### 论著

# COX-2抑制剂(NS-398)对结肠癌HT-29细胞体外侵袭力的作用及 CD44v6、nm23-H1基因的调节

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目的:研究NS-398对结肠癌HT-29细胞体外侵袭力的作用及CD44v6、nm23-H1基因的调节。 方 法: 通过流式细胞仪检测COX-2和CD44v6的表达,MTT检测细胞活性,改良的Boyden小室法观察HT-29细 胞侵袭重组基底膜的能力,RT-PCR观察nm23-H1 mRNA的表达。 结果: HT-29细胞COX-2表达阳性, 0.1、1.0、10 μmol/L NS-398可显著抑制HT-29细胞侵袭重组基底膜的能力,且上述作用与NS-398的毒性 作用无关。NS-398可下调CD44v6的表达,上调nm23-H1 mRNA的表达。 结论: NS-398具有抑制结肠癌 细胞HT-29体外侵袭力的作用,下调CD44v6的表达和上调nm23-H1 mRNA的表达可能是其作用机制。 HT-29细胞: NS-398.结肠肿瘤: 侵袭.肿瘤: CD44v6: nm23-H1: 前列腺内过氧化物合酶 分类号 R735.35

# Effect of NS-398 on invasion of colon cancer HT-29 cells in 398,结肠肿瘤; 侵袭,肿瘤; vitro and its regulation by CD44v6 and nm23-H1 genes

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#### **Abstract**

<FONT face=Verdana>AIM: To study the anti-invasive effect of NS-398 on colon cancer cell line HT-29 in vitro an its regulation by CD44v6 and nm23-H1 genes. METHODS: Flow cytometry was used to detect the expression of COX-2 and CD44v6 in HT-29 cells. MTT was used for cell survival rate tests. The modified Boyden chamber model was used for quantitative invasion assay. RT-PCR was used to detect the expression of nm23-H1 mRNA. RESULTS: Flow cytometry analysis showed that COX-2 was positive in HT-29 cells. NS-398 had significant inhibitory effects on invasion of HT-29 cells, which had no relation with its cytotoxicity. NS-398 down-regulated the expression of CD44v6 and up-regulated the expression of nm23-H1 mRNA. CONCLUSION: NS-398 has an anti-invasive effect on HT-29 cells in vitro. Down-regulation of CD44v6 and up-regulation of nm23-H1 may be its underlying mechanisms. </FONT>

Key words HT-29 cells NS-398 Colonic neoplasms Invasiveness neoplasm CD44v6 nm23-H1 Prostaglandin-endoperoxide synthase

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