**Suppl 1. Clinicopathologic features of patients in Cohort 1**

|  |  |  |  |
| --- | --- | --- | --- |
| Characteristics | FBXO43 low(n=60) | FBXO43 high(n=60) | P value |
| Gender |  |  | 0.272 |
| male | 29 (24.2%) | 35 (29.2%) |  |
| female | 31 (25.8%) | 25 (20.8%) |  |
| Age (year) |  |  | 0.09 |
| <59 | 18 (15%) | 27 (22.5%) |  |
| ≥60 | 42 (35%) | 33 (27.5%) |  |
| Tumor size (cm) | 4.645 ± 1.9492 | 4.31 ± 1.5198 | 0.130 |
| <5 | 34 (28.3%) | 42 (35%) |  |
| ≥5 | 26 (21.7%) | 18 (15%) |  |
| Differentiation |  |  | 0.135 |
| poor | 8 (6.7%) | 2 (1.7%) |  |
|  moderate  | 38 (31.7%) | 41 (34.2%) |  |
| well | 14 (11.7%) | 17 (14.2%) |  |
| Vessel invasion |  |  | 0.591 |
| no | 51 (42.5%) | 53 (44.2%) |  |
| yes | 9 (7.5%) | 7 (5.8%) |  |
| Nerve invasion |  |  | 1.000 |
| no | 57 (47.5%) | 58 (48.3%) |  |
| yes | 3 (2.5%) | 2 (1.7%) |  |
| T stage |  |  | **0.013** |
| Ⅰ-Ⅱ | 22 (18.3%) | 10 (8.3%) |  |
| Ⅲ-Ⅳ | 38 (31.7%) | 50 (41.7%) |  |
| N stage |  |  | **0.028** |
| 0 | 37 (30.8%) | 25 (20.8%) |  |
| 1-2 | 23 (19.2%) | 35 (29.2%) |  |
| M stage |  |  | 0.476 |
| 0 | 60 (50%) | 58 (48.3%) |  |
| 1 | 0 (0%) | 2 (1.7%) |  |
| Pathological stage |  |  | **0.028** |
| Ⅰ-Ⅱ | 35 (29.2%) | 23 (19.2%) |  |
| Ⅲ-Ⅳ | 25 (20.8%) | 37 (30.8%) |  |