

Studia Orchidacearum Japonicarum IV*

Orchidaceae Formosanae Novae Atque Criticae

auctore

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32) *Orchis taiwanensis* FUKUYAMA, sp. nov.

Terrestris, gracilis, erecta vel stricta, glaberrima, 7-18 cm. alta, tuberculis pilosiusculis globosis vel ovoideis ellipsoideisve. Caulis plerumque remote bifolius interdum trifolius, basi 1-2-vaginatus, vaginis membranaceis apice acutis obtusisve caulem arcte amplectentibus.

Folia erecto-patentia, linearia vel lanceolato-linearia lanceolatae, in exsiccato chartacea, apice acuta vel acuminata, basi foliis superioribus abrupte contracta vel gradatim attenuata et caulibus articulata, basi foliis inferioribus in vaginam decurrentia et amplectentia, c. 3.5-9 cm. longa, medio 4-15 mm. lata, utrinque glabra, trinervata.

Racemus terminalis, suberectus, secundus, 2-5 cm. longus, laxiuscule 3-11-floratus, bracteis lanceolatis apice acuminatis basi contractis utrinque glabris c. 1-1.5 cm. longis superioribus sensim brevioribus.

Flores rosei, apertientes, pedicellis rectis glabris bracteis subaequilongis raro duplo longioribus. Sepalum intermedium ellipticum, apice obtusiusculum, ad basin angustatum, concavum, dorso medio costa prominens, membranaceum, c. 5 mm. longum, medio 2.5 mm. latum, utrinque glabrum, uninervatum. Sepala lateralia posteriore valde reflexa, oblique oblonga vel ovato-oblonga, latere superiore lente truncata, apice obtusiuscula, basi paullo contracta, margine superiore leviter revoluta, dorso medio costis prominentia, c. 5-6 mm. longa, infra medium 3-3.5 mm. lata, utrinque glabra, uninervata. Petala cum sepalo intermedio in galeam conniventia, oblique oblonga, apice obtusa, basi contracta, margine lente irregulariter undulata, membranacea, sepalis paullo minora, medio c. 2.5 mm. lata, utrinque glabra, uninervata.

Labellum sessile, erecto-patens, circuitu semi-orbiculatum vel ovato-orbiculatum, c. 1 cm. longum, inter apices loborum lateralium c. 1.1 cm. latum, supra minutissime pilosiusculum, basi truncatum vel obtusum, medio leviter vel manifeste trilobatum, lobis lateralibus oblique oblongis vel

* Continued from Bot. Mag. (Tokyo). 48 (1935), p. 442.

Hab. Formosa; praef. Haihoku, in laurisolvis monte Shooagyoku-san, (N. FUKUYAMA! Aug. 1933, no. 4543. Typus in Herb. Orch. Fuk.)

This species was collected on the leafless branch of *Ficus Harlandi* BENTH. near Agyoku in the northern part of Formosa and was brought back to the Taihoku Botanical Garden where it flowered, in Dec. 1933.

39) **Oreorchis Ohwii** FUKUYAMA, sp. nov.

Terrestris, erecta, gracillima, c. 30 cm. alta, pseudobulbis globoso-ovoideis basi rotundatis c. 1–1.5 cm. altis carnosis, radicibus elongatis filiformibus flexuosis seriseo-pilosis.

Folia in apice pseudobulbi sita, solitaria vel duo, linearia, apice acuminata, basi in petiolum angustissimum abeuntia, c. 30 cm. longa, medio c. 7 mm. lata, in exsiccato membranacea, utrinque glabra, multinervata.

Scapi e nodis superioribus pseudobulborum oriundi, simplices, stricti, teretes, glabri, quam folia paullo breviores, cum racemo c. 20–28 cm. longi, supra basin c. 2 mm. in diametro, remote 2-vaginati, vaginis 2–5 cm. longis caulem complete amplectentibus apice breve acutis glabris, racemo florifero usque ad 5 cm. longo dense multiflorato, bracteis minutis ovato-lanceolatis acuminatis c. 3 mm. longis utrinque glabris.

