عنوان مقاله:

Study of the expression of apoptotic BAX and Bcl-2 genes in breast cancer cells treated with dendrosomalnanocurcumin

محل انتشار:

دهمین کنگره بین المللی سرطان پستان (سال: 1393)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Neda Jafari - *M.Sc. student, Department of Genetics, Faculty of Natural Sciences, University of Tabriz, Tabriz, Iran*

Esmaeil Babaei - *Assistant professor,Department of Genetics, Faculty of Natural Sciences, University of Tabriz, Tabriz, Iran*

Aref Sobhkhizy - *M.Sc. student, Department of Genetics, Faculty of Natural Sciences, University of Tabriz, Tabriz, Iran*

خلاصه مقاله:

An urgent need in cancer control today is to develop effective and affordable approaches to the treatment of breast cancer. In order to achieve this goal, producing drugs with high efficiency and low side effects is essential.There is no doubt that diet plays an important role in cancer prevention. Getting advantages of natural products and their therapeutic potential in nanotechnoloy is one of the prominent accomplishments of this field. Curcumin is the flavoring agent of turmeric with various therapeutic effects especially anti-tumor activity. Applying nanopartcals have improved these properties and turned dendrosomal curcumin to an effective agent in cancer treatment. Following the pervious researches we studied the apoptotic effect of this agent through evaluating the expression of BAX and BCL-2 genes in MCF-7 and T47D breast cancer cell lines. MCF-7 and T47D cell lines were cultured, cell viability was measured by MTT assay, the cells were treated with both void and dendrosomal curcumin and the expression of BAX and BCL-2 genes were measured by semi quantitative RT-PCR. Toxicity assay shows that dendrosomal curcumin significantly suppresses proliferation of MCF-7 and T47D cancerous cell lines. Also DNC affected significantly the expression of apoptotic BAX and BCL-2 genes.

کلمات کلیدی:

Breast cancer, dendrosomal nanocurcumin, apoptosis

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/726498