

عنوان مقاله:

The study of the effect of combined genotypes of tp53 and PAI-2 polymorphisms on the breast cancer susceptibility in Irani-Azeri population

محل انتشار:

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

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خلاصه مقاله:

Backgrounds and Objectives: Breast cancer is the main cause of death especially because of this cancer in women around the world. It is a heterogeneous and multifactorial disease. According to previous reports, polymorphism in two genes; p53, which is an important tumor suppressor gene involved in wide range of cancers, and PAI-1, which is an inhibitor protein coding plasminogen involved in progression and metastasis, has been investigated. **Material and Methods:** In this case-control study, 200 patients and 200 healthy women in Iranian-Azeri population were investigated. At first, genomic DNA had been extracted using high salt method, then these genes had been genotyped with tetra-ARMS PCR method. Data had been analyzed with javastat online statics package and SPSS (version 22.0). **Results:** Genotype distribution of these polymorphisms for p53 and PAI-1 was GG=43.5%, GC=42%, CC=14.5% and 4G/5G=70.5%, 5G/5G=18.5%, 4G/4G=11%, respectively. No association between allelic frequency and genotype, individually nor in combination have been shown. Also, there was no association between combined genotype with pathological properties of cancer. **Conclusion:** Our results show that polymorphism of codon 72 of p53 has a significant association with breast cancer (p value<0.023). Even though there was no association in combined genotype with .breast cancer in our investigated population, further studies need to be done in bigger population and other races

کلمات کلیدی:

Breast cancer, P53 gene, PAI-1 gene, Polymorphism

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