

عنوان مقاله:

FOXP3 Genetic Variation at Position -۲۳۸۳ C/T (rs۳۷۶۱۵۴۹) in Patients with Breast Cancer

محل انتشار:

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خلاصه مقاله:

Background: We investigated the possibility of an association between the C-۲۳۸۳T polymorphism (rs۳۷۶۱۵۴۹) in the promoter region of the FOXP3 gene with breast cancer. Methods: The study groups consisted of ۲۵۰ women diagnosed with breast cancer (case group) and ۲۵۰ healthy women (control group). Polymerase chain reaction restriction fragment length polymorphism was performed for genotyping. Results: Breast cancer cases had a C allele frequency of ۴۵۵ (۹۱%) and T allele frequency of ۴۵ (۹%). The control group had a C allele frequency of ۴۶۸ (۹۳.۶%) and ۳۲ (۶.۴%) for the T allele. The CC genotype was present in ۲۰۶ (۸۲.۴%) patients, ۴۳ (۱۷.۲%) patients had the CT genotype, and the TT genotype was observed in ۱ (۰.۴%) patient. In the control group, ۲۱۹ (۸۷.۶%) had the CC genotype, whereas ۳۰ (۱۲%) had the CT genotype, and ۱ (۰.۴%) had the TT genotype. Statistical analysis revealed no significant differences in the distribution of alleles and genotypes between patients and controls ($P > 0.05$). There was no significant association between genotype distribution and patients' clinicopathological factors. Conclusion: Our results do not support an association between the FOXP3 -۲۳۸۳ C/T polymorphism and breast cancer in a population from southern Iran.

کلمات کلیدی:

Breast cancer, FOXP3 gene, Single Nucleotide Polymorphism, PCR-RFLP

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