



## 重组人p53腺病毒联合顺铂对肺腺癌A549细胞基因表达的影响

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## Effect of Recombinant Human Adenovirus p53 Combined with Cisplatin on the Expression of Human Lung Adenocarcinoma A549 Cell Gene

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摘要

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**摘要** 目的研究重组人p53腺病毒(rAd-p53)联合顺铂对肺腺癌A549细胞基因表达的影响,探讨rAd-p53增强顺铂对A549细胞抑制作用的机制。方法通过基因芯片检测技术,比较rAd-p53联合顺铂与单独顺铂处理后的肺腺癌A549细胞肿瘤相关基因表达的差异,采用SAM软件对结果进行分析。结果rAd-p53联合顺铂与单独顺铂处理的A549细胞比较,15个基因表达显著上调,28个基因表达显著下调。结论rAd-p53增强顺铂对A549细胞的抑制作用与导入外源性p53基因后,p53基因表达上调并引起调控细胞周期、细胞增殖、细胞凋亡的一系列基因的表达变化。

**关键词:** 重组人p53腺病毒 肺腺癌A549细胞株 基因芯片

**Abstract:** Objective To explore the effect of recombinant human adenovirus p53(rAd-p53) combined with cisplatin on the expression of human lung adenocarcinoma A549 cells. Methods Human lung adenocarcinoma A549 cells were treated with rAd-p53 combined with cisplatin (combination group) or with cisplatin alone (cisplatin group). The expressions of the cell genes were compared between these two groups and the results were analyzed by SAM software. Result A total of 43 differential genes were found, 15 of which were up-regulated and 28 were down-regulated. Conclusion Following introduction of rAd-p53, many genes regulating cell cycle, proliferation and apoptosis express up or down which significantly enhance chemosensitivity and killing efficiency of cisplatin on human lung adenocarcinoma A549 cells.

**Keywords:** recombinant human adenovirus p53 lung adenocarcinoma A549 cell line microarray

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