

Studia Orchidacearum Japonicarum I
Orchidaceae Formosanae Novae Atque Criticae

auctore

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With 1 Text-Figure

1) **Platanthera transnokoensis** OHWI et FUKUYAMA, sp. nov.

Terrestris, erecta, glaberrima, 20–30 cm. alta, caule tereti medio laxe 3-foliato, basi infra folia 5–8 cm. longo vaginis 2–3 vestito, supra folia squamis c. 2. foliaceis lanceolatis sensim in bracteas decrescentibus.

Folia 2–3, erecto-patentia, elliptica vel oblongo-elliptica, 7–12 cm. longa, 2–4 cm. lata, apice obtusa vel obtuso-acuta, basi decurrentia et amplectentia, membranacea, utrinque glabra, sursum decrescentia.

Racemus subdense multiflorus, erectus, ca. 5 cm. longus, bracteis lanceolatis acutis glabris erecto-patentibus, inferioribus flores superantibus, superioribus sensim brevioribus.

Flores glabri, erecto-patentes, albescentes, pedicellis erectis 7 mm. longis glabris. Sepalum intermedium late ovatum, apice rotundato-obtusum concavulumque, basi contractum, 4.5 mm. longum, 3 mm. latum, trinervatum. Sepala lateralia deflexa, subfalcato-ovata, intermedio leviter angustiora et longiora, 5.5 mm. longa, 2.5 mm. lata, apice obtusa, trinervata. Petala oblique ovata, apice obtusa, 4 mm. longa, 2.25 mm. lata.

Labellum subrectum, declinatum, lineare, 6.5 mm. longum, 1.25 mm. latum, apice obtusiusculum, basi plerumque utrinque brevissime lobulatum vel cornutum, lobulis triangulatis acutis 1 mm. longis; calcar pedicello aequilongum, erectum, gracile, cylindraceum, apice obtusum, 6.5 mm. longum, 1.25 mm. diametens. Antherae parallelae, erectae, clavatae, apice rotundatae, basi acuminatae, inter se approximatae, 2 mm. longae; rostellum inconspicuum.

Nom. Jap. Kiraishu-yukichidori (nov.)

Hab. Formosa; prov. Taichu, in monte Kiraishu-nampoo, (J. OHWI! June, 1933. no. 3971. Typus in Herb. Orch. Fuk.)

2) **Habenaria Hosokawae** FUKUYAMA, sp. nov.

Terrestris, erecta, 35–40 cm. alta, glaberrima; partes inferiores aphyllae, laxe 3–4-vaginatae, vaginis a basi usque ad medium tubiformibus

acutumque, basin angustatum, 4 cm. longum, medio ca. 1 cm. latum, nervis 7 planis. Sepala lateralialia postico aequilonga et aequiformia, vivo membranacea, ad apicem lente tortuosa reflexaque, 8.5 cm. lata, 7-nervata. Petala elliptica, vivo membranacea, apice acuta, basi contracta, basi interiore rubro-notata, latere superiore sub lente undulata, 3 cm. longa, medio fere 1.1 cm. lata, 7-9-nervata.

Labellum curvatum, crassiusculum, glabrum, in ambitu obovatum, e basi obovato-cuneatum, medio obtusiuscule trilobatum, explanate 2 cm. longum, 1 cm. latum, carinis crassis 2 parallelis e basi ad medium ornatum, lobis lateralibus parvulis rotundatis, intermedio rotundato-cuneato apicem sensim angustato apice acutiusculo. Columna elongata, complanato-semiteres, suberecta, glabra, 1.25 cm. longa, 3 mm. lata, ad apicem paullo dilatata.

Nom. Jap. Sensui-soshin (nov.)

Hab. Fomosa; prov. Shinchiku, in silvis monte Higashi-sensuizan prope Taiko., (N. FUKUYAMA! Apr. 10, 1932. no. 3983. Typus in Herb. Orch. Fuk.)

10) **Luisia cordata** FUKUYAMA, sp. nov.

Epiphytica, erecta vel dependens, 30-60 cm. alta, radicibus crassiusculis flexuosis glabris. Caulis vulgo simplex, glaber, teres, 5 mm. in diametro, vaginis foliorum omnio obtectus, vaginis cylindricis persistentibus 2-2.5 cm. longis rugoso-lineatis vel dense longitudine nervosis.

Folia alterna, a se 2 cm. remota, glabra, patentia, teretia, carnosa, rigida, acuta, circ. 20 cm. longa, 3 mm. diametentia. Racemus axillaris, 2-3-fasciculato-floratus, floribus subpatentibus nutantibus ca. 1 cm. diametentibus. Bractea glabra, lata ovata, acuta, parva, 3 mm. longa, distiche imbricateque disposita. Pedicellus viridis, glaber, ca. 1 cm. longus.

