025210] (Fig. 129, KPM-NX0001698). Raenko (2001b) designated this specimen as the lectotype, with an isolectotype [LE01025209] (Fig. 130, KPM-NX0001697).

These specimen labels do not give a detailed locality, but the original description as follows: “Hab. in Nippon: jugo Hakone vel locis finitimis (Tschonoski ! specc. 2 flor.); …”. Therefore, we report them here as from Kanagawa Prefecture.

Senecio krameri Franch. & Sav. in Enum. Pl. Jap. 1, 2: 248 (1875); id., ibid. 2, 2: 406 (1878).

Accepted name: *Syneilesis palmata* (Thunb.) Maxim. [Japanese name: Yabure-gasa]

Yokoska, in silvaticis, 1866–1874, Savatier, no. 663 [LE01042720] (Fig. 131, KPM-NX0001860), Nippon media, circa Yokoska sat frequens, 1866–1874, Savatier, no. 663 [LE01042851] (Fig. 132, KPM-NX0001871). These specimens are syntypes newly pointed out here.

Senecio stenocephalus Maxim. in Bull. Acad. Sci. Pétersb. 16: 218 (1871).

Accepted name: *Ligularia stenoephala* (Maxim.) Matsum. & Koidz. [Japanese name: Me-takara-ko]

Japonia, Nippon, Hakone, 1866, Tschonoski [LE01018425] (Fig. 133, KPM-NX0001670). Raenko (2004) designated this specimen as the holotype, with six isotypes [LE01018422] (Fig. 134, KPM-NX0001673), [LE01018423] (Fig. 135, KPM-NX0001672), [LE01018424] (Fig. 136, KPM-NX0001671), [LE01018426] (Fig. 137, KPM-NX0001669), [LE01018427] (Fig. 138, KPM-

Fig. 103. Lectotype of *Cnicus suffultus* Maxim. var. *incomptus* Maxim. (LE01024423; KPM-NX0001658).

Fig. 104. Isolectotype of *Cnicus suffultus* Maxim. var. *incomptus* Maxim. (LE01024422; KPM-NX0001657).

Fig. 105. Isolectotype of *Cnicus suffultus* Maxim. var. *incomptus* Maxim. (LE01024424; KPM-NX0001656).

Fig. 106. Syntype of *Cnicus suffultus* Maxim. var. *incomptus* Maxim. (LE01024428; KPM-NX0001663).

Fig. 107. Syntype of *Cnicus suffultus* Maxim. var. *incomptus* Maxim. (LE01024429; KPM-NX0001664).

Fig. 108. Syntype of *Cnicus suffultus* Maxim. var. *incomptus* Maxim. (LE01024430; KPM-NX0001665).

Fig. 109. Syntype of *Cnicus suffultus* Maxim. var. *incomptus* Maxim. (LE01024431; KPM-NX0001666).

Fig. 110. Isosyntype of *Cnicus suffultus* Maxim. var. *incomptus* Maxim. (LE01024432; KPM-NX0001667).

Fig. 111. Isosyntype of *Cnicus suffultus* Maxim. var. *incomptus* Maxim. (LE01024425; KPM-NX0001660).

Fig. 112. Lectotype of *Macroclinidium robustum* Maxim. (LE01024460; KPM-NX0001677).

Fig. 113. Isolectotype of *Macroclinidium robustum* Maxim. (LE01024458; KPM-NX0001675).

Fig. 114. Isolectotype of *Macroclinidium robustum* Maxim. (LE01024459; KPM-NX0001676).

Fig. 115. Isolectotype of *Macroclinidium robustum* Maxim. (LE01024461; KPM-NX0001678).

Fig. 116. Isolectotype of *Macroclinidium robustum* Maxim. (LE01024462; KPM-NX0001679).

Fig. 117. Syntypes of *Macroclinidium robustum* Maxim. (LE01024463 & LE01024464; KPM-NX0001680).

Fig. 118. Syntype of *Macroclinidium robustum* Maxim. (LE01024465; KPM-NX0001681).

Fig. 119. Syntype of *Macroclinidium robustum* Maxim. (LE01024466; KPM-NX0001682).

Fig. 120. Syntype of *Macroclinidium robustum* Maxim. (LE01024467; KPM-NX0001683).

Fig. 121. Syntype of *Pertya ovata* Maxim. (LE01024447; KPM-NX0001686).

Fig. 122. Syntype of *Pertya ovata* Maxim. (LE01024449; KPM-NX0001689).

