

巨噬细胞系MMC-1细胞遗传学的初步研究

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摘要 应用染色体G、C分带技术, 研究了小鼠巨噬细胞株MMC-1 16代和120代细胞的核型。结果表明, 16代细胞为超五倍体, 染色体众数为104—106, 具有1—12条标记染色体; 120代细胞为亚四倍体, 染色体众数为73, 具有1—18条标记染色体。15—20%的MMC-1细胞具有1—3对C带正染色的双微体。C分带技术证明, MMC-1细胞的一些中着丝点标记染色体, 它们的着丝点实际上是由位置邻近的双着丝点组成。作者还比较研究了与MMC-1来源有关的小鼠胸腺瘤细胞株BW4147和G3H小骨髓细胞的核型, 结果提示巨噬细胞系MMC-1可能是C3H小鼠的巨噬细胞与胸腺瘤细胞杂种的后代。

关键词

分类号

A Preliminary Cytogenetic Study on the Macrophage Line MMC-1

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Abstract

In the present paper, karyotypes of the 16, 120 generations of mouse macrophage line MMC-1 are analysed by means of several banding techniques. The results show that 16 generation of MMC-1 cells is hyper-pentaploid with a modal number of 104—106 and 1—2 marker chromosomes, that 120 generation of MMC-1 cells is hypotetraploid with modal number of 73 and 1—18 marker chromosomes, that 15—20% of MMC-1 cells contain 1—3 double minute chromosomes which have an interstitial C-band, that a centromere of marker meta-chromosome actually consists of 2 closely situate centromere. By comparison of the karyotype of MMC-1 cells with the karyotypes of mouse thymoma cell line BW 5147, C3H mouse bone marrow cells, it was suggested that the macrophage line MMC-1 may be progenies of a hybrid between macrophage and BW5147 cells.

Key words

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