Short Communication

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A NEW SPECIES OF GOODYERA R.BR. (ORCHIDACAE) FROM SIKKIM, INDIA

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During the course of a botanical exploration in Sikkim, the author came across an interesting orchid species of *Goodyera*. This specimen was first matched with *Goodyera foliosa* and *Goodyera secundiflora*, but on a critical examination, it was found to be distinct and hence described as a new species.

Goodyera dongchenii sp.nov. Goodyera secundiflora Griff affinis sed differt caulis erectus, non decumbens ad basin. Folia 3-7.2 x 1.1-2.5 cm, cum basi sub-obtusa, admarginem integra, 3-5 nervia, uniformiter pallide viridia, non altroviventi colore informixta. Flores 7-9 mm longi, albo-viriduli, puberuli sepala apice viridia, petala falcatim oblanceolata, subacuta, apice virida, unus latus marginis apicaulis parum curvatus intus. Labellum 7-7.5 mm longum, ablum sed apice vivide. Columna brevis; rostellum breve. Pollinia dipartita. hood over column.Lip 7-7.5 mm long, sub-globularly saccate at the base, sac with slender setae inside; the apical lobe ovate acute, concave; the disc with 2 thick lamellae, white, green tipped. Column ca 5.5 mm long with two narrow triangular acute apical processes. Anther ca 3 x 1 mm, ovate, with a long beak, light brown. Pollinia 2, ca 3.9 mm long, narrowly clavate, orange yellow, bipartite, attached to an orange yellow gland; Stigma orbicular.

Type : India; Sikkim, Fambong Lho Wildlife Sanctuary, 6000ft- 7000 ft, 16th Sep. 1992, S.Z.

Goodyera dongchenii S.Z. Lucksom sp. nov. (fig-1-10). Epiphytic or terrestrial. Whole plant 25.5-30 cm tall. Stem 8-10 cm tall, erect, completely enveloped in 2.2-3.5 cm long, sub-tubular leaf sheaths. Leaves 5-7, lamina 3-7.2 x 1.1-2.5 cm, oblong-ovate to elliptic-oblong, acute, 5-nerved, crowded. Inflorescence 18.5-20 cm long, erect, puberulous, terete; the peduncle 7-8 cm long with three, 2.5-4.4 cm long, lanceolate, sub-acute, bracts; the raceme 11.5-12 cm long with many pedicellate flowers; the pedicellate ovary 0.7-1.1 cm long, ribbed, puberulous; the floral bracts 0.9-1.9 cm long, ovatelanceolate, acute, 3nerved, puberulous. Flowers 7-9 mm long, pale whitish green, puberulous. Sepals subequal, slightly spreading at the mouth, oblong-ovate sub-acute or obtuse, 1-nerved, concave puberulous, creamy white and green tipped; the dorsal sepal 8.8-9 x 3.5-4 mm, concave, tip slightly upturned; the lateral pairs 8.8-9 x 4-4.2 mm concave. Petals 8-8.2 x 2.2-2.6 mm, falcately oblanceolate, sub-acute, one side of apical margin slightly folded, 1-nerved, translucent white and green tipped, connivent with dorsal sepal to form

Lucksom 210 a (Holotype : CAL; Isotype 210 b, 210 a Gangtok Forest Department Herb).

Fls : Sep/Oct

Ecology : Grows on the shady forest floor of montane wet temperate forest and also on moss covered trees of *Castanopsis tribuloides* and *Quercus lamellosa*.

The new species is closely allied to Goodyera secundiflora Griff and Goodyera foliosa Benth ex Hook f. from which it differs in following characters.

| Ga | oody <i>era foliosa</i> | Goodyera secundiflo r a | Goodyera dengchenii |
|----|--|--|---|
| 1. | Stem: Decumbent at the base | Decumbent at the | Not decumbent at the base |
| 2 | Leaves : 6.25 - 8.75 x | base 3.75-8.75 x1.8-3.13 | $3-7.2 \times 1.1-2.5 \text{ cm}$ |
| | 1.8-4.13cm, 3-5 nerved, oblique base and undulate edges. Flowers: ca 8 mm | pale green mottled with darliev shade, entire margins. ca 8.7 mm long, | 3-7.2x1.1-2.5 cm 3-5 nerved, with obtuse baoc and entire margins. 7-9 mm long, pale |
| Э. | long, pinkish or orange yellow | Yellowish pink | whitish green |
| 4. | Petals : obliquely rhomboid with acute apices and long clawed base | Falcately oblanceo- late, the apex obli- quely beaked, cre- nate on the outer | Falcately oblanceolate, sub-acute, pale whitish with green tip. One side of the margin slightly folded |

margin

White with green

tipped apical lobe

- 5. Lip: with sub-globular yellow sac and with
- White with green tipped apical lobe

orange white apical lobe

- 6. Column and, Short Rostellum long
 7. Pollinia : Vertically Bipartite grooved
- 8. Habitat : Terrestrial Terrestrial