Fig. 123. Syntype of *Pertya ovata* Maxim. (LE01024450; KPM-NX0001690).

Fig. 124. Syntype of *Pertya ovata* Maxim. (LE01024451; KPM-NX0001692).

Fig. 125. Syntype of *Pertya ovata* Maxim. (LE01024456; KPM-NX0001696).

Fig. 126. Syntypes of *Pertya ovata* Maxim. (LE01024452 & LE01024453; KPM-NX0001693).

Fig. 127. Syntype of *Pertya ovata* Maxim. (LE01024454; KPM-NX0001694).

Fig. 128. Syntype of *Pertya ovata* Maxim. (LE01024455; KPM-NX0001695).

Fig. 129. Lectotype of *Saussurea tanakae* Franch. & Sav. ex Maxim. var. *phyllolepis* Maxim. (LE01025210; KPM-NX0001698).

Fig. 130. Isolectotype of *Saussurea tanakae* Franch. & Sav. ex Maxim. var. *phyllolepis* Maxim. (LE01025209; KPM-NX0001697).

Fig. 131. Syntype of *Senecio krameri* Franch. & Sav. (LE01042720; KPM-NX0001860).

Fig. 132. Syntype of *Senecio krameri* Franch. & Sav. (LE01042851; KPM-NX0001871).

Fig. 133. Holotype of *Senecio stenocephalus* Maxim. (LE01018425; KPM-NX0001670).

Fig. 134. Isotype of *Senecio stenocephalus* Maxim. (LE01018422; KPM-NX0001673).

Fig. 135. Isotype of *Senecio stenocephalus* Maxim. (LE01018423; KPM-NX0001672).

Fig. 136. Isotype of *Senecio stenocephalus* Maxim. (LE01018424; KPM-NX0001671).

Fig. 137. Isotype of *Senecio stenocephalus* Maxim. (LE01018426; KPM-NX0001669).

Fig. 138. Isotype of *Senecio stenocephalus* Maxim. (LE01018427; KPM-NX0001668).

Fig. 139. Isotype of *Senecio stenocephalus* Maxim. (LE01018428; KPM-NX0001674).

Fig. 140. Holotype of *Lonicera ramosissima* Franch. & Sav. ex Maxim. (LE01043810; KPM-NX0001709).

NX0001668), [LE01018428] (Fig. 139, KPM-NX0001674).

Adoxaceae

Lonicera ramosissima Franch. & Sav. ex Maxim. in Bull. Acad. Sci. Pétersb. 24: 47 (1877).

Accepted name: *Lonicera ramosissima* Franch. & Sav. ex Maxim. var. *ramosissima* [Japanese name: Ko-uguisu-kagura]

Japonia, 1866–1871, L. Savatier, no. 2888 [LE01043810] (Fig. 140, KPM-NX0001709). Novosselova (2004) treated this specimen as the holotype.

Patrinia palmata Maxim. in Bull. Acad. Sci. Pétersb. 12: 66 (1867).

Accepted name: *Patrinia palmata* Maxim. [Japanese name: Kin-reika]

Japonia, in m. Hakone, in lapidosis montium altissimorum, 18 X/1 XI 1862, Maximowicz [sine num.] [LE01042831] (Fig. 141, KPM-NX0002020). Imkhanitzkaya (2004) treated this specimen as a syntype.

Valeriana flaccidissima Maxim. in Bull. Acad. Sci. Pétersb. 12: 228 (1867).

Accepted name: *Valeriana flaccidissima* Maxim. [Japanese name: Tsuru-kanoko-sō]

Japonia, Yokohama, 10/22 IV 1862, Maximowicz [sine num.] [LE01042834] (Fig. 142, KPM-NX0001723). Imkhanitzkaya (2002) designated this specimen as the lectotype, with an isolectotype [LE01042835] (Fig. 143, KPM-NX0001720).

Japonia, Yokohama, 12/24 IV 1862, Maximowicz [sine num.] [LE01042836] (Fig. 144, KPM-NX0001721), Japonia, Yokohama, 23 IV/5 V 1862, Maximowicz [sine num.] [LE01042837] (Fig. 145, KPM-NX0001722). Imkhanitzkaya (2004) treated these specimens as syntypes.

Viburnum furcatum Blume ex Maxim. in Bull. Acad. Sci. Pétersb. 26: 483 (1880).

Accepted name: *Viburnum furcatum* Blume ex Maxim. [Japanese name: Ō-kame-no-ki]

Japonia, Nippon, Hakone, silvis montanis, 1864, Tschonoski [LE01042818] (Fig. 146, KPM-NX0001702). Novosselova (2004) treated this specimen as a syntype.

