

# Studia Orchidacearum Japonicarum VI\*

Orchidaceae Formosae Et Insulae Kôtôsyô Novae Atque Criticae

auctore

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48) **Orchis Kunihikoana** MASAMUNE et FUKUYAMA, sp. nov.

*Orchis kiraishiensis* HAYATA form. *leucantha* MASAMUNE, in Journ. Trop. Agr. Taihoku Imp. Univ. III. (1931) p. 246.

*Orchis kiraishiensis* HAYATA var. *leucantha* MASAMUNE, in Trop. Hort. III. (1933) p. 45.

Terrestris, erecta, glaberrima, c. 10 cm. alta, tuberibus ovoideis 5-10 mm. longis pilosiusculis, radicibus paucis brevibus filiformibus flexuosis puberulis. Caulis tenuis, teres, strictus vel plus minusve flexuosus, glaber. ad medium subconferte vel remote bifolius, interdum unifolius, dimidio inferiore paucivaginatus, vaginis membranaceis glabris caulem complete amplectentibus apice truncatis vel obtusis acutisve.

Folia suberecta, patentia, oblanceolata vel lineari-oblonga vel lanceolata, apice acuta vel breve acuta, basi longe decurrentia et vaginantia, lamina 3-4 cm. longa, medio 5-10 mm. lata, margine integra, in exsiccato membranacea, utrinque glabra.

Flores 2-5, in apice caulis subdense racemosi, subsecundi, albescentes, bracteis foliaceis lanceolatis apice acuminatis basi paullo contractis utrinque glabris florem paullo vel diplo superantibus, pedicellis cum ovariis c. 5-10 mm. longis rectis glabris apice basiue contractis. Sepalum intermedium concavulum, oblongum, apice acutiusculum, basi vix contractum, margine integrum, c. 6.5 mm. longum, medio 2.5 mm. latum, glabrum, membranaceum, trinervatum; sepala lateralia erecto-patentia, ovato-oblonga, obliqua, latere superiore truncata, apice acutiuscula vel apiculata, basi inaequilaterale contracta, c. 8 mm. longa, infra medium 3.5 mm. lata, glabra, membranacea, trinervata. Petala cum sepalo intermedio in galeam conniventia, ovato-oblonga, valde obliqua, apice obtusiuscula, basi vix inaequilaterale contracta, sepalo intermedio subaequilonga, membranacea, glabra, trinervata.

Labellum erecto-patens, e basi perlate cuneatum, supra perbrevissime

\* Continued from Bot. Mag. (Tokyo), 49 (1935), p. 444.

incumbens, basi truncata, ad infimam mucronata, glabra. Pollinia 8, cerea, obliqua.

Nom. Jap. Enrei-syôki-ran (nov.)

Hab. Formosa; insl. Kôtôsyo, in pluviisilvis monte Kôtô-san. (N. FUKUYAMA! Jul. 17, 1934. no. 4679. Typus in Herb. Orch. Fuk.)

54) **Calanthe actinomorpha** FUKUYAMA, sp. nov.

Terrestris, erecta, c. 40–60 cm. alta, radicibus teretibus rigidis subfiliformibus leviter flexuosis rugulosis puberulis sicco c. 1.5–2 mm. diametentibus.

Folia 3–4, basilaria, erecto-patentia, oblanceolata, apice acuminata, basi longe decurrentia, lamina 20–40 cm. longa, medio 3–6 cm. lata, in exsiccato tenuiter coriacea, utrinque glabra, 5-nervia, subtus ad nervos prominente elevata, supra laevia, inter nervos multi-venulosa, petiolis 10–20 cm. longis angustis rigidis glabris ad basin vaginantibus amplectentibusque.

Scapus e basi fasciculi foliorum oriundus, erectus, glaber, cum racemo 40–50 cm. longus, medio c. 3 mm. in diametro, remote pauci-vaginulatus, vaginulis 3–6 cm. longis amplectentibus acutis glabris, racemo florifero c. 10 cm. longo subdense florato, bracteis caducis lanceolatis acuminatis membranaceis albescentibus gemmas florum diplo vel triplo superantibus utrinque glabris.

