



Extended Data Figure 1 | Progressive neurite outgrowth in DVB in adulthood. **a–c**, DVB neuron visualized with *lim-6^{int4}::gfp* at days 1, 3, and 5 in adult males (**a**) and quantification of total neurite length (**b**) and number of neurite junctions (**c**) (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)). **d**, DVB neurite outgrowth visualized with *flp-10::gfp* in males at days 1, 3, and 5 of adulthood (*n* > 10, scale bars, 10 μm). **e**, Tracing reconstruction of male

DVB from electron micrograph sections compiled by <http://wormwiring.org> showing DVB neurites. **f**, Inset of DVB neurites showing presynaptic specializations identified in electron micrograph sections shown in pink. **g, h**, Electron micrograph section showing DVB pseudo-coloured yellow with presynaptic specialization indicated with red x with SPCR (Image Right1200, Section 14871) (**g**) and spicule sheath (Image N2YDRG1175, Section 14816) (**h**), shown in white in inset panel. Scale bars, 1 μm .