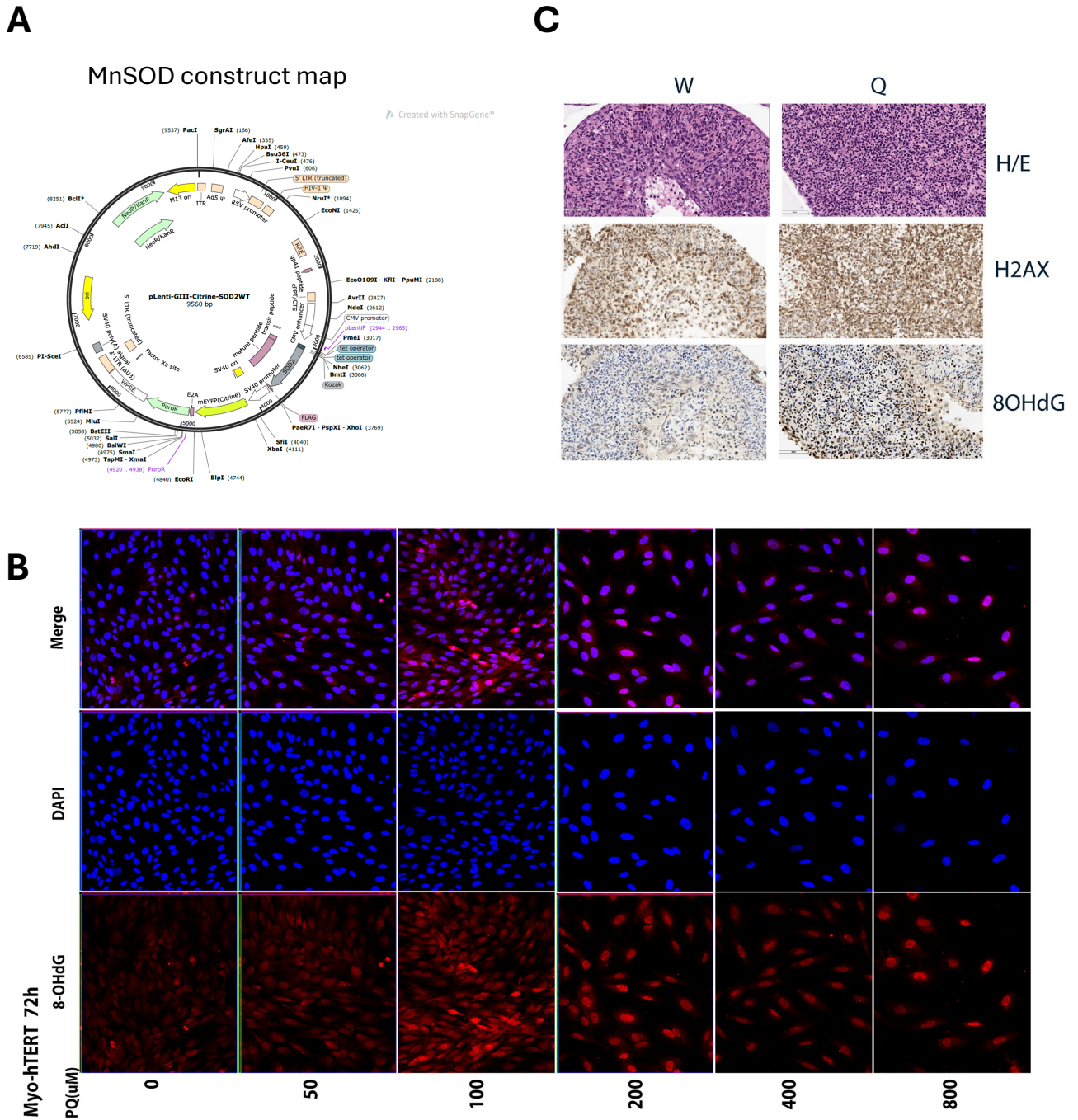
