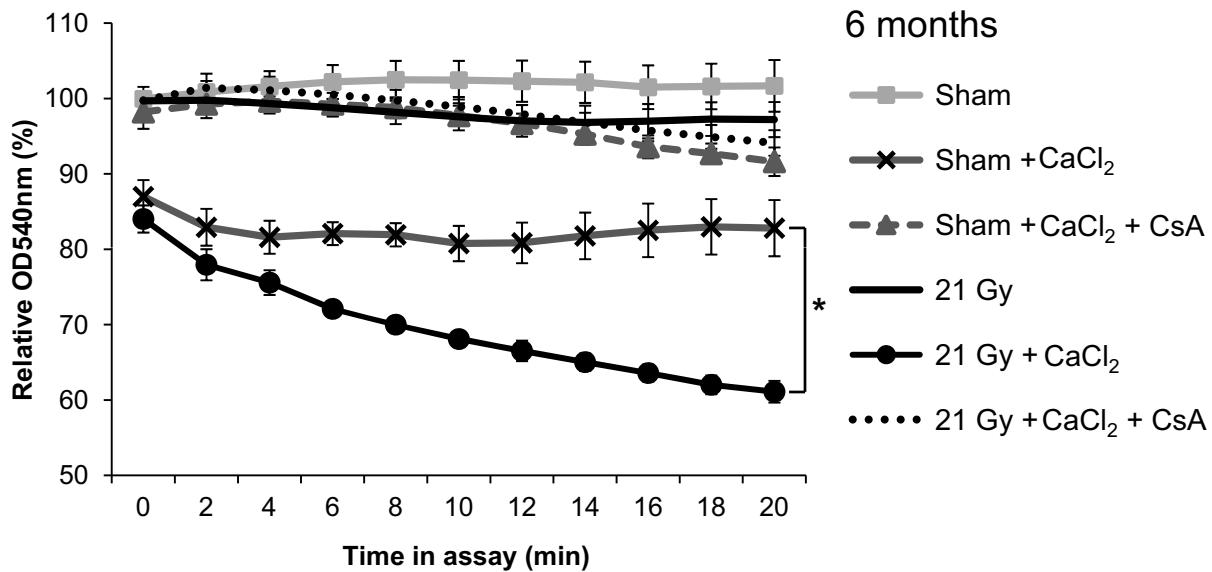
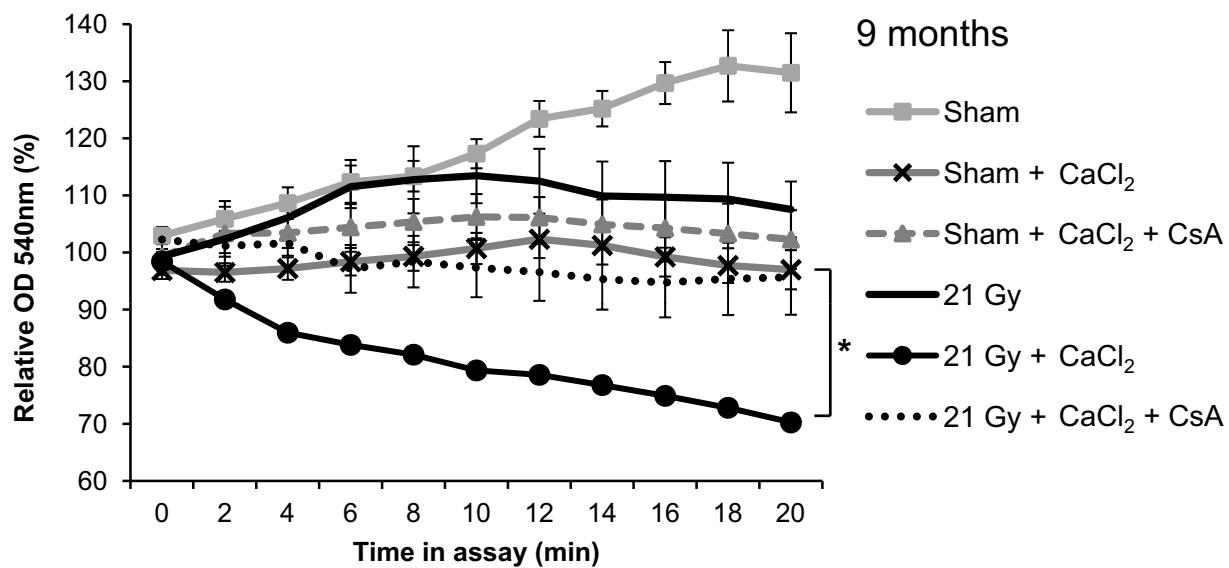


