**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

