

Kreodanthus curvatus Ormerod, *sp. nov.*
TYPE: COSTA RICA. Heredia: NW slope of Volcan Barva, between Laguna del Barva and base of Cerros Las Marias, 2450–2800 m, 28 April 1986, *M. H. Grayum 7481* (Holotype: MO). Fig. 6.

Affinis K. bugabae Ormerod *sed sepalis dorsalibus oblongo-ligulatis (non obovato-ellipticis) et hypochilo labello rhombicis (non late obovatis) differt.*

Erect terrestrial herb. *Rhizome* terete, creeping, rooting at nodes, 16.00 × 0.25–0.35 cm; internodes 2.0–2.9 cm long. *Stem* terete, with up to two-thirds of lower part decumbent, rest erect, laxly 5–7-leaved, 10.0–22.3 × 0.2–0.3 cm; internodes 1.3–2.5 cm long. *Leaves* obliquely ovate to ovate-lanceolate, acute, margins minutely wavy, 2.5–4.6 × 1.1–1.7 cm; petiole and sheath 1.80–1.95 cm long. *Inflorescence* 16.0–20.4 cm long; peduncle 7.5–9.9 cm long; sheathing bracts 1–3, only intact one 0.9 cm long; rachis laxly 15–20-flowered, 8.5–10.5 cm long; floral bracts broadly rhombic, acute, to 7 × 4 mm. Pedicellate ovary cylindric-fusiform, glabrous, almost straight to arcuate, 6 mm long. *Flowers* glabrous, pale greenish to green, lip possibly tawny-brown. Dorsal sepal oblong-ligulate, acute, 4.10 × 1.35 mm. Lateral sepals obliquely obovate, acute, concave, reflexed, 5.0 × 1.8 mm. Petals ligulate-oblancheolate, subacute, 3.9 × 0.9 mm. *Labellum* spurred, entire, joined to column for 2 mm; spur clavate to clavate-subglobose laterally, clavate-didymous dorsally, 3.5–3.8 mm long; hypochile broadly rhombic-cochleate, acute, 1.5 × 2.5 mm. *Column* straight with apical third decurved, 1.9–2.0 mm long.

