

Figure S1. The plasmid DNA containing the transgene was used in dilutions corresponding to a transgene copy number as indicated. F0 #10, F0 #26: family number 10 and 26.

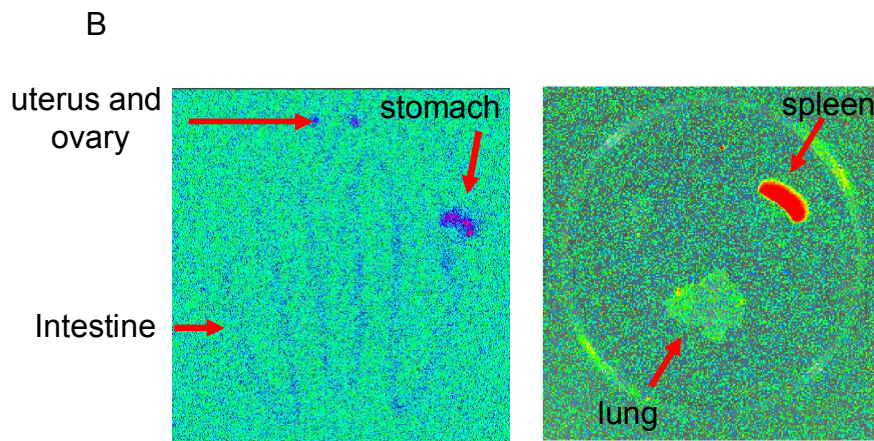
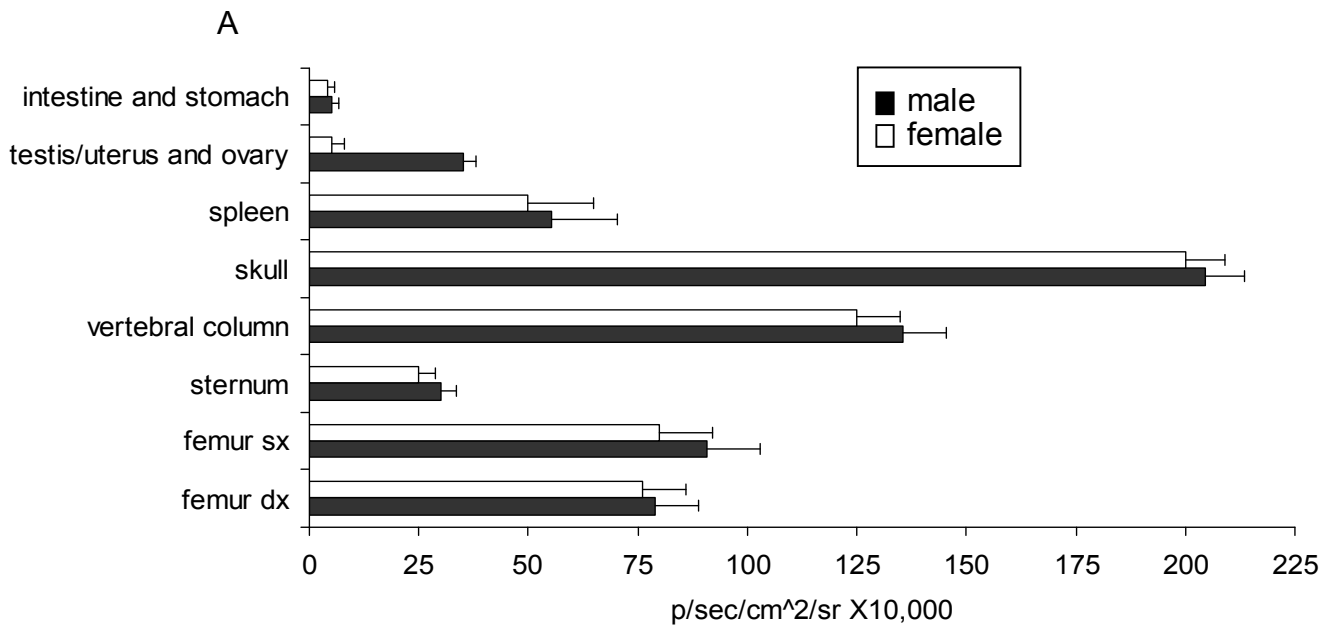


Figure S2. Quantification of emitted light from Mito-Luc mouse organs.

A) Photon emission from the femurs, sternum, vertebral column, skull and spleen measured as photons per second (p/s). Each bar represents the mean value of 31 and 37 animals for males and females respectively. (B) *ex vivo* BLI of selected organs. The images have been collected on 5 animals for each gender.