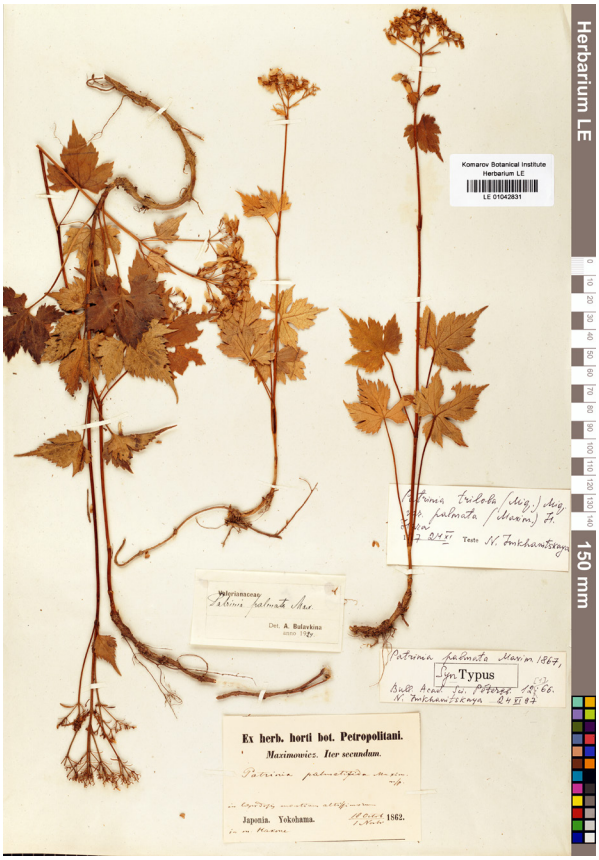

Fig. 141. Syntype of *Patrinia palmata* Maxim. (LE01042831; KPM-NX0002020).

Fig. 142. Lectotype of *Valeriana flaccidissima* Maxim. (LE01042834; KPM-NX0001723).

Fig. 143. IsoLectotype of *Valeriana flaccidissima* Maxim. (LE01042835; KPM-NX0001720).

Fig. 144. Syntype of *Valeriana flaccidissima* Maxim. (LE01042836; KPM-NX0001721).

Araliaceae

Panax repens Maxim. in Bull. Acad. Sci. Pétersb.12: 64 (1867).

Accepted name: *Panax japonicus* (T.Nees) C.A.Mey. var. *japonicus* [Japanese name: Tochiba-ninjin]

Japonia, Yokohama, Hakone, in sylvis Cryptomeriae, 6/18 X 1862, Maximowicz [sine num.] [LE01029603] (Fig. 180, KPM-NX0001731). Krestovskaya (2004) treated this specimen as a syntype.

Apiaceae/Umbelliferae

Angelica florenti Franch. & Sav. ex Maxim. in Bull. Acad. Sci. Pétersb. 19: 274 (1874).

Accepted name: *Ostericum florenti* (Franch. & Sav. ex Maxim.) Kitag. [Japanese name: Miyama-ninjin]

Japonia, in rupestr. umbrosis montium Hakone (Nippon), 30 VIII 1871, L. Savatier, no. 495 [LE01029685] (Fig. 147, KPM-NX0001799). V. Grubov designated this specimen as the lectotype in Vinogradova (2004).

Angelica hakonensis Maxim. in Bull. Acad. Sci. Pétersb. 19: 277 (1874).

Accepted name: *Angelica hakonensis* Maxim. [Japanese name: Iwa-ninjin]

Japonia, Yokohama, Hakone, 18/30X 1862, Maximowicz [sine num.] [LE01029703] (Fig. 148, KPM-NX0001746). V. Grubov designated this specimen as the lectotype in Vinogradova (2004) with two isolectotypes [LE01042667] (Fig. 149, KPM-NX0001748), [LE01029705] (Fig. 150, KPM-NX0001747).

Japonia, Yokohama, Hakone, 4/16X 1862, Maximowicz [sine num.] [LE01029704] (Fig. 151, KPM-NX0001745). Vinogradova (2004) treated this specimen as a syntype.

Angelica inaequalis Maxim. in Bull. Acad. Sci. Pétersb. 19: 184 (1874).

