Samuel H Wilson

List of Publications by Year
in descending order

464 papers	28,857 citations	3334 91 h-index	8866 145 g-index
476 all docs	476 docs citations	476 times ranked	12054 citing authors

#	Article	IF	Citations
1	Watching right and wrong nucleotide insertion captures hidden polymerase fidelity checkpoints. Nature Communications, 2022, 13, .	12.8	4
2	Monitoring DNA polymerase Î² mitochondrial localization and dynamics. DNA Repair, 2022, 116, 103357.	2.8	2
3	Watching a double strand break repair polymerase insert a pro-mutagenic oxidized nucleotide. Nature Communications, 2021, 12, 2059.	12.8	11
4	Structural basis for proficient oxidized ribonucleotide insertion in double strand break repair. Nature Communications, 2021, 12, 5055.	12.8	10
5	Genomic and evolutionary classification of lung cancer in never smokers. Nature Genetics, 2021, 53, 1348-1359.	21.4	81
6	Perspectives on formaldehyde dysregulation: Mitochondrial DNA damage and repair in mammalian cells. DNA Repair, 2021, 105, 103134.	2.8	11
7	Oxidative DNA-protein crosslinks formed in mammalian cells by abasic site lyases involved in DNA repair. DNA Repair, 2020, 87, 102773.	2.8	26
8	Shining light on the response to repair intermediates in DNA of living cells. DNA Repair, 2020, 85, 102749.	2.8	9
9	DNA polymerase Î² nucleotide-stabilized template misalignment fidelity depends on local sequence context. Journal of Biological Chemistry, 2020, 295, 529-538.	3.4	3
10	Structure of a DNA polymerase abortive complex with the 8OG:dA base pair at the primer terminus. Communications Biology, 2020, 3, 348.	4.4	2
11	Using Human Primary Foreskin Fibroblasts to Study Cellular Damage and Mitochondrial Dysfunction. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2020, 86, e99.	1.1	4
12	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
13	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
14	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
15	Mitochondrial dysfunction and DNA damage accompany enhanced levels of formaldehyde in cultured primary human fibroblasts. Scientific Reports, 2020, 10, 5575.	3.3	18
16	Revealing an Internal Stabilization Deficiency in the DNA Polymerase Î² K289M Cancer Variant through the Combined Use of Chemical Biology and X-ray Crystallography. Biochemistry, 2020, 59, 955-963.	2.5	0
17	Preferential DNA Polymerase Î² Reverse Reaction with Imidodiphosphate. ACS Omega, 2020, 5, 15317-15324.	3.5	0
18	Pregnancy in sickle cell trait: what we do and donâ€™t know. British Journal of Haematology, 2020, 190, 328-335.	2.5	12

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19	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
20	Requirements for PARP-1 covalent crosslinking to DNA (PARP-1 DPC). DNA Repair, 2020, 90, 102850.	2.8	12
21	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
22	Damage sensor role of UV-DDB during base excision repair. Nature Structural and Molecular Biology, 2019, 26, 695-703.	8.2	64
23	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
24	DNA polymerase beta and other gap-filling enzymes in mammalian base excision repair. The Enzymes, 2019, 45, 1-26.	1.7	22
25	A guardian residue hinders insertion of a Fapyâ€¢dGTP analog by modulating the open-closed DNA polymerase transition. Nucleic Acids Research, 2019, 47, 3197-3207.	14.5	8
26	Eukaryotic Base Excision Repair: New Approaches Shine Light on Mechanism. Annual Review of Biochemistry, 2019, 88, 137-162.	11.1	123
27	A Transition-State Perspective on Y-Family DNA Polymerase Î· Fidelity in Comparison with X-Family DNA Polymerases Î» and Î². Biochemistry, 2019, 58, 1764-1773.	2.5	10
28	Molecular basis for the faithful replication of 5-methylcytosine and its oxidized forms by DNA polymerase Î². Journal of Biological Chemistry, 2019, 294, 7194-7201.	3.4	10
29	Repair pathway for PARP-1 DNA-protein crosslinks. DNA Repair, 2019, 73, 71-77.	2.8	43
30	XRCC1 phosphorylation affects aprataxin recruitment and DNA deadenylation activity. DNA Repair, 2018, 64, 26-33.	2.8	13
31	Transcriptional mutagenesis mediated by 8-oxoG induces translational errors in mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4218-4222.	7.1	56
32	Cutting-edge perspectives in genomic maintenance V. DNA Repair, 2018, 71, 1-2.	2.8	0
33	Pol Î¼ dGTP mismatch insertion opposite T coupled with ligation reveals promutagenic DNA repair intermediate. Nature Communications, 2018, 9, 4213.	12.8	20
34	DNA scanning by base excision repair enzymes and implications for pathway coordination. DNA Repair, 2018, 71, 101-107.	2.8	33
35	Transitions in DNA polymerase Î² Î¼s-ms dynamics related to substrate binding and catalysis. Nucleic Acids Research, 2018, 46, 7309-7322.	14.5	3
36	Mapping Functional Substrateâ€“Enzyme Interactions in the pol Î² Active Site through Chemical Biology: Structural Responses to Acidity Modification of Incoming dNTPs. Biochemistry, 2018, 57, 3934-3944.	2.5	11

