Rajendra Prasad

List of Publications by Year
in descending order

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37 papers	2,806 citations	257450 24 h-index	315739 38 g-index
39 all docs	39 docs citations	39 times ranked	2217 citing authors

#	Article	IF	Citations
1	Mammalian Abasic Site Base Excision Repair. Journal of Biological Chemistry, 1998, 273, 21203-21209.	3.4	339
2	The lyase activity of the DNA repair protein Î²-polymerase protects from DNA-damage-induced cytotoxicity. Nature, 2000, 405, 807-810.	27.8	316
3	FEN1 Stimulation of DNA Polymerase Î² Mediates an Excision Step in Mammalian Long Patch Base Excision Repair. Journal of Biological Chemistry, 2000, 275, 4460-4466.	3.4	187
4	5'-Deoxyribose Phosphate Lyase Activity of Human DNA Polymerase &igr; in Vitro. Science, 2001, 291, 2156-2159.	12.6	187
5	HMGB1 Is a Cofactor in Mammalian Base Excision Repair. Molecular Cell, 2007, 27, 829-841.	9.7	141
6	DNA Polymerase Î² and Flap Endonuclease 1 Enzymatic Specificities Sustain DNA Synthesis for Long Patch Base Excision Repair. Journal of Biological Chemistry, 2005, 280, 3665-3674.	3.4	131
7	Substrate Channeling in Mammalian Base Excision Repair Pathways: Passing the Baton. Journal of Biological Chemistry, 2010, 285, 40479-40488.	3.4	129
8	Eukaryotic Base Excision Repair: New Approaches Shine Light on Mechanism. Annual Review of Biochemistry, 2019, 88, 137-162.	11.1	123
9	Stimulation of NEIL2-mediated Oxidized Base Excision Repair via YB-1 Interaction during Oxidative Stress. Journal of Biological Chemistry, 2007, 282, 28474-28484.	3.4	121
10	Coordination between Polymerase Î² and FEN1 Can Modulate CAG Repeat Expansion. Journal of Biological Chemistry, 2009, 284, 28352-28366.	3.4	100
11	Human DNA polymerase Â possesses 5'-dRP lyase activity and functions in single-nucleotide base excision repair in vitro. Nucleic Acids Research, 2009, 37, 1868-1877.	14.5	92
12	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
13	Structural insight into the DNA polymerase Î² deoxyribose phosphate lyase mechanism. DNA Repair, 2005, 4, 1347-1357.	2.8	71
14	PARP1 changes from three-dimensional DNA damage searching to one-dimensional diffusion after auto-PARylation or in the presence of APE1. Nucleic Acids Research, 2017, 45, 12834-12847.	14.5	71
15	Base Excision Repair Defects Invoke Hypersensitivity to PARP Inhibition. Molecular Cancer Research, 2014, 12, 1128-1139.	3.4	68
16	Localization of the Deoxyribose Phosphate Lyase Active Site in Human DNA Polymerase Î¹ by Controlled Proteolysis. Journal of Biological Chemistry, 2003, 278, 29649-29654.	3.4	65
17	Damage sensor role of UV-DDB during base excision repair. Nature Structural and Molecular Biology, 2019, 26, 695-703.	8.2	64
18	Pol Î² associated complex and base excision repair factors in mouse fibroblasts. Nucleic Acids Research, 2012, 40, 11571-11582.	14.5	54

#	Article	IF	Citations
19	DNA polymerase Î²: A missing link of the base excision repair machinery in mammalian mitochondria. DNA Repair, 2017, 60, 77-88.	2.8	48
20	DNA polymerase Î²-dependent long patch base excision repair in living cells. DNA Repair, 2010, 9, 109-119.	2.8	45
21	Role of polymerase Î² in complementing aprataxin deficiency during abasic-site base excision repair. Nature Structural and Molecular Biology, 2014, 21, 497-499.	8.2	43
22	Repair pathway for PARP-1 DNA-protein crosslinks. DNA Repair, 2019, 73, 71-77.	2.8	43
23	Mammalian Base Excision Repair: Functional Partnership between PARP-1 and APE1 in AP-Site Repair. PLoS ONE, 2015, 10, e0124269.	2.5	42
24	Complementation of aprataxin deficiency by base excision repair enzymes. Nucleic Acids Research, 2015, 43, 2271-2281.	14.5	30
25	RNA abasic sites in yeast and human cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20689-20695.	7.1	27
26	Substrate-induced DNA Polymerase Î² Activation. Journal of Biological Chemistry, 2014, 289, 31411-31422.	3.4	25
27	Complementation of aprataxin deficiency by base excision repair enzymes in mitochondrial extracts. Nucleic Acids Research, 2017, 45, 10079-10088.	14.5	24
28	Comparative assessment of plasmid and oligonucleotide DNA substrates in measurement of in vitro base excision repair activity. Nucleic Acids Research, 2007, 35, e112-e112.	14.5	22
29	Unencumbered Pol Î² lyase activity in nucleosome core particles. Nucleic Acids Research, 2017, 45, 8901-8915.	14.5	20
30	Mitochondrial dysfunction and DNA damage accompany enhanced levels of formaldehyde in cultured primary human fibroblasts. Scientific Reports, 2020, 10, 5575.	3.3	18
31	Topoisomerase I-driven repair of UV-induced damage in NER-deficient cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14412-14420.	7.1	16
32	Rev1 is a base excision repair enzyme with 5â€²-deoxyribose phosphate lyase activity. Nucleic Acids Research, 2016, 44, 10824-10833.	14.5	13
33	XRCC1 phosphorylation affects aprataxin recruitment and DNA deadenylation activity. DNA Repair, 2018, 64, 26-33.	2.8	13
34	Requirements for PARP-1 covalent crosslinking to DNA (PARP-1 DPC). DNA Repair, 2020, 90, 102850.	2.8	12
35	Perspectives on formaldehyde dysregulation: Mitochondrial DNA damage and repair in mammalian cells. DNA Repair, 2021, 105, 103134.	2.8	11
36	Shining light on the response to repair intermediates in DNA of living cells. DNA Repair, 2020, 85, 102749.	2.8	9

#	Article	IF	Citations
37	The Pol Î² variant containing exon Î± is deficient in DNA polymerase but has full dRP lyase activity. Scientific Reports, 2019, 9, 9928.	3.3	2