

## عنوان مقاله:

Vegf (-634g> c) gene polymorphism as a biological marker to diagnosis breast cancer in northwest of Iran

## محل انتشار:

سومین سمپوزیوم بین المللی سرطان نسترن (سال: 1396)

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## خلاصه مقاله:

Breast cancer is the most frequently diagnosed cancer and the leading cause of cancer death among females. Vascular endothelial growth factor (VEGF) plays a central role in promoting angiogenesis and is over-expressed in breast cancer. Polymorphisms of VEGF such as (-634G> C) alter the levels of expression and subsequently influence the susceptibility and aggressiveness of breast cancer. We investigated this polymorphism in 132 DNA samples from both patient (persons with breast cancer) and normal persons (control) by extraction DNA from peripheral blood by salting out method, and genotypes were determined by the PCR-RFLP technique. Based on this study, CC recessive genotype frequency in the patient group increased relative to control group (47.36% and 34.09% respectively) and the statistical significant difference was observed (OR=1.739, 95% CI=0.946-3.205, P=0.056). GC genotype frequency in control and patient groups was 28.03 and 30.07 percent respectively, which was significant in control group (OR=1.104, 95% CI=0.573-2.128, P=0.751). GG dominant genotype frequency was higher in control group than the patient group (37.87 and 22.55 percent respectively) (OR=0.478, 95% CI=0.245-0.927, P=0.018). G allele frequency in patient and control groups was 40 and 61. In conclusion, our study revealed that the VEGF (-634 G> C) gene polymorphisms associated with breast cancer in the northwest of Iran females patients. According to the information obtained from this research, this polymorphism can be used as a biological marker to diagnose breast cancer in the northwest of Iran. More well-designed studies with larger sample size on different ethnicities are needed to further assess the associations.

## کلمات کلیدی:

Breast Cancer, Cancer Diagnosis, Cancer Prevention, Gene and Cancer, Cancer Genetics

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