Accepted name: *Angelica inaequalis* Maxim. [Japanese name: Hanabi-zeri]

Japonia, Yokohama, Hakone, 18/30 X 1862, Maximowicz [sine num.] [LE01029710] (Fig. 152, KPM-NX0001750). Vinogradova (2004) treated this specimen as the holotype, with four isotypes [LE01029707] (Fig. 153, KPM-NX0001749), [E01029708] (Fig. 154, KPM-NX0001752), [LE01029709] (Fig. 155, KPM-NX0001751), [LE01029711] (Fig. 156, KPM-NX0001753).

Angelica miqueliana Maxim. in Bull. Acad. Sci. Pétersb. 19: 276 (1874).

Accepted name: *Ostericum sieboldii* (Miq.) Nakai [Japanese name: Yama-zeri]

Japonia, Yokohama, 8/20 X 1862, Maximowicz [sine num.] [LE01029723] (Fig. 157, KPM-NX0001825). V. Grubov designated this specimen as the lectotype in Vinogradova (2004), with an isolectotype [LE01029724] (Fig. 158, KPM-NX0001826).

Japonia, Yokohama, Hakone, X 1862, Maximowicz [sine num.] [LE01029715] (Fig. 159, KPM-NX0001805). Vinogradova (2004) treated this specimen as a syntype, with two isosyntypes [LE01029716] (Fig.160, KPM-NX0001804), [LE01029717] (Fig. 161, KPM-NX0001803).

Japonia, Yokohama 10/22 IX 1862 Maximowicz [sine num.] [LE01029731] (Fig. 162, KPM-NX0001816), Vinogradova (2004) treated this specimen as a syntype, with seven isosyntypes [LE01029726] (Fig. 163, KPM-NX0001811), [LE01029727] (Fig. 164, KPM-NX0001812), [LE01029728] (Fig. 165, KPM-NX0001813), [LE01029729] (Fig. 166, KPM-NX0001814), [LE01029730] (Fig. 167, KPM-NX0001815), [LE01042785] (Fig. 168, KPM-NX0001817), [LE01029734] (Fig. 169, KPM-NX0001818).

Angelica polymorpha Maxim. in Bull. Acad. Sci. Pétersb. 19: 185 (1874).

Accepted name: *Angelica polymorpha* Maxim. [Japanese name: Shirane-senkyū]

Japonia, Yokohama, Hakone, in silvis acerosis, 18/30 X 1862, Maximowicz, no. 1925 [LE01029755] (Fig.170, KPM-NX0001777), [LE01029756] (Fig. 171, KPM-NX0001778), [LE01042663] (Fig. 172, KPM-NX0001795), [LE01042666] (Fig. 173, KPM-NX0001798). Vinogradova (2004) treated these specimens as syntypes, with two isosyntypes [LE01042664] (Fig.174, KPM-NX0001796), [LE01042665] (Fig. 175, KPM-NX0001797). We identified these three specimens [LE01029755] (Fig. 170, KPM-NX0001777), [LE01042663] (Fig. 172, KPM-NX0001795), [LE01029756] (Fig. 175, KPM-NX0001778) of these as *Angelica hakonensis* Maxim.

Angelica pubescens Maxim. in Bull. Acad. Sci. Pétersb. 24: 34 (1877).

Accepted name: *Angelica pubescens* Maxim. var. *pubescens* [Japanese name: Shishi-udo]

Fig. 145. Syntype of *Valeriana flaccidissima* Maxim. (LE01042837; KPM-NX0001722).

Fig. 146. Syntype of *Valeriana flaccidissima*m Blume ex Maxim. (LE01042818; KPM-NX0001702).

