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## The Relationship Between 6 Polymorphisms of Caveolin-1 Gene and the Risk of Breast Cancer

**Running title:** Polymorphisms of Caveolin-1 and breast cancer

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### Abstract

#### Background:

Caveolae play a role in cell signal transduction, kinetic regulation of transport vesicles, and cellular physiology. In this study, we evaluated the role of caveolin-1 genotypes in the risk of breast cancer.

#### Patients and Methods:

We evaluated 6 SNPs of caveolin-1 gene in a sample size of 406 participants. Six polymorphisms -G32124A (rs3807992), T29107A (rs7804372), T28608A (rs3757733), G21985A (rs12672038), G14713A (rs3807987), and C521A (rs1997623) were assessed using RFLP-PCR.

#### Results:

Regarding the distribution of genotypes, the relationship between cases and controls was significant for T29107A, G21985A, G14713A, and G521A polymorphisms, among which only G521A showed a significant difference in BMI between two groups. Moreover, the age of two groups was significant in the case of G32124A and T28608A polymorphisms.

#### Conclusions:

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