Ext. Data Fig. 2. Mirman, Lottersberger et al.

(a) 

<table>
<thead>
<tr>
<th>shRNA</th>
<th>ctrl</th>
<th>Ctc1</th>
<th>Stn1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cre</td>
<td>-</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TPP1&lt;sup&gt;1&lt;sup&gt;FF&lt;/sup&gt;Rev7&lt;sup&gt;+/+&lt;/sup&gt;</td>
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<tr>
<td>TPP1&lt;sup&gt;1&lt;sup&gt;FF&lt;/sup&gt;Rev7&lt;sup&gt;−/−&lt;/sup&gt;</td>
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(b) 

<table>
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</table>


(c) 

Relative ss TTAGGG signal normalized to total TTAGGG
Ext. Data Fig. 7. Mirman, Lottersberger et al.
Ext. Data Fig. 8. Mirman, Lottersberger et al.

(a) BRCA1<sup>FF</sup> parental
- Cre - + + +
- shRNA ctrl ctrl Stn1Ctc1
- BRCA1 γtub
- Stn1 γtub

(b) BRCA1<sup>FF</sup> parental
- Cre - + + +
- shRNA ctrl ctrl Stn1Ctc1
- BRCA1 γtub
- Stn1 γtub

(c) BRCA1<sup>FF</sup> no gRNA
- Cre - + + +
- shRNA ctrl ctrl Stn1Ctc1
- BRCA1 γtub
- Stn1 γtub

(d) BRCA1<sup>FF</sup> no gRNA
- Cre - + + +
- shRNA ctrl ctrl Stn1Ctc1
- BRCA1 γtub
- Stn1 γtub

(e) BRCA1<sup>FF</sup> 53BP1<sup>+</sup>
- Cre + + + +
- shRNA ctrl ctrl Stn1Ctc1
- 53BP1 γtub
- Stn1Ctc1 γtub

(f) BRCA1<sup>FF</sup> Rev7<sup>+</sup>
- Cre + + + +
- shRNA ctrl ctrl Stn1Ctc1
- Rev7 γtub
- Stn1Ctc1 γtub

(g) BRCA1<sup>FF</sup>
- Cre - + + +
- no Cre ctrl ctrl Stn1Ctc1
- BRCA1 γtub
- Stn1 γtub

(h) BRCA1<sup>FF</sup> w/ or w/o Stn1Ctc1 shRNA
- PARP1 inhibitor + BrdU
- G2 arrest
- PolI inhibitors
- Colcemid
- Harvest metaphases
- Stain for BrdU

(i) DAPI IF BrdU - BrdU + BrdU

(j) % BrdU+ metaphases