ISSN 2325-4785 New World Orchidaceae – Nomenclatural Notes Nomenclatural Note – Issue No. 110

October 17, 2022

Acianthera ortizii Uribe-Velez, Sauleda & Szlachetko (Orchidaceae) an Addition to the Flora of Colombia.

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Abstract

A new species *Acianthera* (*Acianthera ortizii* Uribe-Velez, Sauleda & Szlachetko) (Orchidaceae) is described from La Bota Caucana, department of Cauca, Colombia.

Historically the genus *Acianthera* Scheidw. (Allg. Gartenzeitung 10: 292, 1842) was not recognized when established and the species were initially included in the genus *Pleurothallis* R. Br. (Luer, 1986). Lindley treated the species in this group as *Pleurothallis*, ignoring the genus *Acianthera*. Luer (1986) first used *Acianthera* as a subgenus of *Pleurothallis*.

The molecular analyses of Pridgeon *et al.* (2001) reported that the genus *Pleurothallis* is polyphyletic. A molecular study (Pridgeon & Chase, 2001) of the species of *Pleurothallis* subg. *Acianthera* (Scheidw.) Luer demonstrated that they form a natural group, therefore Pridgeon & Chase (2001) reestablished the genus *Acianthera*.

The genus *Acianthera* consists of 300 species according to Karremans *et al.* (2016), Karremans & Davin (2017) and Karremans & Vieira (2020) of which 32 species are found in Colombia (WCSP).

A species corresponding to the genus *Acianthera* was discovered growing epiphytically in the department of Cauca, in the area known as La Bota Caucana. Although the department of Cauca, especially the area known as La Bota Caucana, represents a small percentage of Colombia's territory, its mountainous system creates a high diversity of microhabitats, which has resulted in species richness and endemism. The region owes its name to the shape of the region, which resembles a boot. This species does not correspond to any of the known species. We here describe it as a new species.

Acianthera ortizii Uribe-Velez, Sauleda & Szlachetko, sp. nov.

Type: Colombia, Department of Cauca, from La Bota Caucana, near the headwaters of the Caqueta River. From cultivation. Collector: Jorge Luis Aguirre, s. n., 2021. (Holotype, HJPU).

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Etymology

This species is named in honor of Pedro Ortiz Valdvieso.

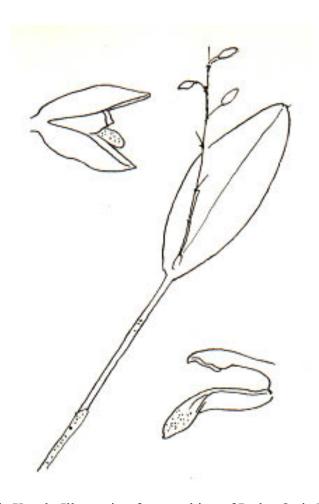
Diagnosis

Acianthera ortizii florally is similar to Pleurothallis macrophylla Kunth (in F. W. H. von Humboldt, A. J. A. Bonpland & C. S. Kunth, Nov. Gen. Sp. 1: 365, 1816) a species found in Central and South America, which should be included in the genus Acianthera. It differs in that P. macrophylla has an erect inflorescence where A. ortizii has a pendant inflorescence. In addition, the apex of the labellum is obtuse in A. ortizii but acute in P. macrophylla and in A. ortizii the wings of the column are triangular acute, P. macrophylla has wings, which are obtuse. Both species A. ortizii and P. macrophylla characteristically correspond more to the definition of the genus Acianthera than to Pleurothallis.

In habit *A. ortizii* resembles *Acianthera breedlovei* Soto Arenas, Solano & Salazar from Mexico and Guatemala differing in the flower segments. The petals of *A. breedlovei* are attenuate and the labellum is trilobed. *Acianthera ortizii* has sessile petals and the labellum is not trilobed.

