

*Lepanthes erubescens* Bogarín, Pupulin & Karremans, *sp. nov.*

TYPE: Costa Rica. San José: Pérez Zeledón, Santa Elena de El General, Quebrada Los Granados, 710 m, collected by Vicente Juárez-Pérez, 17 March 2002, flowered in cultivation at Jardín Botánico Lankester, 29 June 2002, *F. Pupulin 4027* (holotype, JBL). FIG. 1, 4A.

*A Lepanthes limbellata* Endrés ex Luer similis, sed planta pendula, inflorescentiis folii portatis adaxialibus, lobo superno petalorum ovato acuto latiore lobum inferum superantibus et lobulis labelli ovatis.

Plant epiphytic, caespitose, pendent, up to 15 cm tall. *Roots* slender, flexuous, to 0.5 mm in diameter. *Ramicauls* slender, pendent, 4.5–12 cm long, enclosed by 8 minutely ciliate, lepanthiform blackish sheaths, the ostia minutely ciliate, ovate, acute, adpressed. *Leaves* coriaceous, elliptic to ovate or suborbicular, acute to subacuminate, emarginate, with a short apiculus, purplish-green, 2.5–4.0 × 1.5–2.6 cm, the rounded base narrowing into a petiole less than 3 mm long. *Inflorescence* racemose, distichous, glabrous, successively flowered, borne above the leaf, shorter than the leaves, up to 2.7 cm long, peduncle 1.9 cm long, rachis 0.8 cm long. *Floral bracts* ovate, acuminate, conduplicate, membranaceous, 1 mm long, muriculate. *Pedicels* 2 mm long, persistent. *Ovary* to 2 mm long, glabrous. *Flowers* with yellowish-orange sepals, the petals scarlet red, the upper lobe with a yellow stain, the lip reddish-pink, the column scarlet. *Dorsal sepal* ovate, acute, entire, dorsally with three keels, connate to the lateral sepals for about 0.6 mm, 3.6 × 2.2 mm. *Lateral sepals* narrowly ovate to elliptic, acute, entire, dorsally with three ciliate keels, connate for 0.8 mm, 3.6 ×

1.8 mm. *Petals* transversely bilobed, entire, 5.0 × 1.3 mm, the upper lobe ovate, acute, the lower lobe ovate, narrowly triangular, narrower and shorter than the upper lobe. *Lip* bilobate, adnate to the column, the blades ovate with rounded ends, embracing the column 1.3 × 1.7 cm, the connectives terete, oblong, to 0.3 mm long, the body thick, oblong, rounded, connate to the base of the column, the appendix thick, oblong, pubescent, cylindric. *Column* cylindric, to 2 mm long, mucronate, the anther apical and the stigma ventral. *Pollinia* two, ovoid. *Anther cap*, triangular, cucullate.

PARATYPES: Costa Rica. Puntarenas: Buenos Aires, Volcán, 09°13'N, 83°26'W, ca. 450 m, bosque muy húmedo premontano transición a basal en bosque secundario muy alterado a orillas de un riachuelo, 17 abril 2012, *A.P. Karremans 5312*, *J. Cambroneró & J. Gemmel* (JBL-Spirit!) Same locality and date, *A.P. Karremans 5314* (JBL-Spirit!). San José: Pérez Zeledón, El Alto de San Juan, ca. 1300 m, collected by Jeremy Quesada Gonzalez, flowered in cultivation in the collection of Daniel Jiménez at Paraíso de Cartago, 12 Julio 2012, *J. Quesada s.n.* (JBL-Spirit!).

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

HABITAT AND ECOLOGY: epiphytic in secondary forest in premontane wet forest, basal belt transition, premontane wet forest and premontane moist forest, at 450–1150 m of elevation.

EPONYMY: from the Latin *erubescens* “reddening, blushing” in reference to the scarlet red color of the petals.

*Lepanthes erubescens* resembles *L. limbellata* Endrés ex Luer. However, it can be distinguished mainly by the the pendent plants (vs. erect), with inflorescences that is borne above the leaf (vs. behind), the upper lobe ovate, acute, 1.3 mm wide, larger than the lower lobe (vs. narrowly ovate-triangular, narrowly obtuse, 0.6 mm wide, equal in length to the lower lobe) and the ovate lip blades (vs. narrowly oblong).

