

عنوان مقاله:

Effect of omega-3 compound on gene expression in cancer

محل انتشار:

چهارمین کنگره بین المللی و شانزدهمین کنگره ملی ژنتیک (سال: 1399)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Background and Aim: The concept of 'lifestyle' includes different factors such as nutrition, diet, psychological stress, physical activity, working habits, environmental pollutants, smoking and alcohol consumption. Several factors both inside and outside the body contribute to gene expression and the development of cancer. There is evidences that the lifestyle has significant effects on the pattern of epigenetic changes. The aim of this study was to investigate the effects of lifestyle on gene expression in cancer. **Methods:** Ten mail Balb /c mice were divided into control and treatment groups. Each group was fed for two months. Control group with standard rat diet and treatment group as 50% standard diet and 50% omega-3 compounds. After two months, mice's colon were separated and their RNA was extracted. Extracted RNA was used for cDNA synthesis and then Real Time PCR was done. **Results:** Result showed oncogenes were down regulated in treated mice than control group. Tumor suppressor genes showed increased expression in treated mice than control group. **Conclusion:** Therefor changes in lifestyle have a high impact on reducing the expression of oncogenes and increasing the tumor suppressor genes expression thus reducing the risk of cancer.

کلمات کلیدی:

Lifestyle, colorectal cancer, gene expression, oncogene, tumor suppressor

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