

Studia Orchidacearum Japonicarum III

Orchidaceae Formosanae Novae Atque Criticae

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With 3 Text-Figures

19) **Amitostigma yuukiana** FUKUYAMA, sp. nov.

Terrestris, erecta, glaberrima, parvula, 10–13 cm. alta, tuberibus ovoideis vel oblongoideis ellipsoideisve pilosiusculis. Caulis gracillimus, teres, basi vel supra basin unifolius, raro bifolius, basi infra folia 1–2-vaginatus, vaginis scariosis e basi ad supra medium complete amplexentibus sed partibus superioribus leviter patentibus.

Folia suberecta, anguste oblonga vel ovato-lanceolata, raro longe elliptica, in exsiccato plerumque duplicata, apice obtusa vel acutiuscula, basi decurrentia et amplexentia, chartacea, c. 5 cm. longa, medio 1–1.5 cm. lata, utrinque glabra.

Racemus terminalis, erectus, subsecundus, 2–3 cm. longus, subdense 10–20-floratus, bracteis parvulis c. 5 mm. longis ovato-lanceolatis apice acuminatis basi contractis et leviter amplexentibus utrinque glabris.

Flores parvi, rosei, glabri, subapertientes, pedicellis rectis glabris bracteis duplo vel quadruplo superantibus. Sepalum intermedium ovatum, apice obtusum, basi contractum, concavum, membranaceum, 2.5–3 mm. longum, 1.5–2 mm. latum, cum petalis in galeam connivens, uninervatum, lateralibus obovatis paullo obliquis apice obtusis basi attenuatis c. 3 mm. longis 1.5–2 mm. latis membranaceis uninervatis. Petala oblique elliptica, utrinque acuta, c. 3 mm. longa, 2 mm. lata, membranacea, glabra, uninervata.

Labellum glabrum, subrectum, 3.5–4 mm. longum, infra medium trilobatum, inter apices loborum lateralium explanatorum c. 3.5 mm. latum, ad basin gradatim attenuatum, lobis lateralibus linearibus vel longe triangularibus a lobo intermedio angulo 45° egressis c. 1 mm. longis, lobo intermedio lateralibus longiore, 1.5–2 mm. longo, obovato-cuneato, apice truncato-concavo, infra apicem 1.5 mm. lato, calcare cylindrico subrecto obtusiusculo

Columna brevissima, staminodiis parvulis.

Nom. Jap. Niitaka-mukagosoo (nov.)

Hab. Formosa; praef. Taichuu, in monte Niitaka-yama inter Shuzan et Niitaka-chuuzaiho, (J. OHWI! Jul. 1933. no. 4119. Typus in Herb. Orch. Fuk.).

The species is nearly related to *Herminium gracile* KING et PANTL., as well as to *H. pugioniforme* LINDL. both coming from Sikkim Himalaya. It is, however, to be distinguished from the former by the form of sepals, and is easily distinguished from the latter by the form of lips, while the character of sepals of these two species are almost the same.

21) **Aphyllorchis purpurea** FUKUYAMA, sp. nov.

Saprophytica, aphylla, erecta, c. 60. cm. alta, caule stricto simplici gracili tereti glabro toto subdense purpureo-striato medio c. 3.5 mm. in diametro basi vaginato medio fere 4-5 remote squamato, squamis amplexicaulibus, tubiformibus, c. 2 cm. longis, obtusis, glabris, sensim in bracteas decreescentibus.

Flores subapertientes, fere 10-20 in apice caulis laxe racemosi, pars florifera c. 15 cm. longa, erecta, bracteis patulis vel deflexis lineari-lanceolatis apice acutis basi vix contractis c. 1.5 cm. longis medio 3 mm. latis glabris trinervatis sursum sensim brevioribus, pedicellis cum ovariis rectis, gracilibus, sparsim et brevissime pilosis, bracteis duplo longioribus. Sepala libera, aequilonga, aequilata, glabra, trinervata, sepalo intermedio anguste oblongo cymbiformi apice obtuso basin versus attenuato c. 1.2 cm. longo infra apicem c. 4 mm. lato, sepalis lateralibus oblique ligulatis apice acutiusculis basi contractis. Petala sepalis paullo minora.

