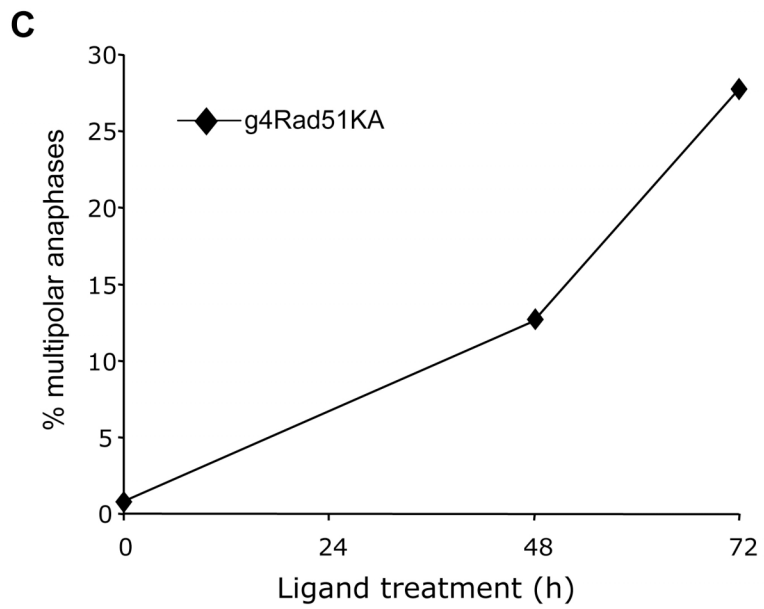
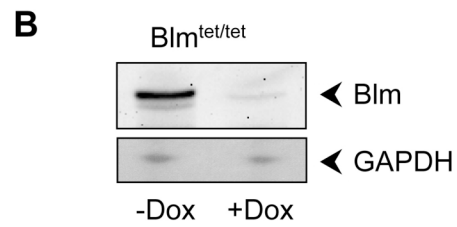
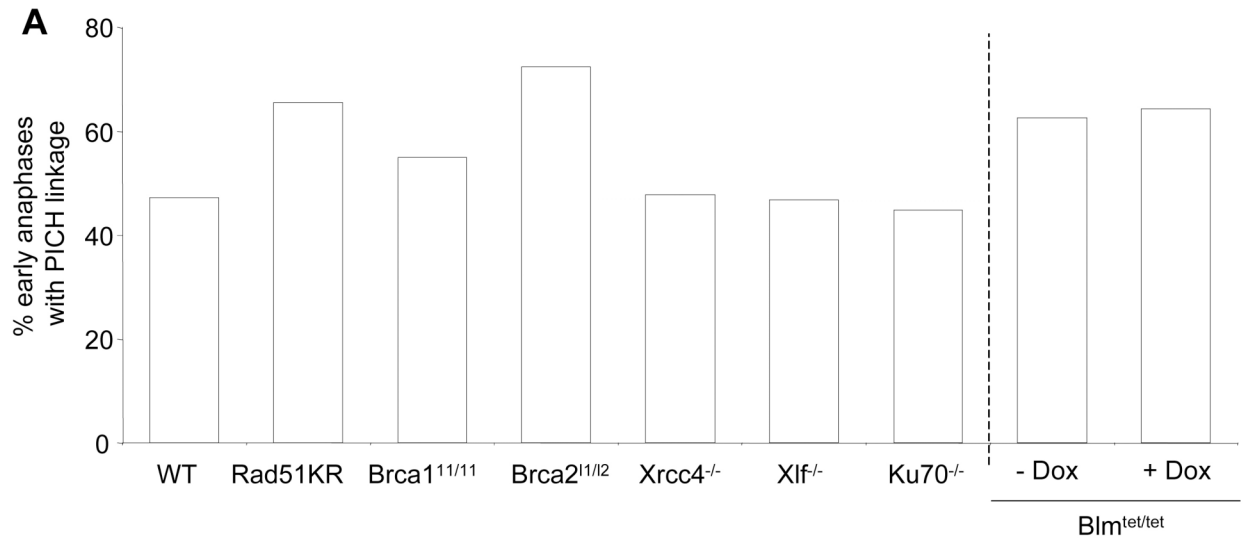


SUPPLEMENTAL FIGURE LEGENDS

Supplemental Figure 1. (A) HDR deficiency does not substantially affect the frequency of PICH linkages in early anaphase. Shown is the percentage of early anaphases with PICH linkages in a set of HDR or NHEJ-deficient cell lines, and a cell line enabling DOX-mediated depletion of Blm. (B) *Blm^{tet/tet}* cells show a reduced level of Blm after DOX treatment. Shown are Blm and GAPDH immunoblot signals from *Blm^{tet/tet}* cells either from the untreated condition or after 48 hours of DOX treatment (1 μ g/ml). (C) Severe HDR-deficiency causes multipolar anaphases. Shown is the frequency of multipolar anaphases after *L*-treatment in g4Rad51KA cells.

Video 1. Normal chromosome segregation in untreated g4Rad51KA cells. Chromatin was labeled by H2B-GFP. Each frame represents a 3 minute time-lapse.

Video 2. Binucleated cells leading to multipolar chromosome segregation after 2 days of *L*-treatment in g4Rad51KA cells. Chromatin was labeled by H2B-GFP. Each frame represents a 3 minute time-lapse.



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