

Supplementary Table 1

		n=
Figure 1b	wt (<i>gfp</i> RNAi) 0 Gy 12 hrs	3
	wt (<i>gfp</i> RNAi) 0 Gy 24 hrs	10
	wt (<i>gfp</i> RNAi) 0 Gy 36 hrs	10
	wt (<i>gfp</i> RNAi) 30 Gy 12 hrs	6
	wt (<i>gfp</i> RNAi) 30 Gy 24 hrs	5
	wt (<i>gfp</i> RNAi) 30 Gy 36 hrs	9
	wt (<i>gfp</i> RNAi) 60 Gy 12 hrs	5
	wt (<i>gfp</i> RNAi) 60 Gy 24 hrs	6
	wt (<i>gfp</i> RNAi) 60 Gy 36 hrs	11
	wt (<i>gfp</i> RNAi) 120 Gy 12 hrs	2
	wt (<i>gfp</i> RNAi) 120 Gy 24 hrs	10
	wt (<i>gfp</i> RNAi) 120 Gy 36 hrs	11
	wt (<i>ufd-2</i> RNAi) 0 Gy 12 hrs	3
	wt (<i>ufd-2</i> RNAi) 0 Gy 24 hrs	6
	wt (<i>ufd-2</i> RNAi) 0 Gy 36 hrs	6
	wt (<i>ufd-2</i> RNAi) 30 Gy 12 hrs	4
	wt (<i>ufd-2</i> RNAi) 30 Gy 24 hrs	9
	wt (<i>ufd-2</i> RNAi) 30 Gy 36 hrs	8
	wt (<i>ufd-2</i> RNAi) 60 Gy 12 hrs	4
	wt (<i>ufd-2</i> RNAi) 60 Gy 24 hrs	7
	wt (<i>ufd-2</i> RNAi) 60 Gy 36 hrs	6
	wt (<i>ufd-2</i> RNAi) 120 Gy 12 hrs	2
	wt (<i>ufd-2</i> RNAi) 120 Gy 24 hrs	6
	wt (<i>ufd-2</i> RNAi) 120 Gy 36 hrs	9
Figure 1d	wt 0 Gy	80
	wt 30 Gy	69
	wt 60 Gy	73
	<i>ufd-2(tm1380)</i> 0 Gy	76
	<i>ufd-2(tm1380)</i> 30 Gy	80
	<i>ufd-2(tm1380)</i> 60 Gy	74
	<i>ufd-2(hh1)</i> 0 Gy	73
	<i>ufd-2(hh1)</i> 30 Gy	75
	<i>ufd-2(hh1)</i> 60 Gy	80
Figure 1f	wt 0 Gy	53
	wt 60 Gy	43
	<i>ufd-2(tm1380)</i> 0 Gy	59
	<i>ufd-2(tm1380)</i> 60 Gy	37
	wt; <i>UFD-2::GFP</i> 0 Gy	63
	wt; <i>UFD-2::GFP</i> 60 Gy	38
	<i>ufd-2(tm1380); UFD-2::GFP</i> 0 Gy	58
	<i>ufd-2(tm1380); UFD-2::GFP</i> 60 Gy	36
	wt; <i>UFD-2::GFP^{P951A}</i> 0 Gy	56
	wt; <i>UFD-2::GFP^{P951A}</i> 60 Gy	57
	<i>ufd-2(tm1380); UFD-2::GFP^{P951A}</i> 0 Gy	52
	<i>ufd-2(tm1380); UFD-2::GFP^{P951A}</i> 60 Gy	52

		n=
Figure 2b	wt 0 Gy	231
	wt 60 Gy	280
Figure 2d	<i>ufd-2(tm1380); UFD-2::GFP</i> 0 Gy	34
	<i>ufd-2(tm1380); UFD-2::GFP</i> 60 Gy	51
	<i>ufd-2(tm1380); UFD-2::GFP^{P951A}</i> 0 Gy	36
	<i>ufd-2(tm1380); UFD-2::GFP^{P951A}</i> 60 Gy	42
Figure 3d	wt 0 Gy	87
	wt 60 Gy	107
	<i>hecd-1(tm2371)</i> 0 Gy	57
	<i>hecd-1(tm2371)</i> 60 Gy	52
	<i>atx-3(gk193)</i> 0 Gy	36
	<i>atx-3(gk193)</i> 60 Gy	53
Figure 3e	wt 0 Gy	48
	wt 60 Gy	45
	<i>ufd-2(tm1380)</i> 0 Gy	47
	<i>ufd-2(tm1380)</i> 60 Gy	52
	<i>hecd-1(tm2371)</i> 0 Gy	46
	<i>hecd-1(tm2371)</i> 60 Gy	39
	<i>ufd-2(tm1380); hecd-1(tm2371)</i> 0 Gy	42
	<i>ufd-2(tm1380); hecd-1(tm2371)</i> 60 Gy	41
Figure 3f	wt 0 Gy	51
	wt 60 Gy	38
	<i>ufd-2(tm1380)</i> 0 Gy	44
	<i>ufd-2(tm1380)</i> 60 Gy	42
	<i>atx-3(gk193)</i> 0 Gy	42
	<i>atx-3(gk193)</i> 60 Gy	44
	<i>ufd-2(tm1380); atx-3(gk193)</i> 0 Gy	41
	<i>ufd-2(tm1380); atx-3(gk193)</i> 60 Gy	39
Figure 4d	wt 0 Gy	39
	wt 20 Gy 1 h	40
	wt 20 Gy 7 hrs	37
	wt 20 Gy 16 hrs	35
	wt 20 Gy 48 hrs	37
	<i>ufd-2(tm1380)</i> 0 Gy	41
	<i>ufd-2(tm1380)</i> 20 Gy 1 h	43
	<i>ufd-2(tm1380)</i> 20 Gy 7 hrs	36
	<i>ufd-2(tm1380)</i> 20 Gy 16 hrs	36
	<i>ufd-2(tm1380)</i> 20 Gy 48 hrs	39
Figure 5b	wt 0 Gy	122
	wt 60 Gy	106
	<i>rad-51(ok2218)</i> 0 Gy	93
	<i>rad-51(ok2218)</i> 60 Gy	76
	<i>gen-1(tm2940)</i> 0 Gy	74
	<i>gen-1(tm2940)</i> 60 Gy	92

