

عنوان مقاله:

The relationship between the expression of HOTAIR LncRNA in people with colorectal cancer and its clinical relevance.

محل انتشار:

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

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خلاصه مقاله:

Introduction: colorectal cancer (crc) is one of the leading causes of cancer-related death worldwide. Long non-coding RNAs (lncRNAs) are defined as transcripts longer than 200 nucleotides that are not translated into protein. lnc RNA HOTAIR, helps the invasion and metastasis of tumor cells. This molecule can reverse the process of converting epithelial to mesenchymal, and suppresses the invasion by inhibiting MMP1 and MMP3. Many studies emphasize the high expression of HOTAIR with the stage Advanced tumor, lymph node metastasis, and poor survival. **Materials and Methods:** In this study, 50 CRC tissue samples with pair normal were collected from surgery department of Taleghani hospital, Tehran, Iran. lnc RNA HOTAIR expression was evaluated using Real Time PCR method. Fold change of gene expression was evaluated by ($2^{-\Delta\Delta Ct}$) method. **Results:** The data showed a marked upregulation in the expression pattern of HOTAIR within the tumor samples compared to the controls. These observations were statistically associated with patient TNM stage, tumor location and differentiation. **Conclusion:** The alteration in the expression pattern of HOTAIR is assessable during CRC development, and therefor could be used as diagnosis biomarker for cancer detection.

کلمات کلیدی:

Colorectal cancer, Long none coding RNAs, lnc RNA HOTAIR

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