Supplementary Figure 1.

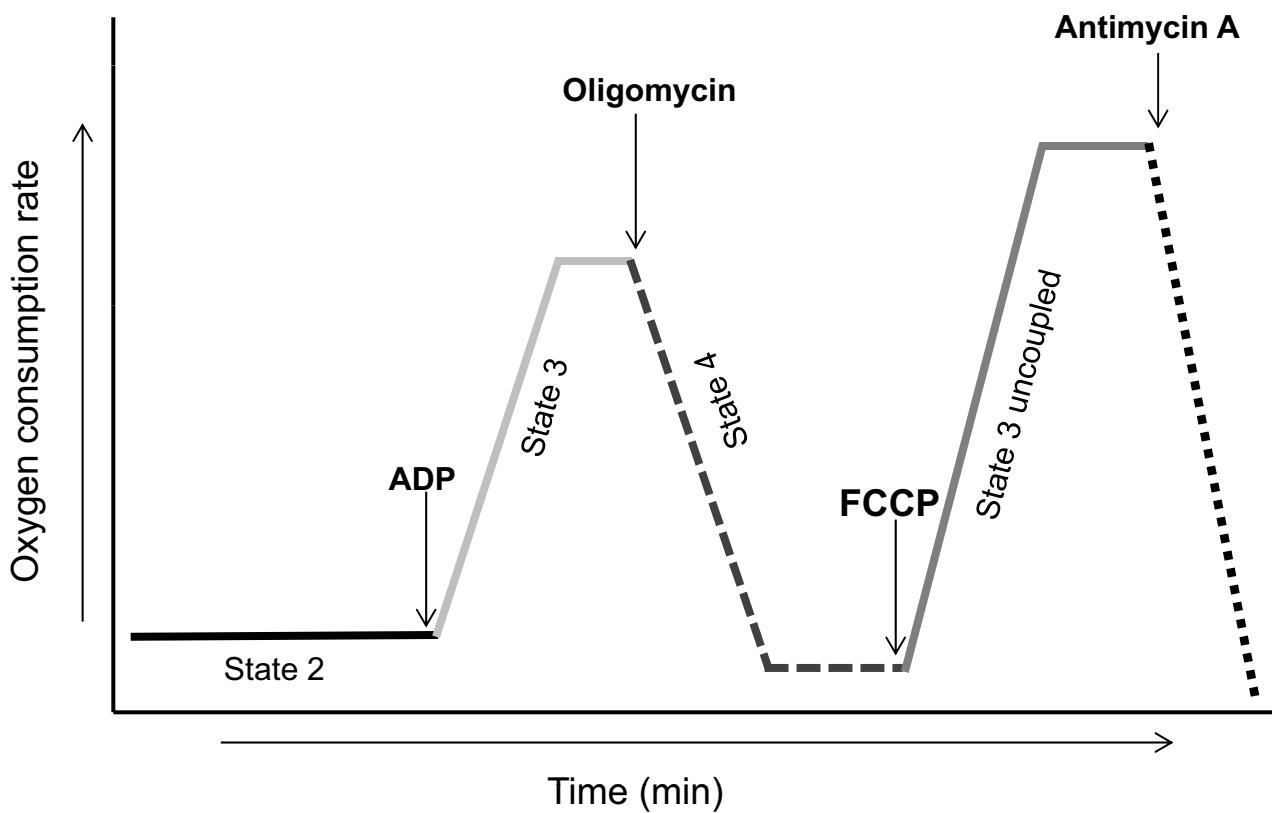
C



D

