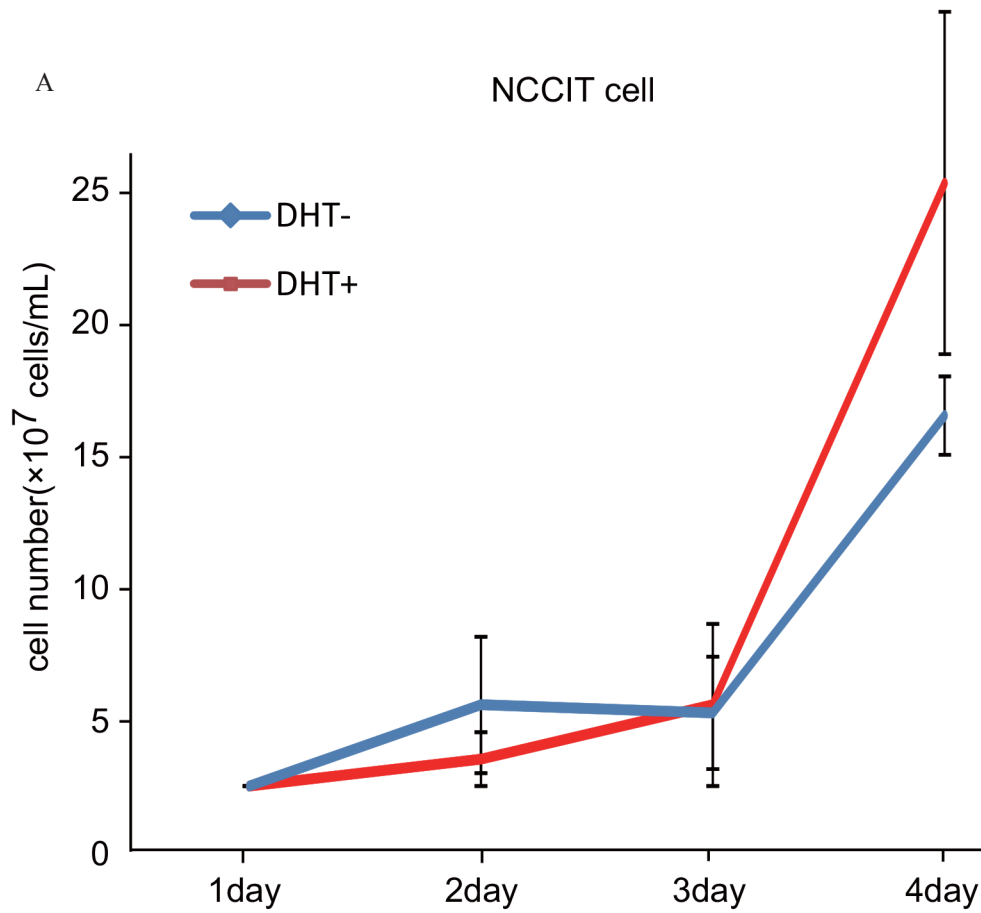


SUPPLEMENTARY FIGURE AND TABLES



Supplementary Figure S1: Cell proliferation was not suppressed by DHT treatment in NSE cells. A. NSE cells were cultured in EtOH or DHT containing medium.growthNumber of cells was counted by the naked eye.

Supplementary Table S1: Clinicopathological features of 6 seminoma patients

| sample-ID | histology | age | level of tumor markers | | | | stage |
|-----------|-----------|-----|------------------------|------|-----|-----|-------|
| | | | hCG | hCGb | LDH | AFP | |
| S-1 | seminoma | 29 | 8 | >0.1 | 183 | ND | I |
| S-2 | seminoma | 72 | >0.4 | >0.1 | 215 | 3.1 | I |
| S-3 | seminoma | 44 | >0.4 | >0.1 | 166 | 4.4 | I |
| S-4 | seminoma | 46 | 64 | 3.3 | 754 | 1.8 | IIB |
| S-5 | seminoma | 46 | <0.4 | 0.3 | 338 | 6.7 | IIA |
| S-6 | seminoma | 57 | <0.4 | <0.1 | 268 | 2.8 | IIA |

Supplementary Table S2: Microarray analysis of gene expression in SE samples and TCam-2 cells

| Probe Name | FC ([normal tissue] vs [cancer tissue]) | FC ([TCam-2 without DHT treatment] vs [TCam-2 with DHT treatment]) | Gene Symbol | Description |
|----------------|---|--|--------------|--|
| A_33_P3221059 | -4.9043984 | 2.1606202 | | |
| A_19_P00323034 | -4.716373 | 6.2507515 | | Homo sapiens, clone IMAGE:5528960, mRNA. [BC047326] |
| A_23_P150595 | -4.62728 | 2.058645 | TPH1 | Homo sapiens tryptophan hydroxylase 1 (TPH1), mRNA [NM_004179] |
| A_33_P3227706 | -4.2695093 | 2.463157 | OR2Z1 | Homo sapiens olfactory receptor, family 2, subfamily Z, member 1 (OR2Z1), mRNA [NM_001004699] |
| A_24_P236753 | -4.2422023 | 2.1813443 | DOC2B | Homo sapiens double C2-like domains, beta (DOC2B), mRNA [NM_003585] |
| A_23_P151598 | -4.0110717 | 2.134196 | CPNE6 | Homo sapiens copine VI (neuronal) (CPNE6), transcript variant 2, mRNA [NM_006032] |
| A_33_P3262083 | -3.7374272 | 2.055334 | LOC100126784 | Homo sapiens uncharacterized LOC100126784 (LOC100126784), long non-coding RNA [NR_015384] |
| A_21_P0007333 | -3.7079165 | 3.9919052 | | |
| A_19_P00322673 | -3.57439 | 2.299535 | | |
| A_21_P0005334 | -3.5739617 | 2.4692082 | | |
| A_21_P0002562 | -3.3141341 | 3.1461248 | | |
| A_33_P3358469 | -3.0831363 | 2.3644578 | GLI2 | Homo sapiens GLI family zinc finger 2 (GLI2), mRNA [NM_005270] |
| A_21_P0006021 | -2.888067 | 5.162127 | | |
| A_21_P0012123 | -2.8870552 | 2.394399 | LOC100505663 | PREDICTED: Homo sapiens uncharacterized LOC100505663 (LOC100505663), transcript variant X2, misc_RNA [XR_109600] |
| A_21_P0008582 | -2.655965 | 2.1198006 | | |
| A_33_P3383561 | -2.638577 | 2.0946505 | POLR2F | polymerase (RNA) II (DNA directed) polypeptide F [Source:HGNC Symbol;Acc:9193] [ENST00000443002] |
| A_21_P0012973 | -2.4357421 | 6.7362804 | | AGENCOURT_13890273 NIH_MGC_147 Homo sapiens cDNA clone IMAGE:30346469 5', mRNA sequence [CD110012] |
| A_33_P3282733 | -2.3486636 | 2.3506603 | LOC100131395 | PREDICTED: Homo sapiens uncharacterized LOC100131395 (LOC100131395), misc_RNA [XR_110093] |
| A_33_P3403102 | -2.2755005 | 3.519007 | PRR18 | Homo sapiens proline rich 18 (PRR18), mRNA [NM_175922] |

This table shows 19 genes, which increased in SE tumor samples and decreased by DHT treatment in TCam-2 cells.

Supplementary Table S3: Microarray analysis of gene expression in SE samples. The genes, which showed increase in tumor tissues compared to in normal tissues, are showed in this table.

See Supplementary File 1