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题目: 杂色鲍足的显微与超微结构研究

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摘要: The microstructure and ultrastructure of the foot of *Haliotis diversicolor* have been observed by light, scanning and transmission electron microscopes. The foot consists of three different parts: foot sole, skirt and right adductor muscle. Under microscopes, foot sole is composed of epithelium, connective tissue and muscle tissue. The epithelium of the foot sole is pseudostratified ciliated columnar epithelium. The muscle tissue of the foot sole, which mainly composed of smooth muscle fibers arranged in longitudinally, transversely and obliquely directions with connective tissue among served as a "muscular-hydrostat system". Two trunks of pedal nerve cords run through the muscle tissue of the foot sole in its longitudinal direction, with transverse commissures between the two trunks and many branches from the pedal nerve cords to skirt and right adductor muscle. Skirt bears skirt tentacles and skirt hillocks around its edge. Each skirt tentacle is enclosed by a simple columnar epithelium which composed mainly of supporting cells, sensory cells and gland cells, beneath the epithelium, connective tissue joins relative tightly packed muscles surrounding the central nerve cord. Skirt tentacles have a general structure similar to that of the cephalic tentacles, their functions are in support of the cephalic tentacles for finding foods and receiving chemical stimuli around the abalone's body. The epithelium of the skirt hillocks is also simple columnar epithelium, beneath which, there is connective tissue. The structure of the main body of the skirt is muscle tissue, which is the extension of the foot sole. Right adductor muscle with one end connecting to foot sole and the other to the shell is mainly composed of muscle tissue and histologically no difference from both the body of the skirt and the foot sole [*Acta Zoologica Sinica* 52(5): 966 - 970, 2006].

关键词: 杂色鲍 足 显微结构 亚显微结构

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