

实验研究

## 日本血吸虫感染小鼠肝脏及骨髓中IL-4,IL-5和IL-10水平的动态变化

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摘要

目的: 探讨小鼠感染日本血吸虫后肝脏与骨髓产生Th2细胞因子的变化。方法: 采用免疫组化测定,并用多媒体病理图文定量分析,观察感染后第8、10及第12周小鼠肝脏及骨髓IL-4、IL-5和IL-10的变化。结果及结论: 在感染小鼠肝脏,IL-4,IL-5和IL-10随感染时间的延长而明显升高,且以IL-4最为明显。而在骨髓,IL-4随感染时间延长而升高,但在第10及12周时明显低于肝脏;IL-5在感染的第12周内明显高于肝脏,IL-10在感染的10wk前呈增高趋势,但第12周下降,并明显低于肝脏。小鼠的肝脏是感染日本血吸虫后机体免疫应答的主要场所,而在感染骨髓中,IL-5存在明显的自分泌。

关键词 [小鼠](#) [日本血吸虫病](#) [白细胞介素4](#) [白细胞介素5](#) [白细胞介素10](#)

分类号

## DYNAMIC CHANGES IN IL-4, IL-5 AND IL-10 IN LIVER AND BONE MARROW OF MICE INFECTED WITH SCHISTOSOMA JAPONICUM\*

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Abstract

AIM: To observe the changes in Th2 cytokines in the liver and bone marrow of mice infected with schistosomiasis japonica. METHODS: ABC immunohistochemical staining technique and multimedia pathological picture analysis were used. Meanwhile, IL-4, IL-5 and IL-10 derived from livers and bone marrows of infected mice were observed at wk 8, 10 and 12 after infection. RESULTS AND CONCLUSION: In the livers of infected mice, the levels of IL-4, IL-5 and IL-10 increased obviously with a prolongation of the infection duration, IL-4 being the highest. However, in the bone marrow of infected mice, IL-4 level increased slowly with the duration of the infection, being lower than those in the liver at wk 10 and 12 after infection. The level of IL-5 was higher than that in the liver within 12 wk. At wk 10 after infection IL-10 tended to increase, but decreased thereafter and was obviously lower than that in the liver. In mice infected with Schistosoma japonicum, the immune response occurred mainly in the liver. IL-5 in the bone marrow showed auto-secretion. \;

Key words [Mouse](#) [schistosomiasis japonica](#) [interleukin 4](#) [interleukin 5](#) [interleukin 10](#)

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