Julie K Horton

List of Publications by Year
in descending order

35 papers	1,910 citations	304743 22 h-index	361022 35 g-index
37 all docs	37 docs citations	37 times ranked	1987 citing authors

#	Article	IF	Citations
1	The lyase activity of the DNA repair protein Î²-polymerase protects from DNA-damage-induced cytotoxicity. Nature, 2000, 405, 807-810.	27.8	316
2	XRCC1 and DNA polymerase Î² in cellular protection against cytotoxic DNA single-strand breaks. Cell Research, 2008, 18, 48-63.	12.0	190
3	HMGB1 Is a Cofactor in Mammalian Base Excision Repair. Molecular Cell, 2007, 27, 829-841.	9.7	141
4	Eukaryotic Base Excision Repair: New Approaches Shine Light on Mechanism. Annual Review of Biochemistry, 2019, 88, 137-162.	11.1	123
5	Coordination between Polymerase Î² and FEN1 Can Modulate CAG Repeat Expansion. Journal of Biological Chemistry, 2009, 284, 28352-28366.	3.4	100
6	Hypersensitivity of DNA polymerase Î² null mouse fibroblasts reflects accumulation of cytotoxic repair intermediates from site-specific alkyl DNA lesions. DNA Repair, 2003, 2, 27-48.	2.8	88
7	Suicidal cross-linking of PARP-1 to AP site intermediates in cells undergoing base excision repair. Nucleic Acids Research, 2014, 42, 6337-6351.	14.5	81
8	Involvement of DNA polymerase Î² in protection against the cytotoxicity of oxidative DNA damage. DNA Repair, 2002, 1, 317-333.	2.8	73
9	Base Excision Repair Defects Invoke Hypersensitivity to PARP Inhibition. Molecular Cancer Research, 2014, 12, 1128-1139.	3.4	68
10	Increased PARP-1 Association with DNA in Alkylation Damaged, PARP-Inhibited Mouse Fibroblasts. Molecular Cancer Research, 2012, 10, 360-368.	3.4	61
11	Poly(ADP-ribose) Polymerase Activity Prevents Signaling Pathways for Cell Cycle Arrest after DNA Methylating Agent Exposure. Journal of Biological Chemistry, 2005, 280, 15773-15785.	3.4	57
12	Hypersensitivity phenotypes associated with genetic and synthetic inhibitor-induced base excision repair deficiency. DNA Repair, 2007, 6, 530-543.	2.8	54
13	Oxidized nucleotide insertion by pol Î² confounds ligation during base excision repair. Nature Communications, 2017, 8, 14045.	12.8	53
14	Bisphenol A Promotes Cell Survival Following Oxidative DNA Damage in Mouse Fibroblasts. PLoS ONE, 2015, 10, e0118819.	2.5	49
15	Predicting Enhanced Cell Killing through PARP Inhibition. Molecular Cancer Research, 2013, 11, 13-18.	3.4	48
16	DNA polymerase Î²: A missing link of the base excision repair machinery in mammalian mitochondria. DNA Repair, 2017, 60, 77-88.	2.8	48
17	Repair pathway for PARP-1 DNA-protein crosslinks. DNA Repair, 2019, 73, 71-77.	2.8	43
18	Preventing oxidation of cellular XRCC1 affects PARP-mediated DNA damage responses. DNA Repair, 2013, 12, 774-785.	2.8	40

#	Article	IF	Citations
19	Strategic Combination of DNA-Damaging Agent and PARP Inhibitor Results in Enhanced Cytotoxicity. Frontiers in Oncology, 2013, 3, 257.	2.8	30
20	Complementation of aprataxin deficiency by base excision repair enzymes. Nucleic Acids Research, 2015, 43, 2271-2281.	14.5	30
21	Involvement of poly(ADP-ribose) polymerase activity in regulating Chk1-dependent apoptotic cell death. DNA Repair, 2005, 4, 1111-1120.	2.8	29
22	ATR signaling mediates an S-phase checkpoint after inhibition of poly(ADP-ribose) polymerase activity. DNA Repair, 2007, 6, 742-750.	2.8	23
23	DNA polymerase Î²-dependent cell survival independent of XRCC1 expression. DNA Repair, 2015, 26, 23-29.	2.8	20
24	Role of the oxidized form of XRCC1 in protection against extreme oxidative stress. Free Radical Biology and Medicine, 2017, 107, 292-300.	2.9	18
25	Mitochondrial dysfunction and DNA damage accompany enhanced levels of formaldehyde in cultured primary human fibroblasts. Scientific Reports, 2020, 10, 5575.	3.3	18
26	Oxidative DNA Damage Modulates DNA Methylation Pattern in Human Breast Cancer 1 (BRCA1) Gene via the Crosstalk between DNA Polymerase Î² and a de novo DNA Methyltransferase. Cells, 2020, 9, 225.	4.1	18
27	DNA polymerase Î² contains a functional nuclear localization signal at its N-terminus. Nucleic Acids Research, 2017, 45, 1958-1970.	14.5	13
28	XRCC1 phosphorylation affects aprataxin recruitment and DNA deadenylation activity. DNA Repair, 2018, 64, 26-33.	2.8	13
29	XRCC1-mediated repair of strand breaks independent of PNKP binding. DNA Repair, 2017, 60, 52-63.	2.8	12
30	Histone H3 Lysine 56 Acetylation Enhances AP Endonuclease 1-Mediated Repair of AP Sites in Nucleosome Core Particles. Biochemistry, 2019, 58, 3646-3655.	2.5	12
31	Requirements for PARP-1 covalent crosslinking to DNA (PARP-1 DPC). DNA Repair, 2020, 90, 102850.	2.8	12
32	Shining light on the response to repair intermediates in DNA of living cells. DNA Repair, 2020, 85, 102749.	2.8	9
33	Lysines in the lyase active site of DNA polymerase Î² destabilize nonspecific DNA binding, facilitating searching and DNA gap recognition. Journal of Biological Chemistry, 2020, 295, 12181-12187.	3.4	9
34	Requirement for NBS1 in the S phase checkpoint response to DNA methylation combined with PARP inhibition. DNA Repair, 2011, 10, 225-234.	2.8	8
35	Enzymatic Activity Assays for Base Excision Repair Enzymes in Cell Extracts from Vertebrate Cells. Bio-protocol, 2015, 5, .	0.4	0