

Pleurothallis sigmoidea A. & S. *sp. nov.* Herba epiphytica, *P. monstrabilem* in mentem revocans. Rhizoma repens. Caules secundarii brevissimi, approximati, monophylli. Folium oblongum, vel lineare, in siccitate saepe conduplicatum, carnosum ut videtur. Inflorescentiae laxae racemosae, folia multo superantes. Sepala lateralibus ovato-lanceolata, in dorso valde carinata. Sepalum dorsale ellipticum, ecarinatum, valde concavum. Petala lanceolata, in basi biauriculata. Labellum longe unguiculatum, lanceolatum, sigmoideum.

Plant forming dense tufts or mats. Rhizome creeping, entirely concealed by loose scariosus imbricating sheaths. Roots very numerous, flexuous, fibrous, glabrous. Stems very short, about 8 mm. long or less, approximate, monophyllous, entirely concealed by loose imbricating scariosus sheaths. Leaf elliptic-oblong to linear, erect, commonly conduplicate, apparently fleshy in the living state, 1–3.6 cm. long, about 4–6 mm. wide when spread out, acute, sessile. Scapes solitary, much exceeding the leaves, up to 10.1 cm. long, filiform, with 1–3 remote tubular sheaths. Raceme loosely few-flowered, rachis more or less fractiflex. Foral bracts infundibuliform, shorter than or subequaling the pedicels. Sepals minutely papillose on the outer surface, minutely ciliolate. Lateral sepals ovate-lanceolate, 7.5–9.9 mm. long, 3.6–4.8 mm. wide, oblique, acute, mucronate, dorsally carinate with a high keel which is more or less pubescent and denticulate, 3-nerved, usually with an additional indistinct outer nerve. Dorsal sepal elliptic, cucullate, 6.9–9.5 mm. long, 4–6 mm. wide, acute or obtuse, 5- to 7-nerved. Petals lanceolate, 5–5.6 mm. long, with a minute rounded auricle on each side of the base, obtuse, margins irregularly serrulate, oblique, 1-nerved. Labellum simple, lanceolate, strongly sigmoid in natural position, long unguiculate; claw about 2 mm. long, oblong, upcurved or angled, with a minute suborbicular auricle on either side of the base, fleshy; lamina very fleshy, when extended 5–6 mm. long, about 3 mm. wide near the base, broadly rounded at the apex, margins denticulate in the basal portion. Column arcuate, subequaling the petals, with a broad denticulate wing above, extended into a fleshy foot which runs nearly to the anterior margin of the lateral sepals. Ovary densely hispid.

Pleurothallis sigmoidea is vegetatively similar to *P. monstrabilis* Ames, but the flowers do not suggest any close ally. The specific name is in allusion to the sigmoid lip.

This species was described from many dried plants supplemented by fresh flowers preserved in alcohol.

COSTA RICA, Province of Guanacaste, Vicinity of Tilarán, *Paul C. Standley & Juvenal Valerio 46653*, January 10–31, 1926. 500–650 meters altitude. (TYPE in Herb. Ames No. 33477); *Standley & Valerio 44167*; *Standley & Valerio 44181*; *Standley & Valerio 44215*; *Standley & Valerio 44554*: Province of Guanacaste, El Arenal, *Standley & Valerio 45088*, January 18–19, 1926. 485–600 meters altitude; *Standley & Valerio 45095*; *Standley & Valerio 45141*; *Standley & Valerio 45205*: Province of Guanacaste, Los Ayotes, near Tilarán, *Standley & Valerio 45583*, January 21, 1926. 600–700 meters altitude; *Standley & Valerio 45599*: Province of Guanacaste, Aguilares, *Standley & Valerio 46350*, January 29, 1926. About 600 meters altitude.

The collectors' notes in the various numbers cite the facts that this plant grows on trees and that the flowers are pale green, pale yellow-green or yellowish, all with dark red or dark purple dots.