

bracts 10–20 × 8–12 mm, elliptic, slightly inflated; ovary and pedicel 2.4–3.5 cm, arcuate; dorsal sepal 25–26 × 4–5 mm, narrowly elliptic, acuminate, margin minutely crisped; lateral sepals 3.6 cm long, united for 2 cm, 9 mm wide; petals 25 × 5–6 mm, slightly unguiculate, lanceolate, obtuse or acute; lip 38 × 22–25, cuneate, 3-lobed, the mid lobe 12 × 25 mm, emarginate, lateral lobes rounded; base of lip infundibuliform, with prominent lateral “cheeks”; lip with 3 keels, the lateral keels dividing to clasp the osmophores, in narrow, acute angles; column 15–17 mm, basally adnate to lip 3–3.5 mm, clinandrium 4.5–5 mm, with prominent keel and narrow beak.

Both this and the following species resemble *T. turialbae* in having the lateral sepals connate for more than half their length. The flowers of *T. proboscidea* are somewhat smaller than those of *T. turialbae* and the thickened lateral veins (scarcely keels) of the lip are subequally branched to clasp the small osmophores in acute angles. In *T. turialbae* there are low, descending keels on the inner edge of each osmophore. The lateral keels are, thus, quite asymmetrical, though mere shadows of the alpine keels of *T. hennisiana*.

*Trichopilia endresiana* Dressler & Pupulin, *sp. nov.* TYPE: COSTA RICA. Without locality data, flowered in cultivation at Jardín Botánico Lankester, accession No. JBL-02951, 27 November 2004, *F. Pupulin 5318* (holotype, USJ; isotype, JBL-Spirit). Fig. 1.

Usage synonym: *Trichopilia proboscidea* Endres, *nom. herb.* Costa Rica. Without locality data, *A.R. Endres 2611* (*W-Reichb Orch 37588*).

*Species Trichopiliae turialbae Rchb.f. similis, floribus minoribus, carinis lateralibus in basi labelli pauci incrassatis versus apicem bilobatis lobo externo longiore, osmophorum parvum in angulo acuto amplexentibus differt.*

Caespitose epiphyte, roots 1–1.3 mm in diameter, pseudobulb ovoid, compressed, unifoliate, 2–4 × 2.2–3 cm, the apices shallowly indented (with slight “shoulders” at each side of the scar); leaves elliptic-lanceolate, acute, 7.5–16 × 2.3–3.9 cm; inflorescence lateral, basal, peduncle 3–4 cm, raceme to 2.5 cm, with 1–3 flowers, bracts 12–15 mm, tubular. Flowers greenish cream, the lip pale lemon yellow within; floral

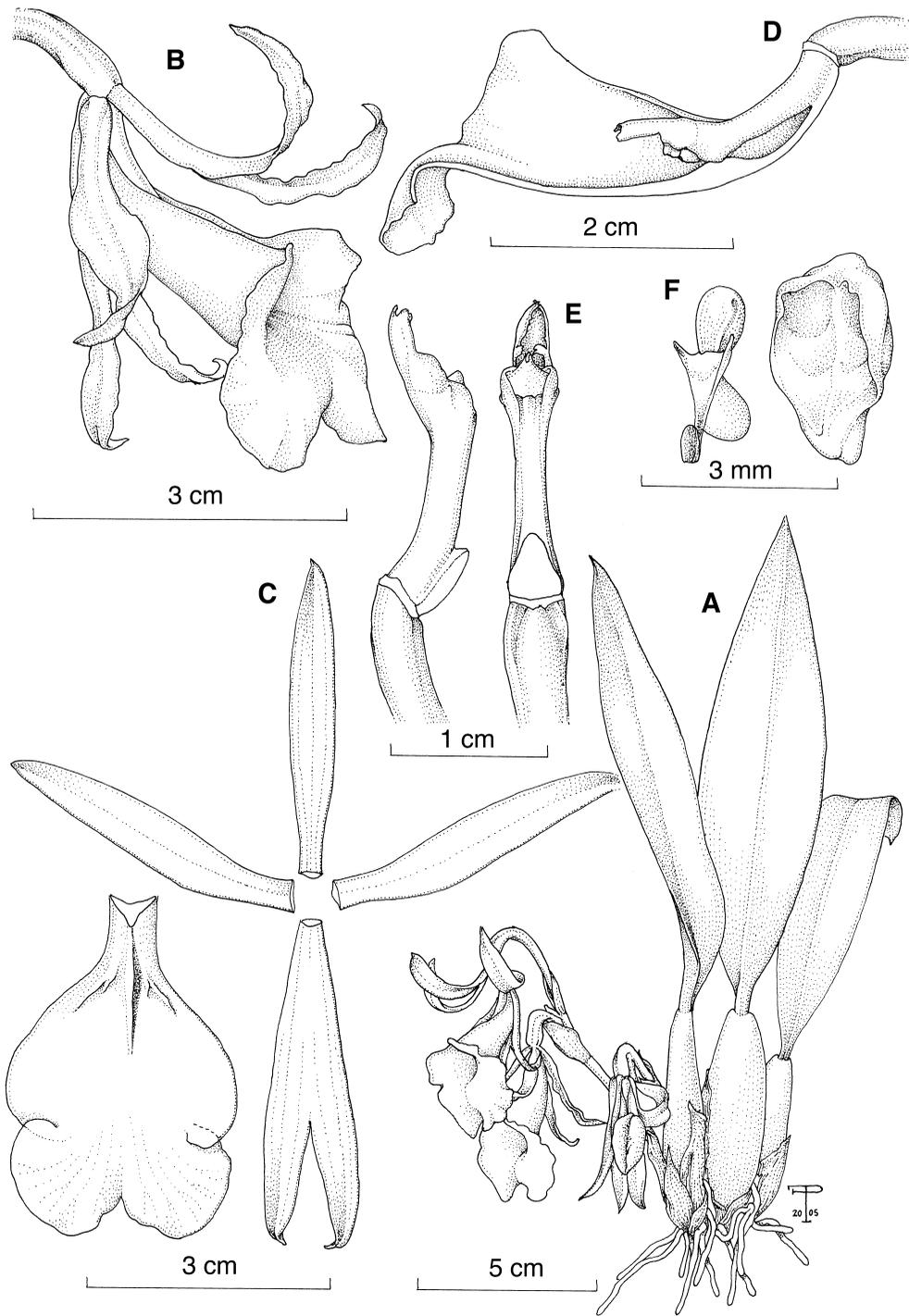


FIGURE 1. A–F, *Trichopilia endresiana* Dressler & Pupulin. A, Habit; B, Flower; C, Dissected perianth; D, Column and lip, lateral view (the lip longitudinally sectioned); E, Column, lateral and ventral views; F, Pollinarium and anther cap. Drawn from the holotype.