

## عنوان مقاله:

A new strategy against cancer cells

## محل انتشار:

دهمین کنگره بین المللی سرطان پستان (سال: 1393)

تعداد صفحات اصل مقاله: 1

## نویسندگان:

Ali Ghanbari Asad - *Biotechnology Department, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran*

Bahram Kazemi - *Biotechnology Department, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran*

Mojgan Banhehpour - *Biotechnology Department, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran*

Hajar Yaghoobi - *Biotechnology Department, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran*

## خلاصه مقاله:

for minimizing the suicide gene therapy side effects, we need to confine the lethal gene expression just to the cancerous target tissue. Hypoxia is present in the microenvironment of solid tumors such as breast tumors. The hypoxia-inducible factor (HIF) activates gene transcription via binding to the highly variable hypoxia responsive elements (HREs) in HRE-included genes. Consequently, pro-apoptotic gene Bax expression is increased and as a result will eliminate cancer cells. we want to use HRE element and BAX gene to make a new construct for killing cancer cells. we were amplified BAX gene by PCR using specific primers with appropriate restriction enzyme sites in their ends and clone this gene in pcDNA3.1 (+) vector. After that, we were amplified HRE element from PGK gene and cloned in 3 of BAX gene that cloned before in PcDNA3.1 (+). The construct was confirmed by colony PCR, restriction analysis and sequencing. Also HRE element amplified and colon in pcDNA3.1/BAX and confirmed by sequencing. We make new construct for gene therapy. It is noteworthy that the use of HRE elements and .suicidegenes together can target cancer cells such as breast cancer cells and kill cancer cell without any side effects

## کلمات کلیدی:

Gene therapy, Bax, Hypoxi, HRE

## لینک ثابت مقاله در پایگاه سیویلیکا:

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