

REFERENCE OF *CEPHALIA FULVICORNIS* AND *CEPHALIA*  
*MACULIPENNIS* (DIPTERA: OTITIDAE) TO THE  
GENERA *EUXESTA* (DIPTERA: OTITIDAE) AND  
*RIVELLIA* (DIPTERA: PLATYSTOMATIDAE)

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*Abstract.*—Examination of the type-specimens reveals that *Cephalia fulvicornis* Bigot should be known as *Euxesta fulvicornis* (Bigot), new combination (Otitidae) and that *C. maculipennis* Bigot should be known as *Rivellia maculipennis* (Bigot), new combination (Platystomatidae), with *Rivellia maculosa* Namba, new synonym. *Euxesta fulvicornis* (Bigot) is characterized. Both species are North American and have been cited in the North American catalogue as unrecognized.

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The type-specimens of *Cephalia fulvicornis* and *C. maculipennis*, both described by Bigot (1886) from North America, were examined through the kindness of the authorities of the University Museum, Hope Department of Zoology (Entomology), University of Oxford, England. The results of the examination follow.

*Euxesta fulvicornis* (Bigot), NEW COMBINATION

*Cepahlia fulvicornis* Bigot, 1886:386.

The type is in good condition, pinned through the thorax with a little verdigris extruding from the points pierced by the pin. Although Bigot stated that the unique type is a male, the specimen sent is clearly a female, but it agrees otherwise well with his description, and I believe it may be accepted as the type. The label, not affixed to the same pin as the specimen, reads "C. fulvicornis. ♂/ Californ. J. Bigot" (with arrowhead of the sex symbol directed downward). Dr. Ismay, of the Oxford Museum, tells me that the next specimens in the Bigot collection are two on one pin labelled *C. bicolor*, from "Celan."

The Bigot specimen agrees well with three specimens in the United States National Museum collection taken at Temecula, California, by A. L. Melan-



der. I had considered these specimens to be an undescribed species of *Euxesta*. They may be distinguished from other species of *Euxesta* by the following combination of characters: Wing with costal cells wholly dark brown, a small brown streak in cell  $R_1$  anterad of fork of R, and a brown mark filling tips of cells  $R_1$ ,  $R_3$ , and  $R_5$ , the mark a little shorter than broad; vein M ending at wing tip; lunule, face, and clypeus wholly tawny; costa not enlarged; scutellum black; abdomen largely black with metallic sheen, at most a little brown basally; mesoscutum with weak tomentosity between humeri and before scutellum.

*Rivellia maculipennis* (Bigot), NEW COMBINATION

*Cephalia maculipennis* Bigot, 1886:385.

*Rivellia maculosa* Namba, 1956:35. NEW SYNONYM.

The Bigot type is in fairly good condition, with antennae and most of the bristles missing. It is glued to a cardboard point on a pin bearing a label reading "C. maculipennis, ♂/ am. Sept./ Mts. Roch./ J. Bigot." The locality was cited in Bigot's publication as "Rockey-Mount." The Rocky Mountains are Les Monts Rocheux in French. There can hardly be any doubt that the specimen is Bigot's type, even though the tip of the abdomen, close against the cardboard, seems to be that of a female.

Comparison of Bigot's specimen with paratypes and other specimens of *Rivellia maculosa* in the United States National Museum make it quite evident that Namba's species is a synonym. The fact that one of the paratypes of *Rivellia maculosa* is from Alberta (Waterton Lakes National Park) makes Bigot's locality plausible enough, even though the other known localities of the species are in the southeastern United States.

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