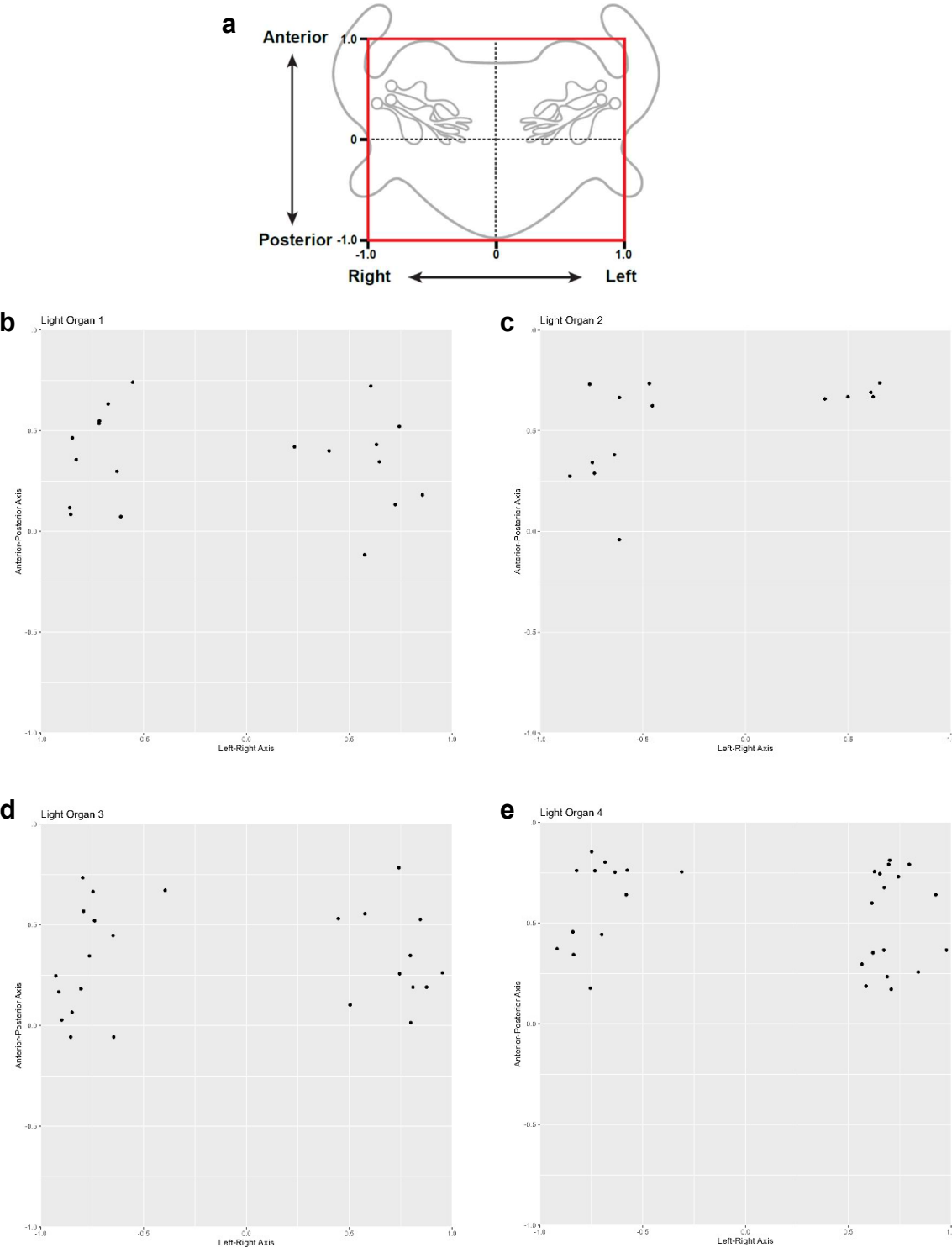


Supplementary Information



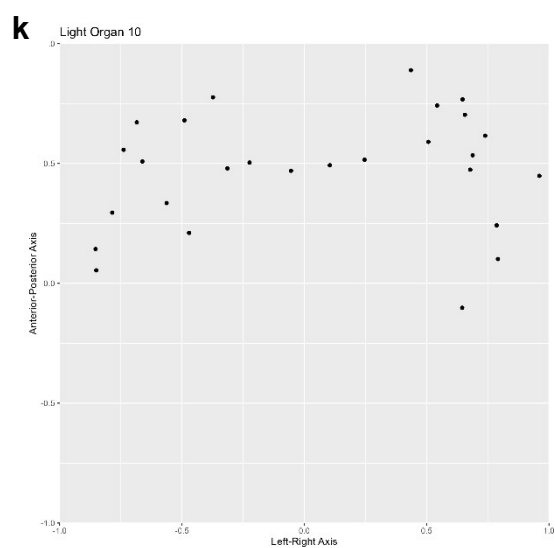
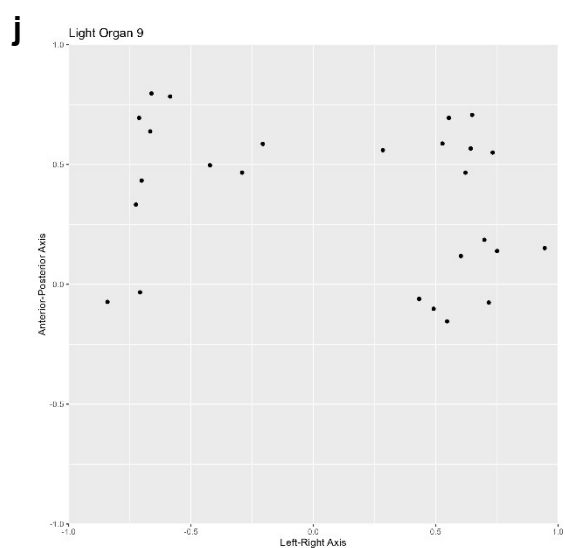