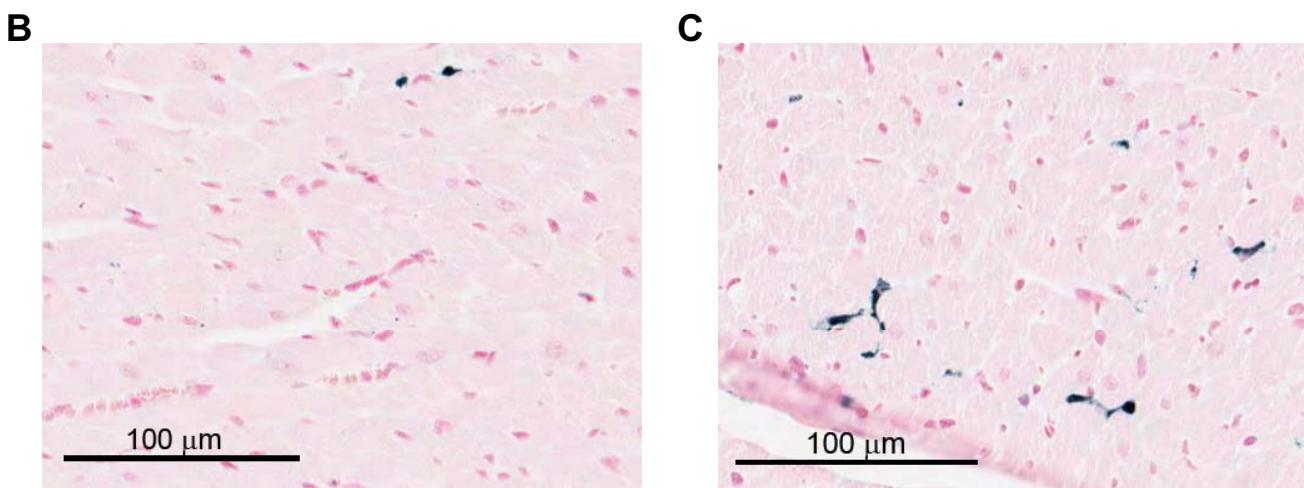
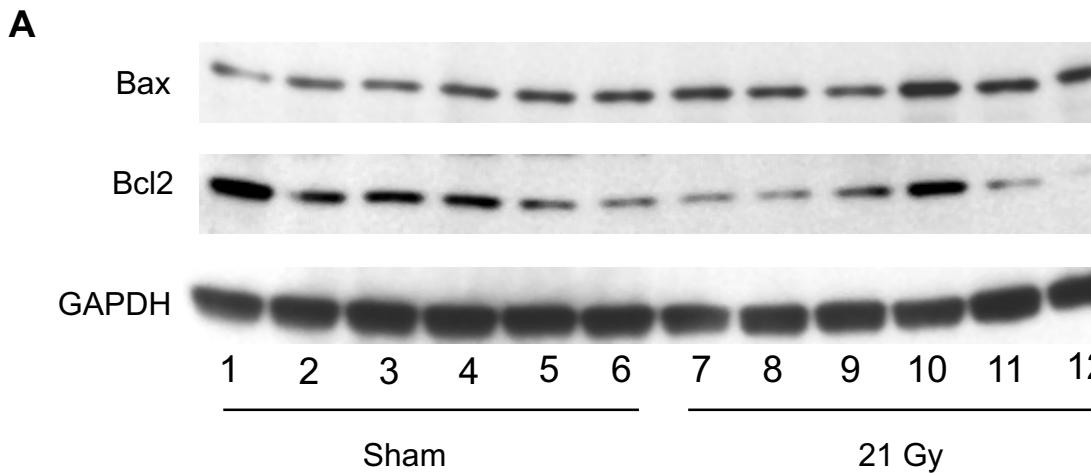


Supplementary Figure 2.