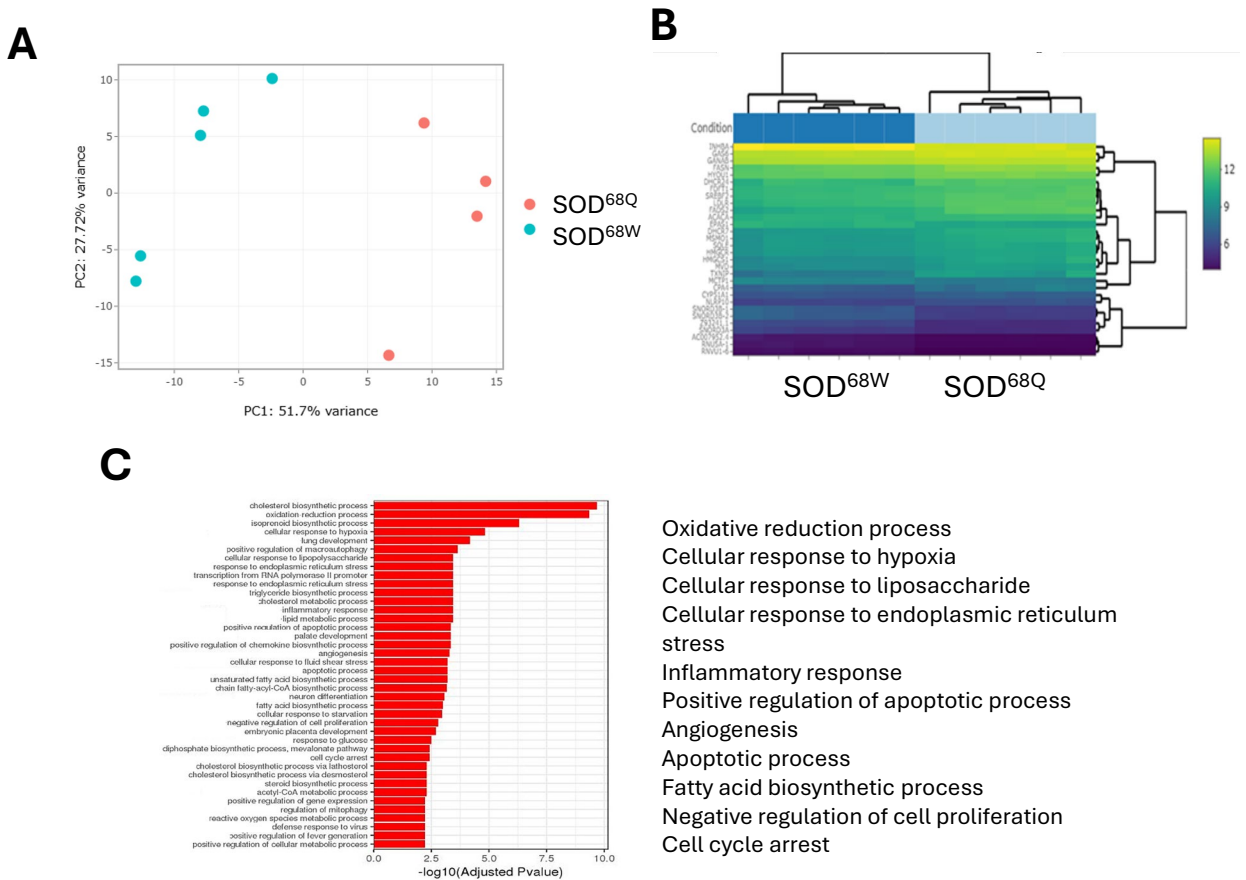


