SUPPLEMENTARY MATERIALS

Repair mechanism	DNA damaging agent	Relevant processing enzyme/chemical inhibitor	Relevant genetic variants
BER	H ₂ O ₂	Fpg (NEB)	Polβ ^{-/-} , Ogg1 ^{-/-}
BER	MMS	hAAG (NEB)	$Pol\beta^{-/-}$, $Aag^{-/-}$, $AagTg$
NER	UV	T4 endoV (NEB)	XPG ^{-/-} ,
NHEJ	IR	Scr7	DNA-PKcs mutant

Table S1. Repair pathways, DNA damaging agents, and relevant processing enzymes explored in this study.