Supplementary Table 1 Patients information and sequencing statistics in GSE12984 dataset.

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| **ID** | **Hospital** | **Age/Sex** | **Ethnic** | **Histology** | **Smoker/Dringker** | **Height（cm）/Weight（kg）** | **Sample** | **Date** | **Sequencing Saturation(%)** | **Median. number of detected genes** | **Number of cells** | **Mean Reads per Cell** |
|
| P1 | The first affiliated hospital of Guangxi Medical University | 48/male | The Zhuang nationality | Mucinous adenocarcinoma of the umbilical canal (invasive bladder) | N/N | 174/83 | normal bladder | 2018.8.7 | 90.9 | 2,336 | 345 | 245,241 |
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| P2 | Affiliated tumor hospital of Guangxi Medical University | 35/female | The Han nationality | Highly invasive papillary urothelial carcinoma of the bladder | N/N | 157/50 | normal bladder | 2018.8.9 | 88.5 | 2,033 | 3,560 | 170,932 |
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| P3 | The first affiliated hospital of Guangxi Medical University | 47/male | The Zhuang nationality | Highly invasive papillary urothelial carcinoma of the bladder | Y/Y | 165/64 | normal bladder | 2018.4.17 | 71.2 | 1,396 | 9,590 | 34,578 |
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