### Figure 1

**A**

Graph showing normalized excitation against wavelength (nm) for mCherry and PACα.

**B**

Images of WT embryos under different conditions: 1 min, 2 min, 3 min, 4 min, 5 min, 6 min, 7 min, 8 min, 9 min, 10 min.

**C**

Bar chart showing active circus cells after stimulation: 2/23, 3/25, 13/13, 14/14.

**D**

Images of mCherry-PACα control under different illumination: -300 ms, 0 ms, +300 ms.

**E**

Bar chart showing proportion of responsive embryos: blue illumination, green illumination.