Landes Bioscience www.landesbioscience.com

Supplemental Material to:

Linda M. Stephenson, Brian C. Miller, Aylwin Ng, Jason Eisenberg, Zijiang Zhao, Ken Cadwell, Daniel B. Graham, Noboru N. Mizushima, Ramnik Xavier, Herbert W. Virgin, Wojciech Swat

Identification of *Atg5*-dependent transcriptional changes and increases in mitochondrial mass in *Atg5*-deficient T lymphocytes

Autophagy 2009; 5(5)
http://dx.doi.org/10.4161/auto.5.5.8133

www.landesbioscience.com/journals/autophagy/article/8133

Figure S1

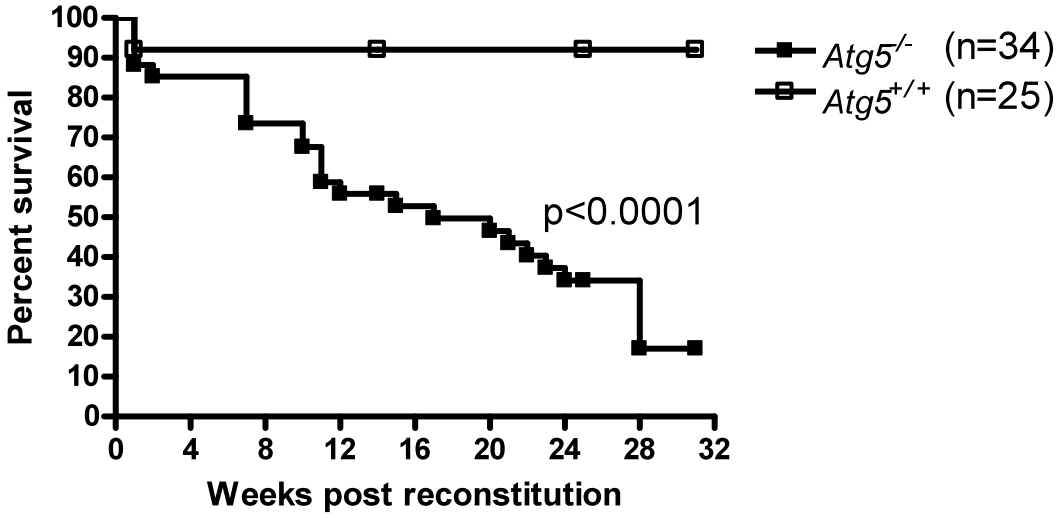
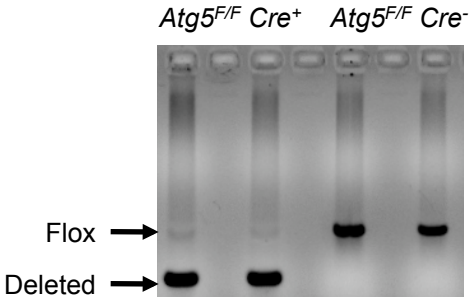
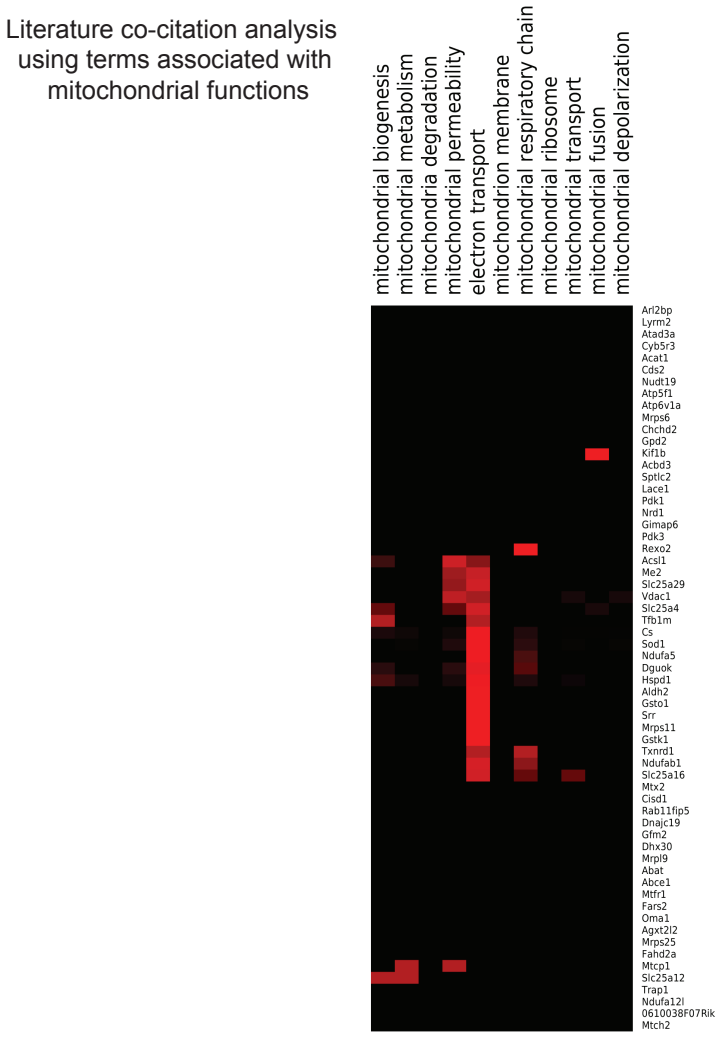


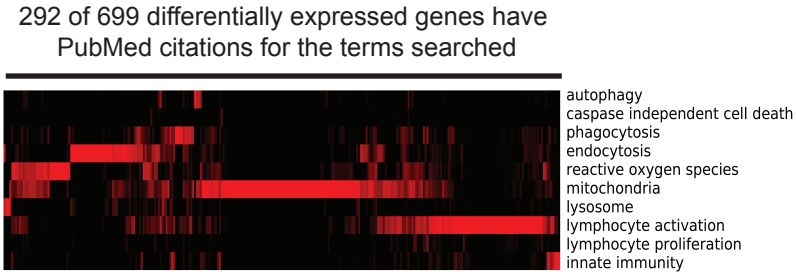
Figure S2



A



B



Supplementary Figure 3

Supplemental Figure 1. *Atg5*$^{-/-}$ chimeras have decreased survival compared with *Atg5*$^{+/+}$ chimeras. The survival of Atg5 chimeric mice was recorded up to 31 weeks post-irradiation and stem cell reconstitution. The p value between the *Atg5*$^{-/-}$ and *Atg5*$^{+/+}$ survival curves is shown. Data pooled from 4 independently generated batches of reconstituted chimeras.

Supplemental Figure 2. Recombination of the *Atg5*^{flox} allele in *Atg5*$^{F/F}$ *Cre*$^{+}$ thymocytes. PCR analysis performed on DNA isolated from thymocyte of *Atg5*$^{F/F}$ *Cre*$^{+}$ and *Atg5*$^{F/F}$ *Cre*$^{-}$ mice to determine recombination of the *Atg5*^{flox} locus. Two mice are shown of each genotype. Representative gel from 4 independent experiments.

Supplemental Figure 3. Matrices generated from literature co-citation analysis of differentially expressed genes and citation terms associated with mitochondrial and cellular functions. (A) Mitochondrial functions and (B) general cellular processes or specific T-lineage immune functions, displayed as a heatmap. The intensity of red on the heatmap denotes the extent to which each gene is co-cited with each specific term in the PubMed database.