

# Annual Biotechnology Congress

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## Gene polymorphism in XPG and breast cancer risk

Masood N, Malik SS, Mubarak S and Khadim TM  
Fatima Jinnah Women University, Pakistan

### Introduction:

Polymorphism in XPG (PG) is associated with UV-DNA damage repair. The study investigated the association of PG (1047768 T>C) polymorphism with breast cancer risk in Pakistani women.

### Methodology:

A total of 175 breast cancer patients and 100 healthy controls were recruited. Genotyping was performed using ARMS PCR. Data were analyzed using SPSS version 24.

### Results:

The C allele was significantly associated with breast cancer risk (OR: 3.9, CI: 0.4-35.7). The TC genotype was also associated with breast cancer risk (OR: 8.9, CI: 2.0-38.7).

### Conclusion:

The study suggests that the PG (1047768 T>C) polymorphism is associated with an increased risk of breast cancer in Pakistani women.

### Biography

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