

论著

R a s 反义寡核苷酸对胰腺癌 P c -2细胞多药耐药的影响

陈 熹, 兆寅, 胡志鹏, 吴 涛, 纪宗正, 张 信

西安交通大学 第二医院普外科, 西安 710004

收稿日期 2005-3-15 修回日期 网络版发布日期 2006-9-28 接受日期

摘要 摘要: 目的 探讨R a s反义寡核苷酸(ASODN)对胰腺癌P c-2细胞多药耐药的影响。方法应用R a s ASODN抑制P c-2细胞中R a s和P-糖蛋白(P-glyoprotein, P-gp)表达, 采用MTT法测定P c-2细胞化疗敏感性, 荧光定量RT-PCR法检测细胞内MDR-1基因水平, 流式细胞仪检测细胞内阿霉素(ADR)浓度的改变。结果 R a s ASODN能明显抑制胰腺癌P c-2细胞中R a s和P-gp蛋白的表达($P < 0.05$), 提高P c-2细胞的化疗敏感性($P < 0.05$), 降低P c-2细胞中MDR-1基因水平($P < 0.05$), 增加P c-2细胞中的ADR摄入量($P < 0.05$)。结论 R a s ASODN可能通过调控MDR-1基因水平, 增加多药耐药胰腺癌P c-2细胞对化疗药物的敏感性。

关键词 [胰腺癌](#) [多药耐药](#) [R a s](#)

分类号

E f f e c t s o f R a s A n t i s e n s e O l i g o d e x y n u c l e o t i d e o n M u l t i d r u g R e s i s t a n c e o f P a n c r e a t i c C a r c i n o m a P c - 2 C e l l s

Chen Xi, Qin Zhao-yin, Hu Zhi-peng, Wu Tao, Ji Zong-zheng, Zhang Xin

Department of General Surgery, the Second Affiliated Hospital, Xi'an Jiaotong University, Xi'an 710004, China

Abstract Abstract: Objective To investigate the role of Ras antisense oligodexynucleotide(ASODN) in multidrug resistance(MDR) of pancreatic carcinoma Pc-2 cells. Methods Ras and P-gp expression was suppressed by Ras ASODN. Sensitivity of Pc-2 cells to chemotherapy was determined by the MTT assay. MDR-1 mRNA level was detected by fluorogenic probe quantitative reverse transcription polymerase chain(RT-PCR) method. Flow cytometry(FCM) was used to detect the accumulative concentration of adriamycin(ADR) in the cells. Results Ras ASODN significantly inhibited the Ras and P-gp expression ($P < 0.05$), increased the sensitivity of Pc-2 cells to chemotherapeutic agents ($P < 0.05$), decreased MDR-1 gene level in Pc-2 cells ($P < 0.05$), and increased the intracellular intake of ADR in Pc-2 cells ($P < 0.05$). Conclusion Ras ASODN may enhance the sensitivity of multidrug-resistant pancreatic cancer Pc-2 cells to chemotherapeutic agents by regulating MDR-1 gene level.

Key words [pancreatic carcinoma](#) [multidrug resistance](#) [Ras](#)

DOI:

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(1059KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“胰腺癌” 的相关文章](#)
- ▶ [本文作者相关文章](#)

- [陈 熹](#)
- [兆寅](#)
- [胡志鹏](#)
- [吴 涛](#)
- [纪宗正](#)
- [张 信](#)

