

## Studia Orchidacearum Japonicarum V\*

### Orchidaceae Formosanae Novae Atque Criticae

auctore

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With 1 Text-Figure

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41) **Calanthe pumila** FUKUYAMA, sp. nov.

Terrestris, pumila, c. 20 cm. alta, radicibus teretibus rigidiusculis filiformibus leviter flexuosis puberulis sicco c. 1.5–2 mm. diametentibus.

Folia 4–5, basilaria, suberecta, linearia vel oblanceolato-linearia, apice acuminatissima, basi in petiolum angustum basi vaginantem longe decurrentia, c. 20–30 cm. longa, supra medium c. 8–13 mm. lata, in exsiccato tenuiter coriacea, utrinque glabra, subtus prominente trinervia, inter nervos venulosa.

Scapus e basi fasciculi foliorum oriundus, strictus, glaber, foliis vulgo brevior, c. 15–18 cm. longus, medio c. 2.5 mm. in diametro, remote 4–5-vaginatus, vaginis apice apiculatis ad basin tubiformibus et amplectentibus membranaceis utrinque glabris c. 1.8 cm. longis superioribus minoribus, racemo florifero c. 3 cm. longo subdense florato, bracteis caducis lanceolatis apice acuminatis basi paullo contractis membranaceis subhyalinis glabris.

Flores albescentes, subapertientes, pedicellis cum ovariis rectis c. 1.2 cm. longis glabris. Sepalum intermedium oblongum, apice acuminatum, ad basin plus minusve contractum, c. 1 cm. longum, medio c. 4 mm. latum, utrinque glabrum, membranaceum, trinervatum, sepalis lateralibus intermedio similibus sed paullo longioribus obliquisque. Petala orbiculato-ovata vel orbiculato-elliptica, apice rotundata, ad summam apiculata, ad basin angustata, c. 8 mm. longa, medio 6 mm. lata, utrinque glabra, membranacea, trinervata, nervis lateralibus extorse venulosis.

Labellum c. 6 mm. longum, calcaratum, basi breve bilamellatum, supra basin perprofunde trilobatum, lobo intermedio orbiculato apice rotundato ad summam interdum leviter retuso ad infimam ungue perbrevis perangusto instructo margine integro utrinque glabro c. 4 mm. longo totiusque lato, lobis lateralibus oblongis obliquis obtusis c. 3 mm. longis 2 mm. latis glabris, calcare cylindrico recto apice obtuso c. 6 mm. longo medio 2 mm.

\* Continued from Bot. Mag. (Tokyo), 49 (1935), 306.

lato glabro. Columna recta, longiusculà, e basi ad supra medium cum margine labelli in tubum connata, ad apicem margine alata, c. 4 mm. longa, glabra. Anthera cucullata, polliniis 8 longe obovoideis apice rotundatis basi acutis c. 1 mm. longis.

Nom. Jap. Keshoo-ebine (nov.)

Hab. Formosa; praef. Takao, Chipon-goe, prope Matsuyama c. 6000 ped. alt., (S. SASAKI! Oct. 10, 1934. no. 4553. Typus in Herb. Orch. Fuk.)

42) **Bulbophyllum Tokioi** FUKUYAMA, sp. nov.

Epiphyticum, prostratum, toto glabrum, radicibus e nodis caulium (rhizomatium) emittentibus filiformibus  $\frac{1}{3}$ – $\frac{1}{2}$  mm. diametentibus flexuosis glabris, caulibus nudis gracilibus c.  $\frac{1}{2}$  mm. diametentibus remote foliatis.

Folia minuta, basi non pseudobulbosa, sessilia, elliptica vel orbiculato-elliptica orbiculatave, utrinque acuta vel obtusa, margine integra, c. 5–6 mm. longa, medio 3–4.5 mm. lata, utrinque glabra, crassissima, basi interdum vaginis minutis membranaceis ornata.

Scapus axillaris, erectus, gracillimus, c. 10 mm. longus, glaber, inferiore vaginulis paucis ornatus, superiore bifloratus et bracteis ellipticis acutis pedicellis subaequilongis instructus.

Flores albescentes, parvuli, subapertientes, pedicellis c. 1 mm. longis glabris. Sepala membranacea, utrinque glabra vel extus sparsim et brevissime glanduloso-pilosa, trinervata, sepalo intermedio oblongo apice acutiusculo basi plus minusve angustato integro c. 2.5 mm. longo medio 1 mm. lato, sepalis lateralibus oblique triangulato-ovatis apice acutis basi paullo contractis integris c. 2 $\frac{2}{3}$  mm. longis supra basin 1.5 mm. latis. Petala sepalis valde mniora, anguste oblonga, apice acuta, deorsum vix vel haud angustata, margine integra, c. 1–1 $\frac{1}{3}$  mm. longa, medio  $\frac{1}{3}$  mm. lata, membranacea, uninervata.

Labellum cum pede columnae c. 1 mm. longo articulatum, recurvum, ovato-triangulatum, c. 1.5 mm. longum, supra basin 1 mm. latum, apice obtusum, basi rotundato-acutum, margine integrum, utrinque glabrum, membranaceum, trinervatum. Columna  $\frac{2}{3}$  mm. longa, semiteres, margine breviter alata.

Nom. Jap. Hagakure-mamezuta-ran (nov.)

Hab. Formosa; praef. Taihoku, epiphytum in laurisilvis monte Kaposan prope Tonroku c. 800 m. alt., (SUZUKI-TOKIO! Apr. 26, 1933. no. 4548. Typus in Herb. Orch. Fuk.)

The species, which is most nearly related to the present species, is probably *Bulbophyllum gracillimum* HAYATA, from which one can easily distinguish it by the size of leaves and the form of lips.