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THE HITHERTO UNDESCRIBED MALE OF *ARMIGERES* (*ARMIGERES*) *THEOBALDI* BARRAUD (DIPTERA : CULICIDAE).

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THE description which follows is based on a number of males from Hyderabad City, Deccan. One set of terminalia are in the British Museum. The remainder of the material is believed to be in the collections of the Malaria Department at Hyderabad. The terminalia are remarkable in that they are of the kind normally encountered in the subgenus *Leicosteria*, although in other respects *theobaldi* is a typical *Armigeres* s. str. Like *conjungens* Edwards, therefore,

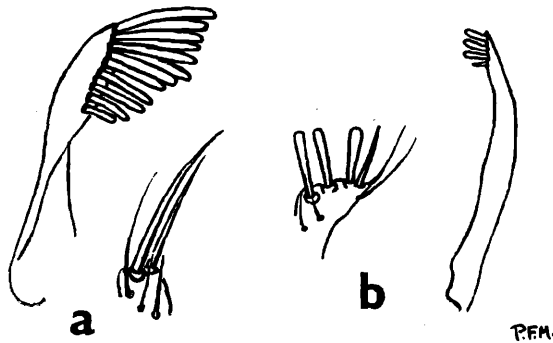


FIG. 1.—*Armigeres* spp. Style and basal lobe of coxite. (a) *A. (A.) theobaldi* Barraud. (b) *A. (A.) conjungens* Edwards.

this species is annectant between the two subgenera. An examination of the female genitalia, however, shows that both species have been correctly placed in the typical subgenus. The description of the male of *A. theobaldi* follows :

*Head* : Eyes bordered by flat white or creamy scales. Other markings variable. The vertex may bear two stripes of flat white scales separated by a median patch of flat black scales, or these stripes may be reduced to a pair of round spots or absent altogether. In most cases the lateral areas exhibit a patch of broad, flat white scales separated by black scales from the white stripes already mentioned. The nape bears some whitish upright scales. Tori dark brown or black, partly covered with small, broad pale scales. Flagellum and antennal hairs brown. Clypeus brown with a few flat pale scales. Palpi and proboscis dark brown, the palpi exceeding the proboscis by a little less than the length of their terminal segment. *Thorax* : Mesonotum covered with narrow dark brown scales and with a border of yellowish scales all round the margin. Anterior pronotal lobes, pro-epimera, sternopleurae, upper and lower mesepimera, mera and coxae all covered with broad white

scales. Post-spiracular area with a patch of flat white scales and 2-3 bristles. Wings dark scaled. Legs brownish black. Hind femur white on both inner and outer side from base to knee-joint. Mid femur without a definite knee-spot. Fore femur with distinct dorsal knee-spot. Tibiae and tarsi devoid of pale rings. *Abdomen*: Tergal markings very variable. Some specimens have median apical yellow markings as in the female. In others the abdomen is almost entirely dark in dorsal view but a uniform blue sheen and indistinct yellowish apical markings can be seen from certain angles. Venter white scaled and tergites with white lateral markings. *Terminalia* (fig. 1a): Style broadened apically with a row of 12 digitate appendages, the shaft devoid of scales and setae. Coxite without a scale patch on the dorsal border. Basal lobe with two stout unequal spines.

The terminalia of *A. conjungens* have not previously been figured and are therefore shown for comparison (fig. 1b).

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