Supplementary Tables for pairwise comparisons

Supplementary Table S1. The pairwise comparison of serum malondialdehyde (MDA), superoxide dismutase (SOD), catalase (CAT), and glutathione peroxidase (GPX) levels between groups in LED-induced retinal damage in rats.

Parameters	Pairwise comparison	P value
MDA	LED+QC vs. LED+QCG2	P > 0.05 (NS)
	LED+QC vs. LED+QCG1	P < 0.05
	LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	LED+L/Z vs. LED+QCG2 LED+QCG1 vs. LED+QCG2	P < 0.001
	Other pairwise comparisons	P < 0.0001
SOD	LED+L/Z vs. LED+QC LED+L/Z vs. LED+QCG2 LED+QC vs. LED+QCG1 LED+QC vs. LED+QCG2 LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	LED+L/Z vs. LED+QCG1 LED+L/Z vs. LED+L/Z+QCG (0.5:0.5) LED+QCG1 vs. LED+QCG2 LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5)	P < 0.05
	LED+QCG2 vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	LED+QC vs. LED+L/Z+QCG (0.5:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001
CAT	LED+L/Z vs. LED+QC LED+L/Z vs. LED+QCG1 LED+L/Z vs. LED+QCG2 LED+L/Z vs. LED+L/Z+QCG (0.5:0.5) LED+QC vs. LED+QCG1 LED+QC vs. LED+QCG2 LED+QCG2 vs. LED+L/Z+QCG (0.5:0.5) LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	LED+QCG1 vs. LED+QCG2 LED+QCG2 vs. LED+L/Z+QCG (1:0.5)	P < 0.05
	LED+L/Z vs. LED+L/Z+QCG (1:0.5) LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5)	P < 0.01
	LED+QC vs. LED+L/Z+QCG (0.5:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001
GPX	LED+L/Z vs. LED+QC LED+L/Z vs. LED+QCG2 LED+L/Z vs. LED+L/Z+QCG (1:0.5) LED+L/Z vs. LED+L/Z+QCG (0.5:0.5) LED+QC vs. LED+QCG1 LED+QC vs. LED+QCG2 LED+QC vs. LED+L/Z+QCG (0.5:0.5) LED+QCG2 vs. LED+L/Z+QCG (0.5:0.5) LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5) LED+QCG2 vs. LED+L/Z+QCG (1:0.5)	P > 0.05 (NS)
	LED+L/Z vs. LED+QCG1 LED+QCG1 vs. LED+QCG2	P < 0.05
	LED+QC vs. LED+L/Z+QCG (1:0.5) LED+QCG1 vs. LED+L/Z+QCG (0.5:0.5) LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001

n=7, ANOVA and Bonferroni's multiple comparisons test. NS: not significant

Supplementary Table S2. The pairwise comparison of serum interleukin-1β (IL-1β), IL-6, and tumor necrosis factor-α (TNF-α) levels between groups in LED-induced retinal damage in rats.

Parameters	Pairwise comparison	P value
IL-1β	LED+L/Z vs. LED+QC LED+L/Z vs. LED+QCG1 LED+L/Z vs. LED+QCG2 LED+QC vs. LED+QCG1 LED+QCG1 vs. LED+QCG2 LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5) LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	LED+QC vs. LED+QCG2 LED+QCG2 vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	Other pairwise comparisons	P < 0.0001
IL-6	LED+L/Z vs. LED+QC LED+L/Z vs. LED+QCG1 LED+L/Z vs. LED+QCG2 LED+L/Z vs. LED+L/Z+QCG (1:0.5) LED+L/Z vs. LED+L/Z+QCG (0.5:0.5) LED+QC vs. LED+QCG1 LED+QCG1 vs. LED+QCG2 LED+QCG2 vs. LED+L/Z+QCG (1:0.5) LED+QCG2 vs. LED+L/Z+QCG (0.5:0.5) LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	LED+QC vs. LED+QCG2 LED+QCG1 vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	LED+QC vs. LED+L/Z+QCG (0.5:0.5) LED+QCG1 vs. LED+L/Z+QCG (1:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001
TNF-α	LED+L/Z vs. LED+QC LED+L/Z vs. LED+QCG1 LED+L/Z vs. LED+QCG2 LED+QC vs. LED+QCG1 LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5) LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	LED+QC vs. LED+QCG2 LED+QCG1 vs. LED+QCG2	P < 0.01
	LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (0.5:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001

n=7, ANOVA and Bonferroni's multiple comparisons test. NS: not significant

Supplementary Table S3. The pairwise comparison of retinal Bcl-2-associated X protein (Bax), B-cell lymphoma 2 (Bcl-2), and cyste-ine-aspartic acid protease-3 (Caspase-3) levels between groups in LED-induced retinal damage in rats.

