

Studia Orchidacearum Japonicarum IV*

Orchidaceae Formosanae Novae Atque Criticae

auctore

Noriaki Fukuyama

Received January 8, 1935

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 bifoliatus interdum trifoliatus, 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.

semiorbiculatis obtusis, lobo intermedia lateralibus majore antica semiorbiculato vel quadrato margine leviter irregulari c. 7 mm. lato, calcare recto pedicello paullo longiore c. 1.2 cm. longo medio 1.5 mm. in diametro apice obtuso. Columna c. 2 mm. longa.

Nom. Jap. Ane-chidori (nov.)

Hab. Formosa; praef. Karenkoo, in herbidis alpinis monte Gookanzan, (N. FUKUYAMA! Jul. 1929. no. 4526. Typus in Herb. Arch. Fuk.); Kenkai-shichoo, prope Karapaó, (K. SEGAWA! Aug. 17, 1934. no. 4528, 4531, 4532); praef. Taichuu, in monte Niitaka-yama inter Tonpo et Hattukan, (M. TAGAWA! Aug. 1934, no. 4529, 4530).

33) **Listera nankomontana** FUKUYAMA, sp. nov.

Terrestris, erecta, gracillima, c. 20 cm. alta, medio foliifera, infra folia glabra, supra puberula.

Folia 2, opposita, erecto-potentia, late ovata, apice acuta, basi truncato-rotundata, margine integra, c. 2 cm. longa, supra basin 1.5-2.5 cm. lata, crassiuscule membranacea, utrinque glabra, subtus pallidiora.

Scapus terminalis, simplex, subfiliformis, strictus, c. 10 cm. longus, inferiore remote 3-4-squamatus, squamis lanceolatis acutiusculis 3-5 mm. longis sensim in bracteas decrescentibus.

Flores a medio scapi sursum apicem laxe racemosi, patentes, bracteis squamis aequiformibus apice acutis basi contractis c. 3 mm. longis sursum sensim brevioribus, pedicellis cum ovariis subrectis glabris bracteis duplo vel triplo longioribus.

Sepala membranacea, glabra, uninervata, sepalo intermedio ligulato sursum sensim angustato apice obtuso c. 2.5 mm. longo 1 mm. lato, sepalis lateralibus intermedio subsimilibus sed majoribus falcatisque c. 3 mm. longis. Petala linearia, apice obtusa, ad basin plus minusve dilatata, sepalo intermedio aequilonga, membranacea, glabra, uninervata.

Labellum erecto-patens, longe cuneatum, c. 7 mm. longum, infra apicem c. 3.5 mm. latum, utrinque glabrum, membranaceum, medio plus minusve carnosum, supra medium divaricato-bilobatum, lobis sursum sensim attenuatis apice acutis latere interiore c. 2 mm. longis. Columna subrecta, c. 2.5 mm. longa, rostello anteriore truncato.

Nom. Jap. Tsubame-futabaran (nov.)

Hab. Formosa; praef. Taihoku, in silvis monte Nanko-taizan inter Kirittoí et Bunakkei, (Jul. 1933. no. 4139. Typus in Herb. Orch. Fuk.); praef. Taichu, inter Matsumine at Hakka, (S. SUZUKI! Jul. 12, 1930. no. 5600.)

34) **Lecanorchis cerina** FUKUYAMA, sp. nov.

Terrestris, erecta, aphylla, 40–50 cm. alta, rhizomate adscendente rigido ad nodos squamulato, squamulis inter se remotis brevibus rigidiusculis rhizomatem circumdantibus.

Caulis e rhizomate assurgens, strictus, gracilis, teres, glaber, ochraceus, simplex vel ad infimam ramosus, in exsiccato medio 1.5–2 mm. diametens, remotissime paucè squamatus, squamis in exsiccato nigricantibus inferioribus vaginiformibus superioribus minoribus et sensim in bracteas decrescentibus.

Racemus florifer 3–7 cm. longus, erectus, laxiuscule 4–7-floratus, bracteis quam pedicellis multo brevioribus deltoideis acutis 3–5 mm. longis glabris.

Flores apertientes vel subclausi, cerini, pedicellis cum ovariis erecto-patentibus gracilibus fere 2–3 cm. longis glabris apice margine irregulariter eroso-denticulatis. Sepalum intermedium lineari-oblancoelatum, apice acutiusculum, deorsum gradatim attenuatum, membranaceum, utrinque glabrum, c. 2.5 cm. longum, supra medium 4 mm. latum, 5-nervatum, sepalis lateralibus intermedio similibus sed vix brevioribus angustioribusque. Petala sepalo intermedio subaequiformia, sed paullo falcato-obliqua, utrinque glabra, c. 2.5 cm. longa, supra medium 5 mm. lata, 5-nervata.

Labellum petalis brevius, c. 2 cm. longum, dimidio inferiore columnae margini adnatum, parte superiore dilatatum et obsolete trilobatum, inter apices lorum lateralium explanatorum c. 8 mm. latum, lobis lateralibus inconspicuis latere interiore 1.5 mm. longis apice obtusis columnam vix superantibus, lobo intermedio margine eroso-crenulato apice emarginato 7–8 mm. lato infra apicem supra pilis longis barbato. Columna gracilis, semiteres, glabra, labello brevior, c. 1.4 cm. longa, infra apicem subito membranaceo-dilatata. Anthera subquadrangularis.

Nom. Jap. Roobai-sukerokuran (nov.)

Hab. Formosa; praef. Taihoku, in laurisilvis monte Daitoo-zan, prope Shinten, (N. FUKUYAMA! Apr. 11, 1934, no. 4534. Typus in Herb. Orch. Fuk.)

35) *Zeuxine rupicola* FUKUYAMA, sp. nov.

Rupestris, humilis, erecta, 2–7 cm. alta, tota glabra, rhizomate repente brevissimo vix radicante. Caulis ascendens, simplex, teres, carnosus, basi vaginis vel foliis rudimentariis ornatus, ceterum totus foliatus, apice racemosus.

Folia erecta, alterna, linearia, apice acuminata, basi non contracta et tubuloso-vaginantia, in exsiccato membranacea, utrinque glabra, c. 1–3 cm. longa, medio c. 3 mm. lata, uninervata, nervis supra impressa et subtus elevata, partibus vaginiformibus brevibus 2–3 mm. longis caulem complete