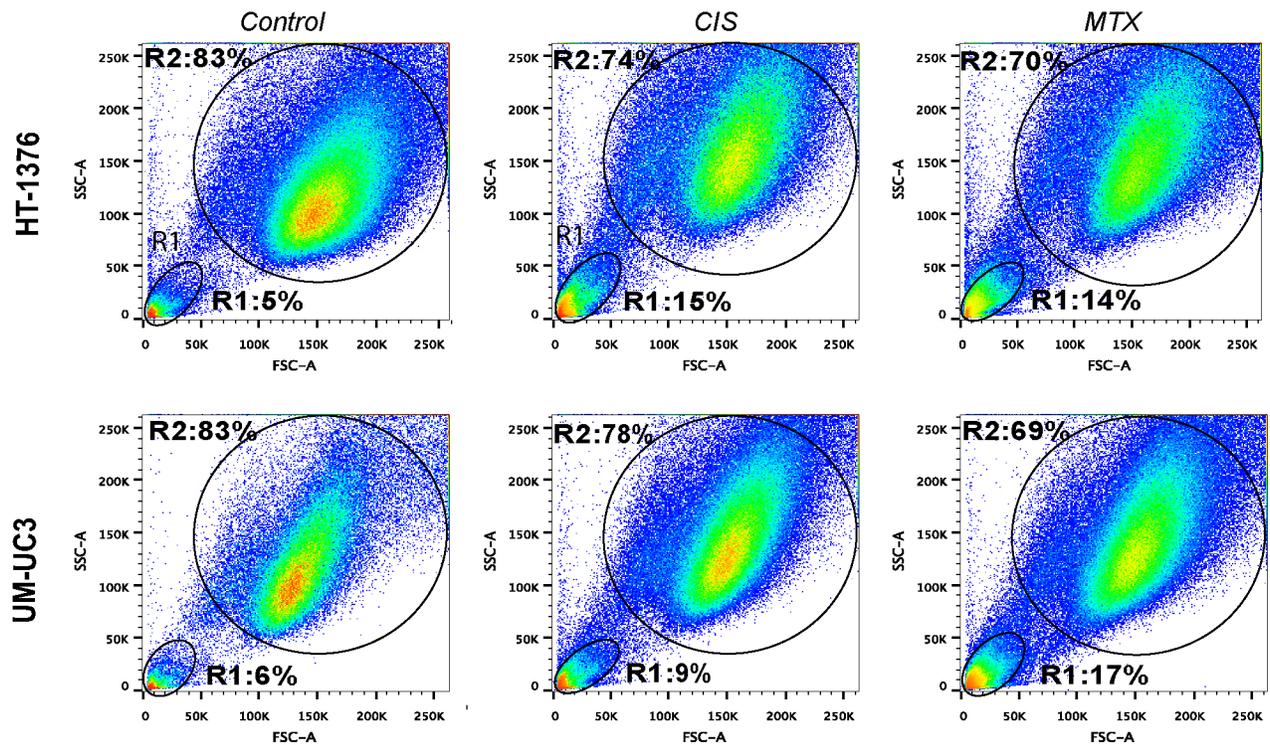
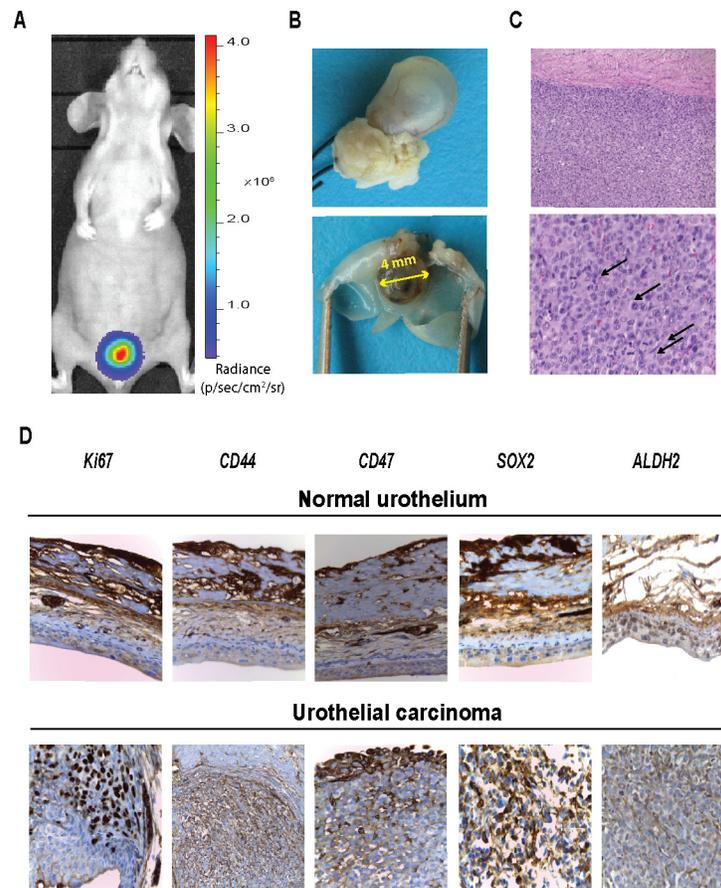


