



**Extended Data Figure 6 | Exposure to exogenous GABA or silencing of spicule protraction circuit activity overnight reduces DVB neurites on day 5.** **a–c**, Confocal images of *lim-6<sup>int4</sup>::wCherry* (a), total neurite length (b), and number of neurite junctions (c) of males exposed overnight to 30 mM GABA at days 3 and 5. **d–f**, Confocal images of *lim-6<sup>int4</sup>::wCherry* (d), total neurite length (e), and number of neurite junctions (f) at day 5 of

control worms with or without overnight 10 mM histamine, and *gar-3b::HisCl1::gfp* worms with or without overnight 10 mM histamine. Dot represents one worm; magenta bar, median; boxes, quartiles; one-way ANOVA and post-hoc Tukey HSD, *P* values shown above plots, bold shows significance (*P* < 0.05), scale bars, 10  $\mu$ m.