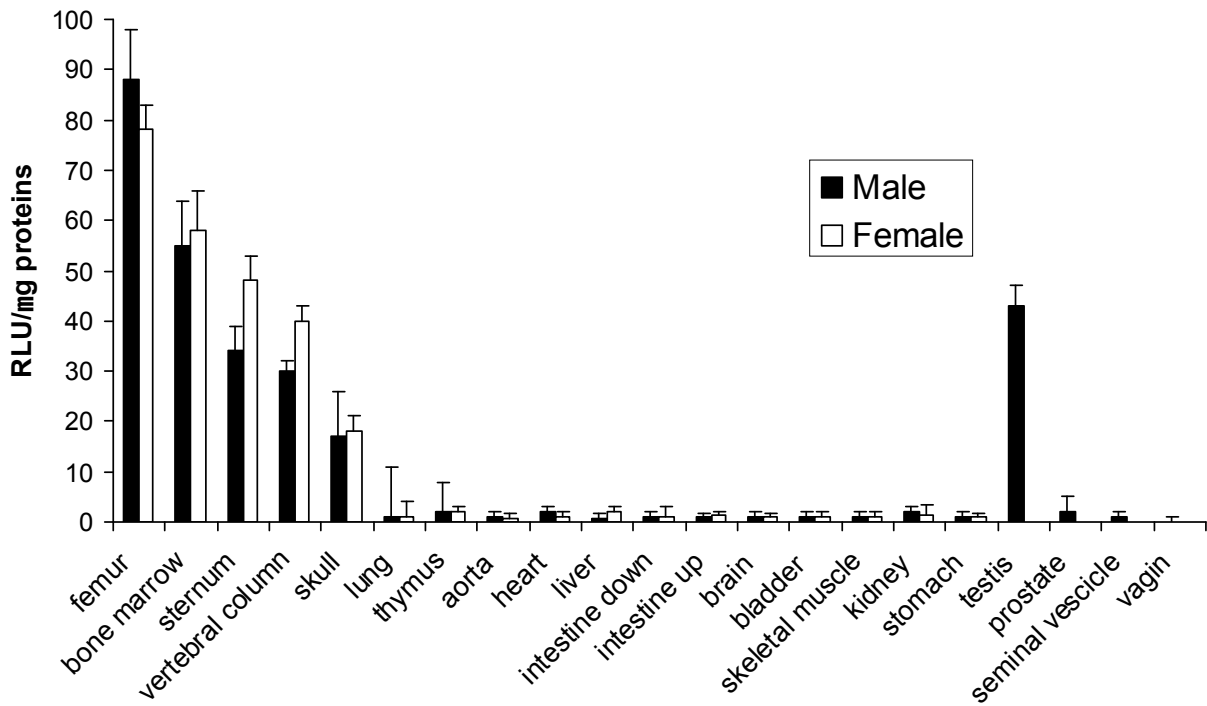


Figure S3. *in vitro* luciferase activity in MITO-Luc mouse tissues both in male and female. Bar femur: luciferase activity present in extracts from bone and bone marrow contained in it. Bar bone marrow: luciferase activity present in extracts from bone marrow isolated from femur. Each bar represents the mean value \pm s.e.m. of 15 animals.

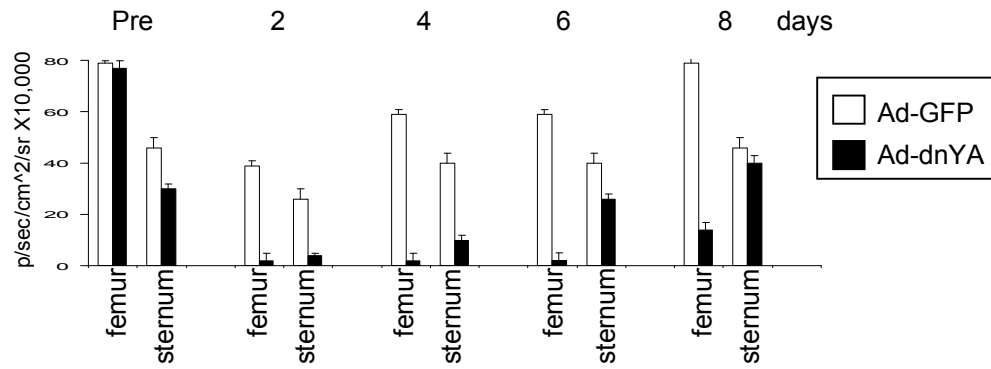


Figure S4. Femur and sternum photon emission measured as photons per second before (pre) and after (2, 4, 6, 8 days) injection of an adenovirus vector expressing GFP (AdGFP) (control) or a dominant negative NF-YA protein (Ad-dnYA). Each bar represents the mean value \pm s.e.m. of 9 animals per group.

