论著

IFN-γ联合TNF-α活化小鼠腹腔巨噬细胞抗不同毒力株弓形虫的作用

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目的: 比较 $I F N - \gamma$ 联合 $T N F - \alpha$ 体外活化的小鼠腹腔巨噬细胞($M \Phi$) 对强毒株 R H株及弱毒株 F u k a y a 株的抗虫作用。方法: 体外以 $I F N - \gamma$ 与 $T N F - \alpha$ 联合活化昆明系小鼠腹腔 $M \Phi$,观察其对入侵的 R H 株及 F u k a y a 株速殖子的抗虫作用, 测定培养上清中 N O 的水平。结果: 在以 $I F N - \gamma$ 1 0 0 $U + T N F - \alpha$ 1 0 0 U 活化的 $M \Phi$ 中, 入侵 2 4 h 后的 R H 株弓形虫速殖子被完全杀灭, 而 F u k a y a 株速殖子则缓慢增殖, 且前者培养上清中 N O 水平显著高于后者。结论: $I F N - \gamma$ 活化的 $M \Phi$ 对入侵的 R H 株和 F u k a y a 株速殖子的抗虫作用存在差异,这可能与 N O 的水平有关。

 关键词
 Y-干扰素
 Q-肿瘤坏死因子
 弓形虫
 巨噬细胞
 一氧化氮

 分类号

ANTI-TOXOPLASMA EFFECT OF ACTIVATED MOUSE MACROPHAGES INDUCED BY INTERFERON-Y COMBINED WITH TNF-a*

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Abstract

AIM: To compare the inhibitory effect of the macrophages activated by IFN- γ combined with TNF- α against RH strain and Fukaya strain. METHODS: The average parasite proliferation rates of the two strains within the cytokine-activated M Φ s were calculated at different times post-challenge, the nitric oxide (NO) levels in the medium supernatant were simultaneously determined. RESULTS: In the macrophages activated by 100 U each of IFN- γ and TNF- α , the invaded tachyzoites of RH strain were completely killed, while the invaded tachyzoites of Fukaya strain remained slow proliferation with significantly lower levels of NO detected at 24 h post challenge. CONCLUSION: The difference in the anti-Toxoplasma effect of the activated macrophages against RH and Fukaya strains might be attributed to the different amount of NO produced by the macrophages.\;

Key words Interferon-γ tumor necrosis factor-α Toxoplasma gondii marcophage nitric oxide

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