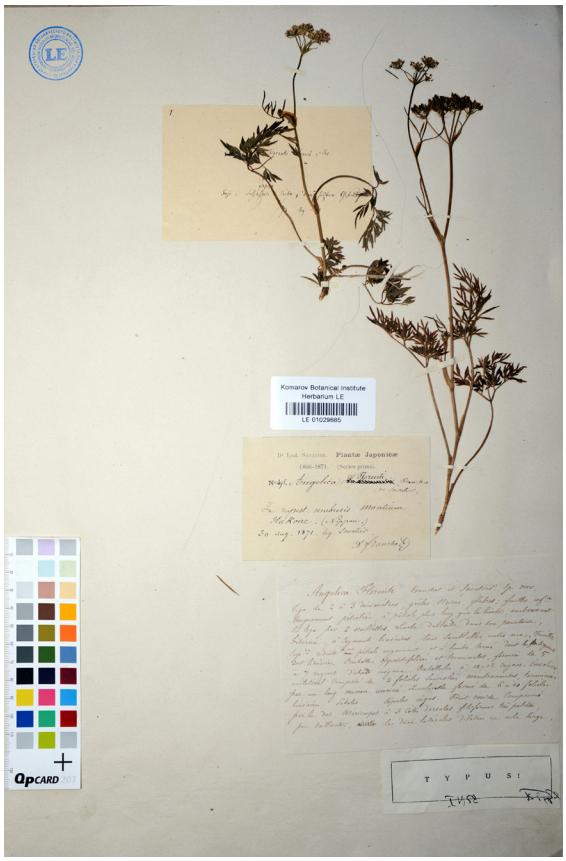

Fig. 147. Lectotype of *Angelica florentii* Franch. & Sav. (LE01029685; KPM-NX0001799).

Fig. 148. Lectotype of *Angelica hakonensis* Maxim. (LE01029703; KPM-NX0001746).

Fig. 149. Isolectotype of *Angelica hakonensis* Maxim. (LE01042667; KPM-NX0001748).

Fig. 150. Isolectotype of *Angelica hakonensis* Maxim. (LE01029705; KPM-NX0001747).

Fig. 151. Syntype of *Angelica hakonensis* Maxim. (LE01029704; KPM-NX0001745).

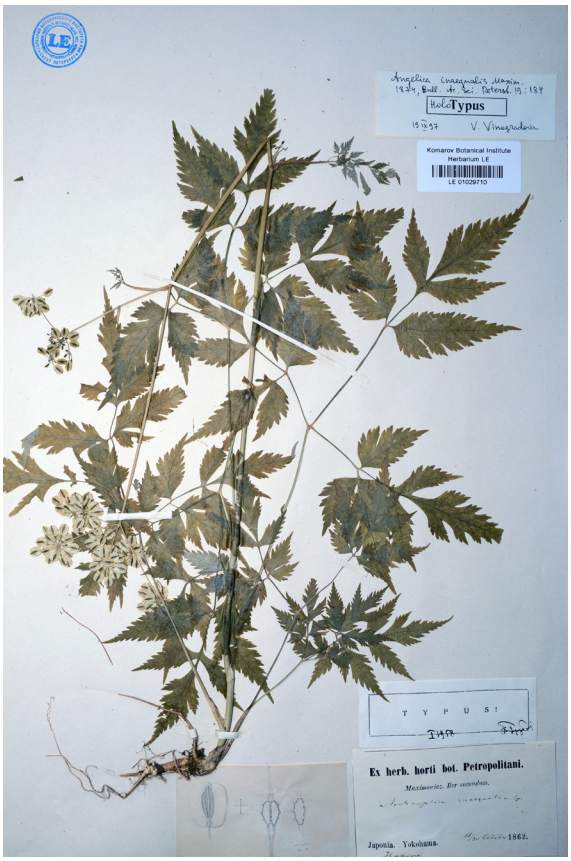

Fig. 152. Holotype of *Angelica inaequalis* Maxim. (LE01029710; KPM-NX0001750).

Fig. 153. Isotype of *Angelica inaequalis* Maxim. (LE01029707; KPM-NX0001749).

Fig. 154. Isotype of *Angelica inaequalis* Maxim. (LE01029708; KPM-NX0001752).

Fig. 155. Isotype of *Angelica inaequalis* Maxim. (LE01029709; KPM-NX0001751).

Fig. 156. Isotype of *Angelica inaequalis* Maxim. (LE01029711; KPM-NX0001753).

Fig. 157. Lectotype of *Angelica miqueliana* Maxim. (LE01029723; KPM-NX0001825).

Fig. 158. Isolectotype of *Angelica miqueliana* Maxim. (LE01029724; KPM-NX0001826).

