



粉尘螨消化系统超微结构观察

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Ultrastructure of the Digestive System in *Dermatophagoides farinae* (Acariformes : Pyroglyphidae)

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摘要

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摘要 粉尘螨50只经2.5%戊二醛前固定后, 使用1%锇酸后固定, 经乙醇梯度脱水、包埋、超薄切片、正染色后, 透射电镜观察其超微结构。粉尘螨消化系统由前、中和后肠三部分构成, 其中中肠进一步分为前中肠和后中肠。前肠和后肠内覆表皮, 中肠内覆微绒毛。此外, 前中肠可见多种肠壁上皮细胞, 细胞顶端微绒毛较短; 后中肠微绒毛极长, 肠腔可见围食膜包绕的食物团块, 团块内含大量细菌。粉尘螨消化系统各肠道的细胞构成不同, 尤其中肠肠壁上皮细胞的形态、种类多样, 中肠为粉尘螨消化吸收的主要部位。

关键词: 粉尘螨 消化系统 超微结构

Abstract: Fifty living mites(*Dermatophagoides farinae*) were fixed in 2.5% glutaraldehyde, postfixed in 1% osmium tetroxide, dehydrated in a graded ethanol series, embedded in embedding medium. The ultrastructure of the digestive tract in *D. farinae* was observed by serial ultrathin sections with a transmission electron microscope. The alimentary canal of *D. farinae* consists of the cuticle-lined foregut and hindgut separated by a microvilli-lined midgut (anterior midgut, posterior midgut). There are different types of epithelial cells in the anterior midgut. The microvilli of epithelial cells in posterior midgut are longer than that of the anterior midgut. In posterior midgut, the food bolus is surrounded by the peritrophic membrane. The midgut is the main site of digestion and absorption.

Keywords: *Dermatophagoides farinae* Digestive system Ultrastructure

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