Figure S1. Caspase cleavage without IR and DNA double strand breaks with and without IR.
Larvae of the genotype CasExpress/G-trace; GAL80\textsuperscript{ts}/+ were treated as in Fig. 1A where T=26°C. Wing discs were dissected at 4h after exposure to 0 or 4000R of X-rays, fixed, and stained for DNA and with antibodies to cleaved Dcp1 (A-A') or \(\gamma\)-H2Av (B-C'). The scale bar = 120 microns in A and 24 microns in B-C.
# Supplemental Table 1. Fly stocks used

| Source (BL = Bloomington Stock Center) | Used in Fig. | Genotype |
|----------------------------------------|--------------|----------|
| BL28280 ‘G-trace’                       | all          | P[w[+mC]=UAS-RedStinger]4, P[w[+mC]=UAS-FLP.D]JD1, P[w[+mC]=Ubi-p63E(FRT.STOP)Stinger]9F6 |
| BL65419                                 | all          | P[w[+mC]=Ubi-CasExpress]attP40 |
| BL7017                                  | all          | tub-GAL80<sup>ts</sup> on chromosome III |
| BL65420                                 | 1            | P[w[+mC]=Ubi-CasExpress.DQVA]attP40 |
| Ref 12                                  | 1            | Caspase Tracker |
| BL1576                                  | 3            | Df(3L)H99/TM6B Tb |
| BL5823                                  | 3            | w1118 P(UAS-rpr.C)27 (UAS-rpr on the X chromosome) |
| Ref 31                                  | 3            | UAS-hid, UAS-rpr on the X chromosome |
| BL5073                                  | 3            | w[*]; P[w[+mC]=UAS-p35.H]8H2 |
| Ref 33                                  | 3            | UAS-Dronc<sup>DN</sup> on chromosome III |
| BL33623                                 | 3            | UAS-w RNAi on chromosome III |
| Ref 32                                  | 5            | UAS-Wg on chromosome III |
| BL7225                                  | 5            | w[*]; Kr[If-1]/CyO; P[w[+mC]=UAS-Axin.GFP]3 (UAS-Axin on chromosome III) |
| BL26674                                 | 5            | y[1] w[*]; P[w[+mC]=UAS-DI::N.DeltaECN]B2a3 (constitutively active N on Ch. III) |
| BL26672                                 | 5            | w[*]; P[w[+mC]=UAS-mamN]3 (dominant negative Mastermind on Ch. III) |
| BL64195                                 | 5            | w[*]; P[w[+mC]=UAS-Ras85D.V12]TL1 (constitutively active Ras on Ch. III) |
| BL549                                   | 6            | mwh[1] |