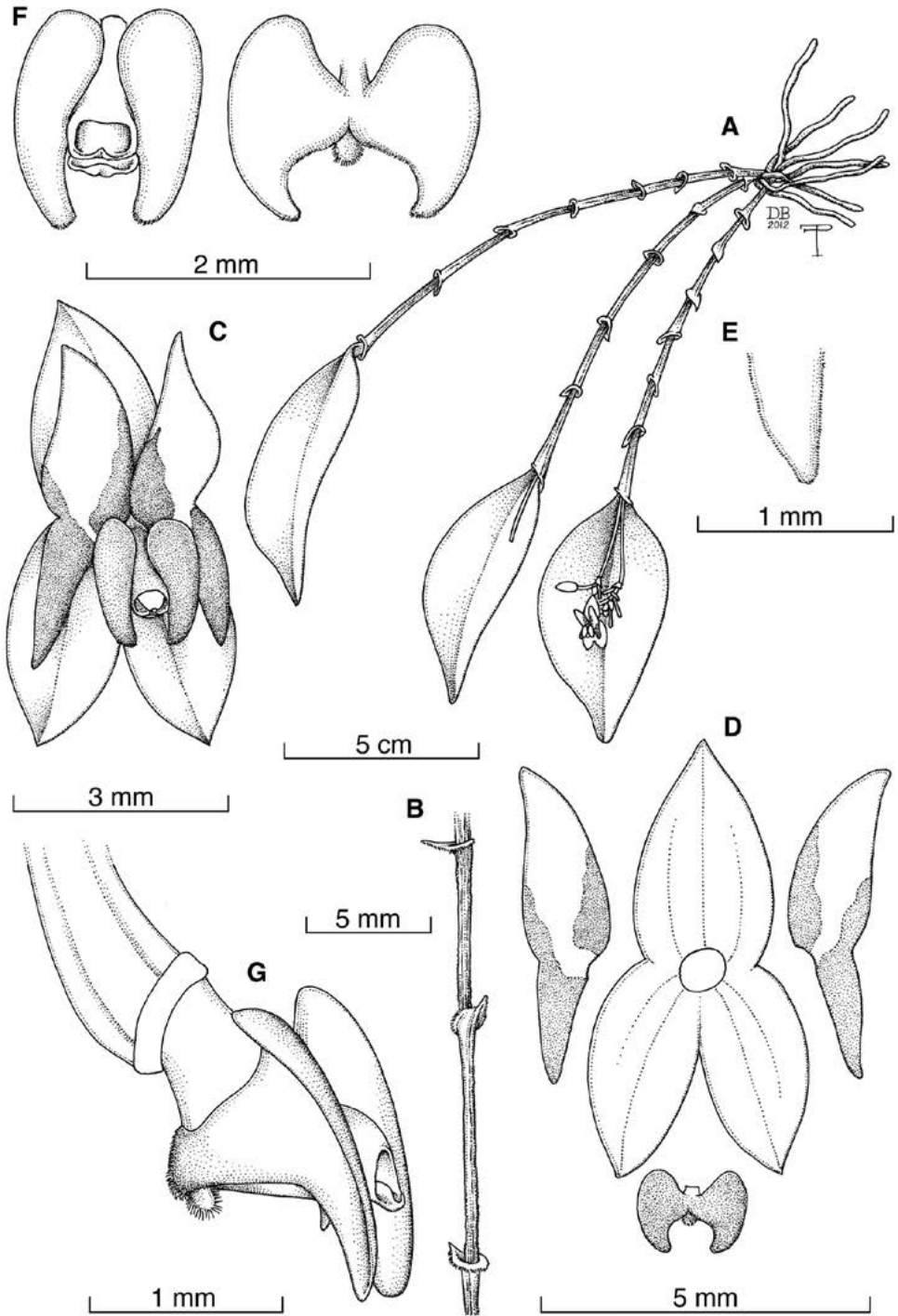


Figure 1. *Lepanthes erubescens* Bogarín, Pupulin & Karremans. A — Habit. B — Ramicaul. C — Flower. D — Perianth FLATTEN. E — Apex of petal. F — Lip, front view with the column and spread without the column. G — Lip and column, lateral view. Drawn by D. Bogarín and F. Pupulin from the holotype.



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).