

STUDIA ORCHIDACEARUM JAPONICARUM II.

Orchidaceae Formosanae novae atque criticae

auctore

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(Continued from *Bot. Mag. (Tokyo)* Vol. XLVIII.)

12. *Zeuxine fluvida* FUKUYAMA, sp. nov.

Terrestris, erecta, 10–20 cm. alta, rhizomate decumbente cauliformi in exsiccato 2.5–3 mm. diametiente, radicibus vermiformibus puberulis. Caulis erectus, teres, e basi ad supra medium laxe 2–6-foliifer, sursum scapum abeuns et pilosus, deorsum giaber.

Folia petiolata, patentia, ovata vel ovato-lanceolata, apice acuta, basi rotundata, subito ad petiolum abeuntia, membranacea, viridescens, utrinque glabra, 6 cm. longa, c. 2.5 cm. lata, petiolis c. 1.5 cm. longis basi tubiformibus et amplexicaulibus.

Scapus gracilis, erectus, pilosus, 2–3-squamatus, c. 8 cm. longus, racemo florifero brevi 1.5 cm. longo subdense 5–8-florato, bracteis ovato-lanceolatis, concavis, apice acuminatis, basi leviter contractis, membranaceis, margine et exteriore plus minusve peberulis.

Flores glabri, fulvi, pedicellis cum ovariis glaberrimis fusiformibus viridibus c. 6 mm. longis. Sepalum intermedium oblongo-ovatum vel triangulato-oblongum, concavum, apice obtusum, basi vix contractum, utrinque glabrum, flavum, 6 mm. longum, basi c. 3 mm. latum, sepala lateralia erecto-patentia anguste oblonga vel linearia navicularia apice obtusa basi haud contracta utrinque glabra fulva 6 mm. longa c. 1.5 mm. lata. Petala cum sepalo intermedio in galeam cohaerentia, semiovata, apice cuspidato-obtusa, basi contracta, latere superiore truncata, glabra, membranacea, subhyalina, 5.5 mm. longa, c. 2 mm. lata.

Labellum c. 7 mm. longum, basi saccato-concavum c. 2 mm. latumque, intus glabrum et supra basin utroque latere processibus duobus ornatum, ad apicem sensim tubiforme attenuatum, apice subito dilatato-bilobatum, lobis rotundatis inter se divaricatis c. 2.5 mm. diametientibus tenuibus utrinque glabris albescentibus basi fluis. Columna brevissima, anthera cordata. Pollinia grosse granulosa, stipiti elongato affixa.

Nom Jap. *Taitoo-kinuran* (nov.)

Hab. Formosa; praef. Taitoo, Riran-shichoo, Onsen, (K. SEGAWA! No. 4112. Typus in Herb. Orch. Fuk.)

truncata apice acutiuscula basi vix contracta trinervata. Petala angustissime linearia, reflexa, apice obtusiuscula, ad basin non contracta, sepalis lateralibus aequilonga, c. 1 mm. lata, uninervata.

Labellum obovatum, anteriore rotundatum denticulatumque, posteriore cuneato-unguiculatum et integrum, apice paulo emarginatum, basi carinato-bituberculatum, a. 1.5 cm. longum, supra medium c. 1 cm. latum, 5-nervatum. Columna recurva, 6 mm. longa, ad apicem paulo dilatata, basi angustata.

Nom. Jap. *Kibana-kokuran* (nov.)

Hab. Formosa; praef. Shinchiku, in silvis laurilignosis monte Minami-sooten-zan, prope Kappanzan, (N. FUKUYAMA! Mai. 1933. No. 4104. Typus in Herb. Orch. Fuk.); in silvis laurilignosis monte Syogyoku-zan, (N. FUKUYAMA! Mai. 1932. No. 4106.)

17. *Calanthe kooshunensis* FUKUYAMA, sp. nov. (*Paracalanthe*)

Terrestris, erecta, c. 20 cm. alta, caulescens, radicibus multis elongatis filiformibus teretibus villosulis, caulibus c. 10 cm. longis, c. 4 mm. diametentibus, basi inter se approximativim connexis, inferne vaginis scariosis nervosis ornatis, superne foliatis.

Folia 3-5, in apice caulis alternatim sita, subrecta, patentia, lanceolata vel anguste oblonga, apice acuminata, basi longe decurrentia vaginataque, lamina 8-15 cm. longa, c. 1.5 cm. lata, utrinque glabra, nervis principalibus 3, inter nervos venulosa.

