**Table I.** Genotype distribution and allele frequency of Trh241Met polymorphisms of *XRCC3* genein patients with lung cancer and controls

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Polymorphisms*** |  ***Variant*** | ***Lung cancer n (%)*** | ***Controls n (%)*** |  ***OR (95%CI)*** | ***p value*** |
| ***XRCC3******Trh241Met*** | *Trh/Trh**Trh/Met**Met/Met**Trh allele frequency**Met allele frequency* | *52 (61.2)**20(23.5)**13 (15.3)**122(72.2)**47 (27.8)* | *45 (50)**41 (45.6)**4 (4.4)**131(72.7)**49(27.3)* | *0.3 (0.160-0.589)**0.3(0.090-0.969)**3.88(1.212- 12.427)**0.81(0.499-1.320)**2.27(1.451-3.539)* | *0.048**0.044**0.020**0.402**0.943* |

*\*Statistical significant for p<0.050*

**Table II**. Comparative analysis of Thr241Met polymorphisms of *XRCC3* gene in patients with lung cancer (Fisher Test)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Genotype** |  | **Model** | **Z** | **p-value** | **OR** | **CI** |
|  | *XRCC3 Thr241Met* | *Dominant* | *1.483* | *0.138* | *0.634* | *0.348-1.157* |
| *Recessive* | *2.285* | *0.023* | *0.257* | *0.085-6.824* |

*\*Statistical significant for p<0.050*

**Table III.** Comparative analysis of Thr241Met polymorphisms of *XRCC3* gene in patients with lung cancer according to gender and histopathological type.

(Fisher ҆s Exact Test).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Histopathological type*** | ***Allele*** | ***Males*** | ***Females*** | ***p*** |
| *Squamous cell carcinoma* | *241 Trh* | 43 | 7 | 0.629 |
| *241 Met* | 8 | 2 |
| *Adenocarcinoma* | *241 Trh* | 8 | 1 | *0.102* |
|  *241 Met* | 4 | 4 |
| *Small cell carcinoma* | *241 Trh* | 4 | 3 | 0.634 |
| *241 Met* | 1 | 0 |

**Figure 1.** Gel electrophoresis for the analysis of Thr241Met polymorphisms of *XRCC3* gene

