**95. *Yoania amagiensis* Nakai & F. Maekawa,
a New Species of *Yoania*.**

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Planta succulenta scapis 1-6. Mycorrhizoma angulo recto complicatum ramosum, ramis teretibus 6-12 mm. latis apice obtusis pallidissime flavescentibus papillois, internodiis 3-20 mm. longis, squamis parvis (1-3 cm. longis) membranaceis dilute castaneis deltoideis verticillatim 4-7 demum emarcidis. Scapus erectus crassus simplex cum racemo 20-30 cm. altus 1,5-2 cm. latus glaberrimus laevis, in apice rami rhizomatis terminalis, parte epigaea colore "Burnt Lake"* vel "Victoria Lake,"* subterranea dilutissime flavida, squamis alternis deltoideis vel ovato-deltoideis apice subrotundis 10-22 mm. longis, 6-25 mm. latis, superioribus distantibus longioribus angustioribus, ex quarum axillis flores surgentibus. Inflorescentia terminalis corymboso-racemosa, floribus 6-11, odore floribus *Lilii aurati* simulante sed multo dilute. Flores pedunculis erectis glabris 4-6,5 cm. longis 0,5 cm. latis depresso-teretibus rectis vel subarcuatis, ovariis 2-2,5 cm. longis 8-9 mm. latis obtusotriquetro-fusiformibus. Sepala 3, aestivatione valvata sed in apice tantum imbricata, libera conniventia vel subpatentia carnosa concavo-elliptica rotunda laevia luciduscula 9-nervia, extus scapo concoloria vel dilutiora partibus superioribus colore "Baryta Yellow,"* intus flavida. Sepalum medium circ. 24 mm. longum 8 mm. latum. Sepala lateralialia circ. 27 mm. longa obliqua. Petala superiora 9-11-nervis leviter obliqui-concavique ovata, apice obtusa flavida, margine purpureo-punctulata minutissime serrulata sub lente minute papillosa. Labellum basi alte sulcatum et anteriore sub labium obtuse crasse saccato-calcaratum, circ. 2,2 cm. longum 1 cm. latum, cum petalis connivens, cum ovario late adhærens, ventre facie subellipticum sed anteriore leviter angustius apice obtusissime tridentatum. Labium dorso carinato-costatum ventre undulatum albo-papillosum margine integrum vel minute serrulatum purpureoque guttatum, medio impressum ad posteriorem altius sulcatum, sulco 2 mm. lato et pilis 1-4 mm. longis leviter virescenti-flavidulis dense sericeo-barbato basi ore calcaris utrinque processo unico obtuso-

* Corresponding to descriptions in Ridgway's "Color Standards."

General aspect of *Yoania amagiensis*, reduced to about one third of natural size.

conicoideo purpureo-punctato instructo. Pars labelli posteriore ambitu subovata 1 cm. lata. Saccus circ. 2 cm. longus 1 cm. altus albus succulentus posteriore profunde sphaerico-obtusius, extus glaber utrinque laterali 5-nervatus, nervis 3 posterioribus subparallelis, 1 quarto rectangulare curvato, et 1 quinto vel anterrimo in calcare sinuoso, intus papillosus maculis atrato-rubro-purpureis, interioribus majoribus laxioribus, fundo crasso plano, calcare recto vel leviter incurvato 6-8 mm. longo 4-5 mm. lato cylindrico apice rotundo intus barbato. Columna ambitu subovata leviter arcuata utrinque parcissime constricta 12 mm. longa 7,5 mm. lata dorso candida lucida lævis, parte medio cylindrico utrinque parcissime constricto apice rotundato 12 mm. longo 5 mm. lato glabro sed anteriore verruculoso, alis lateralibus parte medio angustioribus sublunaribus cum canalibus brevissimis 7-8 mm. longis parte medio adnatis, appendicibus basalibus obtuso-cuneatis 6 mm. longis, cornibus apicalibus circ. 4,5 mm. longis 2 mm. latis sursum papillosis, caput partis medii cornibus subaequilongum amplexantibus. Columna infra alba opaca papillosa valde concava cum alis elevatis late oblonga 1 cm. longa 7,5 mm. lata, fundo apicis stigmatosa viscidula margine undulato-4-dentata. Antheræ ovato-acuminatæ cum cornu