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37	Probing DNA Base-Dependent Leaving Group Kinetic Effects on the DNA Polymerase Transition State. Biochemistry, 2018, 57, 3925-3933.	2.5	18
38	Oxidized nucleotide insertion by pol Î² confounds ligation during base excision repair. Nature Communications, 2017, 8, 14045.	12.8	53
39	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
40	DNA polymerase Î² uses its lyase domain in a processive search for DNA damage. Nucleic Acids Research, 2017, 45, gkx047.	14.5	21
41	Hiding in Plain Sight: The Bimetallic Magnesium Covalent Bond in Enzyme Active Sites. Inorganic Chemistry, 2017, 56, 313-320.	4.0	10
42	Time-lapse crystallography snapshots of a double-strand break repair polymerase in action. Nature Communications, 2017, 8, 253.	12.8	54
43	Processive searching ability varies among members of the gap-filling DNA polymerase X family. Journal of Biological Chemistry, 2017, 292, 17473-17481.	3.4	10
44	Central Steps in Mammalian BER and Regulation by PARP1. , 2017, , 253-280.		2
45	XRCC1-mediated repair of strand breaks independent of PNKP binding. DNA Repair, 2017, 60, 52-63.	2.8	12
46	Cutting-edge perspectives in genomic maintenance IV. DNA Repair, 2017, 56, 1-3.	2.8	0
47	Modulating the DNA polymerase Î² reaction equilibrium to dissect the reverse reaction. Nature Chemical Biology, 2017, 13, 1074-1080.	8.0	24
48	DNA polymerase Î²: A missing link of the base excision repair machinery in mammalian mitochondria. DNA Repair, 2017, 60, 77-88.	2.8	48
49	Complementation of aprataxin deficiency by base excision repair enzymes in mitochondrial extracts. Nucleic Acids Research, 2017, 45, 10079-10088.	14.5	24
50	Role of DNA polymerase Î² oxidized nucleotide insertion in DNA ligation failure. Journal of Radiation Research, 2017, 58, 603-607.	1.6	13
51	Revealing the role of the product metal in DNA polymerase Î² catalysis. Nucleic Acids Research, 2017, 45, gkw1363.	14.5	27
52	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
53	DNA polymerase Î² contains a functional nuclear localization signal at its N-terminus. Nucleic Acids Research, 2017, 45, 1958-1970.	14.5	13
54	Unencumbered Pol Î² lyase activity in nucleosome core particles. Nucleic Acids Research, 2017, 45, 8901-8915.	14.5	20

