

论著

油烟凝聚物和大蒜油对V79细胞中p53、p21ras表达的影响

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收稿日期 1999-4-4 修回日期 1999-7-4 网络版发布日期:

摘要 目的:为研究油烟凝聚物与肿瘤发生的潜在关系及大蒜油的防护作用。方法:用油烟凝聚物和大蒜油分别或同时处理V79细胞,利用免疫细胞化学方法检测V79细胞中p53、p21ras蛋白的表达情况。结果:与对照组相比,油烟凝聚物处理组p53、p21ras蛋白表达明显升高($P < 0.01$),且有剂量——效应关系;与对照组相比,50 μ l/ml大蒜油处理组降低油烟凝聚物诱发V79细胞p53、p21ras蛋白表达水平($P < 0.05$ 或 $P < 0.01$)。结论:油烟凝聚物有诱变作用,大蒜油可防护油烟凝聚物的诱变作用。

关键词 [油烟凝聚物](#) [大蒜油](#) [p53](#) [p21ras](#) [免疫细胞化学](#)

THE EFFECTS OF HEATED COOKING OIL VAPORS AND ALLIUM SATIVUM OIL ON p53 AND p21ras PROTEIN EXPRESSION IN V79 CELLS

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Abstract Purpose : This paper studies the relationships between Heated Cooking Oil Vapors (HCOV) and Allium Sativum Oil (ASO) in mutagenesis. Methods : we detected p53 and p21ras protein expression in the V79 cells treated by HCOV and ASO with immunocytochemical techniques. Results : The results showed that the p53 and p21ras protein expression was significantly increased in HCOV groups compared with the control group ($P < 0.01$), and a dose2dependent relationship was observed, while the ASO(50 μ g/ml) could decreased the p53 and p21ras protein expression in the V79 cells treated by HCOV compared with the control group ($P < 0.05$ or $P < 0.01$). Conclusion : The results indicated that the ASO could prevent from mutagenic activity of the HCOV.

Keywords [heated cooking oil vapors](#) [ailium sativum oil](#) [p53](#) [p21ras](#) [immunocytochemistry](#)

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