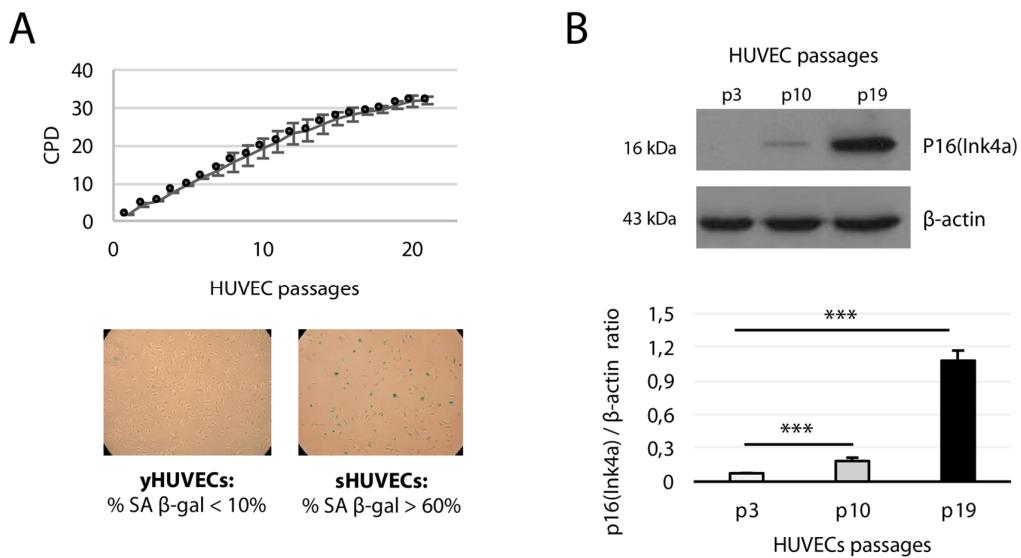
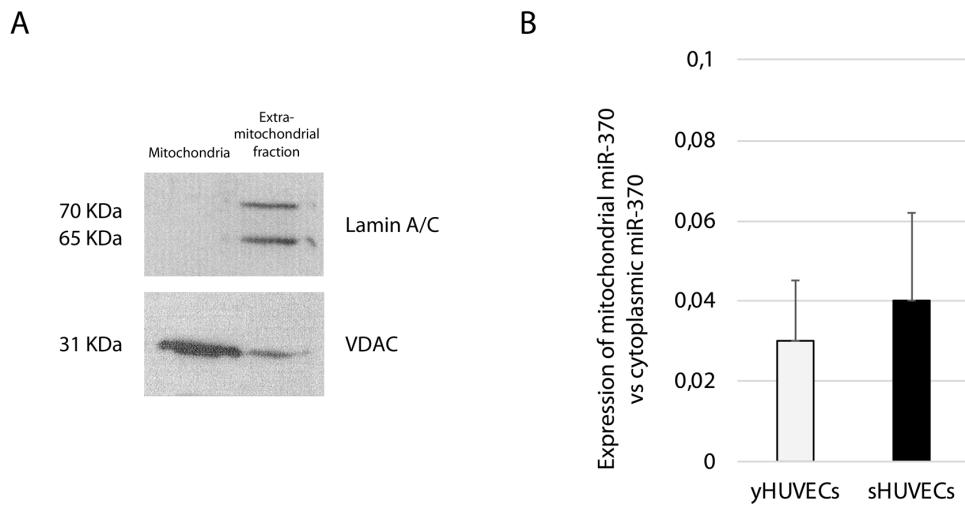


SUPPLEMENTARY FIGURES



Supplementary Figure 1. Phenotypical characterization of HUVECs. (A) Growth curve showing cumulative population doublings (CPDs) of three different HUVEC pools undergoing replicative senescence (X axis: cell passages from P1 to P21) and representative positivity for SA β -Gal in young (< 10%) and senescent HUVECs (> 60%) cells. (B) Western blot and densitometric analysis of p16(INK4a) at passages p3, p10, and p19 of the growth curve. Protein expression values are reported as p16(INK4a)/ β -actin ratio.



Supplementary Figure 2. Purity assessment of isolated mitochondria. (A) Western blot analysis of Lamin A/C and VDAC from mitochondria-enriched and extra-mitochondrial (cytosol and nuclei) fractions after mitochondria isolation. (B) Ratio of miR-370 expression in the isolated mitochondrial fraction to the cytoplasmic fraction in yHUVECs and sHUVECs.