

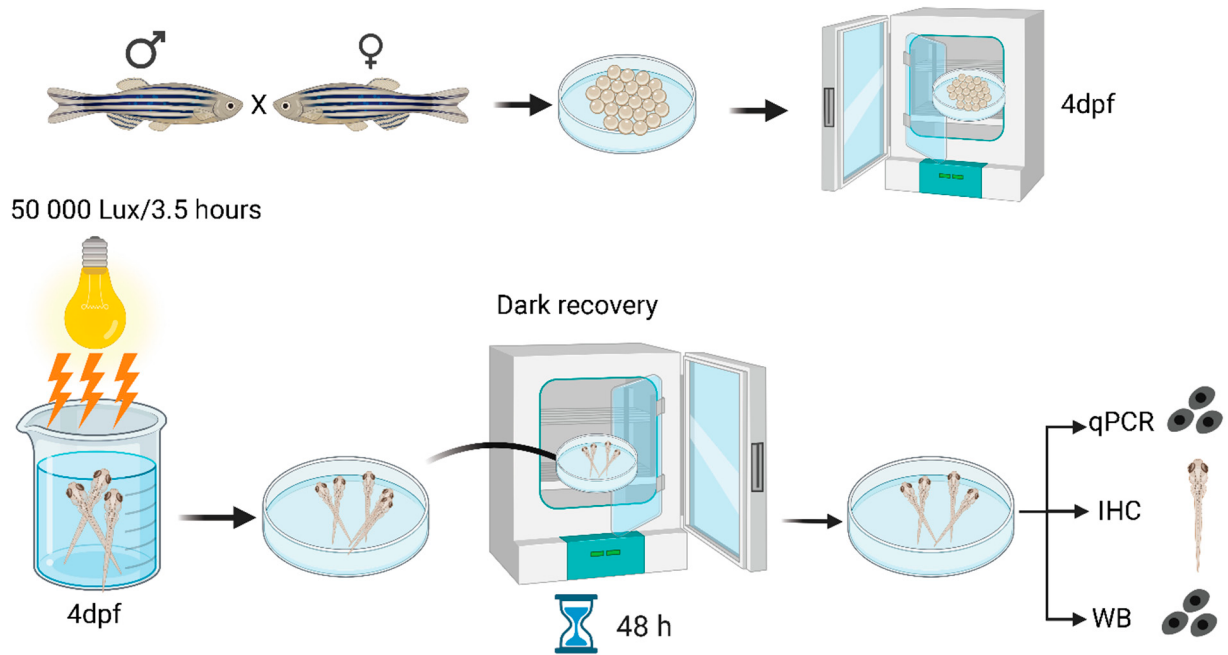
Supplementary Table S1: Antibodies

Antibody	Aplication	Dilution	Manufacturer	Reference
PCNA	WB/IHC	1:750/1:500	Calbiochem	NA03-200UG
GFAP	WB	1:2000	Dako	ZO334
Active Casp3	WB/IHC	1:750/1:500	Abcam	AB13847
pERK	WB	1:750	Santa Cruz	SC-16982
pYAP	WB	1:500	Cell Signaling Technology	#4911
Acetylated Tubulin	WB	1:1000	Thermo Fisher Scientific	32-2700
Actin	WB	1:1000	Santa Cruz	sc-1616
ZPR1	IHC	1:500	ZIRC	
GS	IHC	1:500	Millipore	MAB302
goat anti-mouse IgG-HRP	WB	1:5000	Santa Cruz Biotechnology	sc-2005
goat anti-rabbit IgG-HRP	WB	1:5000	Santa Cruz Biotechnology	sc-2004
mouse anti-goat IgG-HRP	WB	1:5000	Santa Cruz Biotechnolog	sc-2354
Goat Alexa Fluor 488 anti-Mouse	IHC	1:1000	Invitrogen	A11001

