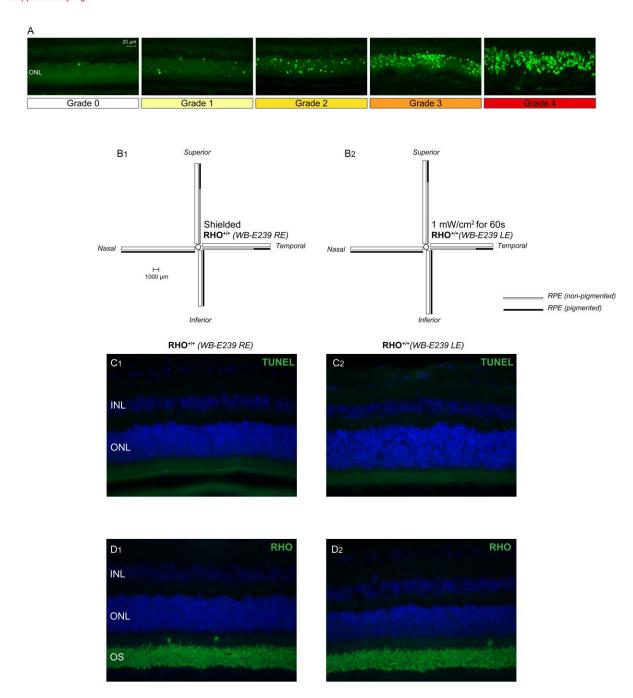
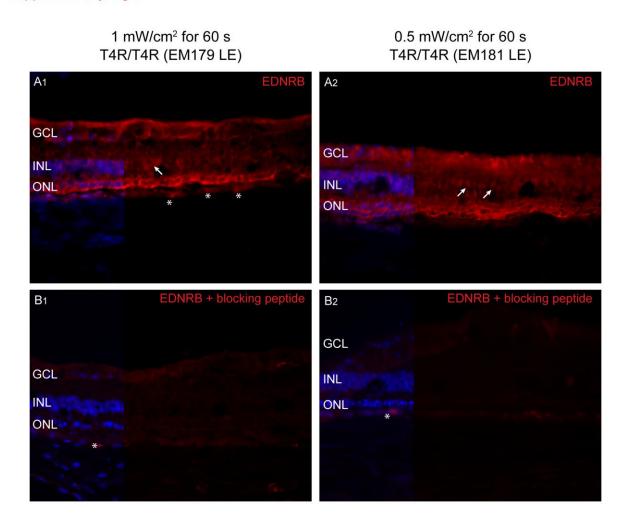
Supplementary Fig 1



Supplementary figure 1: Lack of cell death and normal rhodopsin immunostaining 24 hours after light exposure in a RHO+/+ dog. A) Grading system used to map the incidence of TUNEL-positive cells in the outer nuclear layer. B₁₋₂) Schematic

representation of grades of TUNEL-labeling along retinal sections extending from the edge of the optic nerve head to the superior, inferior, nasal, and temporal *ora serrata* comparing **B**₁) shielded and **B**₂) light exposed (1 mW/cm² for 1 min) retina. TUNEL labeled nuclei are not present in any of the 4 quadrants examined in normal eyes following light exposure; **C**₁₋₂) TUNEL-labeling **D**₁₋₂) Rhodopsin immunostaining. RE: right eye; LE: left eye; INL: inner nuclear layer; ONL: outer nuclear layer; OS: outer segments.

Supplementary Fig 2



Supplementary figure 2: Endothelin receptor B (EdnRB) immunostaining in RHO T4R dogs 2 weeks after light exposure exposure. A₁₋₂) EdnRB staining in light exposed retina. B₁₋₂) Lack of EdnRB staining after incubation with blocking peptide. Arrowheads point to Muller cells, asterisks indicate autofluorescence from RPE cells. LE: left eye; GCL: ganglion cell layer; INL: inner nuclear layer; ONL: outer nuclear layer.