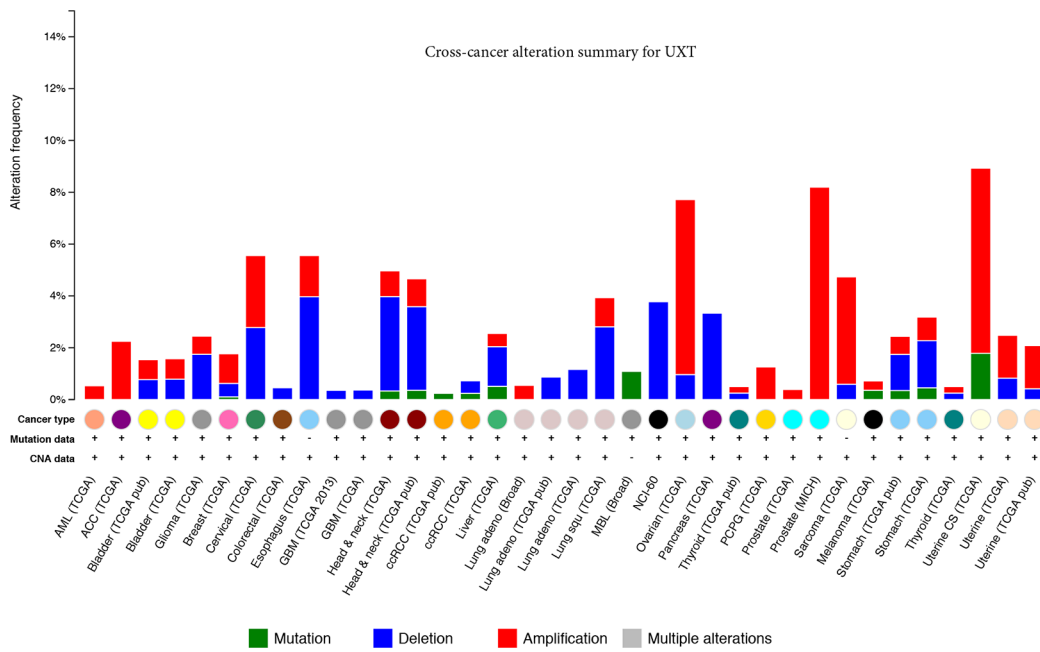
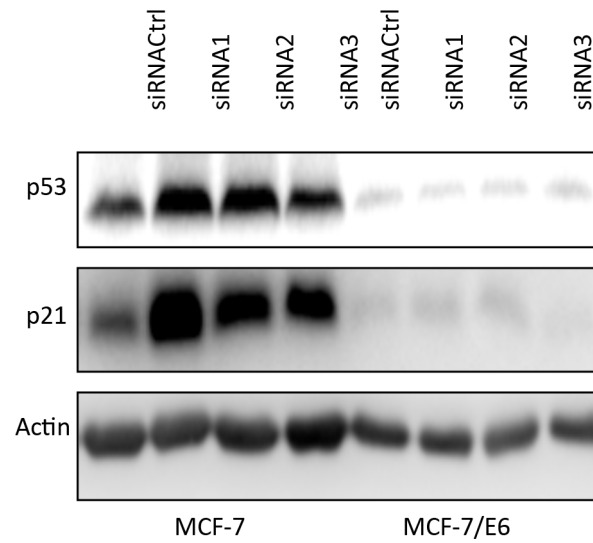


SUPPLEMENTARY FIGURE LEGENDS



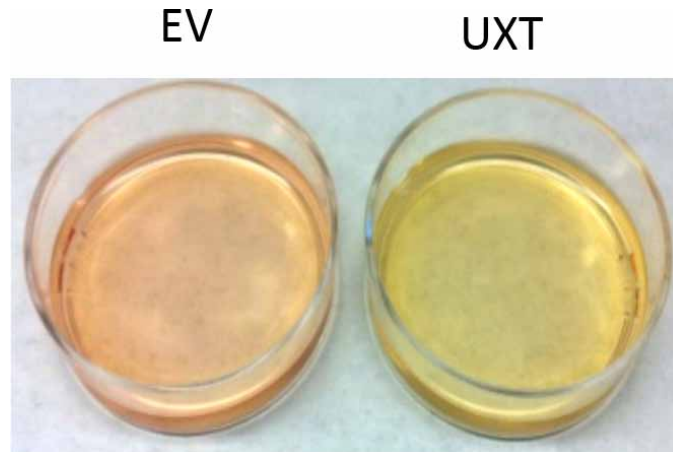
Supplementary Figure S1: Cross-cancer alteration of the *UXT* gene. The information was derived from cBioPortal Cancer Genomics database.



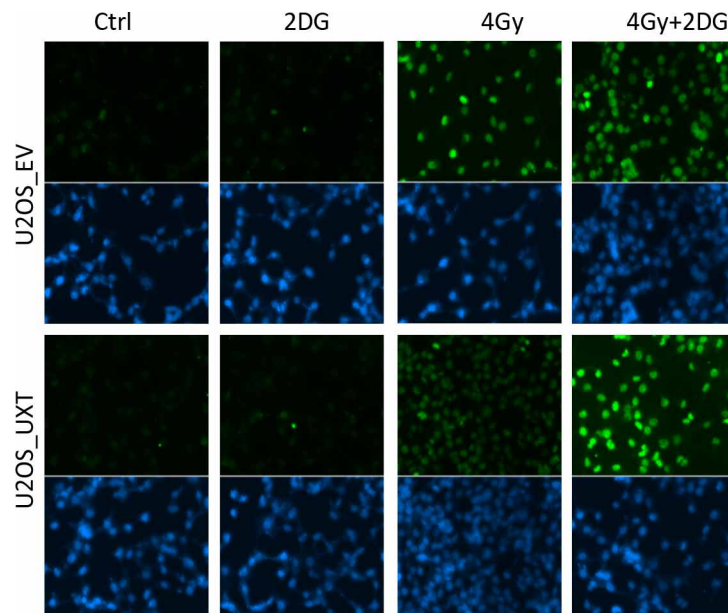
Supplementary Figure S2: UXT downregulation resulted in p53-dependent p21 induction. MCF-7 cells or MCF-7/E6 expressing cells were transfected with either siRNACtrl or 3 independent siRNA_{UXT} sequences. The cells were harvested 48 h after transfection and analyzed by Western with the indicated antibodies.



Supplementary Figure S3: Balb C nude mice were subcutaneously implanted with 2×10^6 U2OS_{EV} or U2OS_{UXT} cells. The tumors were harvested and their images were shown.



Supplementary Figure S4: U2OS_UXT cells produces more acidic metabolites. The images of culture dishes of U2OS_EV or U2OS_UXT cells were taken 24 h after replating.



Supplementary Figure S5: A critical role of glycolysis in modulation of radiation sensitivity of U2OS_UXT cells. U2OS_EV or U2OS_UXT cells were pre-treated with vehicle or 2-DG (2 mM) for 6 h followed by irradiation at a dose of 4Gy. The cells were fixed 1 h after irradiation and stained with gH2AX. Representative images were shown.