

论著

转人TNF α 基因对肾细胞癌细胞致瘤性的影响

张晓琴¹, 陈 坚², 曹广文³, 万谟彬¹, 戚中田³

1. 第二军医大学长海医院传染科, 上海 200433; 2. 第二军医大学军队卫生教研室, 上海 200433; 3. 第二军医大学微生物教研室, 上海 200433

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摘要 目的:观察转人TNF α 基因对肾细胞癌细胞(RCC)致瘤性的影响,为进一步对RCC的基因治疗打下基础。方法:将人TNF α 基因构建入逆转录病毒载体,经包装、鉴定后,感染RCC细胞株78620,ELISA法测转人TNF α 基因78620细胞上清中TNF α 的活性,同时,将转人TNF α 基因的78620细胞接种裸鼠,观测转TNF α 前后RCC细胞致瘤性的变化。结果:转人TNF α 78620细胞上清TNF α 的浓度平均为(5 004 \pm 624) pg/ml,接种裸鼠后无肿瘤长出。结论:转人TNF α 基因使建株RCC失去了致瘤性。

关键词 TNF α 肾细胞癌 致瘤性

INFLUENCE ON THE TUMORIGENICITY OF THE HUMAN RENAL CELL CARCINOMA (RCC) CELLS TRANSDUCE WITH HUMAN TNF α GENE

ZHANG Xiao-qin¹, CHEN Jian², CAO Guang-wen³, WAN Mo-bing¹, QI Zhong-tian³.

1. Infection Department, Changhai Hospital, Second Military Medical University, Shanghai 200433, China; 2. Department of Military Hygiene, Second Military Medical University, Shanghai 200433, China; 3. Department of Microbiology, Second Military Medical University, Shanghai 200433, China

Abstract Purpose: To study the influence on the tumorigenicity of the human renal cell carcinoma (RCC) cells by transfection of human TNF α gene. Methods: hTNF α cDNA was inserted into retroviral vector to construct recombinant vector pL (TNF α) SN. The packaged and confirmed retrovirus were infected to RCC cell line. Then, nude mice were injected by 78620 cell infected with the hTNF α gene or not, and the tumorigenicity of RCC was observed. Results: The mean expression level of TNF α in the supernatant of TNF α transfected 78620 cell culture medium was (5 004 \pm 624) pg/ml. And the nude mice injected with TNF α gene engineered RCC cells had no tumor growth. Conclusion: The TNF α gene engineered human RCC cells lost tumorigenicity.

Keywords TNF α renal cell carcinoma tumorigenicity

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