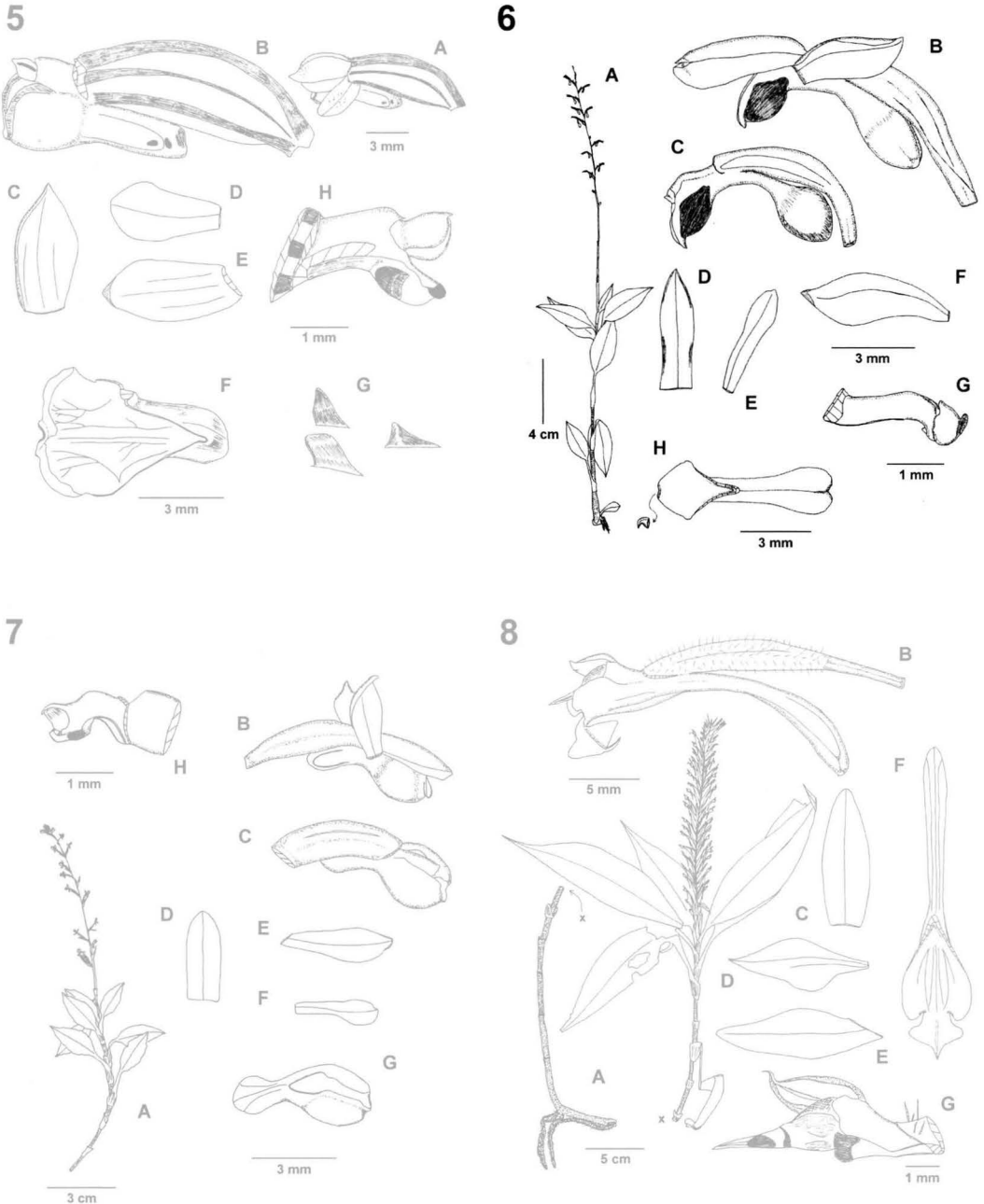
Distribution: Costa Rica.

Habitat: on floor of primary forest (holotype); elfin forest in *Chusquea* understory; 2400–2800 m.

Specimen examined: COSTA RICA. Limon: Cordillera de Talamanca, Atlantic slope, unnamed cordillera between the Rio Terbi and Rio Sini, 2400–2750 m, 13 September 1984, *G. Davidse, G. Herrera & M.H. Grayum 29052* (MO).

This species is similar to the Panamanian *K.*

bugabae Ormerod but its flowers have an oblong-ligulate (not obovate-elliptic) dorsal sepal, a rhombic (not late obovate) labellum hypochile, and shorter (1.9–2.0 vs. 2.75 mm) column.



FIGURES 5-8. 5, *Kreodanthus cajamarcae* Ormerod. A, flower; B, flower minus tepals; C, dorsal sepal; D, petal; E, lateral sepal; F, labellum and spur (spur split open); G, internal appendages of spur (not to scale); H, column (drawn from holotype). 6, *K. curvatus* Ormerod. A, plant; B, flower; C, flower minus tepals; D, dorsal sepal; E, petal; F, lateral sepal; G, column; H, labellum and spur (labellum apex arrowed) (drawn from holotype). 7, *K. sytsmae* Ormerod. A, plant; B, flower; C, flower minus tepals; D, dorsal sepal; E, lateral sepal; F, petal; G, labellum and spur; H, column (drawn from holotype). 8, *Ligeophila clavigera* (Rchb.f.) Garay var. *rhodostachys* Ormerod. A, plant; B, flower minus tepals; C, dorsal sepal; D, petal; E, lateral sepal; F, labellum and spur; G, column (drawn from holotype).