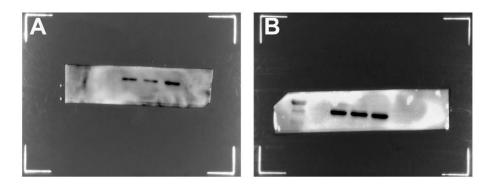
Supplementary Files

Supplementary Figure 1



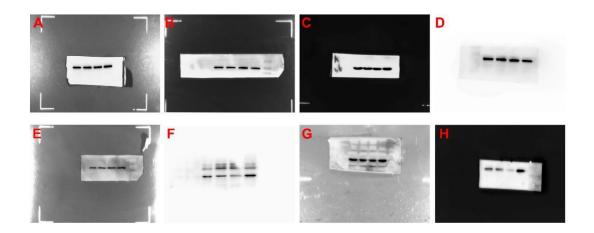
Supplementary figure from Figure 1B in the main article: Western blot analysis of NMNAT3 protein expression. (A) NMNAT3 protein band detected by Western blots; (B) β -actin protein band detected by Western blots. Grouped from left to right: control group, Lv-EGFP, and Lv-NMNAT3.

Supplementary Figure 2



Supplementary figure from Figure 2F in the main article: Western blot analysis of PGC-1 α and NRF1 expression in mitochondria. (A) PGC-1 α protein band detected by Western blots; (B) NRF1 protein band detected by Western blots; (C) COX IV protein band detected by Western blots. Grouped from left to right: BMSCs, BMSCs+H₂O₂,

Supplementary Figure 3



Supplementary figure from Figure 4A in the main article: Western blot analysis of Sirt3, Idh2 and FOXO3a levels in BMSCs, Acetylated Idh2 and FOXO3a were isolated by immunoprecipitation with anti-Idh2 and anti-FOXO3a antibody followed by western blotting with anti-acetyl-lysine antibody. (A) Sirt3 protein band detected by Western blots; (B) Idh2 protein band detected by Western blots; (C) FOXO3a protein band detected by Western blots; (E) Idh2 protein band detected by Western blots with anti-Idh2 antibody; (F) Acetylated Idh2 protein band detected by Western blots with anti-acetyl-lysine antibody; (G) FOXO3a protein band detected by Western blots with anti-FOXO3a antibody; (H) Acetylated FOXO3a protein band detected by Western blots with anti-acetyl-lysine antibody. Grouped from left to right: BMSCs+H₂O₂, BMSCs/Lv +H₂O₂, BMSCs/NMNAT3+H₂O₂, and BMSCs/NMNAT3+3-TYP+H₂O₂.