

2. Pileus green; stipe white to yellowish f. *viscosa*.
3. Pileus olivaceous or green; stipe yellow-orange to orange
f. *aurantipes*.
4. Pileus dull orange-yellow; stipe greenish f. *anthocephala*.
5. Plants entirely greenish or olivaceous f. *Stevensoni*.
6. Plants greenish or green, ramoso-lobate f. *portentosa*.
7. Plants entirely green f. *chlorosoma*.

II. Plants small, less than about 1.5 cm. in length.

8. Plants entirely yellowish-ochraceous or ochraceous
f. *minima*.
9. Plants entirely greenish or green f. *atrovirens*.

Botanical Institute, Faculty of Agriculture,
Hokkaido Imperial University, Sapporo, Japan.

Studia Orchidacearum Japonicarum. VIII.

Orchidaceae Formosae et Insulae Kôtô-syo Novae Atque Criticae. auctore

Noriaki Fukuyama.

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66) **Gastrochilus quercetorum** FUKUYAMA, sp. nov.

Epiphyticus, longe adpresse prostratus, radicibus e caule emittentibus filiformibus flexuosis teretibus $\frac{1}{2}$ -1 mm diametentibus glabris, caulibus 10-25 cm. longis 1.5-2 mm. diametentibus laxiuscule foliatis cum vaginis foliorum toto facie obtectis glabris.

Folia patentia, alterna, disticha, elliptica, interdum longe elliptica, apice oblique brevique acuta, basi contracta, in petiolos perbreves abeuntia, 1-2 cm. longa, medio 6-8 mm. lata, crassa, supra medio leviter unisulcata, subtus convexa, utrinque sparse purpureo-punctata vel purpureo-maculata, glabrata.

Racemus lateralis, 1-2-floratus, breviter pedunculatus, pedunculis rectiusculis c. 5 mm. longis glabris pauci-vaginulatis, vaginulis inferioribus tubiformibus ore truncatis sursum sensim in bracteas decrescentibus, bracteis minutis triangulatis acutis glabratibus.

Flores apertientes, flavescens, rubro-fusco-maculati, inter apices sepalorum intermediorum et fundos saccorum c. 1.3-1.5 cm. diametentes, pedicellis rectis bracteas multo superantibus c. 1 cm. longis glabris. Sepala crassa, patentia, glabra, sepalo intermedio elliptico-obovato apic rotundato basin versus plus minusve attenuato c. 5 mm. longo supra medium 3.5 mm.

lato, sepalis lateralibus oblongis paullo obliquis apice obtusis ad basin paullo contractis c. 6 mm. longis medio 3 mm. latis. Petala obovata, paullo obliqua, apice rotundata, basi contracta, c. 6 mm. longa, medio $3\frac{1}{3}$ mm. lata, crassa, glabra.

Labellum ad basin columnae sessile, hypochilio saccatum, sacco oblongo-hemisphaerico paullo complanato apice rotundato c. 6 mm. alto flavescente intus et extus glabro, epichilio semiorbiculato vel triangulato-semiorbiculato apice rotundato-obtuso basi truncato margine integro c. 4 mm. longo basi 7 mm. lato supra ad medium callo instructo ad callum puberulo subtus glabro. Columna brevis, crassa.

Nom. Jap. Kirigakure-kintyaku-ran (nov.).

Hab. Formosa: praef. Takao, Naihonroku-goe, in *Quercetis* prope Hudi-eda, c. 1500 m. alt. (N. FUKUYAMA! Oct. 24, 1934. no. 4720. Typus in Herb. Orch. Fuk.).

67) **Habenaria linearipetala** HAYATA, Icon. Pl. Form. IV. (1914) p. 126, Pl. XXIII; Schlechter, Orch. Sino-Jap. Prodr. (1919) p. 131.

Nom. Jap. Nagaba-sagisô.

Hab. Formosa; insl. Kôtô-syo, in pluvisilvis prope Imaururu, c. 200 m. alt. (N. FUKUYAMA! Nov. 20, 1934. no. 4833, 4834).

Distrib. Formosa, Insl. Kôtô-syo.

68) **Disperis orientalis** FUKUYAMA, sp. nov.

Terrestris, erecta, pusilla, c. 8 cm. alta, tuberibus parvulis ovoideis vel oblongoideis pilosis. Caulis strictus, simplex, carnosulus, teres, superiore paullo angulatus, basi vagina 1 breve acuta arete amplectente praeditus, medio remote bifolius, foliis sursum sensim in bracteas decrescentibus.

Folia erecto-patentia, orbiculato-ovata vel ovata, apice acuta, basi cordato-amplexicaulia, 10–12 mm. longa, infra medium 8–10 mm. lata, membranacea, utrinque glabra, venoso-nervosa.

Racemus erectus, laxe circ. 3-floratus, bracteis foliaceis ovatis acutis sursum sensim minoribus. Flores lilacini, apertientes, pedicellis cum ovariis rectis glabris leviter angulatis bracteas longitudine duplo superantibus c. 10–14 mm. longis. Sepalum intermedium cum petalis in galeam connivens, lanceolatum, apice acutum, c. 6 mm. longum, membranaceum, glabrum, trinervatum; sepala lateralia obliqua, falcato-ovata, apice acuta, basi paullo attenuata, infra medium in saccum brevem obtusum producta, c. 6 mm. longa, membranacea, glabra, trinervata. Petala oblongo-lanceolata, obliqua, concava, apice acutiuscula, basi contracta, margine exteriori undulata, cum sepalo intermedio subaequilonga, membranacea, glabra, trinervata.

Labellum dimidium petalorum paullo superans, cum columna adnatum, apice tripartitum, partibus lateralibus patentibus vix $2\frac{1}{2}$ mm. longis line-