

عنوان مقاله:

Analysis of cytokeratin 8 gene expression in breast cancer patients by RT-q PCR

محل انتشار:

دومین کنگره بین المللی علوم و مهندسی (سال: 1397)

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خلاصه مقاله:

Breast cancer is still the most frequent cause of cancer-related death in women worldwide. Often death is not caused only by the primary tumor itself, but also by metastatic lesions. One of the most common methods used to diagnose cancer is laboratory tests using tumor markers. CTCs are rare cancer cells released into the blood by primary or metastatic tumors. The associated with worse prognosis in several major cancer types, presence of CTCs has been cancer. The number of articles describing single or including breast, prostate and colorectal patients characterize CTCs using RT -q PCR in the blood of breast cancer multiple markers to has increased greatly in recent years. Markers most frequently studied are Cytokeratins. Cytokeratin 8 is the major protein of the epithelial cell skeleton, and in this research, the expression potential of CK-8 gene was studied as a molecular biomarker for diagnosis of breast cancer in the circulatory system using Real- time PCR technique. Blood samples of patients and healthy individuals (as control group) were purchased from Cancer Institute of Imam Khomeini Hospital, Tehran, Iran, and their RNA were extracted. In the next step, cDNA molecule was synthesized using reverse transcriptase enzyme (RT) and gene -specific primers were designed and synthesized. Then the expression of CK-8 tumor marker was evaluated by real-time PCR technique. Finally, the data obtained from cancer samples and the control group were analyzed by SPSS software. Ck-8 was observed and measured in patients serum and was very low in the healthy group. CK-8 expression was measured quantitatively and was positive in patients' serum. Also, according to the disease grade, CK-8 expression was different in patients' serum

کلمات کلیدی:

Circulating Tumor Cells (CTC), Breast Cancer, CK-8, Tumor Marker, Real-Time PCR

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