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55	In vitro Assay to Measure DNA Polymerase Î² Nucleotide Insertion Coupled with the DNA Ligation Reaction during Base Excision Repair. Bio-protocol, 2017, 7, .	0.4	2
56	Combined Effects of High-Dose Bisphenol A and Oxidizing Agent (KBrO ₃) on Cellular Microenvironment, Gene Expression, and Chromatin Structure of Ku70-deficient Mouse Embryonic Fibroblasts. Environmental Health Perspectives, 2016, 124, 1241-1252.	6.0	20
57	Editorial. DNA Repair, 2016, 37, A1.	2.8	0
58	Oxidized dNTPs and the OGG1 and MUTYH DNA glycosylases combine to induce CAG/CTG repeat instability. Nucleic Acids Research, 2016, 44, 5190-5203.	14.5	20
59	Cutting-edge Perspectives in Genomic Maintenance III: Preface. DNA Repair, 2016, 44, 1-3.	2.8	4
60	Rev1 is a base excision repair enzyme with 5â€²-deoxyribose phosphate lyase activity. Nucleic Acids Research, 2016, 44, 10824-10833.	14.5	13
61	Structures of DNA Polymerase Mispaired DNA Termini Transitioning to Pre-catalytic Complexes Support an Induced-Fit Fidelity Mechanism. Structure, 2016, 24, 1863-1875.	3.3	30
62	Impact of Ribonucleotide Backbone on Translesion Synthesis and Repair of 7,8-Dihydro-8-oxoguanine. Journal of Biological Chemistry, 2016, 291, 24314-24323.	3.4	21
63	Insertion of oxidized nucleotide triggers rapid DNA polymerase opening. Nucleic Acids Research, 2016, 44, 4409-4424.	14.5	8
64	Nuclear Localization of the DNA Repair Scaffold XRCC1: Uncovering the Functional Role of a Bipartite NLS. Scientific Reports, 2015, 5, 13405.	3.3	30
65	Editorial. DNA Repair, 2015, 35, v.	2.8	1
66	Mammalian Base Excision Repair: Functional Partnership between PARP-1 and APE1 in AP-Site Repair. PLoS ONE, 2015, 10, e0124269.	2.5	42
67	Bisphenol A Promotes Cell Survival Following Oxidative DNA Damage in Mouse Fibroblasts. PLoS ONE, 2015, 10, e0118819.	2.5	49
68	Two Scaffolds from Two Flips: (Î±,Î²)/(Î²,Î³) CH₂/NH â€œMet-Imâ€• Analogues of dTTP. Organic Letters, 2015, 17, 2586-2589.	4.6	10
69	Micro-irradiation tools to visualize base excision repair and single-strand break repair. DNA Repair, 2015, 31, 52-63.	2.8	48
70	Structures of human DNA polymerases Î½ and Î¸ expose their end game. Nature Structural and Molecular Biology, 2015, 22, 273-275.	8.2	5
71	New structural snapshots provide molecular insights into the mechanism of high fidelity DNA synthesis. DNA Repair, 2015, 32, 3-9.	2.8	15
72	Reprint of â€œOxidant and environmental toxicant-induced effects compromise DNA ligation during base excision DNA repairâ€• DNA Repair, 2015, 36, 86-90.	2.8	4

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73	DNA polymerase Î²-dependent cell survival independent of XRCC1 expression. DNA Repair, 2015, 26, 23-29.	2.8	20
74	Intrinsic mutagenic properties of 5-chlorocytosine: A mechanistic connection between chronic inflammation and cancer. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4571-80.	7.1	67
75	Complementation of aprataxin deficiency by base excision repair enzymes. Nucleic Acids Research, 2015, 43, 2271-2281.	14.5	30
76	Capturing snapshots of APE1 processing DNA damage. Nature Structural and Molecular Biology, 2015, 22, 924-931.	8.2	124
77	Requirement for transient metal ions revealed through computational analysis for DNA polymerase going in reverse. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5228-36.	7.1	49
78	Oxidant and environmental toxicant-induced effects compromise DNA ligation during base excision DNA repair. DNA Repair, 2015, 35, 85-89.	2.8	36
79	Preface. DNA Repair, 2015, 32, 1-2.	2.8	1
80	Uncovering the polymerase-induced cytotoxicity of an oxidized nucleotide. Nature, 2015, 517, 635-639.	27.8	133
81	Enzymatic Activity Assays for Base Excision Repair Enzymes in Cell Extracts from Vertebrate Cells. Bio-protocol, 2015, 5, .	0.4	0
82	Watching a DNA polymerase in action. Cell Cycle, 2014, 13, 691-692.	2.6	8
83	Applications of Quantum Mechanical/Molecular Mechanical Methods to the Chemical Insertion Step of DNA and RNA Polymerization. Advances in Protein Chemistry and Structural Biology, 2014, 97, 83-113.	2.3	5
84	Optimal and Variant Metal-Ion Routes in DNA Polymerase Î²â€™s Conformational Pathways. Journal of the American Chemical Society, 2014, 136, 3630-3639.	13.7	11
85	Transition State in DNA Polymerase Î² Catalysis: Rate-Limiting Chemistry Altered by Base-Pair Configuration. Biochemistry, 2014, 53, 1842-1848.	2.5	29
86	Base Excision Repair Defects Invoke Hypersensitivity to PARP Inhibition. Molecular Cancer Research, 2014, 12, 1128-1139.	3.4	68
87	Structure and Mechanism of DNA Polymerase Î². Biochemistry, 2014, 53, 2768-2780.	2.5	115
88	Base Excision Repair of Tandem Modifications in a Methylated CpG Dinucleotide. Journal of Biological Chemistry, 2014, 289, 13996-14008.	3.4	25
89	Structural Comparison of DNA Polymerase Architecture Suggests a Nucleotide Gateway to the Polymerase Active Site. Chemical Reviews, 2014, 114, 2759-2774.	47.7	41
90	Substrate-induced DNA Polymerase Î² Activation. Journal of Biological Chemistry, 2014, 289, 31411-31422.	3.4	25

