



Figure S6. Additional data on SOD-3::GFP reporter expression. (A-C) Stimulation of IL1 neurons does not promote the expression level of the DAF-16 target gene *sod-3* at 25 °C. (A-B) Sample images. Left: DIC. Right: fluorescence. (C) Bar graph. Error bars: SEM. $n \geq 32$. $p = 0.119$ (t test). **(D-F)** Inhibition of ASJ neuron output does not promote the expression of the DAF-16 target gene *sod-3* at 20 °C. Error bars: SEM. $n \geq 30$. $p = 0.094$ (t test). **(G-K)** RNAi of *daf-16* specifically in the intestine blocks the ability of IL1 neurons to up-regulate SOD-3::GFP expression at 20 °C. *sid-1* (*qt9*) blocks the spread of dsRNA to other tissues. $n \geq 20$. * $p < 0.05$; ** $p < 0.005$ (ANOVA with Bonferroni test). **(L-P)** RNAi of *daf-16* specifically in the intestine blocks the ability of ASJ neurons to up-regulate SOD-3::GFP expression at 25 °C. *sid-1* (*qt9*) blocks the spread of dsRNA to other tissues. $n \geq 25$. * $p < 0.05$; ** $p < 0.005$ (ANOVA with Bonferroni test). Scale bar: 100 μ m.