Figure S4: Neuroanatomy of AIY, AFD and URX neurons.

A. – B. Epifluorescent micrographs of the head region of transgenic animals expressing AFD/AIY iBLINC (dzEx1240) and a cytoplasmic marker for AFD (oyIs17) (a) or AIY (mglIs18)(b) showing juxtaposition of iBLINC signals with cytoplasmic markers. (B’, C’) Optical sections of the indicated area in (B, C), demonstrating juxtaposition of both signals.

C. Quantification of animals showing juxtaposition of iBLINC signals with the AIY or AFD cytoplasmic markers (N=24 and 30, respectively).

D. Epifluorescent images of animals expressing different fluorescent cytoplasmic markers in URX sensory neurons (magenta) and AIY interneurons (green). Anterior is to the left and dorsal to the top.

E. Quantification of the percentage of animals showing juxtaposition (defined as no visible gap between the two neurites in the nerve ring) of URX and AIY neurites in the nerve ring in two different extrachromosomal transgenic lines (N=22-33).