



**Figure S5** ATM-1 negatively regulates DSB formation. Scatter plot of total RAD-51 foci/nucleus in *rad-54(ok615);him-8(me4)* and *rad-54;him-8(me4);atm-1(RNAi)* male gonads. *rad-54;him-8;atm-1(RNAi)* male gonads contain more RAD-51 foci per nucleus than *rad-54;him-8* male gonads fed empty L4440 vector. Nuclei were scored as described in Figure S1. Total nuclei scored: *rad-54;him-8*: EP n=130, MP n=135, LP n=134. *rad-51;him-8;atm-1(RNAi)*: EP n=136, MP n=138, LP n=157. Horizontal black lines correspond to the means of each data set and error bars represent the 95% confidence interval of the mean. Data were analyzed using a two-tailed Mann-Whitney test. \*\* =  $p < 0.0001$ .