

Fig. S1: Cell proliferation, *macpiwi, macboule* and *macactin* expression dynamics, one hour after final radiation exposure (protocol P1). ( $A_1$ - $A_6$ ) Cell proliferation drastically decreased upon radiation exposure (0-90 Gy). Note the significant reduction in somatic cell proliferation at higher radiation doses ( $A_3$ - $A_6$ ). In contrast, reduced proliferation was still clearly visible in the gonads (arrowheads). ( $B_1$ - $B_6$ ) *Macpiwi* expression one hour after radiation (0-90 Gy) was eliminated in somatic stem cells. Worms irradiated with higher doses (75-90 Gy) also showed a strong reduction in *macpiwi* expression in gonadal cells ( $B_5$ - $B_6$ ). ( $C_1$ - $C_6$ ) *Macboule* expression one hour post-irradiation. Note the dose-dependent reduction in *macboule* expression. ( $D_1$ - $D_6$ ) Expression of the housekeeping gene *macactin* one hour post-irradiation dose applied. In all figures, anterior is to the top. The scale bar (100 µm) is representative for all worms.