

论著

## IFN- $\alpha$ 1b对肝星状细胞形态及其CTGF表达影响的研究

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**摘要** 目的: 通过观察IFN- $\alpha$ 1b对肝星状细胞(HSC)形态和表达CTGF的影响, 探讨IFN- $\alpha$ 1b在治疗肝纤维化中的作用机制。方法: 采用体外培养大鼠肝星状细胞, 分别加入IFN- $\alpha$ 1b、TGF- $\beta$ 1, 观察肝星状细胞的形态学及CTGF表达的改变。结果: 透射电镜观察到IFN- $\alpha$ 1b作用组肝星状细胞有明显的凋亡现象发生; RT-PCR观察到正常组和TGF- $\beta$ 1诱导肝星状细胞表达的CTGF mRNA随IFN- $\alpha$ 1b的作用而减少。结论: IFN- $\alpha$ 1b对肝星状细胞表达CTGF的抑制作用机制可能是通过诱导肝星状细胞凋亡和抑制TGF- $\beta$ 1诱导肝星状细胞表达CTGF。

**关键词** [肝星状细胞](#); [干扰素 \$\alpha\$](#) ; [结缔组织生长因子](#)

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## Effects of IFN- $\alpha$ 1b on morphology and the expression of connective tissue growth factor in hepatic stellate cells

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### Abstract

<FONT face=Verdana>AIM: To observe the effect of IFN- $\alpha$ 1b on morphology and the expression of connective tissue growth factor (CTGF) in hepatic stellate cells (HSC). METHODS: HSC were cultured in vitro, and were treated with IFN- $\alpha$ 1b and TGF- $\beta$ 1. The changes of HSC on morphology were observed, and the expression of CTGF in HSC was assessed using reverse transcription-polymerase chain reaction (RT-PCR). RESULTS: Phenomenon of apoptosis were observed in HSC treated with IFN- $\alpha$ 1b. The expression of CTGF in HSC was decreased after treatment with IFN- $\alpha$ 1b in control and TGF- $\beta$ 1-triggered groups. CONCLUSION: IFN- $\alpha$ 1b is able to induce the apoptosis and suppress the expression of CTGF in HSC. </FONT>

**Key words** [Hepatic stellate cells](#); [Interferon-alpha](#); [Connective tissue growth factors](#)

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