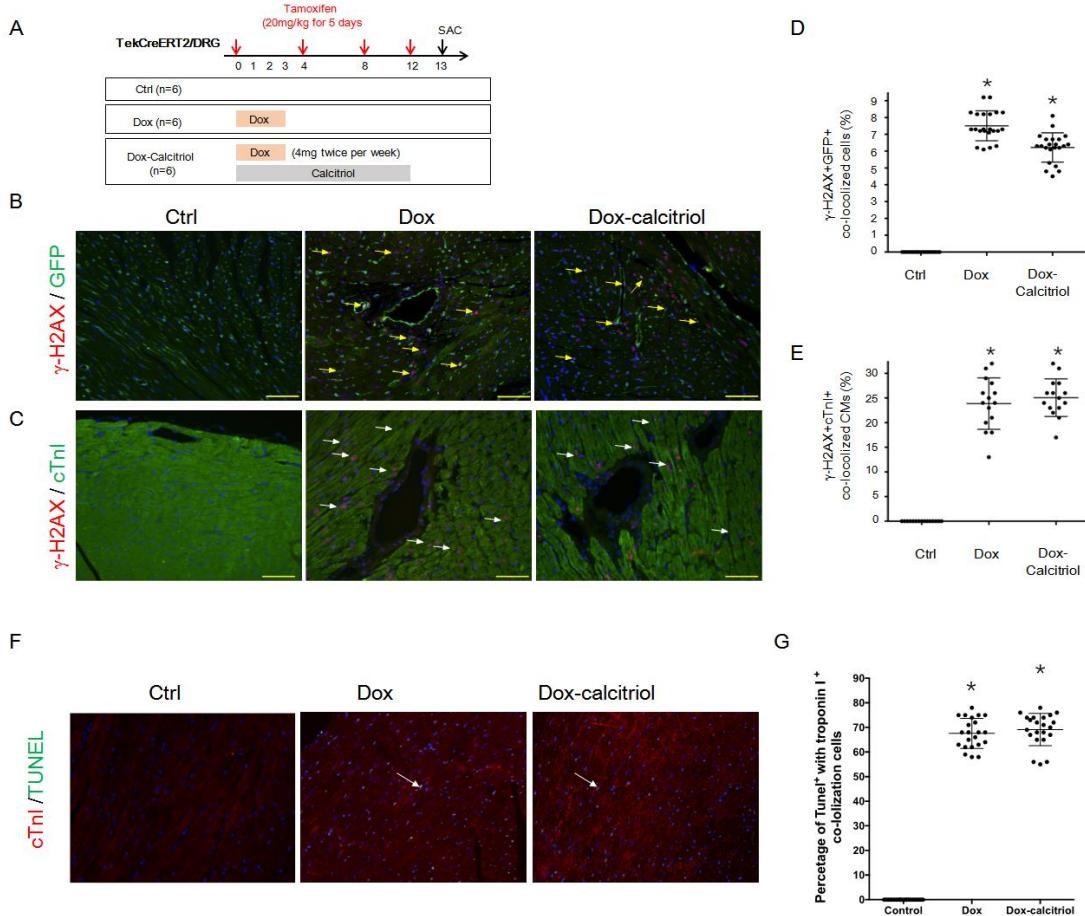


Supplemental Table S1. Primers used in this study

Gene name	Primer sequences
ANP	F: 5'- TGGGTCTTGTAGGGCTCAAACCT -3' R: 5'- TGAAACTCAAGGGACACCCATCGT -3'
BNP	F: 5'-CTGCTGGAGCTGATAAGAGA-3' R: 5'-TGCCCCAAAGCAGCTTGAGAT-3'
Vimentin	F: 5'-GCAAAGATTCCACTTGCCT-3' R: 5'-GAAATTGCAGGAGGAGATGC-3'
Fibronectin	F: 5'- ACCGAAGCCGGGAAGAGCAA -3' R: 5'- GGTCCGTTCCCCTGCTGATTATC-3'
TGF-beta1	F: 5'- CGGAAGCGCATCGAACGCCATCC -3' R: 5'- GCAAGCGCAGCTCTGCACGG-3'
Beta-actin	F: 5'-CCAACCGCGAGAAGATGA-3' R: 5'-CCAGAGGCGTACAGGGATAG-3'



Supplemental Figure S1. Calcitriol did not alter doxorubicin-induced DNA damage in endothelial cells and cardiac myocytes. (A) Schematic protocol for Dox-induced cardiomyocytes in double transgenic mice. The TekCreERT2/DRG mice were divided into 3 groups (n=6, in each group). Group 1 (sham control) received same volume of saline injection, group 2 received doxorubicin (4 mg/kg twice weekly for 4 weeks; cumulative dose-32 mg/kg) and group 3 received doxorubicin (same dose as group 2) with calcitriol (150 ng/kg/day for 12 weeks). Before the doxorubicin injection, the mice were administered tamoxifen (20 mg/kg) for 5 consecutive days monthly. The mice were sacrificed at 4 weeks (n=3 in each group) and 13 weeks (n=3 in each group) after the first dose of doxorubicin injection. (B) Representative images of double immunofluorescence staining for $\gamma\text{-H2AX}$ (red) and GFP (green). The yellow arrow heads indicate positive $\gamma\text{-H2AX}$ and GFP co-localized cells. Data are expressed as mean \pm SEM, and n represents the number of animals. * p < 0.05, ** p < 0.01 (n = 3, in each group), [5 high power field (HPFs) per mouse, 15 HPFs total]. Scale bar: 200 mm. (Upper panel, (C) Representative images of double immunofluorescence staining for $\gamma\text{-H2AX}$ (red) and cardiac Troponin I (cTnI) (green). The white arrow heads indicate positive $\gamma\text{-H2AX}$ and Troponin I co-localized cells. Scale bar: 200 mm. (D) Quantification of the percentage of $\gamma\text{-H2AX+GFP+}$ co-localized cells. Data are expressed as mean \pm SEM, and n represents the number of animals. * P < 0.05 (n = 3 in each group), [5 high power field (HPFs) per mouse, 15 HPFs total]. (E) Quantification of the percentage of $\gamma\text{-H2AX+GFP+}$ co-localized cells. (F) Representative images of double immunofluorescence staining for TUNEL (green) and cardiac Troponin I (cTnI) (red). The white arrow heads indicate positive TUNEL and Troponin I co-localized cells. (G) Quantification of the percentage of TUNEL and Troponin I co-localized cells. Data are expressed as mean \pm SEM, and n represents the number of animals. * P < 0.05 (n = 3 in each group), [5 high power field (HPFs) per mouse, 15 HPFs total].