

**New Species of *Costanana* and *Acuponana*, Gyponinae
(Homoptera: Cicadellidae) from Central and
South America**

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ABSTRACT: Three new species of *Costanana*, *C. santana* (Brazil), *C. circumaga* and *C. apicata* (Panama), and a new species of *Acuponana*, *A. cincta* (Brazil), are described.

The genus *Costanana* was described by DeLong and Freytag (1972). The genus *Acuponana* was described by DeLong and Freytag (1970). A new species of *Acuponana* was described since by DeLong and Bush (1971). Three new species of *Costanana* and one of *Acuponana* are described in this paper. Type specimens are in the DeLong collection, the Ohio State University.

Costanana santana, new species
(Figs. 1-5)

Length of male 5 mm, female unknown. Crown broadly rounded, more than twice as broad at base, between eyes, as median length. Color: dark brown, crown with anterior margin paler brown, pronotum with lateral margins and anterior half of costal margin bright yellow.

Male genital plates 2.5 times as long as width at middle, apices narrowed, rounded. Style with apex curved dorsally, U-shaped. Aedeagal shaft with a pair of basal processes which extend along shaft, each side, almost to apex. Pygofer with a broad blunt apex.

Holotype male, Santa Isabela, Brazil, 30 Sept. 1962, J. & B. Bechyne colls.

C. santana is related to *C. nana* (Fowler) and *C. helvacosta* DeLong & Freytag (1972:492, 496) and can be separated from them by the long aedeagal processes arising from the base of the aedeagus.

Costanana circumaga, new species
(Figs. 6-9)

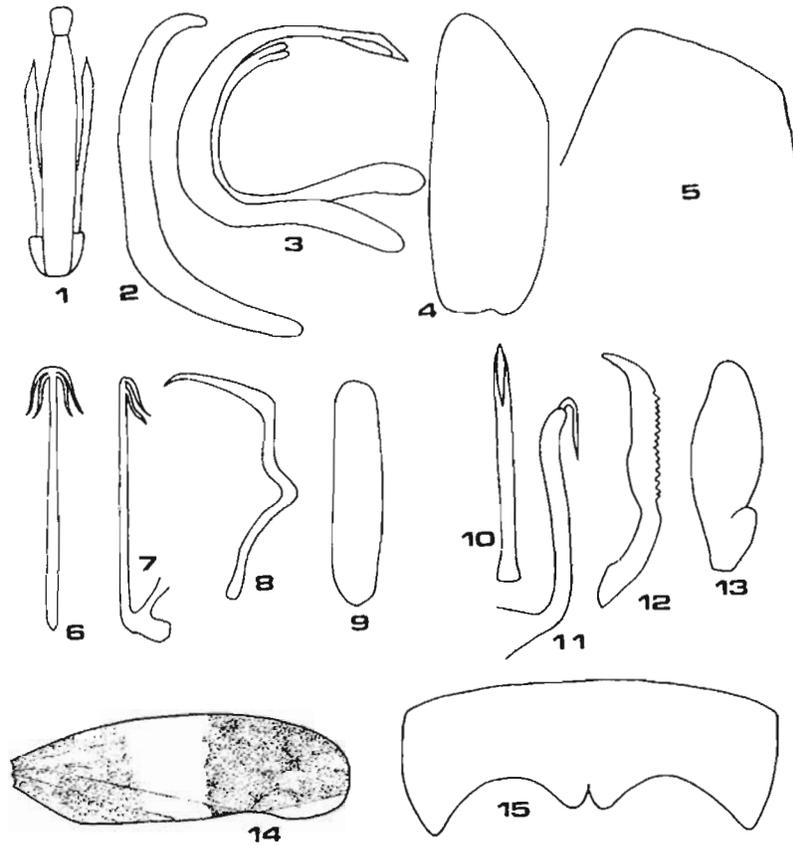
Length of male 6 mm, female unknown. Crown broadly rounded, appearing almost parallel-margined, more than twice as wide at base, between eyes, as long at middle. Ocelli closer to anterior than to posterior margin of crown, closer to eyes than to each other. Color: crown pale brown, pronotum brown with a round black spot behind each eye at half length of pronotum; scutellum brownish with apical half more reddish brown. Forewings brownish, claval vein more yellowish, a small dark brown spot at apex of first and second claval veins, at commissure.

