

Effect of *TNF* gene-transfected LAK cells on the ascitic liver carcinoma-bearing mice

Guo-Liang Lou, Xue-Tao Cao, Bi-He Min, Wei-Ping Zhang, Pei-Lin Meng

Guo-Liang Lou, Bi-He Min, Pei-Lin Meng, Department of Hematology, Changhai Hospital, Second Military Medical University, Shanghai 200433, China

Xue-Tao Cao, Wei-Ping Zhang, Department of Immunology, Second Military Medical University, Shanghai 200433, China

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Correspondence to: Dr. Guo-Liang Lou, Department of Hematology, Changhai Hospital, Second Military Medical University, Shanghai 200433, China
Telephone: 0086-21-25070705

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Abstract

AIM: To investigate the therapeutic effect of *TNF* gene transfected LAK cells on ascitic liver carcinoma bearing mice.

METHODS: *TNF* gene was transfected into murine LAK cells by

retrovirus. Low dose *TNF* gene transfected LAK cells and IL-2 were i.p. injected into murine model. Cytotoxicity of gene transfected LAK cells was studied *in vitro* growth and the survival time of murine model was observed.

RESULTS: *TNF* gene-transfected LAK cells secreted higher level of *TNF* than that of normal LAK cells or control gene-transfected LAK cells. The *in vitro* growth ability and cytotoxicity of *TNF* gene-transfected LAK cells were markedly inhibited by anti-*TNF* monoclonal antibodies. Significant therapeutic effect on ascitic liver carcinoma bearing mice was achieved.

CONCLUSION: *TNF* gene transfected LAK cells have therapeutic effect on ascitic liver carcinoma bearing mice.

Key words: Tumor necrosis factor; Kill cells, lymphokine-activated; Live neoplasms/therapy; Gene therapy; Transfection; Mice

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