

## عنوان مقاله:

Investigating the effects of miR-IMA replacement on inhibiting cell migration and induction of apoptosis in breast cancer cell line

## 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: MicroRNAs (small noncoding RNAs of Yo-YF nucleotides long) are involved in the regulation of post-transcriptional gene expression, have close links with various cancers. Of these, miR-147 is a well-known microRNA with multiple tumor suppressor effects. In this study we investigated the effects of miR-۱۳۸ replacement on inhibiting cell migration and induction of apoptosis in breast cancer cell line.Methods: At first miR-۱۳۸ mimic was transfected into MAD-MB-Ym cells using electroporation method and optimum dose of miR-1m was determinded by MTT assay. At next stages we evaluated the effects of miR-1mh mimic on cell migration and apoptosis using wound healing assay and Annexin V- FITC/PI kit (flowcytometry) respectively. All data was analyzed by Graph Pad Prism software.Results: The optimum dose of transfected miR-۱۳۸ mimic into MDA-MB-۲۳۱ cells was determinded in Yo pMol/ul. The flowcytometery method demonstrated that transfected cells with miR-14% mimic have significant apoptotic profiles in comparison with control cells and transfected cells with NC-miR-mimic. As well as, wound healing assay showed that miR-IMA mimic decreases the migration ability of cells. Conclusion: This study showed that miR-IMA is downregulated in MDA-MB-YW1cells in comparison with control cells. Also the transfection of miR-1W1 mimic into MDA-.MB-Ym cells decreases cell migration and induces cell apoptosis

# کلمات کلیدی:

miR-۱۳۸, Transfection, Migration, Apoptosis

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