Flores patentes, pedicellis cum ovariis c. 8 mm. longis rectis gracillimis. Sepala aequilonga, utrinque glabra, 5-nervata, sepalo intermedio oblongo vel oblongo-lanceolato apice acuto basi attenuato c. 5 mm. longo infra medium 2 mm. lato, sepalis lateralibus oblongis leviter falcato-obliquis apice acutis basi paullo contractis media c. 2 mm. latis. Petala oblanceolata, apice acuta, ad basin sensim attenuata, sepalis aequilonga, sed angustiora, supra medium c. 1.5 mm. lata, utrinque glabra, 3–5-nervata.

Labellum glabrum, c. 4 mm. longum, basi unguiculatum, supra basin trilobatum, lobis lateralibus oblanceolatis acutis vel acutiusculis 1.5–2 mm. longis, lobo intermedio obtriangulato vel cuneato-obovato apice truncato-rotundato margine anteriore crispo c. 3 mm. longo apice 3 mm. lato e basi loborum lateralium sursum infra medium appendiculis unis lamellatis 1 mm. longis $\frac{1}{3}$ mm. altis supra unisulcatis instructo. Columna erecta, c. 2.5 mm. longa, glabra. Pollinia 4, globosa, distincta, inappendiculata.

Nom. Jap. Yasagata-kokeiran (nov.)

Hab. Formosa; praef. Taihoku, in silvis monte Nanko-taizan, (J. OHWI! Jun. 1, 1933. no. 4547. Typus in Herb. Orch. FUK.)

40) **Calanthe dolichopoda** FUKUYAMA, sp. nov.

Terrestris, caulescens, erecta, c. 40–60 cm. alta, rhizomate valde abbreviato, radicibus teretibus filiformibus leviter flexuosis puberulis rugulosis. Caulis ad apicem foliatus, elongatus, teres, viridis, carnosus, glaber, c. 40

cm. longus, medio vivo c. 6 mm. in diametro, nodosus, ad nodos vaginatus, vaginis caulem amplectentibus membranaceis scariosis nervosis.

Folia c. 5, oblongo-oblancoolata vel longe elliptica, apice acuminata, basi in petiolos vaginatos c. 5 mm. longos sensim angustata, vulgo scapos superantia, c. 20–25 cm. longa, supra medium c. 5 cm. lata, sicco leviter plicata, chartacea, utrinque glabra, subtus prominente 3–5-nervata, inter nervos multivenulosa.

Scapus a nodis caulium emergens, gracilis, strictus, teres, simplex, brevissime albo-puberulus, c. 20–30 cm. longus, remote pauci-vaginat, vaginis apice subacutis amplectentibus glabris nervosis inferioribus minoribus, racemo florifero c. 10 cm. longo laxiuscule florato, bracteis caducis mihi nondum notis.

Flores albescentes, paullo nutantes, campanulato-subapertientes, pedicellis cum ovariis paullo defflexis ad basin gracilibus apicem versus dilatatis c. 1.5–2 cm. longis brevissime puberulis. Sepalum intermedium ovato-lanceolatum, apice acuminatum, basi contractum, vix 1 cm. longum, infra medium 3½ mm. latum, extus perbreve puberulum, intus glabrum, membranaceum, 3–5-nervatum, sepalis lateralibus intermedio similibus sed plus minusve obliquis. Petala obovato-oblonga, apice apiculata, ad basin angustata, sepalis vix breviora, supra medium c. 3.5 mm. lata, perbreve puberula, membranacea, trinervata.

Labellum glabrum, c. 7 mm. longum, ecalcaratum, ad basin concavulum, basi angustatum et columnae basi adnatum, e basi sursum prope apicem bilamellatum, infra medium trilobatum, lobis lateralibus oblique oblongis apice obtusissimis et interdum irregulariter denticulatis latere exteriore c. 3 mm. longis medio c. 1 mm. latis, lobo intermedio lateralibus longiore c. 4 mm. longo medio c. 2 mm. lato infra apicem abrupte reniforme dilatato apice retuso margine valde undulato. Columna recta, crassa, semiteres, c. 3 mm. longa. Anthera quadrangulato-ocullata.

Nom. Jap. Seitaka-ebine (nov.)

Hab. Formosa; praef. Taihoku, in silvis laurilignosis monte Daitoozan prope Shinten, (N. Fukuyama! Nov. 10, 1933. no. 4536. Typus in Herb. Orch. Fuk.)

The present species is near to *Calanthe gracilis* LDL., *C. venusta* SCHLECHTER and *C. koochunensis* FUKUYAMA; but it does not accord with neither in the floral characters.

(To be continued)

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