



**Supplementary Figure S4. MSH2 depletion does not enhance RAD51 foci, but modestly suppresses MMC induced  $\gamma$ -H2AX.** Representative immunofluorescence images of FANCD1/42A FA-J cells stably expressing shRNA vectors to control or MSH2 at the indicated time post-250nM MMC or left untreated that were either (A) selected based on positive  $\gamma$ -H2AX stain, (B) randomly selected and (C) quantitated. The asterisk (\*) represents a p-value < 0.01.