Flores flavescentes, subapertientes, pedicellis cum ovariis patulis vel subnutantibus clavatis c. 1 cm. longis glabris. Sepala subaequiformia, oblongo-ligulata, apice acuta vel apiculata, ad basin paullo contracta, margine integra, c. 8–9 mm. longa, medio  $3\frac{1}{2}$ –4 mm. lata, membranacea, utrinque glabra, 3–5-nervata. Petala elliptica, apice acuta, basi contracta, margine plus minusve undulata, quam sepala vix breviora, concavula, membranacea, utrinque glabra, trinervata.

Lebellum indivisum, ecalcaratum, petalis subaequiforme subaequilongumque, concavulum, apice truncatum, ad summum mucronatum, margine plus minusve undulatum involutumque, utrinque glabrum, membranaceum, trinervatum. Columna erecta, subteres, c. 4 mm. longa, supra medium vix contracta, glabra, anthera circuito cordato-quadrangulata. Pollinia 8, clavata.

Nom. Jap. Kanariya-ebine (nov.)

Hab. Formosa; praef. Taihoku, in laurisilvis monte Syôagyoku-san. N. FUKUYAMA! Jan. 17, 1935. no. 4690. Typus in Herb. Orch. Fuk.)

55) **Bulbophyllum rivanum** FUKUYAMA, sp. nov.

Epiphyticum, parvulum, decumbens vel ascendens, 3–5 cm. altum.

glabrum, radicibus e caule (rhizomate) emittentibus filiformibus flexuosis obsolete pilosis c.  $\frac{1}{2}$ – $\frac{2}{3}$  mm. diametentibus, caulibus rigidis omnibus vaginulis amplectentibus radicanibus dense 2-5-foliatis.

Folia approximatum disposita, sessilia, subsecunda, basi non pseudobulbosa, elliptico-oblonga vel oblonga, apice obtusa, ad summum leviter retusa, ad basin attenuata, margine integra, c. 2–3.5 cm. longa, medio 5–8 mm. lata, carnosa, crassa, utrinque glabra, ima basi vaginulis paucis minutis membranaceis ornata.

Scapus quam folia brevior, c. 1.5 cm. longus, gracilis, strictus, glaber, ad basin pauci-vaginulatus, apice racemosim bifloratus, bracteis triangulato-lanceolatis apice acuminatis basi non contractis margine integris c. 2–3 mm. longis membranaceis glabris.

Flores albescentes vel flavido-albescentes, parvuli, subapertientes, pedicellis paullo curvatis bracteas plus minusve superantibus glabratis. Sepalum intermedium concavulum, oblongum, apice acutum, ad basin vix vel haud contractum, margine integrum, c. 4 mm. longum, medio  $1\frac{1}{2}$  mm. latum, membranaceum, glabrum, trinervatum; sepala lateralia pedi columnae adnata, oblique triangulata, apice acuta, basi non contracta, margine integra, c. 4 mm. longa, basi 3 mm. lata, membranacea, glabra, trinervata. Petala quam sepala valde minora, anguste oblonga, supra basin paullo contracta, apice obtusiuscula, margin integra, c. 2 mm. longa, medio  $\frac{2}{3}$  mm. lata, membranacea, glabra, uninervata.

Labellum cum pede columnae vix 2 mm. longo articulatum, recurvum, longe ellipticum, apice acutiusculum, ad basin attenuatum, margine integrum, supra medio unisulcatum, c.  $2\frac{1}{2}$  mm. longum, utrinque glabrum, membranaceum, trinervatum. Columna brevissima, glabra, antice bibrachiata, brachiis acutiusculis; anthera cordata.

Nom. Jap. Oihane-ran (nov.)

Hab. Formosa; praef. Taihoku, in laurisilvis monte Syôgoku-san. (K. SEGAWA et FUKUYAMA! Jan. 17, 1935. no. 4709. Typus in Herb. Orch. Fuk.)

56) **Cirrhopetalum remotifolium** FUKUYAMA, sp. nov.

Epiphyticum, decumbens, c. 5 cm. altum, rhizomate longe repente gracili c.  $\frac{2}{3}$  mm. diametente paullo flexuoso lignoso, radicibus elongatis filiformibus flexuosis glabris, pseudobulbis 2–3 cm. distantibus ovoideo-cylindraceis c. 7–10 cm. altis medio fere 2–3 mm. diametentibus glabratis apice unifoliatis basi radicanibus.

Folia erecta, sessilia, lineari-oblonga, apice obtusa vel rotundata vel acutiuscula, interdum ad summum minutissime retusa, basi acuminato-vel acuto-angustata, margine integra, c. 3–5 cm. longa, medio 7–9 mm. lata, in