Acianthera ortizii is similar in flower morphology to Acianthera aculeata (Luer & Hirtz) Luer from southeastern Ecuador. Acianthera ortizii differs in having a pendent inflorescence, simultaneous-flowered, leaf is ligulate-lanceolate, flowers are tubular, not broadly opened, nonresupinate, dorsal sepal is oblong-obovate, glabrous on inner surface, synsepal with minutely ciliate margins, petals are acute, labellum is yellowish with reddish apex, column with obliquely triangular wings. Acianthera aculeata differs from A. ortizii in having an erect inflorescence, successively-flowered, leaf is elliptic, flowers are campanulate, resupinate, dorsal sepal is ligulate, rigose on inner surface, synsepal glabrous, petals truncate, labellum blackish, column wings obliquely elliptic-obovate.

Another species florally similar to *A. ortizii* is the Colombian species *Acianthera pazii* Luer, but differs in having successively few-flowered inflorescence, flowers broadly opened and petals are truncate, the labellum is densely papillate in apical third and column lacks wings.



Pleurothallis macrophylla Kunth. Illustration from archive of Pedro Ortiz Valdivieso.

Description

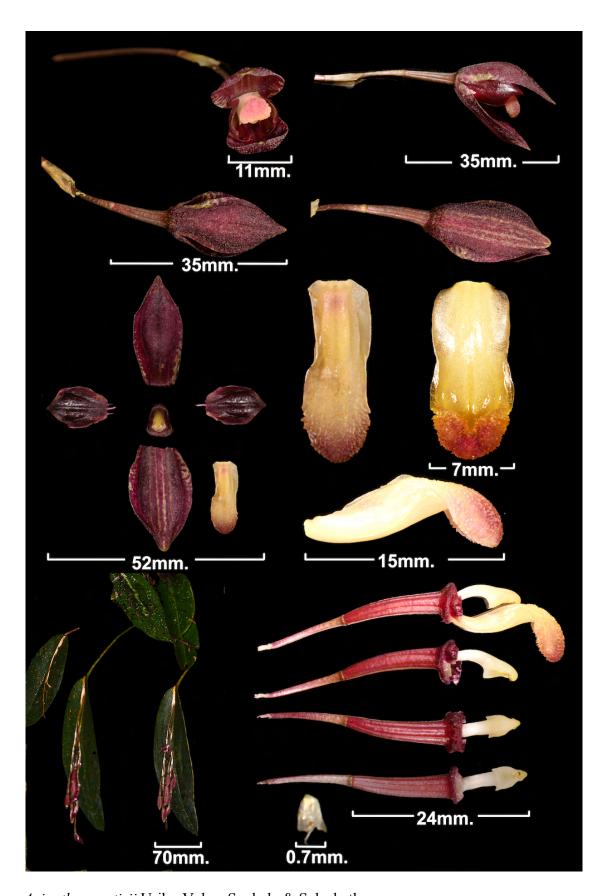
Plant epiphytic, caespitose, pendant, to 42 cm; ramicaul slender, round, to 14 cm long, 3 mm thick; leaf narrowly elliptic to ligulate-lanceolate, coriaceous, acute, to 28 cm long, 4 cm wide; inflorescence pendant, to 4-flowerd, simultaneous-flowered; floral bracts membranecous, tubular, acute, to 3.5 cm long; pedicel cylindrical, to 14 cm long; ovary ridged, to 14 cm long, 2 mm thick; flowers reddish-purple, tubular, not broadly opened, nonresupinate; dorsal sepal oblong-obovate, glabrous on inner surface, subacute, to 2.4 cm long, 1.2 cm wide; lateral sepals connate, elliptic, subacute, with minutely ciliate margins, to 2.6 cm long, 1.5 cm wide; petals sessile, obovate to elliptic, acute, centrally fleshy, to 1 cm long, 1 cm wide; labellum ligulate, obtuse, yellow with reddish papillate apex, to 15 cm long, 7 mm wide, with two parallel fleshy keels that extend to the distal part of the labellum; column, arcuate, rounded, to 1 cm long, 1.5 mm wide, with obliquely elliptic-obovate to triangular, acute wings.



Acianthera ortizii Uribe-Velez, Sauleda & Szlachetko.



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