

Lepanthes olmosii Bogarín, *sp. nov.*

TYPE: PANAMA. Chiriquí: Boquete, Bajo Chorro, Alto Chiquero, collected by Erick Olmos, without further locality data, flowered in cultivation at Finca Drácula, Cerro Punta, Guadalupe, 12 December 2006, D. Bogarín 3005 (holotype, PMA; isotypes, CR, Lankester Botanical Garden-Spirit collection).

Species Lepanthes poasensi Luer *similis*, *inflorescentia arcuata*, *ovario parviore*, *floribus majoribus*, *marginibus petalorum distincte ciliatis*, *lobulo inferno petalorum oblongo*, *labello majore differt.*

Plant epiphytic, caespitose, to 19 cm tall. **Roots** flexuous, ca. 1 mm in diameter. **Ramicaul** erect, slender, to 5-11 cm long, enclosed by 5-8 tightly fitting, blackish lepanthiform sheaths, the ostia narrow, minutely ciliate along the margins. **Leaf** elliptic, acute to shortly acuminate, conduplicate, subcoriaceous, 3-7 x 1.6-2 cm, the cuneate base contracted into a short petiole less than 1 mm long. **Inflorescence** a congested, distichous, successively several-flowered raceme borne above or beneath the leaf, to 3-6.5 cm long including the filiform peduncle to 3.5 cm long, the rachis arcuate. **Floral bracts** triangular, acute, amplexent, to 1 mm long. **Pedicel** terete, to 4 mm long. **Ovary** subclavate, ca. 2 mm long, smooth. **Flowers** spreading, with yellow-orange sepals, the petals orange, stained with scarlet red, the lip orange-red. **Dorsal sepal** ovate, acute to subacuminate, 3-nerved, the margins entire, 4.8 x 4 mm, connate to the lateral sepals for ca. 1.5 mm. **Lateral sepals** subequal to the dorsal sepal, ovate, acute, 3-nerved, with entire margins, 4.8 x 4 mm, connate at the base for ca. 1 mm. **Petals** transversely bilobed, 4 x 2 mm, the upper lobe ovate, rounded-truncate, 2.5 x 2 mm, the lower lobe subrectangular, obtuse, 2 x 2 mm, ciliate. **Lip** bilaminar, 3 x 1 mm, the blades perpendicular to the column, ovate, ear-shaped, slightly carinate along the inner margins, ciliate, the apex subacute or slightly rounded, the connectives cuneate, the body basally connate to the column, the appendix external, inconspicuous, vestigial. **Column** terete, stout, to 1.5 mm long, with apical stigma and dorsal anther. **Anther cap** cucullate, 2-celled. **Pollinia** 2, pyriform, with viscidium.

PARATYPE: PANAMA. Chiriquí: Boquete, Jaramillo, Cerro La Estrella, Finca Bruña, 8°47'11.5"N 82°21'28.7"W, 2100 m, cultivated by Steve & Marjorie Sarner, N. 1438, Boquete, Panamá, 18 Dec. 2008, D.

Bogarín 5948 (PMA; Lankester Botanical Garden-Spirit collection).

EPONYMY: dedicated to Erick Olmos of Finca Dracula, Guadalupe, Panama who discovered the first plant known of this species.

DISTRIBUTION: known only from the western Cordillera Central in Chiriquí province, Panama.

HABITAT: epiphytic in premontane rain forest at 2100 m elevation.

Lepanthes olmosii belongs to the *Lepanthes disticha*-complex characterized by the erect ramicauls with blackish, amplexent lepanthiform sheaths with narrow ostia and the coriaceous, ovate, acute to acuminate leaves. Although similar in habit to *L. poasensis* Luer, *L. olmosii* can be recognized by the arcuate inflorescences (unique among the *L. disticha*-complex), the smaller ovaries less than 2 mm long (up to 4 mm in *L. poasensis*), the larger flowers (less than 8 mm long in *L. poasensis*), the petals with ciliate margins and the lower lobe oblong and rounded, and the lip blades ear-shaped and perpendicular to the column. The sepals are golden colored and the petals suffused with scarlet red.

Drawn by D. Bogarín from the holotype.

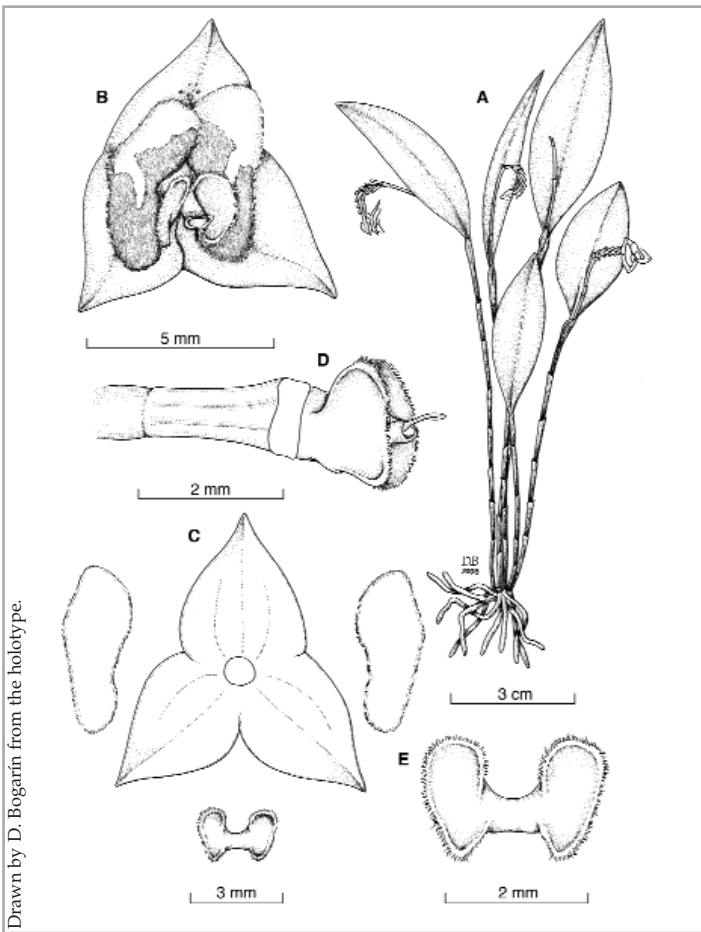


Figure 12. *Lepanthes olmosii* Bogarín. A: Habit. B: Flower. C: Dissected perianth. D: Ovary, column, and lip, lateral view. E: Lip, spread.



Figure 13. *Lepanthes olmosii* has large flowers with broad segments, and the margins of the petals are distinctly ciliate. Photo of flower from the plant that served as the holotype.