



FIGURE 3. *Lepanthes sanjuanensis* Bogarín & Karremans. A — Habit. B — Flower. C — Perianth flatten. D — Lip, spread. E — Column and lip, lateral view. F — Pollinarium and anther cap. Drawn by D. Bogarín from the holotype.



FIGURE 4. Flowers of the new species of *Lepanthes*. A—*L. erubescens* (F. Pupulin 4027). B—*L. sandiorum* (F. Pupulin 7929). C—*L. sanjuanensis* (D. Bogarín 7773). Photographs by F. Pupulin (A, B) and D. Bogarín (C).

Lepanthes sanjuanensis Bogarín & Karremans, *sp. nov.*

TYPE: Costa Rica. San José: Pérez Zeledón, San Isidro de El General, carretera a Dominical, desvío hacia el Alto de San Juan, 2 km al noroeste de la antena, 9°20'36.8"N 83°46'07.8"W, 1187 m, bosque húmedo premontano, sobre árboles en bosque secundario y primario, 3 setiembre 2011, D. Bogarín 9234 & A.P. Karremans (holotype, JBL!; isotype, CR!). FIG. 3, 4C.

Species habitu cum L. elegans Luer optime congruens, sed foliis purpureis-viridis non reticulatis, lobulis supernis petalorum oblongis, rotundatis, marginibus petalorum rubris, lobulis inferis oblongis, rotundatis, in apice divergentibus et labello rubro-aurantiaco differt.

Plant epiphytic, caespitose, pendent or suberect, up to 30 cm tall. *Roots* slender, flexuous, to 1 mm in diameter. *Ramicauls* slender, suberect, 5–19 cm long, enclosed by 7–12 minutely ciliate, blackish, tightly adpressed lepanthiform sheaths, the ostia minutely ciliate, ovate, acute, not dilated. *Leaves* coriaceous, ovate to elliptic, acute to acuminate, emarginate with a short apiculus, conduplicate, adaxially purplish, abaxially purplish-green, not reticulate, 6.0–7.5 × 3.0–3.4 cm, the rounded base narrowing into a petiole less than 3 mm long. *Inflorescence* racemose, distichous,

glabrous, successively flowered, born beneath the leaf, shorter than the leaves, up to 4 cm long, peduncle 2–2.5 cm long, rachis 1.0–1.5 cm long. *Floral bracts* ovate, acuminate, conduplicate, membranaceous, 1 mm long, muriculate. *Pedicels* 5 mm long, persistent. *Ovary* to 2 mm long, glabrous. *Flowers* with yellow sepals, stained, the petals yellow stained with red along the margin of the upper lobe, the lip pinkish, the column purple-pink basally, yellow apically. *Dorsal sepal* ovate, acute, entire, dorsally with three keels, connate to the lateral sepals for about 1 mm, 1.9 × 3.7 mm. *Lateral sepals* narrowly ovate to elliptic, acute, entire, dorsally with three ciliate keels, connate for 1 mm, 3.2 × 1.2 mm. *Petals* transversely bilobed, 1.1 × 3.5 mm, the upper lobe oblong, rounded, entire, the lower lobe oblong, rounded, ciliate. *Lip* bilobate, adnate to the column, the blades oblong, ciliate with rounded ends, the apex of each lobe provided with conspicuous bristles, 0.8 × 1.2 cm, the connectives terete, oblong, to 5 mm long, the body thick, oblong, rounded, connate to the base of the column, the appendix pubescent, inconspicuous. *Column* cylindrical, to 1.5 mm long, mucronate, the anther dorsal and the stigma ventral. *Pollinia* two, pyriform. *Anther cap*, oblong, cucullate.

DISTRIBUTION: only known from south-east Costa Rica, on the Pacific watershed of the Talamanca mountain range.

HABITAT AND ECOLOGY: a population was found epiphytically in premontane moist forest in secondary vegetation, at around 1000-1200 m of elevation.

ETYMOLOGY: named after the type locality of Alto de San Juan, along the road from San Isidro de El General to Dominical.

Lepanthes sanjuanensis is similar to *L. elegans* Luer. Both are characterized by the relatively large plants up to 30 cm tall, the flowers are small compared to the plant habit, produced below the leaf, and the lip is minute with conspicuous long-ciliate apices. However, *L. sanjuanensis* is mainly distinguished by the green-purple, not reticulated leaves (vs. reticulated), the petals with the upper lobe oblong, rounded, with the margins red (vs. obliquely ovate, with a red blotch at

the middle of the upper lobe), the lower lobe oblong, rounded, divergent at apex (vs. obliquely triangular, acute, converging) and the pinkish or orange-red lip (vs. yellow).