

Risk of Lung Cancer and Genetic Variations of *TERT* and *CLPTMIL* Genes: A Case-Control Study in an Iranian Population

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KEYWORDS Association Study. Lung Adenocarcinoma. Polymorphism. rs2736098. rs401681

ABSTRACT Genetic variants in chromosome 5p15.33 locus which is comprised of telomerase reverse transcriptase (*TERT*) and cleft lip and palate trans-membrane 1 like (*CLPTMIL*) genes were correlated with the susceptibility to lung cancer in several populations. The current study aimed to examine the frequency and also the association between two significant SNPs of *TERT-CLPTMIL* region and lung cancer in an Iranian population. The researchers carried out a case-control study, including 266 lung cancer patients and 250 cancer-free healthy controls matched for age, sex, and smoking status to test associations between *TERT* rs2736098 and *CLPTMIL* rs401681 polymorphisms, and lung cancer incidence in an Iranian population. The results revealed that the *TERT* rs2736098 T allele carriers were positively associated with lung cancer, especially lung adenocarcinoma. In contrast, T allele carriers of *CLPTMIL* were inversely associated with lung cancer and adenocarcinoma.