Supplementary Table 1, continued

		n=
Figure 5c	wt 0 Gy	130
	wt 60 Gy	150
	<i>cep-1(lg1250)</i> 0 Gy	57
	<i>cep-1(lg1250)</i> 60 Gy	63
	<i>gld-1(op236)</i> 0 Gy	146
	<i>gld-1(op236)</i> 60 Gy	162
	<i>gld-1(op236); cep-1(lg1250)</i> 0 Gy	45
	<i>gld-1(op236); cep-1(lg1250)</i> 60 Gy	50
	<i>egl-1(n1084n3082); ced-13(tm536)</i> 0 Gy	55
	<i>egl-1(n1084n3082); ced-13(tm536)</i> 60 Gy	63
Figure 5d	wt 0 Gy	35
	wt 20 Gy	63
	<i>ufd-2(tm1380)</i> 0 Gy	39
	<i>ufd-2(tm1380)</i> 20 Gy	40
	<i>ufd-2(tm1380); UFD-2::GFP</i> 0 Gy	38
	<i>ufd-2(tm1380); UFD-2::GFP</i> 20 Gy	38
	<i>RAD-51::GFP</i> 0 Gy	36
	<i>RAD-51::GFP</i> 20 Gy	34
Figure 5e	wt 0 Gy	71
	wt 60 Gy	74
	<i>ufd-2(tm1380)</i> 0 Gy	73
	<i>ufd-2(tm1380)</i> 60 Gy	65
	<i>ufd-2(tm1380); UFD-2::GFP</i> 0 Gy	74
	<i>ufd-2(tm1380); UFD-2::GFP</i> 60 Gy	82
	<i>RAD-51::GFP</i> 0 Gy	61
	<i>RAD-51::GFP</i> 60 Gy	67

Supplementary Table 2

		n=
Supplementary Figure 1a	<i>ced-1(e1735)</i>	38
	<i>ced-1(e1735); ufd-2(tm 1380)</i>	33
Supplementary Figure 1b	wt	45
	<i>ufd-2(tm 1380)</i>	45
	<i>gla-3(op216)</i>	44
	<i>gla-3(op216); ufd-2(tm 1380)</i>	45
Supplementary Figure 1d	wt 0 Gy	30
	wt 60 Gy	32
	<i>ufd-2(tm 1380) 0 Gy</i>	33
	<i>ufd-2(tm 1380) 60 Gy</i>	33
	<i>hus-1(op244) 0 Gy</i>	25
	<i>hus-1(op244) 60 Gy</i>	23
Supplementary Figure 2c	wt 5 hrs 0 Gy	31
	wt 5 hrs 60 Gy	32
	wt 24 hrs 0 Gy	20
	wt 24 hrs 60 Gy	17
Supplementary Figure 3a	wt 0 Gy	79
	wt 60 Gy	69
	wt 600 J/m ²	96
Supplementary Figure 3b	wt 0 Gy	147
	wt 30 Gy	147
	wt 60 Gy	144
	<i>ufd-2(tm 1380) 0 Gy</i>	144
	<i>ufd-2(tm 1380) 30 Gy</i>	144
	<i>ufd-2(tm 1380) 60 Gy</i>	144
	<i>ufd-2(hh1) 0 Gy</i>	75
	<i>ufd-2(hh1) 30 Gy</i>	75
	<i>ufd-2(hh1) 60 Gy</i>	75
	<i>rad-51(ok2218)het. 0 Gy</i>	111
	<i>rad-51(ok2218)het. 30 Gy</i>	117
	<i>rad-51(ok2218)het. 60 Gy</i>	117
Supplementary Figure 4e	wt 0 Gy	35
	wt 20 Gy	42
	<i>atx-3(gk193) 0 Gy</i>	43
	<i>atx-3(gk193) 20 Gy</i>	48