

论著

IL-6对弓形虫增殖的影响

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摘要

目的: 观察白细胞介素-6 (IL-6) 对弓形虫增殖的影响。方法: 以C57BL/6小鼠腹腔巨噬细胞为靶细胞, 采用3H-尿嘧啶(3H-U)特异性标记的弓形虫在MΦ内的增殖实验。结果: 单独应用IL-6处理MΦ, 可以促进弓形虫在MΦ内的增殖, α肿瘤坏死因子(TNFα)的影响不明显; 而在IL-6逆转γ干扰素(IFNγ)诱导的MΦ抗弓形虫效应的实验中发现, 加入抗TNFα抗体可增加IL-6对IFNγ诱导MΦ抗弓形虫效应的逆转作用。结论: 体外应用IL-6可促进弓形虫在小鼠腹腔MΦ内的增殖作用, 并能部分逆转IFNγ的抗弓形虫效应。

关键词 [弓形虫](#), [白细胞介素-6](#), [γ干扰素](#), [α肿瘤坏死因子](#)

分类号

EFFECT OF IL 6 ON THE MULTIPLICATION OF TOXOPLASMA GONDII

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Abstract

AIM: To observe the effect of IL 6 on the multiplication of Toxoplasma gondii. METHODS: Peritoneal macrophages from C57BL/6 mouse were incubated with 3 H uracil labelled T.gondii in vitro . RESULTS: Pretreatment (but not post treatment) of MΦ with IL 6 enhanced T.gondii multiplication in a dose dependent manner. Pretreatment with IFNγ resulted in active killing of parasites whereas the addition of IL 6 resulted in a partial reversal of IFNγ mediated toxoplasmaicidal activity. Combining TNFα with IL 6 and IFNγ pretreatment resulted in restoration of toxoplasmaicidal activity. Addition of polyclonal anti TNFα antibodies to IL 6 and IFNγ pretreatment resulted in enhancement in the IL 6 mediated impairment of IFNγ function. CONCLUSION: IL 6 could enhance intraperitoneal multiplication of T.gondii and reverse IFNγ mediated toxoplasmaicidal activity.

Key words [Toxoplasma gondii](#) [IL 6](#) [IFNγ](#) [TNFα](#)

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