Scapus infra folia ex axilla squamae oriundus, rectus, teres, simplex, c. 20 cm. longus, 1.5 mm. diametens, brevissime puberulus, racemo florifero brevi c. 5 cm. longo laxo 7-florato, bracteis caducis mihi nondum notis.

Flores subpatentes vel campanulati, pedicellis gracilibus brevissime puberulis cum ovariis c. 1.6 cm. longis. Sepala aequilonga, c. 1 cm. longa, extus sparsim et brevissime puberula, intus glabra, membranacea, sepalo intermedio oblongo vel oblongo-elliptico apice acuto vel acuminato basin sensim angustato medio c. 4 mm. basi c. 2.5 mm. lato 5-nervato, sepalis lateralibus oblongo-ellipticis sed paulo obliquis, apice acuminatis, basi contractis, medio c. 3.5 mm. latis, 5-nervatis.

Labellum ecalcaratum, 3-lobatum, patens, c. 7 mm. longum, inter apices lorum lateralium explanatorum c. 6 mm. latum, medio longitudine bilamellatum, basi rotundatum, lobo intermedio minore subquadrangulato vel reniforme-obcordato apice emarginato margine non undulato infra apicem c. 2 mm. basi 1.5 mm. lato 2 mm. longo, lobis lateralibus apice obtusis, latere exteriori c. 5 mm. longis et integris, latere interiore 1.5 mm. longis et obscure denticulatis. Columna erecta, gracilis, c. 5 mm. longa, 1 mm. lata, semiteres.

Nom. Jap. *Yakko-ebine* (nov.)

Hab. Formosa; praef. Takao, in silvis monte Manritoku-zan, prope Kooshun, (N. FUKUYAMA! Jan. 1, 1932. No. 4101. Typus in Herb. Orch. Fuk.)

The species seems to have much resemblance to *C. gracilis* LINDL. and *C. venusta* SCHLECHTER, but the plant is much smaller, the column is more slender and the margin of the middle lobe is not undulate at all.

18. *Listera macrantha* FUKUYAMA, sp. nov.

Terrestris, erecta, subfiliformis, c. 15-17 cm. alta, medio vel supra medium foliifera, infra folia glabra, supra puberula, basi vaginata, vaginis membranaceis caulem complete amplectentibus, radicibus filiformibus elongatis vix puberulis.

Folia 2, opposita, patentia, late ovata vel ovato-semiorbiculata, apice acuta, basi truncata, ad infumam brevissime cuneata, margine integra, membranacea, utrinque glabra, subtus pallidiora, c. 1.5-2 cm. longa, 1.5-2 cm. lata.

Scapus terminalis, simplex, pauca floratus, parte inter foliferam et foliiferam 2-3 cm. longa 1-2-squamata, squamis glabris, bracteis aequiformibus.

Flores 3-6, magni, subsecundi, patentes, bracteis ovato-lanceolatis apice acutis basi contractis glabris uninervatis 3-5 mm. longis, pedicellis cum ovariis rectis, glabris, bracteis duplo longioribus. Sepala patentia, glabra, uninervata, membranacea, sepalo intermedio lanceolato-ovato apice obtuso basi leviter contracto c. 4 mm. longo, sepalis lateralibus intermedio majoribus, falcato-ovatis, apice acutis, basi contractis, c. 4.5 mm. longis. Petala linearia, apice obtusa, ad basin leviter dilatata, uninervata, c. 4 mm. longa.

Labellum erecto-patens, cuneatum, c. 2 cm. longum, utrinque glabrum, membranaceum, supra medium divaricato-bilobatum, inter apices loborum 7-9 mm. latum, lobis oblongis sursum plus minusve angustatis apice truncato-rotundatis margine integris medio 2.5-3.5 mm. latis. Columna 4 mm. longa, infra apicem incurvata, rostello apice roundato-mucronato.

Nom. Jap. *Kanzashi-futabaran* (nov.)

Hab. Formosa; praef. Taihoku, in silvis monte Nanko-taizan inter Kiritto et Bunakkei, (N. FUKUYAMA! Jul. 1933. No. 4140. Typus in Herb. Orch. Fuk.); praef. Taichu, inter Kootenzan et Tsugitaka-yama prope Gonkeawan, (T. HOSOKAWA! Jul. 14, 1931. No. 4145).

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