BrdU抗性细胞特性的研究 II.四个抗性亚系核仁形成区(NORs)活 性和BrdU抑制NORs活性机制的探讨

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从中国仓鼠细胞株Wg3h中,通过Brd U处理获得了两个抗30 ug/ml BrdU和两个抗60ug/ml BrdU的伉性细胞 ▶加入我的书架 亚系。银染NORs(Ag-NORs)的分析表明,除了一个抗性细胞亚系外,其他3个亚系NORs的活性都明显地被BrdU所 抑制,即主要是表现在细胞Ag-NORs数和携带Ag-NORs染色体数的明显减少。不同BrdU抗性亚系NORs活性被抑制的 程度可有很大的差异。在培养基里除去Brd U后,抗性细胞被BrdU抑制的NORs活性可以逐步得到恢复,但其恢复的▶复制索引 速度显然比Wg3h细胞缓慢得多。抗性细胞NORs活性受抑制,与Wg3h细胞一样,是由于BrdU 毒性的缘故。

关键词

分类号

Study on Characteristics of BrdU-resistant Cells II .NORs Activities of Four **BrdU-resistant Sublines and Mechanism of the NORs Suppression Caused** by BrdU

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Abstract

Two 30ug BrdU/ml-resistant sublines and two 60 ug BrdU/ml-resistant sublines are induced from a Chinese hamster cell line Wg3h by both one-step and two-step selections. It is indicated in Aq-NORs analysis that the NORs activity of all the BrdUresistant sublines.except one, are significantly suppressed, i.e., the averages of the AgNORs number per cell and number of the chromosomes bearing Aq-NORs per cell are decreased obviously. The degree of the suooression for different BrdU-resistant sublines varies very much. It is clear that not all the high BrdU concentrationresistant sublines can resist the suppression of the NORs activity caued by BrdU. After washing out the BrdU outside the cells, the suppressed NORs activity of the BrdU-resistants can be gradually restored, but the recover speed is far lower than that of Wg3h cells. The suppression of the NORs activity of the BrdU-resistants should be due to BrdU toxicity.

Key words

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扩展功能

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