

The Fine Structure of the Male Tubular Accessory Gland in the Mealworm Beetle, *Tenebrio molitor*

Yong-Seok Choi and Myung-Jin Moon

Department of Biological Sciences, Dankook University

The fine structure of tubular accessory gland in the male mealworm beetle, *Tenebrio molitor* is investigated with light and electron microscopes. The male reproductive system of *Tenebrio molitor* is consists of a pair of testis bundles each is composed of six lobes, a pair of bean-shape accessory glands, a pair of tubular accessory glands and a ejaculatory duct. The tubular accessory gland that covered with muscle layer is constituted secretory epithelium and secretion droplets in central portion. Each epithelial cell has well developed rough endoplasmic reticulum and Golgi complexes, and secretory vesicle with variable electron densities. The central portion of the tubular gland is filled with many secretion droplets secreted from epithelial cells.