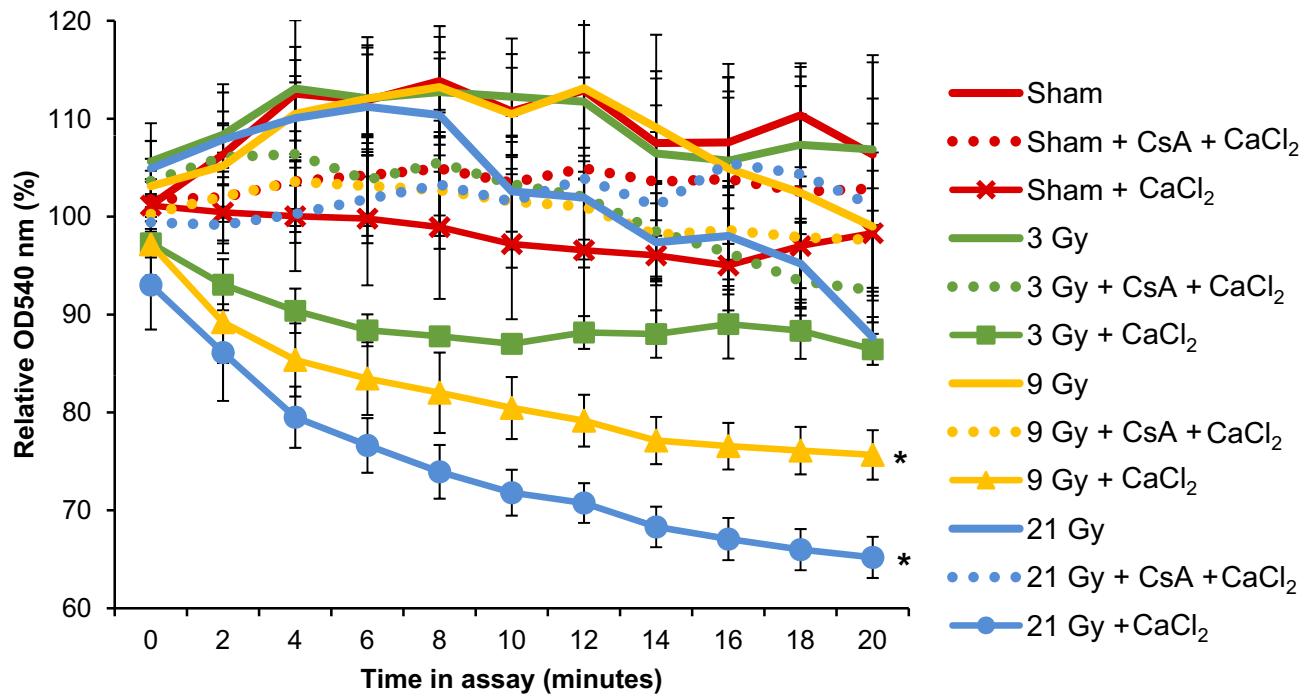
Supplementary Figure 2. Diagram of the measurements of oxygen consumption at state 2, state 3, and state 4 respiration.

Supplementary Figure 3.



Supplementary Figure 3. A) Representative immunoblot showing protein levels of Bax and Bcl2 in left ventricular lysates at 6 months after sham-irradiation (lanes 1 through 6) or local heart irradiation (lanes 7 through 12); B) Representative CardioTACS™ staining at 2 weeks after sham-irradiation, 20X magnification, and C) Representative CardioTACS™ staining at 2 weeks after local heart irradiation with 21 Gy, 20X magnification. Apoptotic nuclei are stained blue.

Supplementary Figure 4.



Supplementary Figure 4. Dose-dependent effect of radiation on the susceptibility of mPTP opening in mitochondria isolated from left ventricular samples at 2 weeks after local heart irradiation with a single dose of 3 Gy, 9 Gy, or 21 Gy. Average \pm sem, n=4. *p<0.05 when compared to sham-irradiated control.