

论著

姜黄素对裸鼠乳腺移植瘤p21及CD44V₆表达的影响

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摘要 目的: 研究姜黄素对裸鼠乳腺移植瘤p21及CD44V₆表达的影响。方法: 选用人乳腺癌细胞株MCF-7对裸鼠进行异种移植,成瘤后随机分为2组: (1) 阴性对照组; (2) 姜黄素组。观测移植瘤的出瘤时间、成瘤率,测量瘤体大小并计算瘤表面积。同时应用RT-PCR,检测2组肿瘤组织中cyclin D1、p21及CD44V₆的表达。结果: 姜黄素组瘤表面积明显低于阴性对照组; 姜黄素组p21表达量高于阴性对照组, CD44V₆表达量明显降低, 2组的cyclin D1表达差异无显著。结论: 姜黄素抑制裸鼠MCF-7乳腺移植瘤CD44V₆的表达, 增加p21的表达。

关键词 [姜黄素](#); [乳腺肿瘤](#); [细胞周期蛋白D1](#); [小鼠,裸](#)

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Effect of curcumin on expression of p21 and CD44V₆ in human breast cancer xenografts

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Abstract

AIM: To study the effect of curcumin on the expression of p21 and CD44V₆ in breast carcinoma in nude mice. METHODS: Nude mice were xenografted with human breast cancer cell line MCF-7 and randomly divided into 2 groups (n=4 in each group): control group and curcumin group. In latent period, the percentage of tumor development was observed. Tumors were measured and the surface areas were calculated. RT-PCR was performed to detect the expression level of cyclin D1, p21 and CD44V₆ mRNA. RESULTS: The tumor surface areas in the curcumin group were significantly lower than those in control group. In curcumin treatment group, the expression of p21 was up-regulated while cyclin D1 was nearly not changed. The expression of CD44V₆ was significantly down-regulated in curcumin group. CONCLUSION: Curcumin inhibits the expression of CD44V₆ and up-regulates the expression of p21 in nude mice bearing human breast cancer cell line MCF-7.

Key words [Curcumin](#) [Breast neoplasms](#) [Cyclin D1](#) [Mice](#) [nude](#)

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