53BP1-RIF1-shieldin counteracts DSB resection through CST- and Polα-dependent fill-in

Article (Supplemental Material)


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Figure 4. Mirman, Lottersberger et al.

(a) BRCA1*/*
BRCA1*/* + Cre

sh
Ctc1
Stn1
ctrl

0 1 2 5 10 10k cells/well
Olaparib [μM]

(b) shctrl + shStn1 + shStc1
BRCA1*/* + Cre
% survival

100 10 1
0 1 2 5 10 10k cells/well
Olaparib [μM]

(c) shctrl + shStn1 + shStc1
BRCA1*/* + Cre
% survival

100 10 1
0 0.5 2
Olaparib [μM]

(d) BRCA1*/* shctrl
BRCA1*/* + shStn1
BRCA1*/* + shStc1

+ Cre + 2 μM Olaparib

(e) + Cre + 0.5 μM Olaparib

% Radial chromosomes

80 60 40 20 0
sh ctrl Stn1 Ctc1
ctrl Stn1 Stn1 Ctc1
ctrl Stn1 Stn1 Ctc1
ctrl Stn1 Stn1 Ctc1

(f) BRCA1*/* w/o or w/o Stn1/Ctc1 shRNA

PARP1 inhibitor
0 h
GZ arrest RO0306
12 h
Poli inhibitors
21 h
Colcemid
26 h
Metaphases

(g) Functional telomere

CST/Polt/prim
Shelterin

Double-strand break

CST/Polt/prim
Sheldin

ATM/ATR signaling