

Fig. 3. Flowers of *Lepanthes* species of the *L. guatemalensis* group in Costa Rica: **a**, *L. durikäensis*; **b**, *L. edwardsii*; **c**, *L. leporina*; **d**, *L. ruberrima*; **e**, *L. guanacastensis*; **f**, *L. sanctiorum*; **g**, *Lepanthes sanctiorum* (autogamous form); **h**, *L. schugii*; **i**, *L. tapantiensis*.

lussitanica) en ramitas terminales, bosque pluvial premontano., 8 July 2011, Daniel Jiménez s.n. (holotype, JBL-spirit). *Illustrations*: Fig. 3C and 7.

Habitu *Lepanthes ruberrimae* Pupulin *affinibus similis praecipue differt sepalis flavis leviter suffusis roseis, petalis violaceis, labello aurantiaco, sepalis lateralibus non caudatis subequalibus sepalo dorsali, petalis valde convexis, lobo superiore petalorum elliptico-lanceolato, lobis labellorum in apice conniventibus.*

Epiphytic, small, caespitose, erect herb, to 2 cm tall. Roots thick, glabrous, 1.8-2.4 mm in diameter. Ramicauls slender, 0.8-1.2 cm long, enclosed by 3-4 glabrous, whitish sheaths. Leaf thinly coriaceous, broadly elliptic-suborbicular, rounded, minutely emarginated, with a small abaxial mucro, 9-11 mm long, 7-8 mm wide, cuneate at the base into a petiole about 0.5 mm long. Inflorescence several per growth, produced singly behind the leaf at any new growth season, a loose, distichous, successively few-flowered (to 5 flowers) raceme to 20 mm long; filiform peduncle to 15 mm long, provided with a short tubular, obtuse bract. Floral bracts transversely broadly ovate, amplexant, obtuse, 0.5 mm long, 0.8 mm wide, sparsely and microscopically muriculate; pedicel 1.5 mm long, sparsely muriculate; ovary 1.2 mm long, subtrigonous. Flowers large for the genus, with yellow sepals, faintly suffused with red along the midvein and the upper sepal margins, the petals violet-red, the lateral lobes of the lip orange with the base violet, the column and the anther cap violet. Dorsal sepal broadly triangular-ovate, contracted at apex into an acuminate tail 1 mm long, 7.5 mm long including the tail, 5.5 mm wide, 5-veined, connate to the lateral sepals for 2.5 mm. Lateral sepals connate for two thirds of their length into a broadly ovate, bifid lamina with subacute apices, 7 mm long, 7.5 mm wide, connate to the dorsal sepal for 2.5 mm. Petals transversely bilobed, minutely pubescent, 0.8 mm long, 2.5 mm wide, the upper lobes elliptic-sublanceolate, rounded, 0.8 mm long, 2.2 mm wide, the lower lobes obsolescent, semicircular, ca. 0.5 mm long, 0.7 mm wide. Lip bi-laminate, the blades narrowly digitate-falcate, acuminate, 3 mm long, 0.5 mm wide, adpressed to the column, the connectives trapezoidal, the body thin, rounded, with a very thin, incurved, aculeate, glabrous appendix. Column short, truncate, 1.4 mm long, the anther apical, the stigma ventral. Anther cap cucullate, helmet-shaped, apically deeply bilobed. Pollinia 2, elliptic, on two separate, hyaline, rectangular caudicles.

Etymology: From the Latin *leporinus*, "of the hare", in allusion to the shape of the petals reminding the long ears of leporids.

Distribution: Known only from the type locality in Costa Rica.

Habitat: Epiphytic on twigs of *Cupressus lusitanica* in disturbed premontane wet forest on the Caribbean slopes of Talamanca range in the region of Tapantí, at about 1300 meters of elevation.