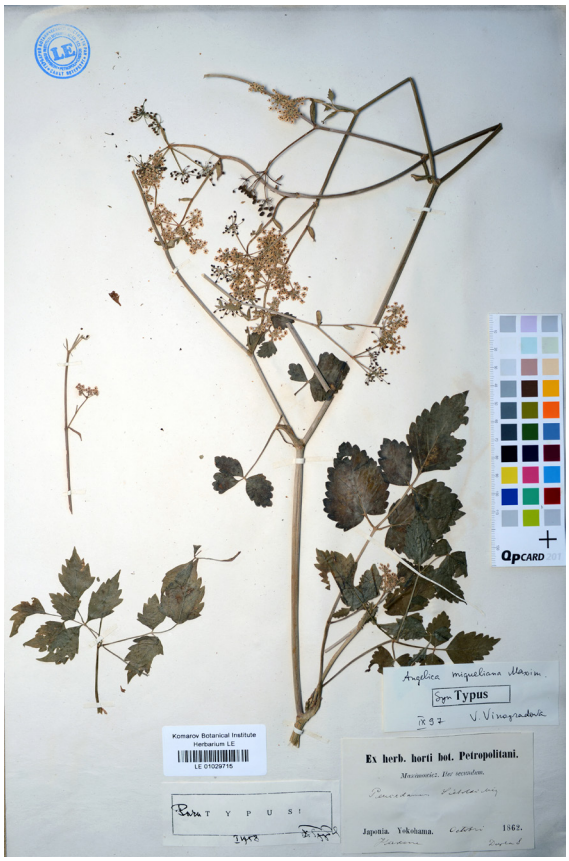

Fig. 159. Syntype of *Angelica miqueliana* Maxim. (LE01029715; KPM-NX0001805).

Fig. 160. Isosyntype of *Angelica miqueliana* Maxim. (LE01029716; KPM-NX0001804).

Fig. 161. Isosyntype of *Angelica miqueliana* Maxim. (LE01029717; KPM-NX0001803).

Fig. 162. Syntype of *Angelica miqueliana* Maxim. (LE01029731; KPM-NX0001816).

Fig. 163. Isosyntype of *Angelica miqueliana* Maxim. (LE01029726; KPM-NX0001811).

Fig. 164. Isosyntype of *Angelica miqueliana* Maxim. (LE01029727; KPM-NX0001812).

Fig. 165. Isosyntype of *Angelica miqueliana* Maxim. (LE01029728; KPM-NX0001813).

Fig. 166. Isosyntype of *Angelica miqueliana* Maxim. (LE01029729; KPM-NX0001814).

Fig. 167. Isosyntype of *Angelica miqueliana* Maxim. (LE01029730; KPM-NX0001815).

Fig. 168. Isosyntype of *Angelica miqueliana* Maxim. (LE01042785; KPM-NX0001817).

Fig. 169. Isosyntype of *Angelica miqueliana* Maxim. (LE01029734; KPM-NX0001818).

Fig. 170. Syntype of *Angelica polymorpha* Maxim. (LE01029755; KPM-NX0001777). It is identified *Angelica hakonensis* in this study.

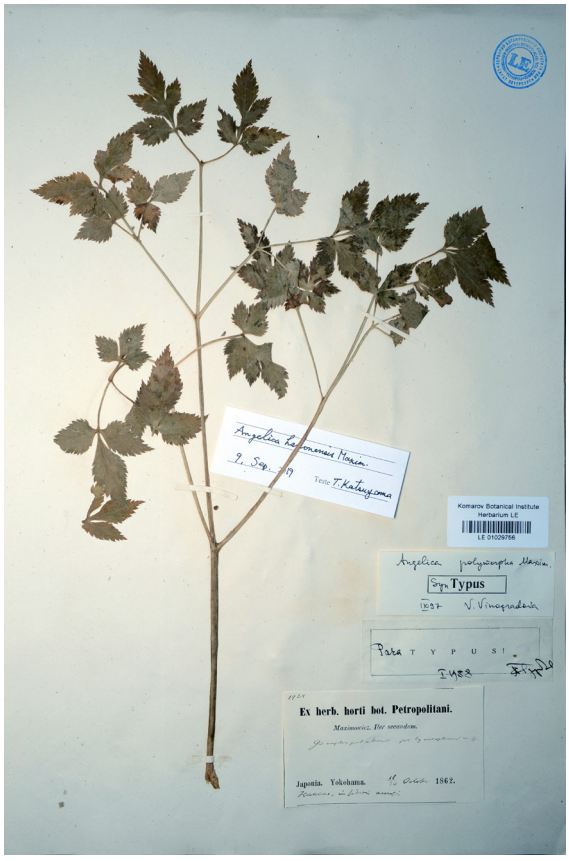

Fig. 171. Syntype of *Angelica polymorpha* Maxim. (LE01029756; KPM-NX0001778). It is identified *Angelica hakonensis* in this study.

Fig. 172. Syntype of *Angelica polymorpha* Maxim. (LE01042663; KPM-NX0001795). It is identified *Angelica hakonensis* in this study.

Fig. 173. Syntype of *Angelica polymorpha* Maxim. (LE01042666; KPM-NX0001798).

Fig. 174. Isosyntype of *Angelica polymorpha* Maxim. (LE01042664; KPM-NX0001796).

Fig. 175. Isosyntype of *Angelica polymorpha* Maxim. (LE01042665; KPM-NX0001797).

