**Supplementary S5.** The top 20 DNA repair genes related to prognosis

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene** | **p.value** | **HR** | **Low 95%CI** | **High 95%CI** |
| FANCG  | 0.000484  | 0.75668  | 0.64699  | 0.884968 |
| GTF2H4  | 0.00088  | 0.719155  | 0.592189 | 0.873343 |
| FANCI  | 0.001165  | 0.816309  | 0.722192  | 0.922693 |
| SMUG1  | 0.002221  | 0.75754  | 0.634069  | 0.905054 |
| TDP1  | 0.002722  | 0.741544  | 0.609851  | 0.901676 |
| SSBP1  | 0.004855  | 0.69958  | 0.545583  | 0.897045 |
| PALB2  | 0.005858  | 0.72312  | 0.574211  | 0.910644 |
| POLD2  | 0.006912  | 0.76929  | 0.635967 | 0.930563 |
| BLM  | 0.007262  | 0.818016  | 0.706432  | 0.947225 |
| FEN1  | 0.011141  | 0.800583  | 0.674248 | 0.950591 |
| DMC1  | 0.016831  | 0.456224  | 0.239731  | 0.868224 |
| JUNB  | 0.01718  | 1.15757  | 1.026308  | 1.305621 |
| POLE  | 0.018998  | 0.751938  | 0.592543  | 0.954211 |
| CHEK1  | 0.022643 | 0.854853  | 0.747012  | 0.978262 |
| FANCA  | 0.024984  | 0.540501  | 0.315624 | 0.9256 |
| XRCC2  | 0.026376  | 0.820616  | 0.689221  | 0.977061 |
| MUTYH  | 0.027438  | 0.816591  | 0.682018  | 0.977717 |
| RAD54L  | 0.027754  | 0.806424  | 0.665808  | 0.976736 |
| MCM6  | 0.028526  | 0.852763  | 0.739472  | 0.983411 |
| RECQL  | 0.032636  | 1.230636  | 1.017299  | 1.488712 |