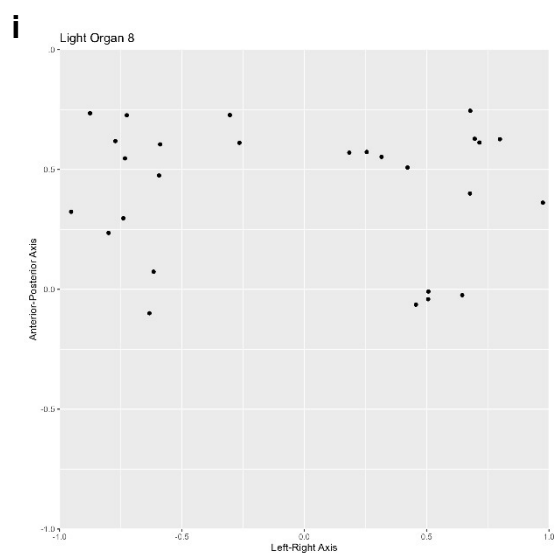
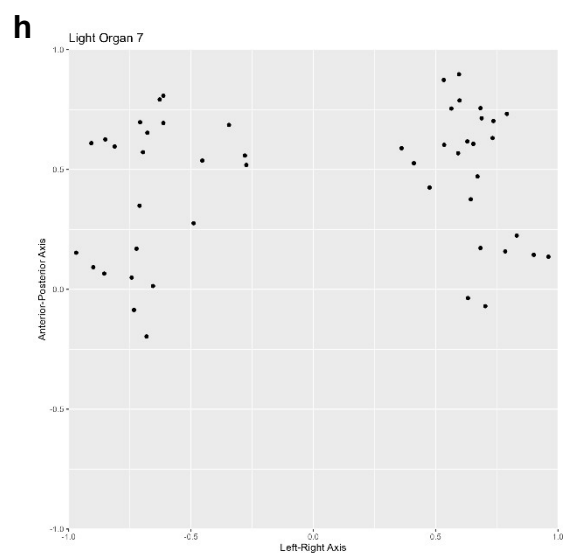
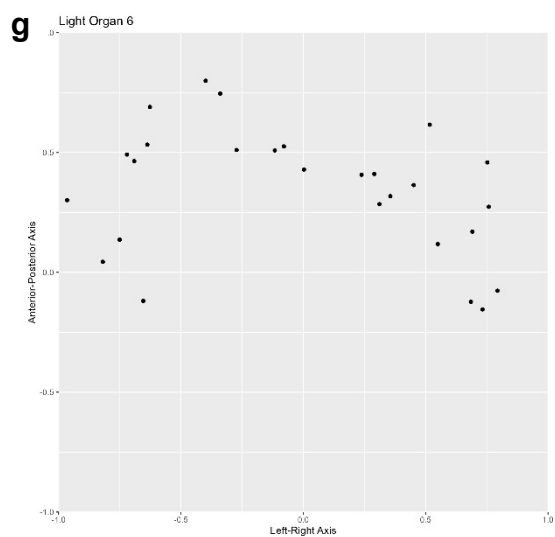
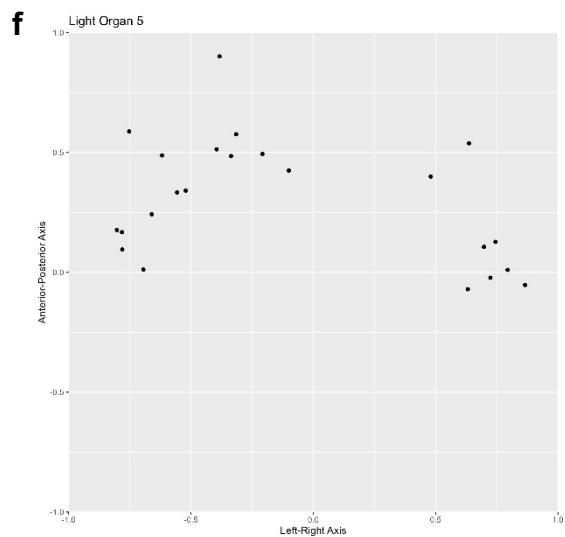