Fig. 176. Lectotype of *Angelica pubescens* Maxim. (LE01029760; KPM-NX0001768).

Fig. 177. Isolectotype of *Angelica pubescens* Maxim. (LE01029758; KPM-NX0001766).

Fig. 178. Isolectotype of *Angelica pubescens* Maxim. (LE01029759; KPM-NX0001765).

Fig. 179. Isolectotype of *Angelica pubescens* Maxim. (LE01029757; KPM-NX0001767).

Fig. 180. Syntype of *Panax repens* Maxim. (LE01029603; KPM-NX0001731).

Fig. 181. Syntype of *Pimpinella calycina* Maxim. (LE01029657; KPM-NX0001781).

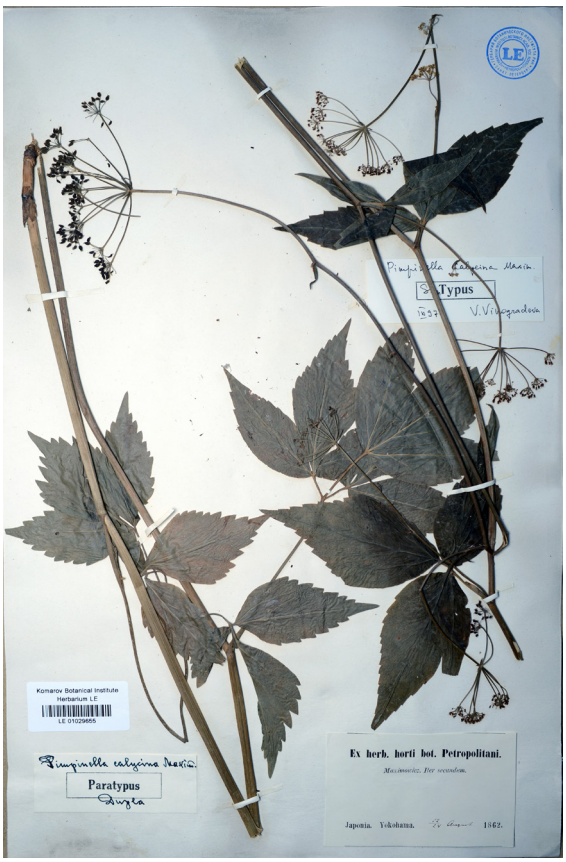

Fig. 182. Isosyntype of *Pimpinella calycina* Maxim. (LE01029655; KPM-NX0001779).

Fig. 183. Isosyntype of *Pimpinella calycina* Maxim. (LE01029656; KPM-NX0001780).

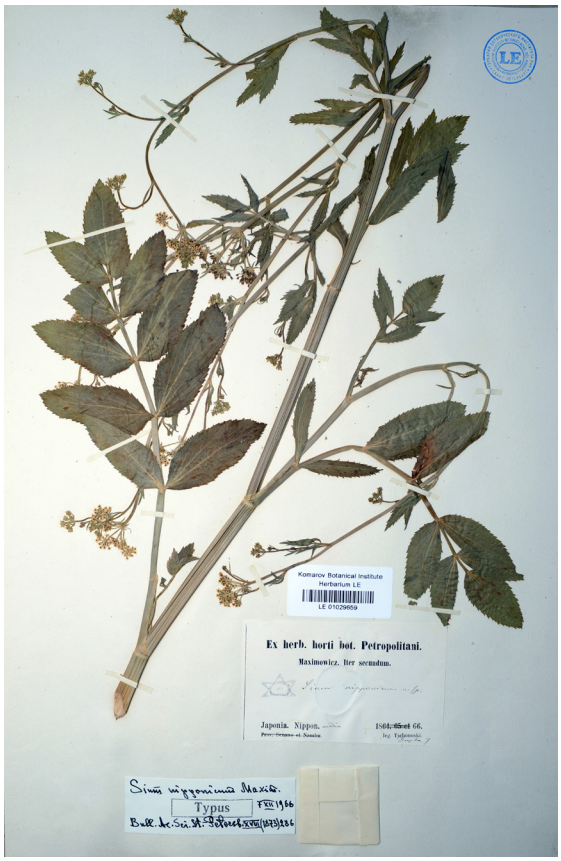

Fig. 184. Lectotype of *Sium nipponicum* Maxim. (LE01029659; KPM-NX0001827).

Fig. 185. Isolectotype of *Sium nipponicum* Maxim. (LE01029660; KPM-NX0001828).

