

Table SIV: DEGs involved in the oxidative generation and repair of DSBs

Symbol	Function	Reference
<i>GSTM2</i>	ROS detoxification, glutathione metabolism	[26]
<i>NOX4</i>	Production of ROS	[27]
<i>PTGS2</i>	Peroxidase activity	[28]
<i>SMAD3</i>	oxidative stress response/TGFB-mediated growth inhibition	[29]
<i>BRCA1</i>	oxidative stress response/TGFB-mediated growth inhibition; Activation of base-excision repair/homologous recombination repair	[29], [31]
<i>CLSPN</i>	Stabilisation of the replication fork	[30]
<i>TIPIN</i>	Stabilisation of the replication fork	[30]
<i>CDC45L</i>	New DNA synthesis during DNA repair	[32]
<i>MCM10</i>	New DNA synthesis during DNA repair	[33]
<i>GINS1</i>	New DNA synthesis during DNA repair	[32]