

loosely fitting the pedicellate ovary. Pedicellate ovary obconic, subtrigonal; pedicel 3–4 mm long, terete, ovary 4–4.5 mm long. Sepals and petals fused into a cup or sac longitudinally opened at the ventral face, this opening entirely filled in natural position by the labellum. Perianth cup dorsally 14–16 mm long, 17–18 mm long ventrally from base of columnar foot, 5–6 mm wide, subtriangular in lateral view; free portions of sepals and petals 0.5–1.5 mm long, triangular elliptic, acute, obtuse or truncate, the sepaline tails somewhat longer; expanded perianth cup 13–15 mm wide at base. Labellum 15–16 mm long, 3–3.2 mm wide, simple, narrowly oblong-elliptic, apically subrounded or broadly obtuse, basally subrounded-truncate with a claw 1 mm long by which the blade is hinged to column-foot; blade concave, margins undulate-crenate, ventral face laterally finely and densely black-verruculose, with an intense grayish hue, medially smooth and cream-colored. Column 8–10 mm long; basal zone subcylindric, 4–4.5 mm long; apical, stigmatic zone 4.5–5 mm long, obovate, truncate, pubescent; column-foot 4.5–5.5 mm long, forming an angle of ca. 60° with the ovary; rostellum 2 mm long, flat, horizontal. Capsules obovoid, 10–12 mm long with pedicel up to 12 mm long.

This is the second known species in this saprophytic genus. It differs from *U. ulaei* by its solitary flower and longer and narrower labellum, which is longer or nearly equal in length to the perianth cup. *Uleiorchis liesneri* seems to inhabit altitudes above 1,000 m, while *U. ulaei* is only known from below 500 m. The species is named after Ronald Liesner of the Missouri Botanical Garden, one of the most important plant collectors in the Venezuelan Guayana.

SUBTRIBE GASTRODIINAE

Uleiorchis liesneri Carnevali & I. Ramírez, sp. nov. TYPE: Venezuela. Territorio Federal Amazonas: Departamento Atures, lower forested E slope of unnamed 1,760 m peak, 8 km NW of Yutajé, 1,050–1,200 m, 5°41'N, 66°9'W, 13 Mar. 1987, *Liesner & Holst 21893* (holotype, VEN; isotype, MO). Figure 3.

Species haec *Uleiorchis ulaei* (Cogniaux) Handro affinis sed differt labello longiore, proportione angustiore, 15–16 mm longo, 3–3.2 mm lato vs. 11 mm longo, 4.5 mm lato, i.e., 5-plo longiore quam latiore (vs. 3-plo longiore quam latiore), anguste oblongo-elliptico (vs. ovato-elliptico), longiore vel subaequante quam copa perianthina (vs. brevior quam copa perianthina).

Saprophytic, erect herbs, 15–33 cm high, shade-loving. Basal corms 3–10 mm thick, horizontal, fusiform. Stems 1–2 mm thick, terete, straight or arched, simple or bifurcate, mostly naked except for membranous sheaths at nodes; sheaths 4–5 mm long, 3 mm wide, ovate, acute to subacuminate, 5–6-nerved. Flowers solitary at stem apex, resupinate, horizontal, not widely opening. Floral bracts 5–6 mm long, 3–4 mm wide, similar to cauline sheaths,

KEY TO THE SPECIES OF *ULEIORCHIS*

- 1a. Labellum narrowly oblong-elliptic, 5 times or more as long as wide, 15–16 mm long, longer than or subequaling the perianth cup . . . *U. liesneri*
- 1b. Labellum ovate-elliptic or ovate, 2.5–3 times as long as wide, up to 11 mm long, shorter than the perianth cup *U. ulaei*

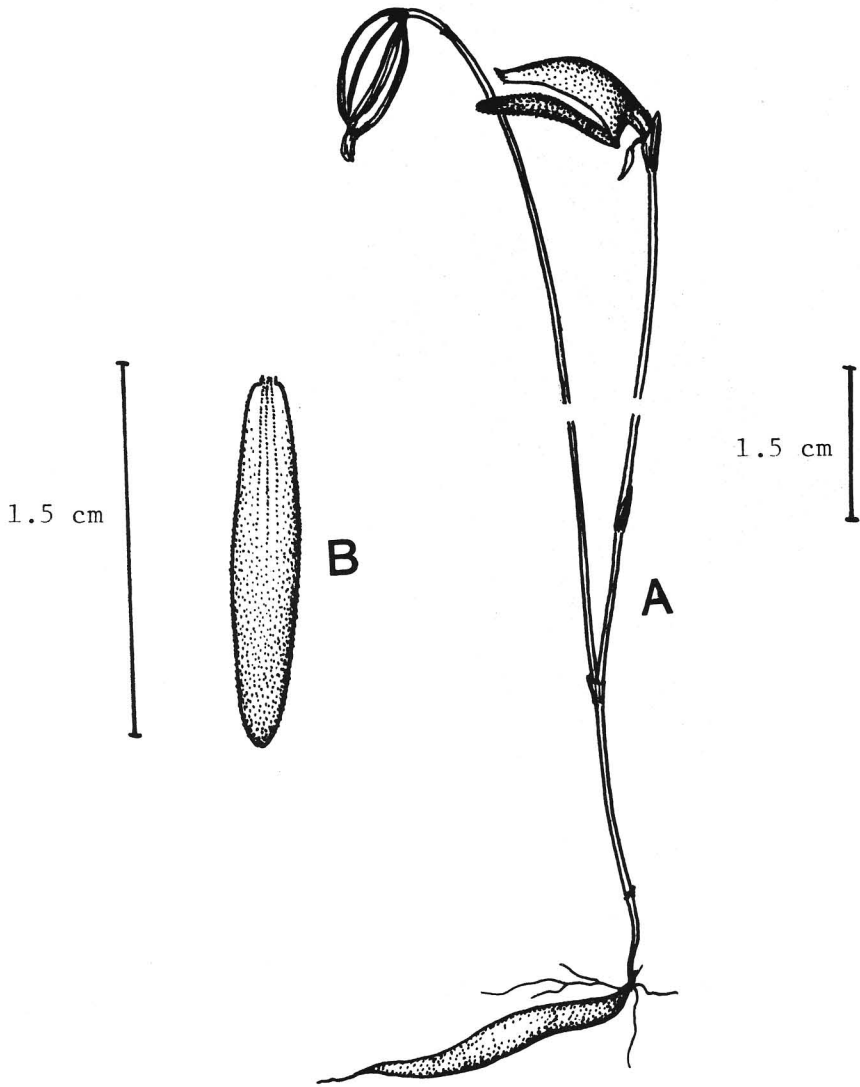


Figure 3. *Uleiorchis liesneri*. —A. Flowering plant. —B. Labellum, flattened (based on *Liesner & Holst 21893*).