Fig. 186. Isolectotype of *Sium nipponicum* Maxim. (LE01029661; KPM-NX0001829).

Japonia, Yokohama, 20 VII/1 VIII 1862, Maximowicz [sine num.] [LE01029760] (Fig. 176, KPM-NX0001768). Vinogradova (2004) designated this specimen as the lectotype, with three isolectotypes [LE01029758] (Fig. 177, KPM-NX0001766), [sine num.] [LE01029759] (Fig. 178, KPM-NX0001765), [LE01029757] (Fig. 179, KPM-NX0001767).

Pimpinella calycina Maxim. in Bull. Acad. Sci. Pétersb. 19: 182 (1873).

Accepted name: *Spuriopimpinella calycina* (Maxim.) Kitag. [Japanese name: Kanotsume-sō]

Japonia, Yokohama, in silvis montanis, 12/24 VIII 1862, Maximowicz [sine num.] [LE01029657] (Fig. 181, KPM-NX0001781). Vinogradova (2004) treated this specimen as a syntype, with two isosyntypes [LE01029655] (Fig. 182, KPM-NX0001779), [LE01029656] (Fig. 183, KPM-NX0001780).

Sium nipponicum Maxim. in Bull. Acad. Sci. Pétersb. 18: 286 (1873).

Accepted name: *Sium suave* Walter var. *nipponicum* (Maxim.) H.Hara [Japanese name: Numa-zeri]

Japonia, Nippon, 1866, Tschonoski [sine num.] [LE01029659] (Fig. 184, KPM-NX0001827). Vinogradova (2004) designated this specimen as the lectotype, with three isolectotypes [LE01029660] (Fig.185, KPM-NX0001828), [LE01029661] (Fig. 186, KPM-NX0001829), [LE01029662] (Fig. 187, KPM-NX0001830).

These specimen labels do not give a detailed locality, but the original description as follows: “Hab. in Nippon media, probabiliter non procul a Yokohama, unde florens et semina seorsim misit Tschonoski”. Therefore, we report them here as from Kanagawa Prefecture.

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Fig. 187. Isolectotype of *Sium nipponicum* Maxim. (LE01029662; KPM-NX0001830).

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摘　要

田中徳久・アリサ グラボスカヤ - ボロディナ・勝山輝男・福田知子・大西　亘 , 2025. コマロフ植物研究所の神奈川県産被子植物（双子葉類）の基準標本と関連標本. 神奈川県立博物館研究報告（自然科学）, (54): 9–69. [Tanaka, N., A. Grabovskaya-Borodina, T. Katsuyama, T. Fukuda & W. Ohnishi, 2025. Plant Type Materials from Kanagawa Prefecture (Japan) in the Herbarium of the Komarov Botanical Institute (LE; Russia): Angiosperms (Dicots). Bull. Kanagawa Pref. Mus. (Nat. Sci.), (54): 9–69.]

コマロフ植物研究所（LE；ロシア科学アカデミー）に収蔵されている神奈川県が基準産地とされるタイプとその関連の維管束植物標本を調査した。これらの大部分は、ロシアの植物学者であるマキシモヴィッチと助手の須川長之助により採集され、マキシモヴィッチにより記載された。ここでは、被子植物（双子葉植物の大部分）69 分類群 196 点のタイプとその関連標本について報告した。このうち、ホザキノフサモ *Myriophyllum spicatum* L. var. *muricatum* Maxim. やトキリマメ *Rhynchosia volubilis* Lour. var. *acuminata* Maxim.、ヤマミズ *Achudemia japonica* Maxim.、ウワバミソウ *Elatostema umbellatum* Blume var. *majus* Maxim、ゴキヅル *Actinostemma lobatum* (Maxim.) Franch. & Sav. var. *japonicum* Maxim. ex Franch. & Sav.、クリンユキフデ *Polygonum suffultum* Maxim., *Stellaria monosperma* Buch.-Ham. var. *japonica* Maxim.、ベニドウダン *Andromeda cernua* (Siebold & Zucc.) Miq. var. *rubens* Maxim、リュウキュウツツジ *Rhododendron ledifolium* G. Don var. *purpureum* Maxim.、イヨカズラ *Vincetoxicum japonicum* (C.Morren & Decne.) Decne. var. *grayanum* Maxim、トウテイラン *Veronica ornata* Monjuschko、ツルカコソウ *Ajuga genevensis* L. var. *pallescens* Maxim.、ヤブレガサ *Senecio krameri* Franch. & Sav. のタイプ関連標本は初めての報告である。