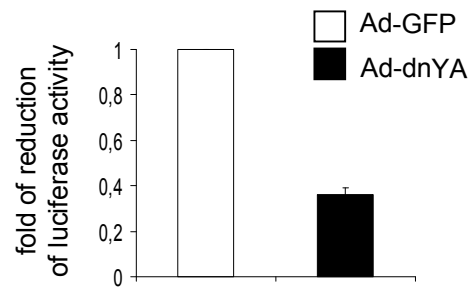


Figure S5. Luciferase activity in MITO-Luc embryo fibroblasts.

MITO-Luc embryo fibroblasts have been infected with Ad-dnYA and, as control, Ad-GFP. The decrease of luciferase activity is shown as fold reduction. The error bars indicate the deviation of the mean of two experiments performed in triplicate.

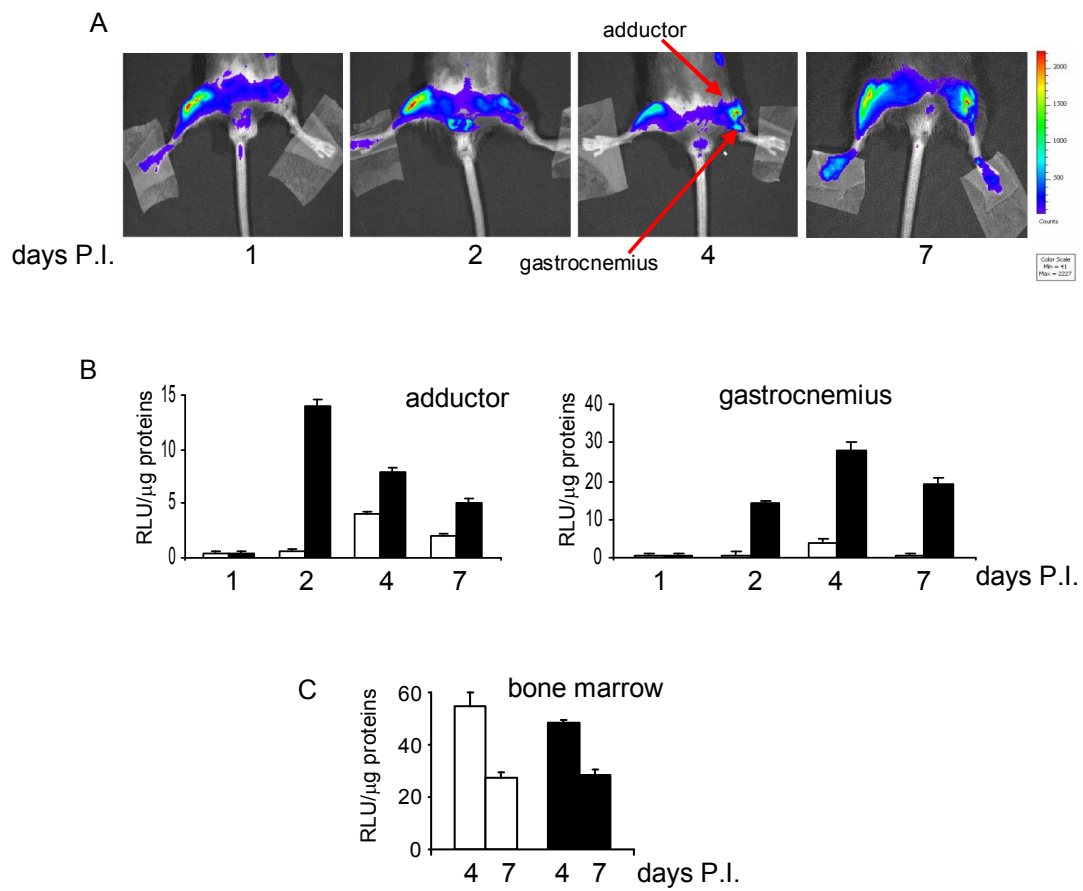


Figure S6. (A) MITO-Luc mouse imaged at the indicated days post ischemia (P.I.). In vitro luciferase activity in adductor or gastrocnemius (B) and in bone marrow (C) extracts from MITO-Luc mice at indicated days P.I. White and black bars: healthy and ischemic limbs.

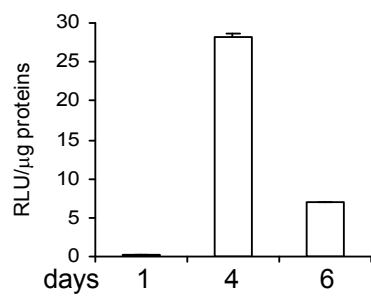


Figure S7. Luciferase activity increases in liver extracts from MITO-Luc mice after CCl₄-induced damage.

Luciferase activity in liver extracts was measured 1, 4 and 6 days after the liver damage and is shown as relative light units RLU/μg protein. Each bar represents the mean value \pm s.e.m. of 3 animals.