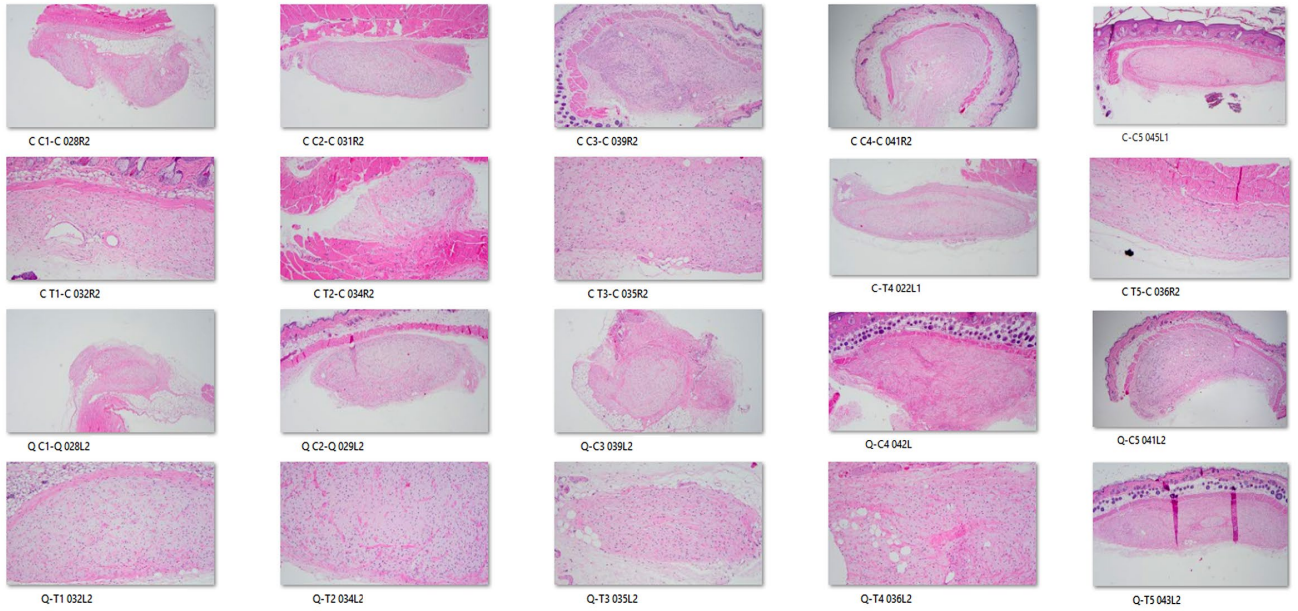


Suppl Fig S1 **A.** MnSOD Construction map with site 68 mutation. **B.** Dark field images of 8OHdG intensity in myo-hTERT cells treated with different paraquat concentration. **C.** Photomicrographs of MnSOD^{68K} (W) and MnSOD^{68Q} (Q) myo-hTERT cell line spheroids in H/E-stained slide and immunohistochemistry of H2AX and 8OHdG.

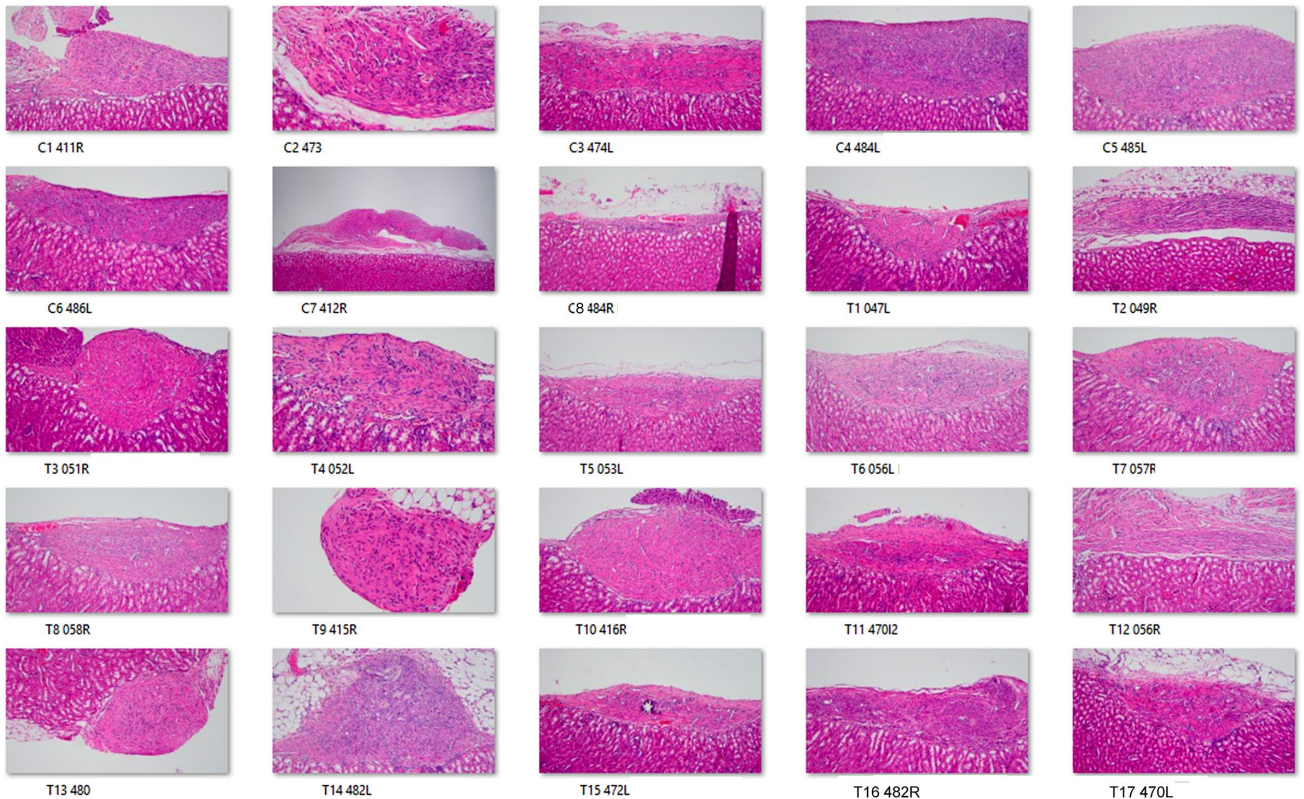


Suppl Fig S2 **A.** PCA cluster analysis of RNA signatures in MnSO^{68K} and MnSO^{68Q} myo-hTERT cell lines with PQ treatment. **B.** Heat map of top ranking DEG in MnSO^{68K} and MnSO^{68Q} myo-hTERT cell lines with PQ treatment. **C.** Pathway analysis illustrated the major activated pathways in MnSO^{68Q} myo-hTERT cell line with PQ treatment. The hallmark theme summary was listed on right.

