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Title: Expression of snail in human small-cell lung cancer cell line H446 and its role in cisplatin resistance

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关键词: [人小细胞肺癌](#); [顺铂耐药](#); [snail](#); [real time RT-PCR](#); [Western blot](#)

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摘要: 目的 观察锌指转录因子snail在耐顺铂(cisplatin,CDDP)的人小细胞肺癌(small cell lung cancer, SCLC)H446/CDDP细胞中的表达情况,探讨snail表达在人SCLC顺铂耐药中的作用。 方法 培养H446细胞系和H446/CDDP细胞系,采用MTT法检测H446/CDDP的耐药指数;分别提取人SCLC顺铂耐药细胞H446/CDDP及其亲代细胞H446的mRNA及总蛋白,应用sybgreen实时荧光RT-PCR、Western blot方法检测snail mRNA及蛋白表达水平。 结果 H446/CDDP细胞snail蛋白及mRNA表达水平较H446细胞显著性升高($P<0.05$)。 结论 SCLC的顺铂耐药性可能与snail表达水平增高有关。

Abstract: Objective To observe the expression of zinc finger transcription factor snail in human cisplatin (CDDP)-resistant small-cell lung cancer (SCLC) cell line H446/CDDP, and to study the role

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of snail in cisplatin resistance of human SCLC. Methods
H446 and H446/CDDP cell lines were cultured, and cisplatin
resistance index was measured by MTT assay. The mRNA and
protein expression levels of snail in the H446 and H446/CDDP cells
were detected by real-time RT-PCR and Western blotting.
Results The mRNA and protein expression levels of snail in the