Teuscheria horichiana, a New Orchid from Costa Rica

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The genus *Teuscheria* was set up by Garay (1958) to accommodate a new orchid species from the Ecuadorian Andes, *Teuscheria cornucopia*. This species, being the only one known to belong to the genus at the time of description, is to be considered the type species. About a year later, Garay (1959) added *Teuscheria pickiana*, a species originally described as *Bifrenaria pickiana* by Schlechter (1912) and considered to belong to the genus *Xylobium* by L. O. Williams (1955) as well as a third species, *Teuscheria venezuelana* to the genus.

Some years later, another species, originally described as *Bifrenaria wageneri* by H. G. Reichenbach (1854), was transferred to the genus *Teuscheria* as *Teuscheria wageneri* and *Teuscheria venezuelana* was found to be synonymous to it (Garay 1967).

A fourth species discovered in Colombia by Gilberto Escobar was described by Garay (1970) as *Teuscheria elegans*, and Robert Dressler (1972) brought the species count up to five by adding *Teuscheria dodsonii*. The present status of the genus was attained by the addition of *Teuscheria integrilabia*, by Dodson (1978).

Back in 1980, one of us (R. Jenny) was informed by Clarence Horich that he had found an unknown *Teuscheria* in Costa Rica. Upon request, Horich sent a few bulbs which were duly attached to a piece of *Dicksonia* and kept in the greenhouse. A few years later, the specimen was "rediscovered" by Bob Dressler upon a visit to Switzerland who agreed with it being a species hitherto undescribed.

In 1986, during a visit to Costa Rica, Rudolf Jenny, on a collecting trip with Clarence Horich to the Serapiqui area, purchased one more specimen of the undescribed *Teuscheria* from a local collector and collected a smaller specimen of the same kind along the Rio Sarapiqui. This smaller plant flowered a few months after his return to Bern, and color slides of the flower and a drawing of the plant were sent to Dressler for verification. The species was illustrated in a book about the orchids of Costa Rica (Rodriguez, et al., 1986) as *Teuscheria sp.*

Although Garay, in his original diagnosis of the genus (Garay 1958), mentioned a resupinated flower, this was certainly due to the fact that at that time he considered *Teuscheria* to be monospecific. Whereas *Teuscheria cornucopia*, *Teuscheria pickiana* and *Teuscheria wageneri* have resupinated flowers, *Teuscheria dodsonii*, *Teuscheria elegans* and *Teuscheria integrilabia*, as well as the new species — *Teuscheria horichiana* — have not. All other floral

characteristics and all vegetative characteristics, however, indicate these species to belong to the genus *Teuscheria* in spite of this anatomical difference.

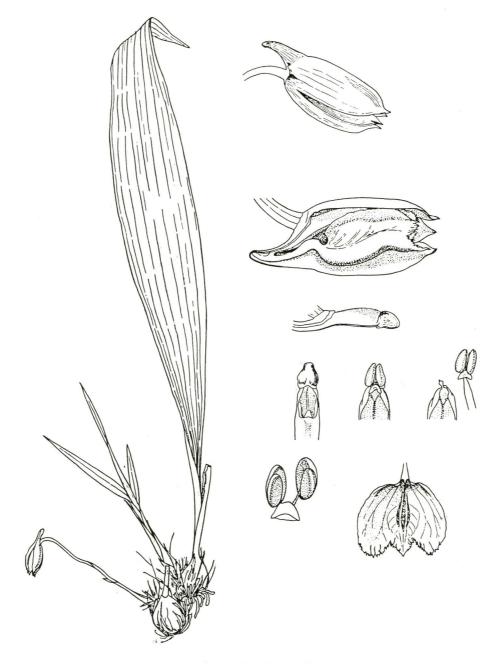
Just as *Teuscheria dodsonii*, this new species has a three-lobed lip faintly curled at the apex. However, the three parallel longitudinal ribs from the base to the center of the labellum clearly distinguish this new species from *Teuscheria dodsonii*, and it can readily be distinguished from any other orchid species described.

Teuscheria horichiana Jenny & Braem, spec. nov.

Epiphytica, caespitosa, usque ad 35 cm. alta; rhizomata valde abbreviato; radicibus filiformibus, flexuosis, glabris; pseudobulbis conico-ovoideis, apice monophylis: foliis plicatis, lanceolato-ellipticis, acutis, basin in petiolum attenuatis, usque ad 35 cm. longis, 3.5 cm. latis; pedunculo unifloro, erecto, tenui; floribus non resupinatus, conspicuis, sepalis petalisque olivaceous, labello albido, lobi terminali in parte purpureous; sepalis acutis, dorsali oblongo-obovato, lateralibus ovato-oblongis, pedi columnae longe producto tota basi adnatis; petalis oblongo-oblanceolatis, acutis; labello unguiculato, trilobato, lobis subaequalis, acutis, margine crenatis, lobo terminali convexo, papillosa, callo trilamellato, columna breviuscula, albida; pollinia 4.

Teuscheria horichiana is an herbaceous epiphyte, tufted growing and attaining an overall height of about 35 cm. The plants have a very short rhizome. The roots are thread-like, flexible, glabrous. The pseudobulbs are conical, more or less ovate, bearing one single apical leaf. The vegetative leaves are elliptic-lanceolate, acute, with a terete petiole at the base. The leaves are up to 35 cm. long and up to about 3.5 cm. wide. The erect, slender peduncle bears one single, nonresupinate, showy flower of which the seapals and the lateral petals are colored olive-green. The labellum is white, the apical lobe partly suffused with purple. The sepals are acute, the dorsal one broad-ovate, the lateral ones oblong-ovate. The base of the column foot is completely united with the base of the labellum. The lateral petals are oblong-oblanceolate, acute. The labellum is clawed, trilobed with nearly equal lobes, acute, crenate at the margins. The apical lobe is convex, papillose with a three-lamellate crest. The column is short, white; there are four pollinia.

Holotype: Conservatoire du Jardin Botanique, Chambesy, Geneva (CH) deposited under Nr. JE-60, 10.10.86. Costa Rica, Rainforest, Cordillera Central near Rio Silencio, below La Balsa, 850 m. above sea level, col. Horich sine numero, ex cult. R. Jenny.



Teuscheria horichiana Jenny x Braem.



Teuscheria horichiana Jenny x Braem.



Teuscheria pickiana Garay.

Key to the Species of Teuscheria

1. Flowers resupinate

	Pseudobulbs	(cl	u	st	e	re	d	l;	1	0	b	es	5	of	İ	tł	16	3	l	al	96	el	lι	11	n
	subequal																									3

1a. Flowers non-resupinate

- 4a. Labellum entire Teuscheria integrilabia
 - 5. Flowers mainly rose..... Teuscheria elegans
 - 5a. Flowers not mainly rose 6

 - 6a. Flower parts obtuse; crest on main lobe of labellum not three-lamellate; flowers not mainl colored olive-green Teuscheria dodsonu

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Orch. Dig., Oct.-Nov.-Dec., 1987