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蛇床子素体外对蓝氏贾第鞭毛虫超微结构的影响

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In Vitro Effect of Osthole on Ultrastructure of *Giardia lamblia*

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摘要 用含1.345 mg/ml（24 h IC50）蛇床子素的改良TYI-S-33培养基培养蓝氏贾第鞭毛虫滋养体，采用扫描和透射电镜观察蛇床子素作用后24 h虫体超微结构的变化。结果显示，经蛇床子素作用后，鞭毛虫滋养体表面凹凸不平，腹吸盘和中体附近表面有明显的病变，主要表现为腹吸盘表面细胞膜破裂，细胞内容物外溢、稀疏，出现板层样结构，空泡化严重，细胞核畸形，边缘锯齿状，核内染色质边集，吸盘微管部分结构崩解。

关键词： 蓝氏贾第鞭毛虫 蛇床子素 体外 超微结构

Abstract： *Giardia lamblia* trophozoites were cultivated axenically in TYI-S-33 modified medium containing 1.345 mg/ml of osthole(24 h IC50）. The parasites were observed by scanning and transmission electron microscopes after treated with osthole for 24 h. The surface of the trophozoites treated with osthole was rough. The surface of ventral sucker and median body had obvious lesions, the cell membrane was damaged and the content spilled out. There were a lot of vacuoles in the cytoplasm. And the nuclear was severely deformed with a serrated edge and marginated nuclear chromatin. The microtubules of sucker had partially disintegrated.

Keywords： *Giardia lamblia* Osthole *In vitro* Ultrastructure