**Supplementary Table S7**. Patient and clinical characteristics of TCGA dataset

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| *n* (%) | Total | Alive  | Dead with tumor | Dead tumor free | c2 | *P-*value |
|  |  | (n=902) | (n=719) | (n=120) | (n=63) |
| Age (years) | 　 | 　 | 　 | 　 | 0.863 | 0.388 |
| 　 | Mean (SD) | 65.9 (9.6) | 65.8 (9.3) | 65 (10) | 71 (8.3) | 　 | 　 |
| 　 | Median [MIN, MAX] | 67 [33,88] | 67 [33,88] | 67 [40,85] | 73 [53,85] | 　 | 　 |
| Gender | 　 | 　 | 　 | 　 | 3.808 | 0.149 |
| 　 | Male | 542 (60.1%) | 428 (59.5%) | 69 (57.5%) | 45 (71.4%) | 　 | 　 |
| 　 | Female | 360 (39.9%) | 291 (40.5%) | 51 (42.5%) | 18 (28.6%) | 　 | 　 |
| Stage\* | 　 | 　 | 　 | 　 | 50.630 | <0.001\*\*\* |
| 　 | Stage IA | 213 (23.9%) | 187 (21.0%) | 16 (1.8%) | 10 (1.1%) | 　 | 　 |
| 　 | Stage IB | 260 (29.2%) | 211 (23.7%) | 23 (2.6%) | 26 (2.9%) | 　 | 　 |
| 　 | Stage IIA | 111 (12.5%) | 94 (10.6%) | 10 (1.1%) | 7 (0.8%) | 　 | 　 |
| 　 | Stage IIB | 140 (15.7%) | 108 (12.1%) | 25 (2.8%) | 7 (0.8%) | 　 | 　 |
| 　 | Stage IIIA | 113 (12.7%) | 80 (9.0%) | 28 (3.1%) | 5 (0.6%) | 　 | 　 |
| 　 | Stage IIIB | 24 (2.7%) | 13 (1.5%) | 7 (0.8%) | 4 (0.4%) | 　 | 　 |
| 　 | Stage IV | 29 (3.3%) | 18 (2.0%) | 8 (0.9%) | 3 (0.3%) | 　 | 　 |

\*: significant.