WB: Western Blot, IHC: immunohistochemistry

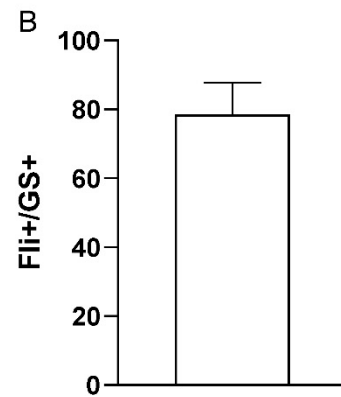
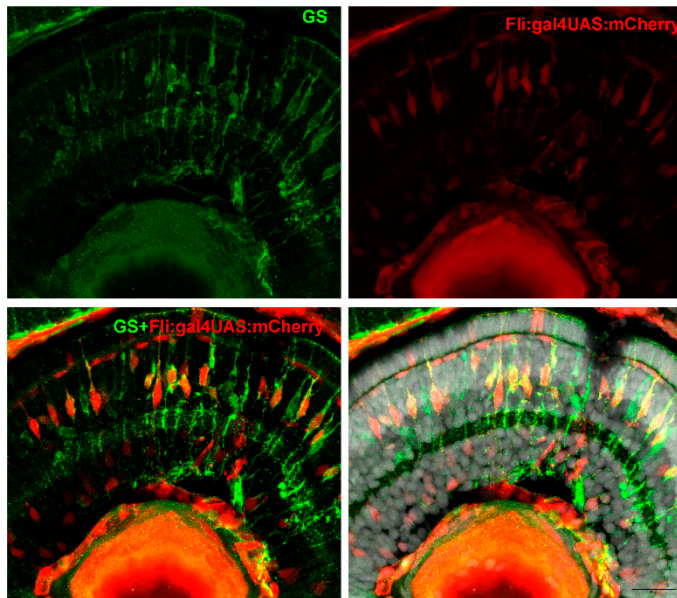
Supplementary Table S2: Primers

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>cpa1</i>	CCATGCTAGCGGAATCTGGT	CCAGGATTGGGCTTTCTGGT
<i>hbae3</i>	CGCAAAGGACAAAGCGAACG	CGTGGTTCCGTGCTTCTTCA
<i>nos2a</i>	TGGAGAAATGCGCCAAGATG	CCGTTGGTGGCATACTTCAG
<i>sod1</i>	GAACCACAGGGTGAGCTGTT	GTTAGCACACGCTGCAATTCC
<i>bax</i>	CTGGCAGACAGTCGGAGTTT	GAAGCGGTTTCACCTCTCAA
<i>il1β</i>	TTTGTGGGAGACAGACGGTG	TCAGGGCGATGATGACGTTC
<i>gfap</i>	ACCCGTGACGGAGAGATCAT	GCCAGTGTCTGAGCCTCATT
<i>pcna</i>	CAAGGAGGATGAAGCGGTAACA	CTGCGGACATGCTAAGTGTG
<i>ube2a</i>	TGACTGTTGACCCACCTTACAG	CAAATAAAAGCAAGTAACCCC

