



Extended Data Figure 2 | DVB neurite outgrowth in adult male *C. elegans* is stochastic and other neurons in the male tail do not show progressive neurite outgrowth in adulthood. a, b, DVB neurites at day 5 visualized with *lim-6^{int4}::wCherry* (a) or *lim-6^{int4}::gfp* (b) ($n > 10$ for each). DVB posterior neurites were traced through confocal stacks using Simple Neurite Tracer⁴ plugin. c, DVA neuron visualized with *ser-2(prom2)::gfp* ($n = 5$) (red dashed line indicates axon of relevant neuron). d, DVC neuron

visualized with *inx-18p::gfp* ($n = 5$). e, CP6 neuron visualized with *flp-13::gfp* (cell soma not shown) ($n = 5$). f, Ray neurons visualized with *dat-1::gfp* (ventral view) ($n = 5$). g, h, PVT neuron visualized with *srz-102p::gfp* ($n = 5$) (g) and *srg-4p::gfp* ($n = 5$) (h) at day 1 and day 5. Axons of indicated neurons highlighted by red dashed lines. Scale bars, 10 μ m.