

عنوان مقاله:

Analysis of Association Between rs1625895 SNP and Cellular Development of Breast Cancer

محل انتشار:

یازدهمین کنگره بین المللی سرطان پستان (سال: 1394)

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خلاصه مقاله:

Breast cancer is an uncontrolled growth of abnormal cells which occurs in various tissues of the breast such as the milk transferor ducts in the milkproducing tissue or non-glandular tissue. It is reported that approximately 30 percent of breast cancers occur because of somatic mutations in the TP53 gene. It is recognized that occurring single nucleotide polymorphisms increases the risk of cancer. Rs1625895 SNP is located in gene TP53 and chromosomal position of 7674797 on human chromosome 17. Thispolymorphism which occurs in 3'-UTR region of the gene TP53, increases the connection of miR-619 to the mRNA transcribed from gene TP53 that it prevents translation of the mRNA. It is recognized that rs1625895can be as allele G (with a high frequency) or allele A (with a low frequency). Investigating this SNP in breast cancer could be considered as a favorable prognostic factor in this disease. In order to investigate this issue, DNA blood sample was taken from people who sufferer breast cancer andcontrol group in Isfahan, then individuals genotyping was identified using the ASP-PCR techniques. The different phenotypes were analyzed using association studies in the samples, and it was found that G allele with Odd ratio = 3.403, p-Value = 0.0000002746 and CI = 95% is more inclined to become cancerous and allele A with Odds ratio = 3/081, p-Value = 0.011 and CI = 95% .is more inclined to sooner than two years death phenotype

کلمات کلیدی:

breast cancer, rs1625895, TP53, miR-619

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