Short

Bipartite

Both terrestrial and epiphytic

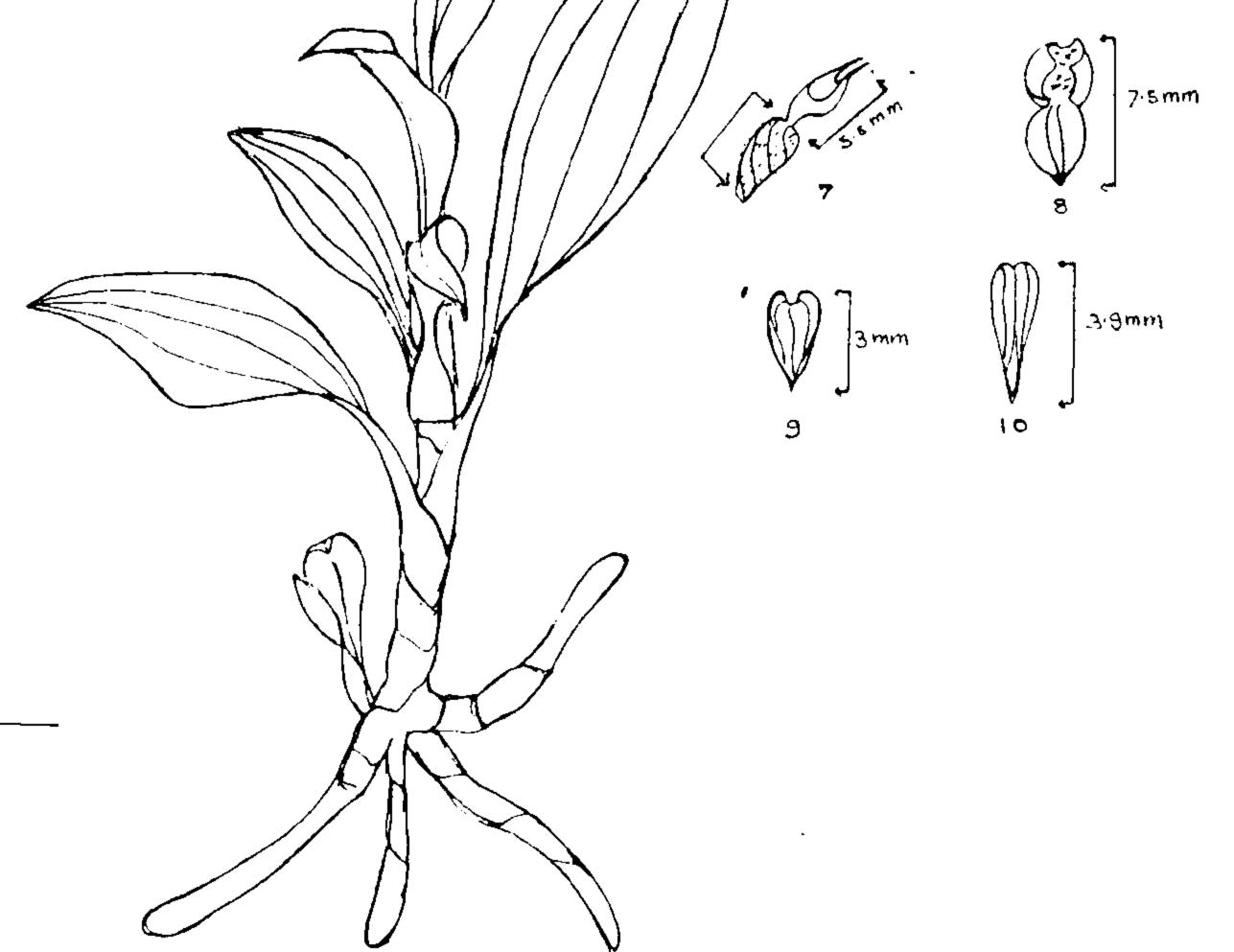
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Figs. 1-10 Goodyera simplicifolia sp. nov.

1. Whole plant; 2. A single flower; 3. Floral bract; 4. Dorsal sepal; 5. Lakral sepal; 6. Petals; 7. Column and pedicellate ovary; 8. Lip; 9. Anther 10. Pollinia.

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