

Legends to the Supplementary Figures.

- A.** Epistasis analysis of MMS sensitivity of *exo1Δ* and *brc1Δ*.
- B.** *msh2* is not required for Brc1-mediated suppression of *smc6-74*, and does not enhance the MMS sensitivity of *smc6-74*.
- C.** *pms1* is not required for Brc1-mediated suppression of *smc6-74*, and does not enhance the MMS sensitivity of *smc6-74*.
- D.** *msh2Δ* and *pms1Δ* do not enhance the MMS sensitivity of *brc1Δ*.
- E.** *pcn1-K164R* significantly enhances the MMS sensitivity of *brc1Δ*, though *pcn1-K164R* itself is not sensitive to MMS.
- F.** NER mutants *swi10Δ* and *rhp14Δ* significantly enhance the MMS sensitivity of *brc1Δ*, though by themselves are not sensitive to MMS.

