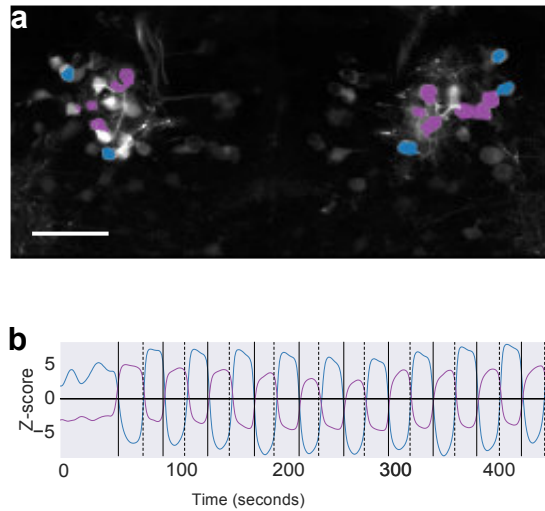


# Activation and inhibition of *tph2* serotonergic neurons operate in tandem to influence larval zebrafish preference for light over darkness

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**Figure S1. Response of pretectal *tph2* neurons to light and darkness.** (a) Dorsal view of the pre-tectal area of a 11 dpf *Tg(tph2:GAL4, UAS:GCaMP6s)* fish, with anterior at the top. The purple colour indicates cells that are excited by light (ON cells), whereas the blue colour indicates cells that are excited by darkness (OFF cells). (b) Response of pretectal *tph2* neurons to light and darkness, determined using k-means clustering of a time-series recorded at 1 Hz. The series was analysed using the Thunder platform. Scale bar = 25  $\mu\text{m}$ .