**Table S1. Clinical characteristics of 50 HCC patients**

|  |  |  |
| --- | --- | --- |
| Clinical characteristic | ATOX1 | P |
| High expression | Low expression |
| **Gender** |  |  | 0.119232007 |
|  men | 18 | 21 |  |
|  women | 8 | 3 |  |
| **Age (years)** |  |  | 0.848263944 |
|  >50 | 20 | 19 |  |
|  ≤50 | 6 | 5 |  |
| **Tumor size (cm)** |  |  | 0.243403433 |
|  ≤5 | 8 | 4 |  |
|  >10 | 18 | 20 |  |
| **HBV infection** |  |  | 0.933475787 |
|  Yes | 24 | 22 |  |
|  No | 2 | 2 |  |
| **Serum AFP level (ng/mL)** |  |  | 0.554736688 |
|  <20 | 13 | 14 |  |
|  ≥20 | 13 | 10 |  |
| **With tumor thrombus** |  |  | 0.370425694 |
|  Yes | 3 | 5 |  |
|  No | 23 | 19 |  |
| **Edmondson–Steiner grading** |  |  | 0.99826 |
|  grade Ⅰ  | 1 | 1 |  |
|  grade Ⅱ | 13 | 12 |  |
| grade ⅠII& Ⅳ  | 12 | 11 |  |
| **TNM grade** |  |  | 0.4897 |
|  Ⅰ & Ⅱ | 22 | 18 |  |
|  Ⅲ & Ⅳ | 4 | 6 |  |