

SHORT COMMUNICATION

TYMPANAL ORGANS OF PENTATOMIDAE
(HEMIPTERA)

Tympanal organs occur in Orthoptera, (Acridoidea, Tettigonioidae and Grylloidea), Cicadidae, some Lepidoptera, (Geometridae, Cymatophoridae, Pyralidae, Uranidae) and some Neuroptera.

Detailed morphological account of tympanal organs in Orthoptera is given by Siebold (1844) Muller (1826) Herbig (1902), and Schwabe (1906) ; in Heteroptera and Homoptera by Vogel (1912, 1921, 1923) ; in Lepidoptera by Jordan (1905) Deegener (1909), Eggers (1916, 1919, 1925) and Kennel (1912) ; in Neuroptera by Miller (1970). Detailed account of histology may be seen in the papers of Schwabe (1906), Eggers (1911, 1919, 1925, 1928), Vogel (1923) Hers (1938) and Friedman (1972).

In Acrididae tympanum is on each side of the first abdominal tergum and is visible externally. In Tettigonioidae and Grylloidea there is one or a pair of tympanum near the proximal end of each anterior tibia. Tympanum is conspicuous in many genera but in others each organ is concealed by a cuticular fold and comes to be in a cavity which communicates with the exterior by a short slit-like opening. In many families of Lepidoptera tympanal organs occur at each side of the metathorax or at the base of abdomen. In Cicadidae tympanal organs occur in both sexes at the base of abdomen.

Tympanal organs are so far unnoticed in Pentatomidae (Hemiptera). Recently the author noticed tympanal organs in five species of *Coridius* Illiger 1807 (Subfamily : Coridiinae). *C. janus* Fabr., *C. brunneus* Thunb., *C. nepalensis* Westw., *C. singhalanus* Dist. and *C. chinnensis* Dall. In all these

species the tympanal organs are conspicuous and occur only in female on the hind tibiae.

The tibia is approximately 5-5.5 mm long and the tympanum which is oval in shape is approximately 2 mm long and is located anteriomedially on the inner side of posterior tibia. The tibia is setate except for the region of tympanum.

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Zoological Survey of india
Southern Regional Station
Madras-600 028. (India)

KOSHY MATHEW