

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.