

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.*

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Studia Orchidacearum Japonicarum. VIII.

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

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66) **Gastrochilus quercetorum** FUKUYAMA, SP. NOV.

Epiphyticus, longe adpresso 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 breveque 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 glabratis.

Flores apertientes, flavescences, rubro-fusco-maculati, inter apices sepalorum intermediarum 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.

The genus is new to the flora of Japan.

71) **Pristiglottis integra** FUKUYAMA, sp. nov.

Terrestris, erecta, c. 20 cm. alta, rhizomate decumbente cauliformi tereti carnosio ad nodos radicante, radicibus brevibus vermiformibus dense breveque pilosis. Caulis simplex, erectus, teres, glaber, viridis, medio in exsiccatō c. 3 mm. diametens, supra basin ad medium sublaxe 2-6-foliatus.

Folia patentia, ovata, apice acuta, basi rotundata, subito ad petiolum abeuntia, lamina 2-5 cm. longa, supra basin 1.5-2.2 cm. lata, margine integra, supra viridia, subtus pallidiora, utrinque glabra, membranacea, multi-nervata, petiolis 1-1.5 cm. longis glabris basi dilatatis vaginiformibusque.

Scapus strictus, inferiore sparse superiore subdense pilosus, paucisquamatus, squamis distantibus ovato-lanceolatis sensim in bracteas decrescentibus, bracteis lanceolatis pedicellos longitudine subexcedentibus margine ciliatis extus pilosis membranaceis uninervatis.

Flores 5-10, in apice scapi subdense racemosi, albidī, pilosī, pedicellis rectis c. 5 mm. longis pilosis. Sepalum intermedium oblongo-ovatum, concavum, apice obtusum, basi vix contractum, 4-4.5 mm. longum, supra basin 1½-2 mm. latum, extus pilosum, membranaceum, uninervatum; sepala lateralia falcato-oblonga, apice obtusiuscula, ad basin haud contracta, basi in saccum brevem obtusum connata, c. 6 mm. longa, medio 2 mm. lata, extus pilosa, membranacea, uninervata. Petala cum sepalo intermedio in galeam cohaerentia, dimidio inferiore oblique quadrangulato-obovata, medio subito contracta, dimidio superiore caudato-linearia, ad summam acuta, basi contracta, latere superiore truncata, c. 4 mm. longa, medio 1½-2 mm. lata, utrinque glabra, membranacea, uninervata.

Labellum quam sepala paullo longius, c. 8 mm. longum, unguiculatum, canaliculatum, margine integrum, glabrum, basi cucullato-saccatum intus callosumque, infra apicem abrupte in limbo integro subquadrangulato antice subbilobato-emarginato c. 4 mm. longo 6 mm. lato expansum. Columna brevis, rectiuscula, apice in rostellum acuminato-subbifidum attenuata, sub stigmatē bilamellatum, stigmatē indiviso. Anthera cordiformis, bilocularis.

Nom. Jap. Kamome-tasiro-ran (nov.).

Hab. Formosa; insl. Kōtō-syo, in pluviisilvis inter I'yayu et summum montem Kōtō-zan, c. 400 m. alt. (N. FUKUYAMA! Aug. 3, 1934, no. 4779. Typus in Herb. Orch. Fuk.)

72) **Zeuxine odorata** FUKUYAMA, sp. nov.

Terrestris, erecta, c. 30-50 cm. alta, rhizomate decumbente cauliformi tereti c. 6 mm. diametente carnosio ad nodos radicante, radicibus longius-