Ultrastructure of the antennal sensillae of male and female peach fruit fly, Bactrocera zonata

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Abstract:

Antennal morphology and funicular sensillae of male and female peach fruit flies, Bactrocera zonata (Saunders) (Diptera: Tephritidae), were studied with scanning electron microscopy (SEM). This study focused on the sensillae found on the antennal segments (scape, pedicel, and flagellum or funiculus that bears the arista) of B. zonata. Antennal segments of females tended to be larger than those of the males. The first two antennal segments, scape and pedicel, were heavily covered with microtrichia and bear bristles. Numerous microtrichia as well as trichoid (I, II), basiconic, clavate, and coeloconic sensillae were observed on the funiculus. SEM studies showed some differences in size and also in position of some sensillae on the antennae of the females of B. zonata. The sensillae found on the funiculus, such as trichoid and basiconic sensillae, were significantly larger in females.

Keywords:

antennae, funicular sensilla, scanning electron microscopy

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