

论著

纤维蛋白胶对体外培养小鼠胚胎发育的影响

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摘要 目的: 研究纤维蛋白胶对体外培养小鼠胚胎发育的影响。方法:超排获取昆明小鼠2细胞期受精卵,常规配制纤维蛋白胶,比较小鼠胚胎常规培养与在纤维蛋白胶上培养的囊胚发育率及孵化率,以及内细胞团染色体数目变化。结果:小鼠胚胎在纤维蛋白胶上培养与常规培养,囊胚发育率及孵化率分别为:67.5%和66.7%($P = 0.837$, Yetes corrected), 38.5%和34.0%($P = 0.159$, Yetes corrected)。内细胞团染色体数目绝大部分为 $2n = 40$,基本保持核型稳定。结论:纤维蛋白胶对体外培养的小鼠胚胎无不良影响,可以作为研究胚胎营养因子对胚胎影响的载体基质。

关键词 [纤维蛋白胶](#) [胚胎发育](#) [载体](#)

EFFECT OF FIBRIN ON MOUSE EMBRYO DEVELOPMENT IN VI TRO

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Abstract Purpose : To address closely the effect of fibrin on the development of mouse embryo invit ro. Methods : Two2cell mouse embryos were divided into two random groups : Group 1 (experiment group) , with fibrin glue ; Group 2 (cont rol group) , without fibrin glue. Embryo development and cleavage of the two groups were compared every day for 5 days. The chromosome analysis of hatched embryo cells were also performed. Results : The percentages of embryos reaching blastocyst/ hatching stages were as follows : Group 1 , 67.5% and 38.5% respectively ; Group 2 , 66.7% and 34.0% ($P > 0.05$, Group 1 vs Group 2) , respectively. The percentages of normal chromosome number (diploid) in two groups were 92% and 90% , respectively ($P = 0.387$, Group 1 vs Group 2) . Conclusion : There were no significant difference between two groups on the blastocyst/ hatching development rates and chromosome analysis. These data demonst rate that fibrin glue have no toxicity on mouse embryo development and are suitable for interaction study between the embryot rophic factor and development embryos.

Keywords [fibrin](#) [embryo development](#) [vehicle](#)

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