The new taxon can be recognized by the resupinate flowers with yellow sepals, faintly suffused with red, the petals violet, the lip orange, the bifid synsepal with the apices of the lateral sepals not forming tails, the lateral sepals subequal to the dorsal sepal, the petals markedly convex with the upper lobe elliptic-lanceolate and the blades of the lip with connivent apices. It is similar to *L. ruberrima* but

Lepanthes leporina Pupulin & Bogarín, *sp. nov.*

Type: COSTA RICA. **Cartago**: Paraíso, Orosí, Tapantí, sendero que va desde Kiri Lodge a la catarata, 9°46'30.66"N 83°47'35.40"W, 1336 m, sobre árbol de ciprés (*Cupressus*

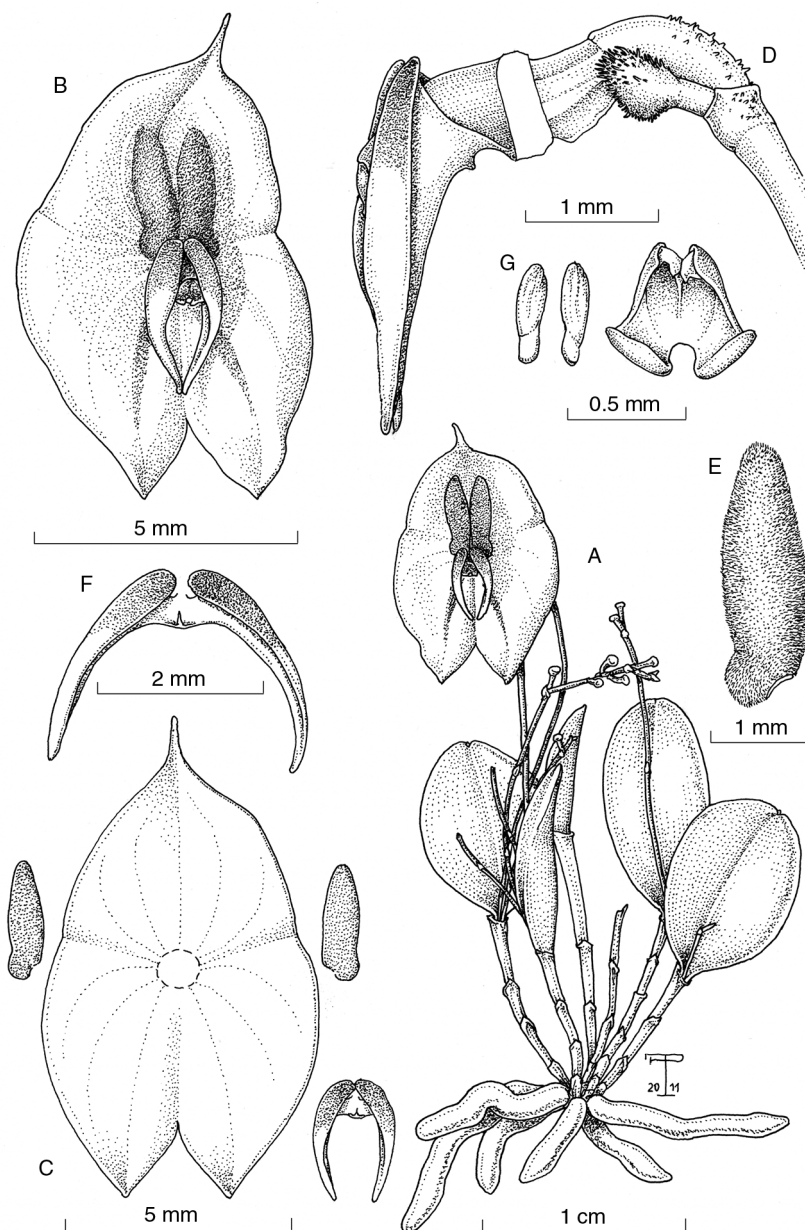


Fig. 7. *Lepanthes leporina*: **a**, habit; **b**, flower; **c**, dissected flower; **d**, pedicel, ovary, column and lip, lateral view; **e**, lip, spread; **f**, petal; **g**, pollinia and anther cap. All drawn by F. Pupulin from Jiménez s.n. (JBL).

the later can be recognized by the concolorous purple-red flowers, the lateral sepals much longer than the dorsal sepal and the petals flat with the upper lobe triangular and the blades of the lip without connivent apices. *Lepanthes schugii* is another species similar to *L. leporina*, however it could be easily separated by the caudate synsepal having the apices of the lateral sepals forming distinct tails and the blades of the lip without connivent apices.