Figure S1 | Scatter plots showing NeuN-like immunoreactive (-lir) cells in single light organs. (a) Normalized coordinate plane for ventral view (frontal plane) of the light organ. Red box bounding the light organ diagram corresponds to the extreme values of the coordinate planes depicted in (b-k). (b-k) Scatter plots showing the location of NeuN-lir cells in the frontal plane of 10 light organs. Observations from these individuals were aggregated to perform the 2-dimensional kernel density estimates in Figures 3d-e.

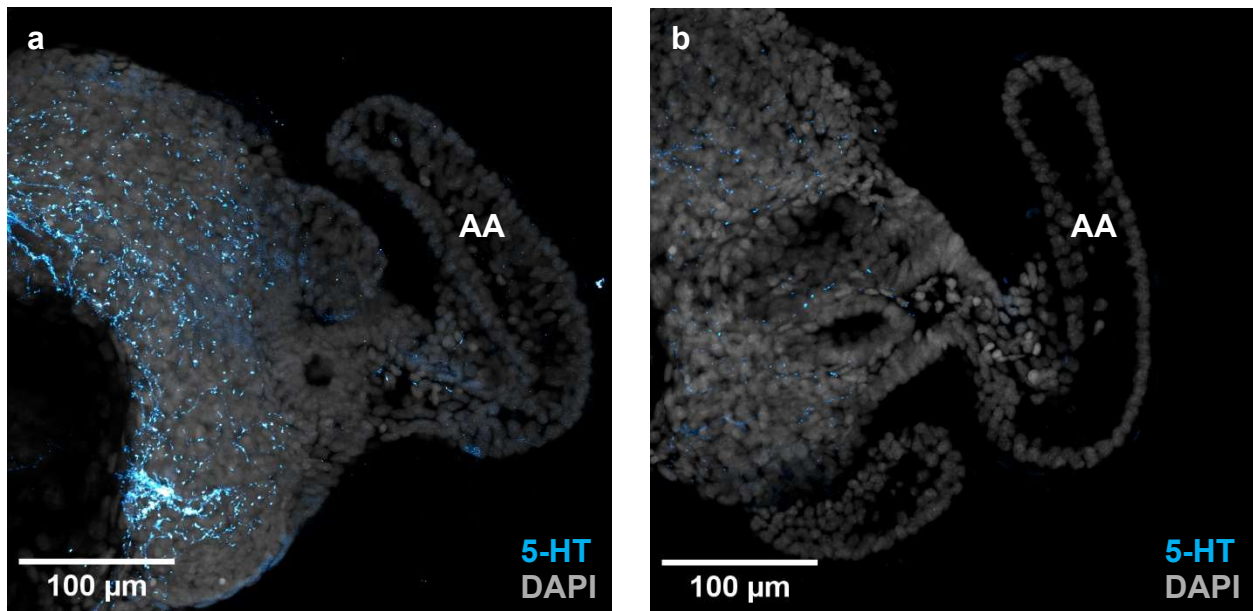


Figure S2 | Alternate patterns of anterior appendage innervation. (a) Anterior appendage with serotonin-like immunoreactive (5-HT-lir, cyan) basal appendage neurites (BANs) but lacking a 5-HT-lir apical appendage neurite (AAN). (b) Anterior appendage lacking an AAN and BANs. Nuclei are stained with DAPI (grey). 5-HT, serotonin; AA, anterior appendage.