

Supplementary Data

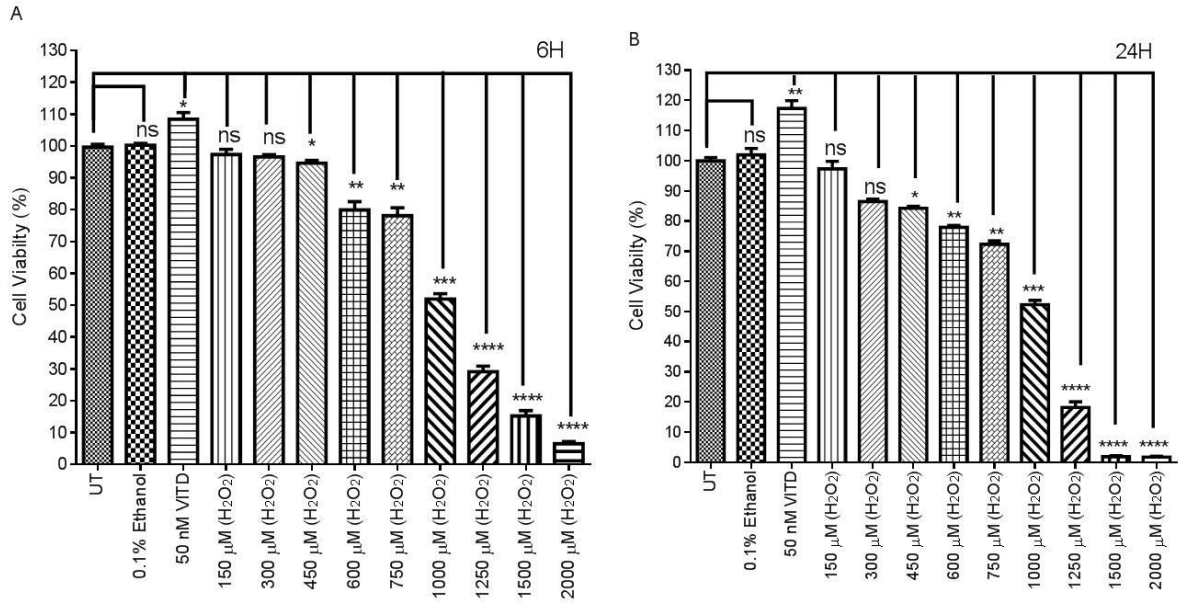


Figure S1 Effects of VITD and H₂O₂ on cell viability. ARPE-19 cells were exposed to VITD or H₂O₂ for 6 hours (A) or 24 hours (B). Cell viability was measured using MTT assay. Data are presented as the means± standard error (SD) of three independent experiments. ns, no significance. *p<0.05, **p<0.01, ***p<0.001, ****p<0.0001.

