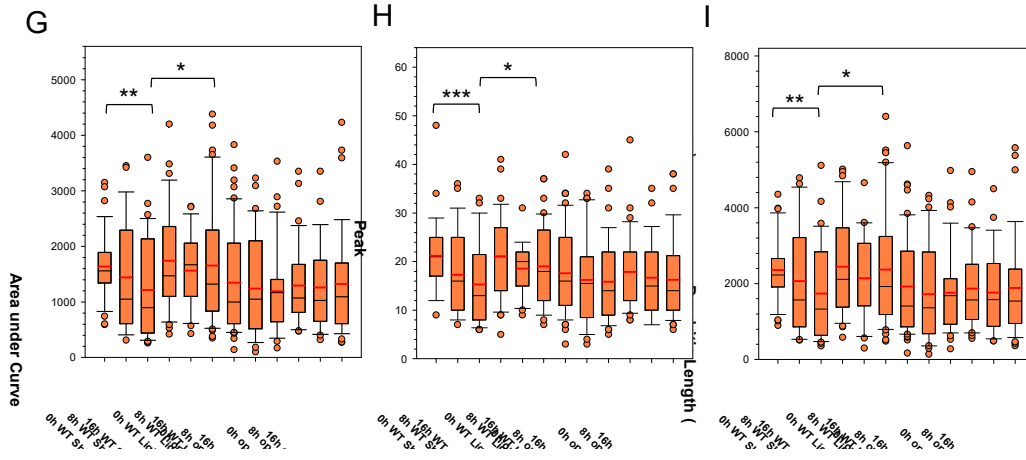
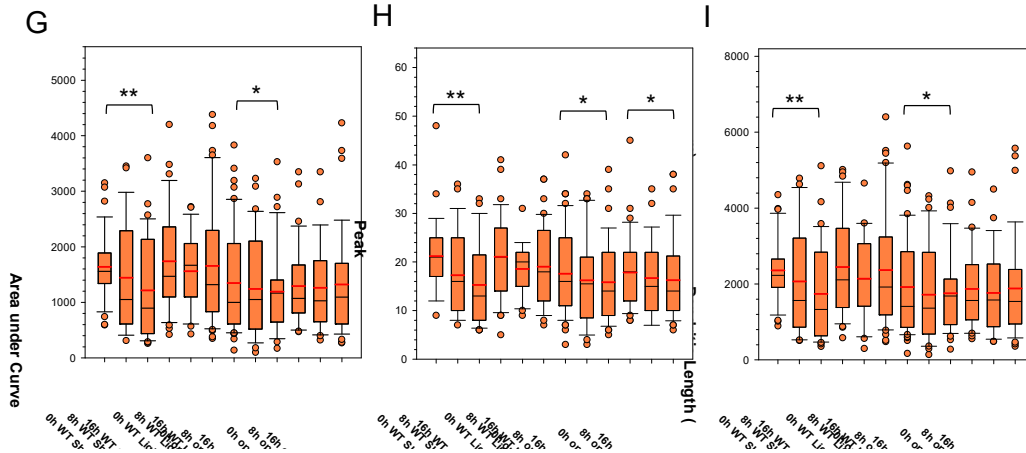


Supplementary Material



Supplementary Figure S1: Box and whisker plots corresponding to the bar charts shown in Figure 2 G, H and I.

(G) the area under the Sholl curve (AUC); (H) average maximum peak of Sholl curve; and (I) average total dendritic length of the entire population of RGCs. All measures revealed significant degeneration over 16 hours in the sham-treated WT RGCs which was inhibited by the light treatment, as shown by the 16-hour WT light group having significantly greater dendritic complexity. Black line: mean; Red line: median. The ends of boxes correspond to the 25th and 75th percentiles, the whiskers correspond to the 10th and 90th. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, † $p < 0.05$; Mann-Whitney U test.



Supplementary Figure S2: Box and whisker plots corresponding to the bar charts shown in Figure 3 G, H and I.

(G) the area under the Sholl curve (AUC); (H) average maximum peak of Sholl curve; and (I) average total dendritic length of the ON-center sub-population of RGCs. All measures revealed significant degeneration over 16 hours in the sham-treated WT and *Opn1^{+/-}* RGCs. Black line: mean; Red line: median. The ends of boxes correspond to the 25th and 75th percentiles, the whiskers correspond to the 10th and 90th. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, + $p < 0.05$; Mann-Whitney *U* test.