Male genital plates four times as long as width at middle, apices rounded. Style narrow, with a ventral bulge in blade near middle, apex slightly broadened, bent

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Figs. 1-5. *Costanana santana*, n. sp. 1. Aedeagus, ventral. 2. Style, lateral. 3. Aedeagus, lateral. 4. Plate, ventral. 5. Pygofer, lateral aspect, apical portion. Figs. 6-9. *C. circummaga*, n. sp. 6. Aedeagus, ventral. 7. Aedeagus, lateral. 8. Style, lateral. 9. Plate, ventral. Figs. 10-13. *C. apicata*, n. sp. 10. Aedeagus, ventral. 11. Aedeagus, lateral. 12. Style, lateral. 13. Plate, ventral. Figs. 14, 15. *Acuponana cincta*, n. sp. 14. Forewing, lateral. 15. Female seventh sternum.

dorsally for $\frac{1}{3}$ its length, tapered, slender, pointed. Aedeagal shaft long, slender, bearing 2 pairs of apical processes which extend basad $\frac{1}{5}$ length of shaft. Pygofer rounded apically.

Holotype male, Barro Colorado, Panama, at light, 17 March 1967, H. Wolda coll.

C. circummaga is related to *C. cella* DeLong & Freytag (1972:497) and can be separated from it by the 4 apical aedeagal processes of equal length and the longer broadened portion of the style.

Costanana apicata, new species
(Figs. 10-13)

Length of male 5.2 mm, female unknown. Crown broadly rounded, almost five times as wide at base, between eyes, as long at middle, ocelli nearer to median line than to eyes. Color: crown dull yellow, pronotum dull yellow with a round

black spot almost half length of pronotum behind each eye, also with mottled pale brownish area behind each eye; apical portion and disc brownish tinged with green. Scutellum pale brownish anteriorly, white posteriorly. Forewings pale brownish with 2 dark brown spots on anterior half of clavus, brownish spots on apical margin, costal margin near apex, and on margin of inner anteapical cell.

Male genital plates three times as long as width at middle, apices narrowed, rounded. Style narrow, elongate, with apex curved dorsally and sharply pointed. Aedeagus slender, elongate, with apex curved slightly ventrally and bearing a narrow apical process which curves basad and is $\frac{1}{4}$ as long as shaft. Pygofer rounded apically.

Holotype male, Barro Colorado, Panama, at light, 13 April 1978, H. Wolda coll.

C. apicata is related to *C. asymetrica* DeLong & Freytag (1972:497), but the aedeagal process is pointed, not bifid as in *asymetrica*.

Acuponana cincta, new species
(Figs. 14, 15)

Length of female 7 mm, male unknown. Crown broadly rounded, almost parallel-margined, 2.5 times as wide at base between eyes as long at middle, ocelli closer to median line than to eyes. Color: brown tinged with red. Pronotum with anterior half brownish, posterior half pale yellow. Scutellum reddish brown. Forewings dark brown with a broad, transverse, pale yellow band crossing middle of clavus and broadened to costa at each side. Yellow area on pronotum and across forewings gives appearance of a 2-banded leafhopper.

Female 7th sternum with posterior margin broadly concave at each side of pair of median rounded teeth, which are separated by slight notch and are shorter than lateral angles.

Holotype female, Belém, Mocomba, Brazil, 1 April 1977, M. T. Torres coll. Paratype, 1 specimen without abdomen, same data except 28 March 1977.

The banded coloration will separate *A. cincta* from all other described species of *Acuponana*.

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