7-8 mm. longae 3,6 mm. latae rectae glabrae colore "Baryta Yellow"* 2-loculares, loculis oblique ovatis subglabris 2 mm. longis in centrum dilute fulvis. Pollinia 4, opaca colore "Light Lemon Yellow,"* 2 in paribus adnata subsessilia sed exterioribus obovato-oblongis apice rotundis basi acutis convexis 3 mm. longis 1,6 mm. latis, interioribus minoribus. Appendix alba mollis lunaris sed lobis cuneatis apice acutis sub lente minute papillosa viscidula 1 mm. longa 6 mm. lata.

Nom. Jap. Kibana-no-syôkiran. (nom. nov.)

Hab. Hondo: in silvis umbrosis montis Amagi, prov. Idzu.

(T. NAKAI: Julio 1931-Typus in Herb. Imp. Univ. Tokyo.)

The genus *Yoania* was first represented by *Yoania japonica*, an indigenous Orchid of Japan which was described by Maximowicz in 1873.¹⁾ A Sikkim-Himalayan species was next discovered and at first treated as identical with the Japanese plant, but later separated by King and Pantling under the new name *Yoania Prainii*.²⁾ In 1900 Finet published a third species *Yoania aberrans*,³⁾ which however, was transferred by Schlechter to *Aphyllorchis* in 1911,⁴⁾ and again to *Cymbidium* in 1919,⁵⁾ and finally by Nakai to *Pachyrrhizanthus* in 1931.⁶⁾ *Yoania amagiensis*, the species here described for the first time very closely resembles *Yoania japonica*, but is distinguished from the latter by its complicatedly branched rhizome, more numerous flowers (6-11) on the raceme, longer-stalked yellowish flowers, ovate petals, long and densely bearded labellum, and longer ovaries. The Himalayan *Yoania Prainii* can be easily distinguished from either *Yoania japonica* or *Y. amagiensis* by the numerous small, densely imbricated scales on the rhizome, by its colourless flowers, round 5-nerved petals, and glabrous, spurless, non-carunculated, beardless labellum. We suspect that the Himalayan *Yoania* might more properly be ascribed to a new genus, though our knowledge of it is derived only from the descriptions and figures.

1) C. J. Maximowicz: In Bulletin de l'Académie des Sciences de St. Pétersbourg XVIII, p. 68-69 (1873).

2) C. King & R. Pantling: In Annales of Royal Botanic Garden, Calcutta VIII, p. 175-176 (1898).

3) A. Finet: In Bulletin de la Société Botanique de France XLVIII, t. IX (1900).

4) R. Schlechter: In Engler' Botanische Jahrbücher XLV, p. 387 (1911).

5) „ : In Beihefte zum Fedde: Repertorium Specierum Novarum Regni Vegetabilis IV, p. 264 (1919).

6) T. Nakai: In the Botanical Magazine, Tokyo XLV, p. 110 (1931).

Explicatio tabulæ. A. Pars rhizomatis (mag. nat.) B. Flos cum sepalis et petalo laterali sejunctis ($\times 1.5$) C. Labellum longitudinali sectum ($\times$ ca. 1.5) D. Labellum ventrali visum ($\times$ ca. 1.5) E. Labellum dorsali visum ($\times$ ca. 1.5) F. Columna ventrali visa ($\times$ ca. 2) G. Columna dorsali visa ($\times$ ca. 2) H. Anthera dorsali visa ($\times 4$) I. Pars columnæ superior, ventrali visa ($\times 6$).