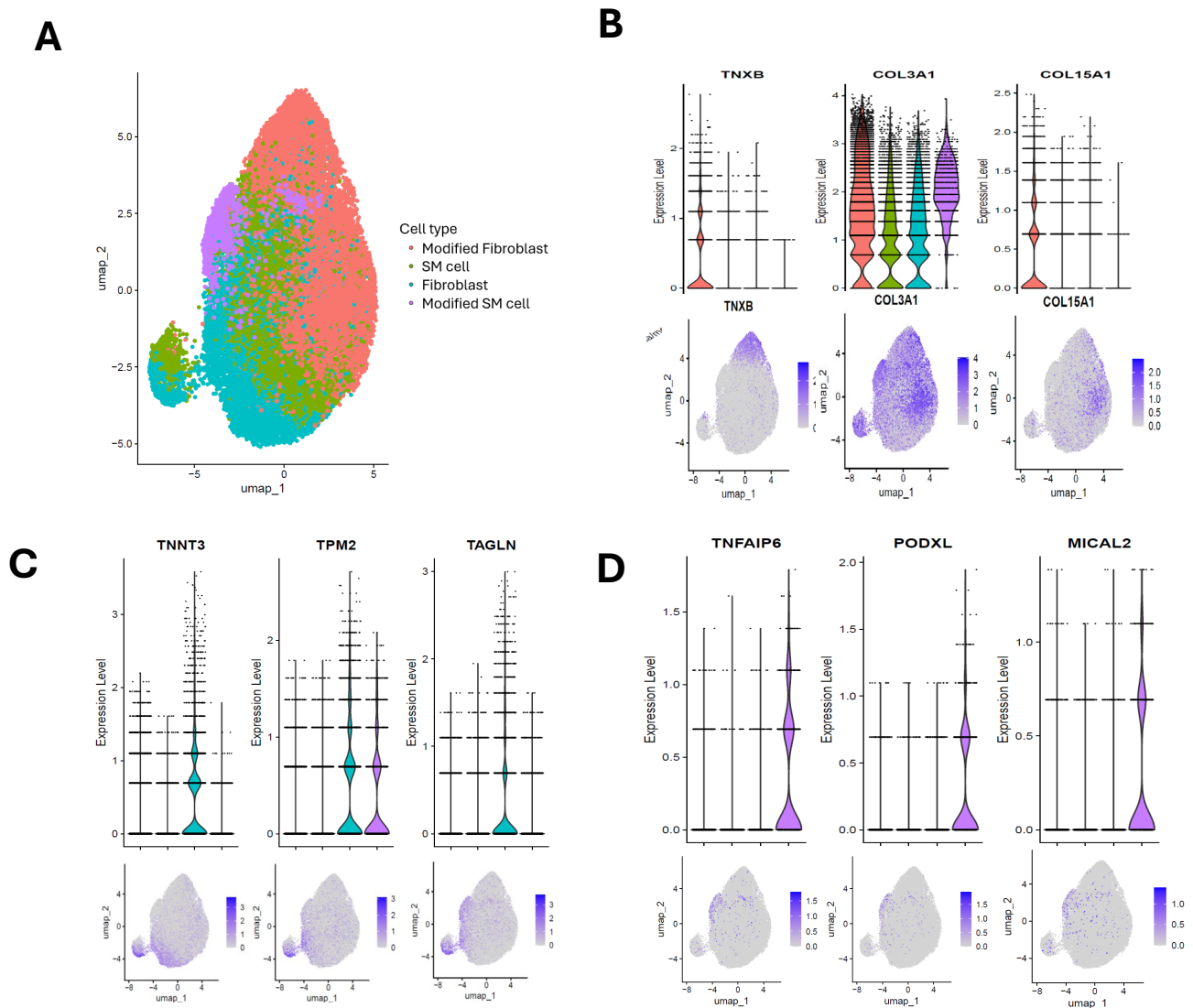
A



B



Suppl Fig S3 **A.** Photomicrographs illustrated myo-hTERT cell line xenografts in subcutaneous location. **B.** Photomicrographs illustrated primary myometrial xenografts in renal capsule.



Suppl Fig S4 **A.** UMAP illustrated the graphic clusters of 4 cell types detected by cell specific RNA signature from myo-hTERT xenografts. **B-D.** The selected top-ranking genes in fibroblast (B), smooth muscle (C) and modified fibroblast (D) cells.

S Fig. 5

