

Supplementary Tables and Figure

Supplementary Table 1. List of antibodies and concentrations used for the different immunostaining experiments

Experiment	Primary Antibodies			Secondary Antibodies		
	Name Host	Source (Catalog #)	Dilution	Wavelength Host	Source (Catalog)	Dilution
IHC	anti-mC3d Goat	R&D Systems (AF2655)	1:50	AF 594 Donkey	Invitrogen (A-211058)	1:200
	anti-HO-1 Rabbit	Enzo (ADI-OSA-150)	1:100	AF 594 Donkey	Invitrogen (A-21207)	1:200
RPE Flat Mount	anti-CD16/CD32 Rat	BD-Pharmingen (553142)	1:25	AF488 Donkey	Invitrogen (A-21208)	1:200
	anti-Iba1 Rabbit	Wako, Inc (019-19741)	1:500	AF 594 Donkey	Invitrogen (A-21207)	1:200

Supplementary Table 2. Primers for qPCR

Gene	Refseq #	Forward	Reverse	Length	Tm
Gapdh	NM_008084 .2	TGTGTCCGTCGTGGATCTG A	CCTGCTTCACCACCTTCTT GA	77	60
Nfe2l2	NM_010902	CTTGCTCTTGGGAACAAGG AAC	CGACAGAAACCTCCATCTT CTG	157	62
Stat3	NM_011486	CCACTGCACTGAAAGGCTA A	ATAGTGAGCCCCTGGA ACTG	98	59
Lpo	NM_080420	TCTATCAGGAAGCAAGGAA	GTAGGATGGGTAGGTAGTC	75	59
HO-1	NM_010442	TCAGGTGTCCAGAGAAGGC TTT	CTCTCCAGGGCCGTGTAG A	70	62
Srxn1	NM_029688	ATGGAGCTGGGAAAACAGA G	TAATGAGGTGGGCATTCAG A	134	60
Hspa1a	NM_010479	TTTGTCTGCAATCAAGTCC T	GGCTGTCCTGCAAAACAAA T	191	60
Ptgs2	NM_011198	AAGACTTGCCAGGCTGAAC T	CTTCTGCAGTCCAGGTTCA A	98	59

Supplementary Table 3. Expression change of genes 4 h after light exposure

4h after FCD-LIRD	Fold change	p-value
Nfe2l2	1.06	0.63
Srxn1	1.72	2.80E-04
Stat3	1.89	0.012
Ptgs2	2.02	0.015
Hspa1a	2.19	0.027
Lpo	2.45	9.30E-03
HO-1	5.69	5.50E-06

Supplementary Table 4. Expression change of genes 24 h after light exposure

24h after FCD-LIRD	Fold change	p-value
Nfe2l2	1.03	0.79
Srxn1	1.33	0.022
Stat3	1.96	0.011
Ptgs2	0.81	0.51
Hspa1a	1.27	0.087
Lpo	1.61	0.15
HO-1	3.07	2.30E-05

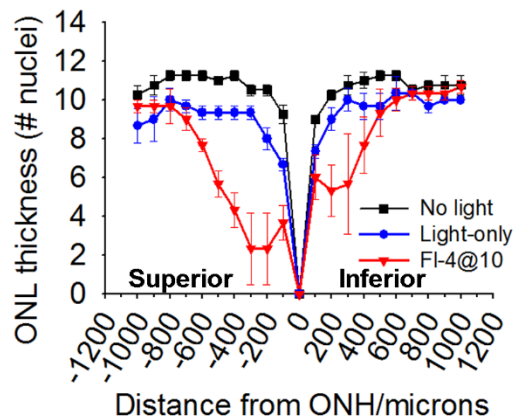


Figure S1. Outer nuclear layer (ONL) thickness, measured on histology sections as the number of ONL nuclei at 100µm intervals, in eyes without treatment (n=4), 21 days after “Light-only” FCD-LIRD (n=3), and 21 days after FI-4@10 light (n=3).