Labellum circuitu ovato-oblongum, indivisum, glabrum, apice obtusum, c. 1 cm. longum, supra basin explanate 4 mm. latum, anteriore patens sed margine paullo involutum, posteriore sulcato-concavum, basi stipitatum, stipite cuneato 2 mm. longo utrinque alato, alis lineari-triangularis acutis c. 1.5 mm. longis. Columna elongata, c. 8 mm. longa, plus minusve incurvata, semiteres, apice paullo ampliata.

Nom. Jap. Sumire-muyooran (nov.)

Hab. Formosa; praef. Taihoku, in silvis laurilignosis monte Syogyoku-san, prope Urai, (N. FUKUYAMA! Aug. 1933. no. 4121. Typus in Herb. Orch. Fuk.).

22) **Listera taizanensis** FUKUYAMA, sp. nov.

Terrestris, erecta, pusilla, subfiliformis, c. 11-16 cm. alta, medio foliifera, infra folia glabra, supra puberula, basi univaginata vel evaginata,

radicibus fasciculatis filiformibus pubescentibus.

Folia 2, medio caulis opposita, patentia, deltoidea vel ovato-semiorbiculata, apice acuta, basi cuspidato-truncata vel triangulato-truncata, membranacea, margine integra, utrinque glabra, c. 2 cm. longa, 2.5 cm. lata, nervis reticulatis.

Scapus terminalis, cum racemo 4-8 cm. longus, simplex, pars interfloriferam et foliiferam 1.5-3 cm. longa 1-4-squamata, squamis bracteis aequiformibus et aequilongis.

Flores 11-13, in apice scapi sublaxe racemosi, bracteis ovato-lanceolatis apice acutis basi non contractis utrinque glabris uninervatis c. 3 mm. longis 1-1.5 mm. latis. Pedicellus cum ovario erectus, glaber, bracteam duplo vel triplo longior. Sepalum intermedium anguste ovatum, apice acutum vel acutiusculum, basi non contractum, utrinque glabrum, uninervatum, c. 2 mm. longum, $\frac{2}{3}$ mm. latum, lateralia intermedio majora et obliqua falcato-oblonga utrinque sensim attenuata apice acutiuscula glabra uninervata c. 2.5 mm. longa medio 1 mm. lata. Petala linearia vel spatulato-linearia, apice acutiuscula, basi non attenuata, utrinque glabra, uninervata, c. 2 $\frac{1}{4}$ mm. longa, medio $\frac{1}{2}$ mm. lata.

Labellum spatulatum, erectum, c. 3.5-4.5 cm. longum, plus minusve duplicatum, ad basin lineare, basi c. 0.5 mm. latum, raro ad basin paullo dilatatum sed non dentatum, apice cordiforme dilatatum, c. 1.25 mm. latum, emarginatum vel sinu instructum, trinervatum, nervis lateralibus extorse venulosis. Columna crassiuscula, recurva, c. 1.5 mm. longa.

Nom. Jap. Nanko-futabaran (nov.)

Hab. Formosa; praef. Taihoku, in silvis monte Nanko-taizan, inter Kirittoï et Bunakkei, (N. FUKUYAMA! Jul. 1933. no. 4123. Typus in Herb. Orch. Fuk.)

This species has a resemblance to *Listera Savatieri* MAXIM., but differing from it by the form and the situation of leaves, the shape of labellum and the short peduncle of raceme, etc.

23) *Goodyera nankoensis* FUKUYAMA, sp. nov.

Terrestris, erecta, parvula, c. 12 cm. alta, rhizomate decumbente cauliformi crasso ad nodos radicante, radicibus vermiformibus dense et breviter villosis. Caulis erectus, teres, plus minusve pilosus, basi 4-5-foliatus, sursum ad racemum abeuns, parte inter foliiferam et floriferam 2-3-squamatus, squamis lanceolatis acuminatis amplexantibus glabris 1-1.5 cm. longis.

Folia erecto-patentia, parvula, ovata, apice obtusiuscula, basi rotundata et ad petiolum abeuntia, c. 2 cm. longa, infra medium 1.3 cm. lata, utraque pagine glabra, supra viridia, ad costas albo-lineata, in exsiccato chartacea.