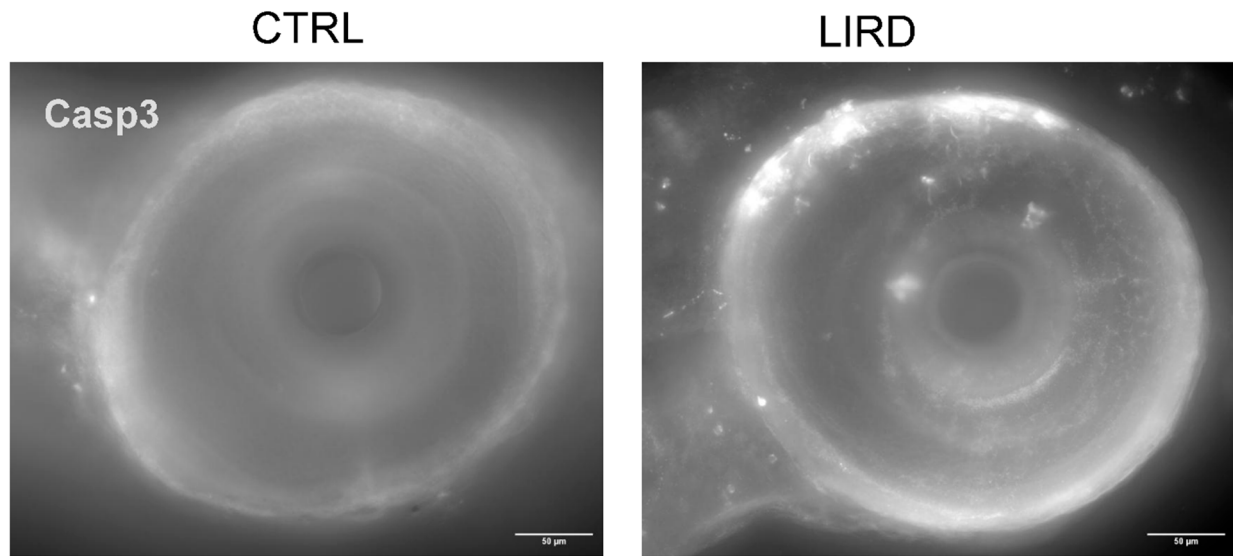


Supplementary Figure 1: Larval Light-Induced Retinal Damage. Natural crosses between adult zebrafish were performed, eggs collected and incubated at 28°C. At 4 days post-fertilization (dpf) pigmented zebrafish larvae were exposed to high-intensity white light (50,000 lux) for 3.5 h, followed by a 48-h recovery period. The downstream analysis were Western Blot (WB), immunohistochemistry (IHC) and bulk-RNA sequencing. Created with BioRender.com

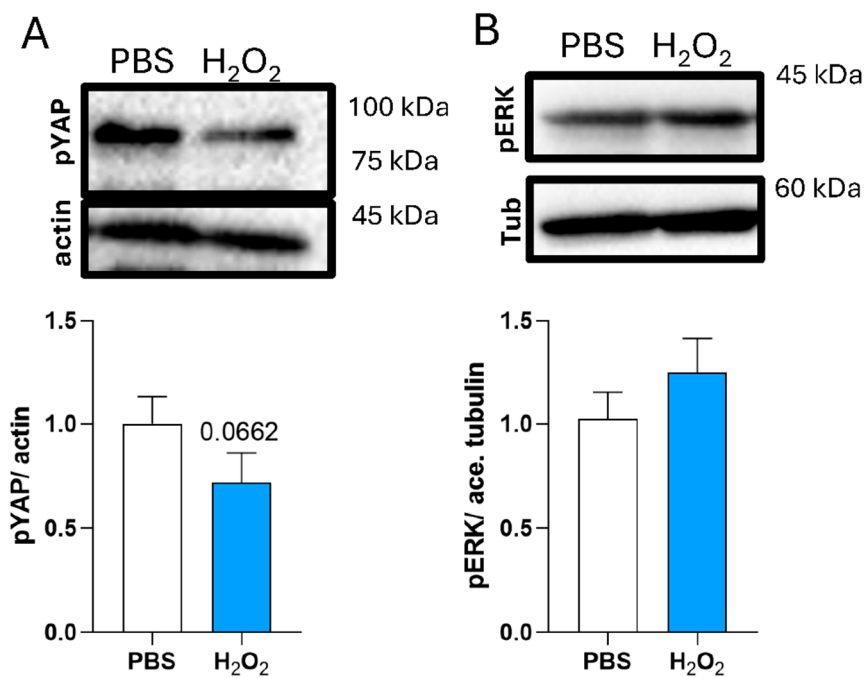
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Supplementary Figure 2: Fli labels most of the Müller glia (MG) in the inner retinal layer. (A) Representative confocal images of 6 dpf retinas immunolabeled with the Müller glia marker GS (green). Upper right: GS staining. Upper left: Fli:gal4UAS:mCherry (red). Bottom right: merge of GS and Fli:gal4UAS:mCherry. Bottom left: merge of GS, Fli:gal4UAS:mCherry and DAPI (nuclei, grey). (B) Quantification of Fli⁺/GS⁺ cells, expressed as percentage relative to the total number of GS⁺ cells (GS = 100%). Data are presented as mean ± S.D. (n = 7)



Supplementary Figure 3: Active caspase 3 immunolabeling. After 48 hours of the LIRD, embryos were fixed and immunolabeled against cleaved caspase 3 (casp3).



Supplementary Figure 4: Effects of H₂O₂ on Hippo and ERK pathway activity. (A) Western blot analysis of phosphorylated YAP (pYAP). (B) Western blot analysis of phosphorylated ERK (pERK). Densitometric quantification normalized to control averages; N = 4 biological replicates; mean $\pm$ s.d.; unpaired t-test.