

SUPPLEMENTAL MATERIAL & METHODS

Cell lines

The VC8 cell line, derived from the V79 Chinese hamster lung fibroblast cell line, has a mutation in the *BRCA2* gene resulting in impaired HR (43). The restored cell line VC8-B2 is complemented with human *BRCA2*.

The Fanconi Anemia cell line PD20 (*FANCD2*^{-/-}) are fibroblasts derived from a Fanconi Anemia patient. The PD20 3.15 cell line is a PD20-derived cell line expressing a wt *FANCD2*. These cell lines have been a gift from Jordi Surralles (Genome Instability and DNA Repair Group, Department of Genetics and Microbiology, Universitat Autònoma de Barcelona, Barcelona, Spain) and have been already described (44).

Colony formation

Cell survival following 5-azadC treatment was measured by clonogenic assay. VC8, VC8-B2, PD20 and PD20 3.15 were plated at low density onto 10 cm Petri dishes. After 4 hours cultures were incubated for 24 hours (VC8 and VC8-B2) or 48 hours (PD20 and PD20 3.15) in the presence of different concentrations of 5-azadC. Then 5-azadC was discarded and the cultures were allowed to grow from 7-10 days. Colonies were stained with methylene blue prepared in methanol (4 g/L). Surviving colonies made up of more than 50 cells per colony were counted. The data have been corrected according to cloning efficiencies of control cells. Results are the average from 2-3 independent experiments.

SUPPLEMENTAL REFERENCES:

43. Kraakman-van der Zwet,M., Overkamp,W.J., van Lange,R.E., Essers,J., van Duijn-Goedhart,A., Wiggers,I., Swaminathan,S., van Buul,P.P., Errami,A., Tan,R.T. et al. (2002) Brca2 (XRCC11) deficiency results in radioresistant DNA synthesis and a higher frequency of spontaneous deletions. *Mol. Cell. Biol.*, **22**, 669–679.

44. Castillo,P., Bogliolo,M., Surralles,J. (2011). Coordinated action of the Fanconi anemia and ataxia telangiectasia pathways in response to oxidative damage. *DNA Repair.*, **10**, 518-525.