Sepalum intermedium glabrum, viride, ligulatum, apice obtuso-acutum, basi non contractum, 5 mm. longum, 3 mm. latum, 5-nervatum. Sepala lateralialia intermedio paullo longiora, 6 mm. longa, basi 4 mm. lata, acuta, glabra, viridia, ovato-lanceolata, cymbiformia, carinata, 7-nervata. Petala linearia, apice acuta, deorsum plus minusve angustiora, glabra, viridia, sepalis longiora angustioraque, 7.5 mm. longa, medio 2 mm. lata.

Labellum carnosum, glabrum, supra atro-purpureum velutinumque, subtus viride, 7 mm. longum; hypochilium 3 mm. longum, medio 4.5 mm. latum, leviter concavum, lobis lateralibus obscuris obtusis; epichilium (lobus intermedius) lateralibus multo majus, cordatum, obtusum, 4 mm. longum, 5 mm. latum, superne infra apicem gibbo minuto ornatum. Columna 3.5 mm. longa, semiteres, antice purpurea. Pollinia 2. Capsula erecta, triangularis, elongata, 5 cm. longa.

Nom. Jap. Hama-bouran (nov.)

Hab. Formosa; prov. Taitoo, in silvis littoralis Aroei, prope Daibu. (N. FUKUYAMA! Jan. 1933. no. 3984. Typus in Herb. Orch. Fuk.)

The present plant was collected by myself, in January 1933, in the tropical rain-forest by the sea-side near Aroei in Prov. Taitoo and was brought back to the garden of Mr. KOSAKI where it flowered, in May 1933.

11) **Cystopus humilis** FUKUYAMA, sp. nov. (Odontochilus)

Terrestris, erectus, humilis, ca. 6-9 cm. altus, rhizomate decumbente rubescente cauliformi ad nodos villosus. Caulis cum scapo erectus, rubescens, teres, exsiccato ca. 1.5-2 mm. diametens, infra medium sublaxe 3-4-foliifer, sursum scapum abeuns et hirsutus, deorsum glaber.

Folia parva, petiolata, sursum in squamas decrescentia, lamina erecto-patentia, ovata vel cordato-ovata, apice acuta, basi rotundata vel obtusa, in exsiccato membranacea, utrinque glabra, trinervata, 7-13 mm. longa, 5-8 mm. lata, petiolis cum vaginis 5 mm. longis basin dilatatis et amplexicaulibus.

Scapus gracilis, erectus, hirsutus, 1-2-squamatus, ca. 4 cm. longus, racemo florifero 1-1.5 cm. longo 3-5-florato, bracteis ovato-lanceolatis, apice acuminatis, basi plus minusve contractis, membranaceis, subhyalinis, interiore glabris, exteriore hirsutis, uninervatis, albo-punctatis, rubescentibus, pedicellis aequilongis vel leviter longioribus, ca. 6 mm. longis, 3 mm. latis.

Flores subpatentes, hirsuti, pedicellis hirsutis erectis basi non contractis apice constrictis. Sepala membranacea, uninervata, albo-punctata, interiore glabra, exteriore hirsuta, sepalum intermedium erectum cum petalis in galeam connivens ovato-lanceolatum apice acuminato-obtusum basi leviter contractum ca. 3.5 mm. longum 1.5-2 mm. latum, sepala lateralia intermedio longiora, oblonga, ca. 1.5 mm. lata, apice acuto-obtusa, basi non attenuata et cum sacco labelli in calcar formantia, calcar elongato-globoso 2 mm. longo 1.5 mm. lato apice rotundato obscure bisaccato. Petala sepalis intermedio aequilonga sed valde obliqua, semiobovata, apice cuspidato-obtusa, basi attenuata, latere superiore truncata, medio ca. 1 mm. lata.

Labellum sepalis longius ca. 7 mm. longum, basi calcariforme saccatum intus 2-callosumque, lamina basin unguiculata, ungue lineari 2 mm. longo superne canaliculato margine intergo sed sursum breviter dentato, lamina patens, membranacea, flabellata vel late triangulata, apice retusa, basi acuta, utrinque glabra ca. 2 mm. longa, 5 mm. lata. Columna brevis, rectiusculum, stigmatibus indiviso. Anthera ad marginem clinandrii inclinata, pollinia 2 grosse granulosa.

Nom. Jap. Usubeni-tashiroran (nov.)