

Pleurothallis concaviflora *C. Schweinfurth sp. nov.*

Herba parva, caespitosa. Radices numerosae, fibrosae. Caules filiformes. Folium ellipticum vel oblongo-ellipticum, sessile, apice obtuso tridenticulatum, valde coriaceum. Pedunculi fasciculati, uniflori, cum flore usque ad folii medium tendentes. Flos bilabiatus, carnosus. Sepalum dorsale ovato-ellipticum. Sepala lateralia in laminam suborbicularem connata. Petala multo minora, lineari-oblonga, apice crasso incurvata. Labellum profunde conduplicato-concavum, triangulari-ovatum, basi cum auriculis retrorsis et in medio callo hippocrepiformi ornatum.

Plant small, caespitose, up to 9 cm. tall, probably epiphytic. Roots fibrous, flexuous, numerous, glabrous. Stems filiform, scarcely stouter than the roots, about 3–7 cm. long, provided near the base with a close tubular evanescent sheath, slightly enlarged toward the junction with the leaf. Leaf elliptic or oblong-elliptic, sessile, about 3–3.8 cm. long and 7–11 mm. wide, minutely tridenticulate at the obtuse apex, marginate, thickly coriaceous in the dried specimen with the mid-nerve more or less sulcate above and carinate beneath. Peduncles numerous, fascicled, 1-flowered, short. Flowers small, rather fleshy. Sepals apparently closely pubescent on the inner surface. Dorsal sepal concave, ovate-elliptic when expanded, about 4–4.7 mm. long and 2.4–3.2 mm. wide, acute, 3-

nerved with the mid-nerve dorsally carinate. Lateral sepals connate into a deeply concave lamina which is suborbicular when expanded; lamina 4–5 mm. long, 4–4.4 mm. wide, acute, 4-nerved, with the inner nerves dorsally somewhat carinate below. Petals much smaller, oblong-linear, sometimes with a slightly dilated base, acute and incurved at the thickened apex, about 2.1–2.5 mm. long, up to 1 mm. wide, 1-nerved, with a prominent dorsal keel. Lip simple, deeply conduplicate-concave, triangular-ovate, with a pair of retrorse triangular-lanceolate obtuse auricles, about 2 mm. long in natural position, acute with an incurved mucronate apex; disc 3-nerved, slightly narrowed on each side below the middle, provided with a hippocrepiform callus at the base. Column very short and stout.

Pleurothallis concaviflora is apparently allied to *P. excavata* Schltr., but has longer stems, shorter leaves, almost twice smaller flowers and dissimilar petals. It is vegetatively similar to *P. Sanchoi* Ames, but has very different petals and a dissimilar lip.

COSTA RICA, "Colinas de San Pedro de San Ramón. 14-XI-1927."
A. M. Brenes (134) 1668 (TYPE in Herb. Ames No. 43774).