



### 印度殖盘吸虫神经系统的乙酰胆碱酯酶定位观察

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### Localization of Acetylcholinesterase in the Nervous System of *Cotylophoron indicum*

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摘要

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摘要 采用乙酰胆碱酯酶组织化学方法对印度殖盘吸虫进行染色, 观察并描绘其神经结构。结果显示, 该吸虫脑神经节与神经连合位于口吸盘和生殖吸盘之间、虫体的背侧。脑神经节向前发出4对神经干, 与口吸盘内神经网络相连; 向后发出3对神经干, 其中腹主神经干最粗大, 3对神经干在虫体后端各分出几条神经分支进入腹吸盘。生殖吸盘上分布有发达的神经网络。虫体表面神经纤维成对并行, 斜行交叉, 构成表面神经网络。分布于前体部的神经细胞分为3种类型。说明印度殖盘吸虫神经结构符合复殖类吸虫的基本特征, 其生殖吸盘内具有独特、复杂的神经结构。

关键词: 印度殖盘吸虫 神经系统 乙酰胆碱酯酶 组织化学

Abstract: The nervous system of *Cotylophoron indicum* was studied by using acetylcholine esterase histochemical staining techniques. Cranial ganglia and transverse commissure situate at dorso-lateral body between oral sucker and genital sucker. From the cranial ganglia four pairs of nerves proceed cephalad and connect with nerve network of the oral sucker. The posterior nerve cords from the cranial ganglia consist of 3 pairs and the ventral ones are the stoutest and longest nerves. A few branches from the 3 pairs of nerve cords connect to ventral sucker. There is a developed nerve network distributed in its genital sucker. The nerve fibers on body surface in pairs and parallel are diagonal and cross to form a nerve network on body surface. Three kinds of neurocytes distribute at the prosomal region. Results show that the nervous system structure of *C. indicum* is consistent with the essential features of Digenea, but more special and complicated around genital sucker.

Keywords: *Cotylophoron indicum* Nervous system Acetylcholinesterase Histochemistry

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