**Supplementary table 1** **Stratification analyses by clinical characteristics about the rs28757157 polymorphism**

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| --- | --- | --- |
| Variables |  | *p*†, OR (95% CI) |
| Allele  | Homozygote | Heterozygote | Dominant | Recessive | Additive |
| Gender | Male | 0.847,1.03(0.80-1.32) | 0.147,0.51(0.20-1.27) | 0.211,1.22(0.89-1.67) | 0.393,1.14(0.84-1.55) | 0.104,0.47(0.19-1.17) | 0.818,103(0.79-1.35) |
|  | Female | 0.158,1.33(0.89-1.98) | 0.555,0.60(0.11-3.33) | 0.059,1.65(1.03-2.65) | 0.059,1.57(0.98-2.50) | 0.418,0.49(0.09-2.73) | 0.129,1.39(0.91-2.14) |
| Tumor type | LUAD | 1.000,1.00(0.74-1.35) | 0.248,0.48(0.14-1.67) | 0.330,1.20(0.83-1.71) | 0.512,1.13(0.79-1.60) | 0.205,0.45(0.13-1.55) | 0.869,1.03(0.75-1.40) |
|  | LUSC | 0.431,1.15(0.81-1.62) | 0.792,0.86(0.28-2.67) | 0.404,1.21(0.78-1.87) | 0.478,1.17(0.76-1.79) | 0.694,0.80(0.26-2.45) | 0.639,1.09(0.76-1.57) |
| LNM | (–) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
|  | (+) | 0.358, 0.81(0.53-1.26) | 0.110,0.22(0.04-1.41) | 0.651,0.88(0.51-1.52) | 0.471,0.82(0.49-1.40) | 0.119,0.23(0.04-1.46) | 0.279,0.76(0.47-1.24) |
| Stage | I~II | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
|  | III~IV | 0.705,1.09(0.71-1.67) | 0.626,0.65(0.11-3.69) | 0.410,1.25(0.74-2.10) | 0.473,1.21(0.72-2.01) | 0.558,0.60(0.11-3.35) | 0.601,1.14(0.70-1.83) |

LUAD: Lung Adenocarcinoma; LUSC: Lung Squamous cell carcinoma; LNM: lymph node metastasis.

Allele: T > C; Homozygote: TT; Heterozygote: TC; Dominant: CC vs TT-TC; Recessive: TC-CC vs TT.

†*p* values were calculated from logistic regression.

**Supplementary table 2** **Stratification analyses by clinical characteristics about the rs59429575 polymorphism**

BMI: body mass index.

Allele: T > C; Homozygote: TT; Heterozygote: TC; Dominant: CC vs TC-TT; Recessive: TC-CC vs TT.

†*p* values were calculated from logistic regression.

|  |  |  |
| --- | --- | --- |
| Variables |  | *p*†, OR (95% CI) |
| Allele  | Homozygote | Heterozygote | Dominant | Recessive | Additive |
| Age | ≤ 60 | 0.456,1.14(0.81-1.60) | 0.217,1.92(0.68-5.38) | 0.939,1.02(0.67-1.54) | 0.665,1.09(0.73-1.62) | 0.217,1.91(0.68-5.32) | 0.428,1.15(0.82-1.60) |
|  | > 60 | 0.845,1.03(0.75-1.43) | 0.196,1.94(0.71-5.30) | 0.353,0.83(0.55-1.23) | 0.646,0.91(0.63-1.34) | 0.863, 0.92(0.34-2.46) | 0.921,1.02(0.74-1.40) |
| BMI | ≤ 24 | 0.921,0.98(0.68-1.41) | 0.808,1.13(0.42-3.00) | 0.760,0.93(0.59-1.46) | 0.845,0.96(0.63-1.47) | 0.776,1.15(0.44-3.03) | 0.957,0.99(0.70-1.40) |
|  | > 24 | 0.958,0.99(0.66-1.49) | 0.570,1.44(0.41-5.05) | 0.442,0.82(0.50-1.36) | 0.589,0.88(0.54-1.42) | 0.515,1.51(0.43-5.27) | 0.814,0.95(0.64-1.43) |
| Smoking | Yes | 0.314,1.24(0.82-1.87) | 0.159,3.00(0.65-13.80) | 0.983,1.01(0.62-1.64) | 0.645,1.12(0.70-1.79) | 0.158,2.99(0.65-13.71) | 0.374,1.20(0.80-1.80) |
|  | No | 0.695,0.93(0.64-1.35) | 0.618,1.32(0.45-3.85) | 0.241,0.76(0.47-1.21) | 0.366,0.81(0.52-1.27) | 0.512,1.43(0.49-4.15) | 0.617,0.91(0.63-1.31) |
| Drinking | Yes | 0.346,1.27(0.77-2.11) | 0.883,1.15(0.18-7.37) | 0.350,1.33(0.73-2.42) | 0.355,1.32(0.74-2.36) | 0.944,1.07(0.17-6.80) | 0.396,1.26(0.74-2.12) |
|  | No | 0.421,0.86(0.60-1.24) | 0.581,1.33(0.48-3.68) | 0.103,0.69(0.44-1.08) | 0.76(0.50-1.16)0.204 | 0.447,1.48(0.54-4.04) | 0.465,0.88(0.63-1.24) |