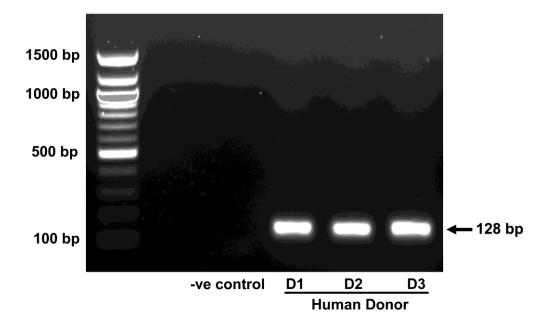
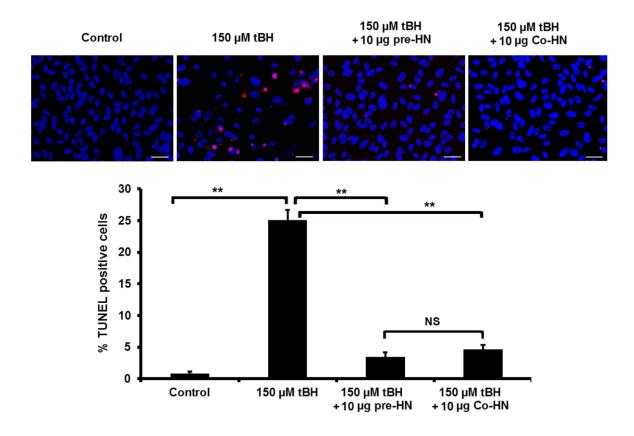
Supplementary fig. 1



Supplementary Fig. 1. RPE cells express mitochondrial transcripts for HN.

PCR showing mitochondrial HN transcripts from three independent samples derived from 3 donors (D1-D3). Primer pairs used are stated in the results section.

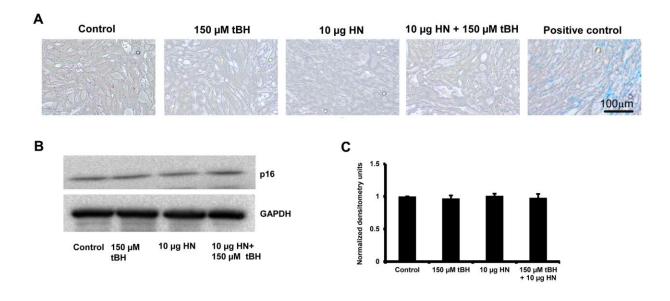
Supplementary Fig. 2



Supplementary Fig. 2. Pre- or co-treatment or RPE with HN similarly protect from oxidant stress.

Effect of pre- treatment and co-treatment of HN on RPE cell survival. Non-polarized RPE cells were either pre-treated overnight or co-treated with 10 μ g HN and 150 μ M tBH for 24h. TUNEL staining is shown in A and B shows quantification of percentage of TUNEL positive cells from three experiments. **P < 0.01. NS: not significant. Scale bar = 10 μ m.

Supplementary Figure 3



Supplementary Fig. 3.

Short-term oxidative stress does not induce senescence in RPE cells

RPE cells were treated with 150 μ M tBH or 150 μ M tBH plus 10 μ g/ml HN for 24 h and processed for SA- β -Gal staining or P16^{INK4a} immunoblot. As a positive control, RPE cells were treated with 30 μ M tBH for 2 h, allowed to recover in fresh medium with 10% fetal bovine serum for 22 h. The procedure was repeated and a complete experiment comprised of five sequential tBH treatments.⁶ (**A, B**) No significant change in the number of SA- β -Gal positive cells nor of p16^{INK4a} protein regulation was found with 150 μ M tBH treatment for 24 h. Sequential tBH (30 μ M) treatment induced senescence in RPE cells (**A**). Scale bar = 100 μ m.