

# 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 basi que 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 perbrevisime

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

51) **Gastrodia lutea** FUKUYAMA, sp. nov.

Saprophytica, aphylla, erecta, c. 35–60 cm. alta, rhizomate ellipsoideo-elongato simpliciter c. 3–5 cm. longo medio c. 1 cm. in diametro haud radiceifero apice ad caulem abeunte. Caulis erectus vel strictus, gracilis, teres, glaber, medio c. 1.5–5 mm. diametens, inferiore approximate superiore remote squamatus, squamis brevibus amplexicaulibus c. 5 mm. longis margine irregulariter crenulatis membranaceis subhyalinis glabris.

Flores apertientes, fere 4–18 in apice caulis laxe racemosi, parte florifera c. 5–20 cm. longa erecta, bracteis parvis patulis triangulatis apice acutis vel obtusis ad basin non contractis c. 3–4 mm. longis membranaceis glabris, pedicellis cum ovarii glabris subrectis bracteis multo longioribus. Sepala usque ad quartam partem apicalem connata, sed antice usque ad basin labelli latissime aperta, c. 1 cm. longa, apice obtusa vel acutiuscula, basi sepalis lateralibus cum pede columnae c. 2½ mm. longo adnata et mentum obtusum formantia, extus flavescente-violacea, intus lutea, utrinque glaberrima. Petala ad marginem inter lobos sepalorum adnata, orbiculata vel ovato-orbiculata, apice obtusa, basi contracta, quam lobi sepalorum plus minusve minora, c. 2½ mm. longa, totiusque lata, utrinque glabra.

Labellum sepalis paullo brevius, toto c. 8 mm. longum, late ovatum, concavulum, apice acutiusculum, basi in unguem brevem productum, margine leviter involutum, infra apicem paullo constrictum, ungue excepto c. 5 mm. longum, supra basin explanato c. 6 mm. latum, intus medio crista una paulloconvexa carnosa nuda medio c. 2 mm. lata longitudinaliter instructum, e margine unguis ad eadem basilarem laminae callosum, subtus glaberrimum. Columna labello brevior, c. 7 mm. longa, erecta, glabra, semiteres, margine subalata, basi in pedem producta, apice steliidiis c. 1 mm. longis obtusis sursum paullo curvatis ornata.

Nom. Jap. Kondiki-yagara (nov.)

Hab. Formosa; insl. Kôtôsyô, in pluviisilvis monte Ômori-yama. (N. FUKUYAMA! Jul. 3, 1934. no. 4681. Typus in Herb. Orch. Fuk.)

52) **Pristiglottis humilis** FUKUYAMA, comb. nov.

*Cystopus humilis* FUKUYAMA, in Bot. Mag. (Tokyo) XLVIII. (1934) p. 307.

Nom. Jap. *Usubeni-tasiro-ran*.

Hab. Formosa; praef. Sintiku, in laurisilvis inter Sensui et Kami-no-sima. (N. FUKUYAMA! Jul. 1932. no. 3986.)

53) **Acanthephippium pictum** FUKUYAMA, sp. nov.

Terrestre, erectum, 40–60 cm. altum, subcaulescens, rhizomate valde abbreviato, radicibus filiformibus elongatis flexuosis puberulis, caulibus

pseudobulboso-carnosis oblongoideo-cylindraceutis sursum angustatis incrassatis c. 10 cm. longis basi 2-2.5 cm. diametentibus plurivaginatibus, vaginis scariosis nervosis.

Folia ad apicem caulis vulgo 3, erecto-patentia, oblonga, ovato-oblonga vel elliptico-oblonga, apice acuta vel acuminata, basi in petiolum brevem sensim attenuata, c. 20-40 cm. longa, 7-10 cm. lata, chartacea, utrinque glabra, 3-5-nervata, ad nervos subtus prominente elevata, inter nervos multi-venulosa.

Scapus ex innovationibus caudicis oriundus, erectus, simplex, glaber, violaceus, superiore laxe 3-5-floratus, inferiore 1-2-vaginatibus, c. 15-20 cm. altus, medio vivo c. 8 mm. diametens, apicem versus plus minusve dilatatus, bracteis pedicellos amplectantibus vel patulis ovatis valde concavis apice acutis basi paullo angustatis c. 3 cm. longis utrinque glabris violaceis vivo subcarnosis sed ad margines membranaceis ochroleucisque.

Flores haud patentibus, oblique ovoideo-saccatis, inter imum saccum et summum sepalum intermedium c. 4.5 cm. longi, medio c. 2.5 cm. lati, extus inferiore flavi, superiore atro-purpurei, pedicellis rectis glabris 4-5 cm. longis medio c. 5 mm. diametentibus superiore violaceis inferiore albescensibus et sparsim violaceo-punctatis. Sepala subcarnosa, glabra, in urceolum obconicum oblique ventricosum cohaerentia, ad apicem libera; sepalum intermedium naviculiforme, oblongum, apice obtusum, deorsum paullo dilatatum, c. 3.5 cm. longum, medio c. 1.3-1.5 cm. latum; sepala lateralia intermedio majora, oblique triangularia, latere superiore c. 3.3 cm. longa, apice obtusa et paullo reflexa, basi pedi columnae 2-2.5 cm. longo adnata, mentum obovoideum inflatum apice obtusum formantia. Petala sepalis inclusa, dimidio inferiore cum sepalis adnata, e basi ad medium unguiculata, superiore ovata, apice obtusa, c. 3 cm. longa, medio c. 1.5 cm. lata, ochroleuca, prope apicem atropurpurea, subcarnosa, utrinque glabra.

Labellum sepalis inclusum, ad apicem pedis columnae articulatam, basi longe stipitatum, stipite recto carnoso anguste oblongo vel lineari sursum vix dilatato apice rotundato et cum lamina terminali articulato c. 2.2 cm. longo medio c. 6 mm. lato albescens inferiore intus lilacinostriato; lamina albescens, valde recurva, explanata c. 1.5 cm. longa, supra basin trilobata, lobis lateralibus erectis dolabriformibus vel cuneato-oblongis apice truncatis ad basin paullo angustatis c. 5 mm. longis apice c. 5 mm. latis glabris lobo intermedio lateralibus majore oblongo apice obtuso ad medium vix angustato basi dentibus 2 acutis inflexis ornato margine leviter revolutum et intergro infra medium c. 5 mm. lato medio 1-carinato supra rugoso et tuberculato. Columna crassa, erecta, semiteres, vix 2 cm. longa, margine alata, basi in pedem longum producta; clinandrium membranaceum. Anthera intra marginem clinandrii affixa, opercularis.

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.