## SUPPLEMENTARY FIGURES AND TABLE



**Supplementary Figure S1: Short-term chemotherapy has minimal effects on tumor cells viability.** Representative flow cytometry dot plots of BC cells upon short-term single exposure to chemotherapy. Cells were treated with 10  $\mu$ M CIS or 10  $\mu$ M MTX for 24 hours and then subjected to flow cytometry analysis. R1 represents the percentage of dead cells and R2 the percentage of viable cells of the whole-cell population.



**Supplementary Figure S2: Bladder cancer induced by orthotopic inoculation of adherent HT-1376 cells.** **A.** Representative BLI image of a mouse that was inoculated intravesically with  $4 \times 10^6$  adherent HT-1376 cells at 5 weeks. **B.** Macroscopic examination of a papillary tumor protruding into the bladder lumen on day 40. **C.** Representative H&E-stained ( $\times 200$ ) and high mitotic count ( $\times 400$ ). **D.** Immunohistochemical staining for Ki67, CD44, CD47, SOX2 and ALDH2 in serial sections of normal urothelium (upper row) and in the orthotopic tumor (lower row). Original magnification:  $\times 400$ .

**Supplementary Table S1: Primer sequences used in real-time RT-qPCR analysis**

Gene	Primer	Primer Sequence/ENSEMBL Gene ID
ALDH1A1	Forward	5'-TGGCTTATCAGCAGGAGTGT-3'
ALDH1A1	Reverse	5'-GCAATTCACCCACACTGTTTC-3'
ALDH2	Forward	5'-CGAGGTCTTCTGCAACCAG-3'
ALDH2	Reverse	5'-GCCTTGTCCACATCTTCCTT-3'
ALDH7A1	Forward	5'-CAACGAGCCAATAGCAAGAG-3'
ALDH7A1	Reverse	5'-GCATCGCCAATCTGTCTTAC-3'
SOX2	Forward	5'-CATGCACCGCTACGACG-3'
SOX2	Reverse	5'-CGGACTTGACCACCGAAC-3'
NANOG	Forward	5'-GATGCCTCACACGGAGACTG-3'
NANOG	Reverse	5'-GCAGAAGTGGGTTGTTTGCC-3'
POU5F1	Forward	5'-TCTGCATCCCTTGGATGTGC-3'
POU5F1	Reverse	5'-GTGTGGCCCCAAGGAATAGT-3'
ABCB1	Forward	5'-GAGGAAGACATCACCAGGTATGC-3'
ABCB1	Reverse	5'-GCCAGGCACCAAATGAAACC-3'
ABCG2	Forward	5'-TCAGCGGATACTACAGAGTGCATC-3'
ABCG2	Reverse	5'-ATCTGCCTTTGGCTTCAATCCTAA-3'
HPRT-1	Forward	5'-TGACACTGGCAAAACAATG-3'
HPRT-1	Reverse	5'-GGCTTATATCCAACACTTCG-3'
18S	Forward	5'-GAAGATATGCTCATGTGGTGTG-3'
18S	Reverse	5'-CTTGTACTGGCGTGGATTCTG-3'
GAPDH	Forward	5'-ACAGTCAGCCGCATCTTC-3'
GAPDH	Reverse	5'-GCCCAATACGACCAAATCC-3'
CD44		ENST00000278385
CD47		ENST00000398257
KRT14		ENST00000167586

All Cycle threshold (Ct) values of the analyzed genes were normalized to the housekeeping genes, *i.e.*, HPRT-1, 18S and GAPDH.