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论著

环磷酰胺对全胚胎培养小鼠胚胎的细胞学影响

管孝鞠1 ,王治乔2 ,王爱平2 ,廖明阳2

11 第三军医大学免疫学研究所, 重庆 400038 ;21 军事医学科学院毒物药物研究所, 北京 100850

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摘要 目的与方法:本实验采用全胚胎培养方法,建立了环磷酰胺致畸作用模型,并在此基础上利用流式细胞分析术对培养所得胚胎进行了细胞学观察与分析。结果与结论:发现环磷酰胺所致胚胎畸形可能与其所引起的细胞周期改变及细胞凋亡有关。

关键词 环磷酰胺 全胚胎培养 细胞周期 细胞凋亡

CELLULAR EFFECTS OF CYCLOPHOSPHAMIDE ON MOUSE EMBRYOS FROM WHOLE EMBRYO CULTURE SYSTEM

GUAN Xiao - ju , et al

Institute of Immunology , Third Military Medical University , Chongqing 400038 , China

Abstract Purpose and Methods : By using mouse whole embryo culture technique , the in vitro model of cyclophosphamide - induced teratogenicity was established. The cellular effects of cyclophosphamide on mouse embryos was evaluated by light microscopy and flow cytometry. Results and Conclusion : The results suggested that the variation of cell cycle and the occurrence of apoptosis might be involved in cyclophosphamide - induced teratogenicity.

Keywords cyclophosphamide whole embryo culture cell cycle apoptosis

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通讯作者