

Pleurothallis segregatifolia A. & S. *sp. nov.* Herba nana. Caules minuti, caespitosi, monophylli. Folia-suborbicularia vel obovata, apice rotundata, inferne plus minusve cuneato-angustata. Inflorescentiae folia erecta multo superantes, sub folia orientes. Racemi laxe pauciflori. Sepala lateralia oblique semiovata, per dimidium basalem connata, apice cucullato-obtusa. Sepalum dorsale elliptico-oblongum, cornu obtuso terminans. Petala falcato-linearria, breviora. Labellum expansum cuneato-obovatum, trilobatum.

Plant dwarf, 4-7.5 cm. tall. Roots stout for the plant, fibrous, flexuous, glabrous. Stem minute, caespitose, 4-6 mm. (rarely up to 9 mm.) long, monophyllous, invested below with tubular scarious sheaths. Leaf suborbicular to obovate or cuneate-spatulate, 6 mm. (rarely 12 mm.) long, commonly 4-5 mm. wide, rounded and minutely 3-denticulate at the apex, more or less cuneate-narrowed below, margined, fleshy in the formalin material, coriaceous when dry, the mid-nerve prominently sulcate above and carinate beneath; petiole 1-6 mm. long, channelled, gradually merging into the cuneate leaf-base. Inflorescences much surpassing the leaf, inserted 2-4 mm. below the leaf, one to several to a stem. Peduncles filiform, 1.9-4.4 cm. (usually about 3 cm.) long below the raceme. Raceme suberect or flaccid, 1-3.2 cm. long at maturity, loosely flowered. Rachis fractiflex. Floral bracts minute, infundibuliform. Flowers up to eleven (usually less), membranaceous. Lateral sepals obliquely semiovate, connate about to their middle, forming a distinct mentum with the column-foot, about 3.8 mm. long, free part 1.6 mm. wide below, obtuse at the cucullate tip, carinate without, 2-nerved. Dorsal sepal elliptic-oblong, terminating in a hollow obtuse horn, 3.8-4.2 mm. long, 1.5 mm. wide, 3-nerved, dorsally carinate. Petals linear-falcate, about 3 mm. long, .8-.9 mm. wide, obtuse or subacute, very slightly broader above the middle, 1-nerved. Labellum ligulate and recurved in natural position, 3-lobed near the apex with the lateral lobes erect, when expanded lanceolate-obovate in outline, about 2.8 mm. long (excluding the minute claw), 1.2 mm. wide above the middle, 3-nerved; lateral lobes semicuneate with a rounded apex; middle lobe orbicular, recurved. Column about 2.1 mm. long, arcuate, terminating in a petaloid 3-lobulate wing.

The nearest allies of *Pleurothallis segregatifolia* are the West Indian *P. elegantula* Cogn. and *P. trilobata* Fawc. & Rendle, the former differing markedly in flower structure, the latter in vegetative and floral characters.

The sepals and lip appear purple in the flower preserved in formalin.

COSTA RICA, La Fuente, Peralta, C. H. Lankester 914, June 24, 1924. "Flower hyaline & vinous purple." On trunks of tree ferns. (TYPE in Herb. Ames No. 28691.)