

عنوان مقاله:

Identification Of miR-24 and miR-27 as CFIm25 regulator in glioblastoma multiforme

محل انتشار:

سومین کنگره بین المللی و پانزدهمین کنگره ملی ژنتیک ایران (سال: 1397)

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خلاصه مقاله:

Introduction: Glioblastoma Multiforme (GBM) is one of the most malignant types of central nervous system tumors. Recent data have shown different role of miRNAs in glioblastoma such as prognosis and therapeutic marker. MicroRNAs (miRNAs) are small non-coding RNAs that function in regulation of gene expression acting at the post-transcriptional level. Cleavage Factor Im (CFIm) is an essential component of the pre-mRNA 3' processing complex that functions in the regulation of poly(A) site selection. Recently it has been shown that CFIm25 is a repressor of proximal poly(A) site usage and when it is decreasing it causes increase of cell proliferation and so tumor growth. this study suggested that miR-24 and miR-27 are regulate the expression level of tumor suppressor gene CFIm25. The purpose of this study is to show the effect of these two microRNAs on the expression level of CFIm25 in glioblastoma cell line Material and Methods: first transfect this miRNAs to HEK cells to package lentiviruses then this viruses used to transduct U251 cell lines and the expression level of miRNAs and CFIm25 were estimated by QRT-PCR before and after treat this cell line. Result: real-time PCR showed that the overexpression of this miRNAs causes down regulate of our target gene CFIm25 in U251 cell line. Conclusion: our data indicated that overexpression of this two miRNAs cause downregulation of gene that is correlate with regulation of cell proliferation so this study suggests the oncogenic .role for selected miRNAs

کلمات کلیدی:

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