Parameters	Pairwise comparison	P value
Bax	LED vs. LED+QCG1 LED+L/Z vs. LED+QCG2 LED+L/Z vs. LED+L/Z+QCG (0.5:0.5) LED+QC vs. LED+QCG2 LED+QCG2 vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	LED+L/Z vs. LED+QC LED+QC vs. LED+QCG1 LED+QCG1 vs. LED+QCG2 LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5)	P < 0.01
	LED+QC vs. LED+L/Z+QCG (0.5:0.5) LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001
Bcl-2	LED+L/Z vs. LED+QC LED+QC vs. LED+QCG2	P > 0.05 (NS)
	LED+L/Z vs. LED+L/Z+QCG (0.5:0.5)	P < 0.05
	LED+L/Z vs. LED+QCG2 LED+QC vs. LED+QCG1	P < 0.01
	LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001
Caspase-3	LED+L/Z vs. LED+QC LED+L/Z vs. LED+L/Z+QCG (1:0.5) LED+L/Z vs. LED+L/Z+QCG (0.5:0.5) LED+QC vs. LED+L/Z+QCG (0.5:0.5) LED+QCG1 vs. LED+QCG2 LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	LED+QC vs. LED+L/Z+QCG (1:0.5) LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5)	P < 0.05
	Other pairwise comparisons	P < 0.0001

n=7, ANOVA and Bonferroni's multiple comparisons test. NS: not significant

Supplementary Table S4. The pairwise comparison of retinal nuclear factor erythroid 2-related factor 2 (Nrf2), heme oxygenase-1 (HO-1), and nuclear factor kappa B p65 subunit (NF-κB p65) levels between groups in LED-induced retinal damage in rats.

Parameters	Pairwise comparison	P value
Nrf2	LED+L/Z vs. LED+QC LED+QC vs. LED+QCG2 LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05
	LED+L/Z vs. LED+QCG1 LED+L/Z vs. LED+QCG2 LED+QCG2 vs. LED+L/Z+QCG (0.5:0.5)	P < 0.05
	LED vs. LED+QCG1	P < 0.01
	LED+QC vs. LED+QCG1 LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001
HO-1	LED+QC vs. LED+QCG2 LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	LED+L/Z vs. LED+QC LED+L/Z vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	Other pairwise comparisons	P < 0.0001
NF-κB p65	LED+L/Z vs. LED+QC LED+L/Z vs. LED+QCG2 LED+QC vs. LED+QCG1 LED+QC vs. LED+QCG2 LED+QCG1 vs. LED+QCG2 LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5)	P > 0.05 (NS)
	LED+L/Z/Z vs. LED+QCG1	P < 0.05
	LED+L/Z/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	LED+L/Z vs. LED+L/Z+QCG (0.5:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001

n=7, ANOVA and Bonferroni's multiple comparisons test. NS: not significant

Supplementary Table S5. The pairwise comparison of retinal intercellular adhesion molecule-1 (ICAM), growth-associated protein-43 (GAP43), glial fibrillary acid protein (GFAP), neural cell adhesion molecule (NCAM), and monocyte chemoattractant protein 1 (MCP-1) levels between groups in LED-induced retinal damage in rats.

Parameters	Pairwise comparison	P value
ICAM	LED+QC vs. LED+QCG2	P > 0.05 (NS)
	LED+L/Z vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	Control vs. LED+L/Z+QCG (1:1)	P < 0.001
	Other pairwise comparisons	P < 0.0001
GAP43	LED+QC vs. LED+QCG2 LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	Other pairwise comparisons	P < 0.0001
GFAP	LED+L/Z vs. LED+QC LED+L/Z vs. LED+QCG2 LED+QC vs. LED+QCG2 LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5)	P > 0.05 (NS)
	LED+L/Z vs. LED+L/Z+QCG (0.5:0.5)	P < 0.05
	LED+QCG2 vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	Other pairwise comparisons	P < 0.0001
NCAM	LED+QCG1 vs. LED+QCG2 LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	Other pairwise comparisons	P < 0.0001
MCP-1	LED+L/Z vs. LED+QCG2	P > 0.05 (NS)
	LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001

n=7, ANOVA and Bonferroni's multiple comparisons test. NS: not significant

Supplementary Table S6. The pairwise comparison of outer nuclear layer (ONL) thickness level between groups in LED-induced retinal damage in rats.

Parameters	Pairwise comparison	P value
ICAM	LED vs. LED+QC LED vs. LED+QCG1 LED+L/Z vs. LED+QC LED+L/Z vs. LED+QCG1 LED+L/Z vs. LED+QCG2 LED+L/Z vs. LED+L/Z+QCG (0.5:0.5) LED+QC vs. LED+QCG1 LED+QC vs. LED+QCG2 LED+QCG1 vs. LED+QCG2 LED+QCG2 vs. LED+L/Z+QCG (0.5:0.5) LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (1:0.5) LED+L/Z+QCG (1:1) vs. LED+L/Z+QCG (0.5:0.5) LED+L/Z+QCG (1:0.5) vs. LED+L/Z+QCG (0.5:0.5)	P > 0.05 (NS)
	Control vs. LED+L/Z+QCG (1:1) Control vs. LED+L/Z+QCG (1:0.5) LED vs. LED+L/Z, LED vs. LED+QCG2 LED+QC vs. LED+L/Z+QCG (0.5:0.5)	P < 0.01
	LED+L/Z vs. LED+L/Z+QCG (1:0.5) LED+QCG1 vs. LED+L/Z+QCG (0.5:0.5)	P < 0.001
	Other pairwise comparisons	P < 0.0001

n=7, ANOVA and Bonferroni's multiple comparisons test. NS: not significant