中国寄生虫学与寄生虫病杂志 1999 17 (6): 374-376 ISSN: 1000-7423 CN: 31-1248/R

实验研究

IL-2对感染不同株旋毛虫小鼠的免疫调节作用

牛春,姜洪杰,黄松,诸欣平

首都医科大学细胞生物系,北京 100054

收稿日期 修回日期 网络版发布日期 接受日期

摘要

目的： 探讨细胞因子在旋毛虫感染免疫中的调节作用。方法： 采用间接ＥＬＩＳＡ 和生殖力指数测定等方法对ＩＬ－２ 作用下感染旋毛虫小鼠的Ｉｇ Ｇ抗体水平及寄生虫感染力进行连续观察。结果： 不同剂量ＩＬ－２对不同地理株感染小鼠产生的影响存在较大差异： 对于黑龙江株猪型旋毛虫感染小鼠， ＩＬ－２ 注射具有明显抗虫效果； 而对于美国株猪型旋毛虫感染的小鼠， ＩＬ－２ 对成虫繁殖力无显著影响， 但大剂量ＩＬ－２ （每鼠２ ０００ Ｕ／次） 使新生幼虫的感染力降低。结论： ＩＬ－２ 对黑龙江株猪型旋毛虫感染力有明显抑制作用。

关键词 旋毛虫病 小鼠 白细胞介素-2 IgG抗体

分类号

IMMUNOREGULATION OF IL-2 IN TRICHINELLA-INFECTED MICE

NIU Chun,JIANG Hongjie,HUANG Song,ZHU Xinping

Department of Cell Biology;Capital University of Medical Sciences;Beijing 100054

Abstract

AIM: To study the immunoregulation of IL-2 in Trichinella-infected mice. METHODS: Mice infected respectively with HL strain and AM strain larvae of Trichinella spiralis were treated ip with IL-2 from the second day postinfection for 3 days. Serum IgG antibody levels were determined by ELISA and the infection capacity was determined using reproductive capacity index (RCI). RESULTS: In HL, higher dosage of IL-2 injection induced lower RCI and showed apparent anti-Trichinella effect. In AM, both low and high dose of IL-2 had no measurable effect on RCI, however, high dose of IL-2 reduced the infectivity of newborn larvae. CONCLUSION: IL-2 exhibits apparent suppressive effect on the infectivity of T.spiralis of HL strain.\;

Key words Trichinellosis mouse interleukin-2 IgG

DOI:

通讯作者

作者个人主页 牛春;姜洪杰;黄松;诸欣平