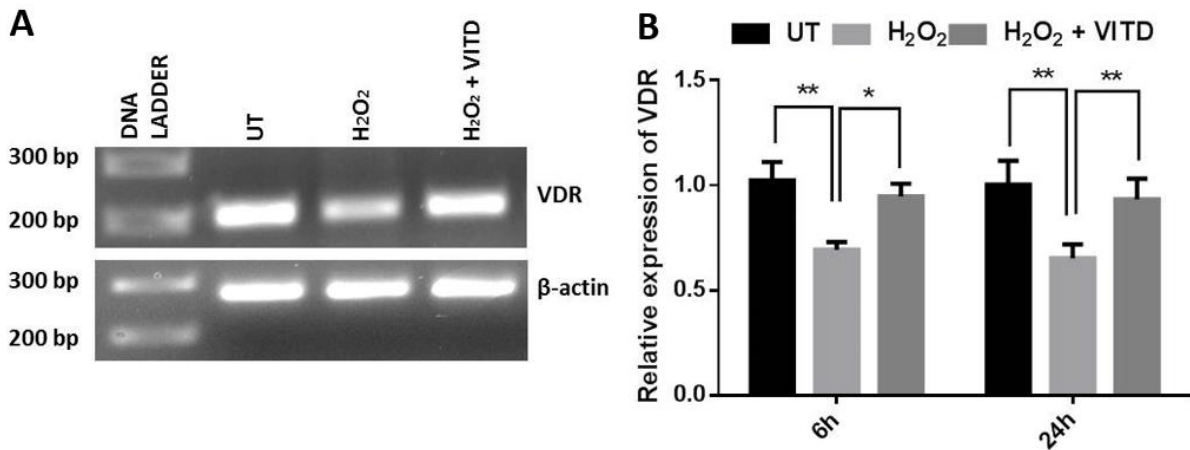


Figure S2 (A) Expression of vitamin D receptor (VDR) was detected in untreated (UT) and treated (H₂O₂ alone or H₂O₂+VITD) ARPE-19 cells by end-point PCR. PCR products were analyzed using agarose gel electrophoresis. (B) ARPE-19 cells were exposed to H₂O₂ or H₂O₂+VITD for 6 hours or 24 hours; expression of VDR was measured by qRT-PCR. Data

are presented as the means \pm standard error (SD) of three independent experiments. * $p < 0.05$, ** $p < 0.01$.

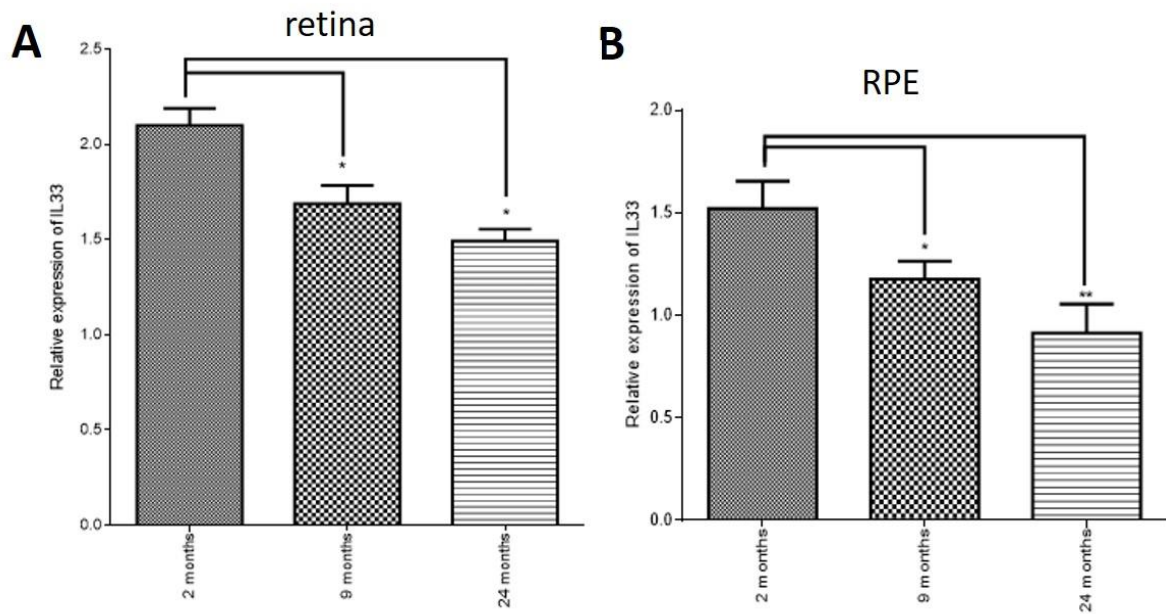


Figure S3 Expression of IL-33 in the retinas (A) and RPE (B) of mice at three age points was measured by qRT-PCR. Data are presented as the means \pm standard error (SD) of three independent experiments. UT: untreated control. * $p < 0.05$, ** $p < 0.01$.