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91	Substrate Rescue of DNA Polymerase Î² Containing a Catastrophic L22P Mutation. Biochemistry, 2014, 53, 2413-2422.	2.5	12
92	Reflections on the Superfund Research Program: A tribute to its Founding Director, William A. Suk. DNA Repair, 2014, 22, v-viii.	2.8	3
93	Phylogenetic analysis and evolutionary origins of DNA polymerase X-family members. DNA Repair, 2014, 22, 77-88.	2.8	25
94	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
95	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
96	Preface. DNA Repair, 2014, 19, 1-2.	2.8	1
97	Enzymatic Activity Assays in Yeast Cell Extracts. Bio-protocol, 2014, 4, .	0.4	8
98	The dark side of DNA repair. ELife, 2014, 3, e03068.	6.0	5
99	Understanding base lesion DNA repair (477.2). FASEB Journal, 2014, 28, 477.2.	0.5	0
100	Enzymatic Activity Assays in Yeast Cell Extracts. Bio-protocol, 2014, 4, .	0.4	2
101	Designing a spatially aware and autonomous quadcopter. , 2013, , .		17
102	Preventing oxidation of cellular XRCC1 affects PARP-mediated DNA damage responses. DNA Repair, 2013, 12, 774-785.	2.8	40
103	Predicting Enhanced Cell Killing through PARP Inhibition. Molecular Cancer Research, 2013, 11, 13-18.	3.4	48
104	Amino Acid Substitution in the Active Site of DNA Polymerase Î² Explains the Energy Barrier of the Nucleotidyl Transfer Reaction. Journal of the American Chemical Society, 2013, 135, 8078-8088.	13.7	40
105	Observing a DNA Polymerase Choose Right from Wrong. Cell, 2013, 154, 157-168.	28.9	186
106	Strategic Combination of DNA-Damaging Agent and PARP Inhibitor Results in Enhanced Cytotoxicity. Frontiers in Oncology, 2013, 3, 257.	2.8	30
107	DNA polymerase minor groove interactions modulate mutagenic bypass of a templating 8-oxoguanine lesion. Nucleic Acids Research, 2013, 41, 1848-1858.	14.5	39
108	Identification of one of the apurinic/apyrimidinic lyase active sites of topoisomerase V by structural and functional studies. Nucleic Acids Research, 2013, 41, 657-666.	14.5	8

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109	Insights into the Conformation of Aminofluorene-Deoxyguanine Adduct in a DNA Polymerase Active Site. Journal of Biological Chemistry, 2013, 288, 23573-23585.	3.4	6
110	Steady-state, Pre-steady-state, and Single-turnover Kinetic Measurement for DNA Glycosylase Activity. Journal of Visualized Experiments, 2013, , e50695.	0.3	19
111	Understanding the loss-of-function in a triple missense mutant of DNA polymerase Î² found in prostate cancer. International Journal of Oncology, 2013, 43, 1131-1140.	3.3	2
112	Interaction between DNA Polymerase Î² and BRCA1. PLoS ONE, 2013, 8, e66801.	2.5	13
113	Inhibition of HIV-1 Reverse Transcriptase-Catalyzed Synthesis by Intercalated DNA Benzo[a]Pyrene 7,8-Dihydrodiol-9,10-Epoxide Adducts. PLoS ONE, 2013, 8, e72131.	2.5	0
114	Pol Î² associated complex and base excision repair factors in mouse fibroblasts. Nucleic Acids Research, 2012, 40, 11571-11582.	14.5	54
115	Single-nucleotide base excision repair DNA polymerase activity in C. elegans in the absence of DNA polymerase Â. Nucleic Acids Research, 2012, 40, 670-681.	14.5	24
116	Increased PARP-1 Association with DNA in Alkylation Damaged, PARP-Inhibited Mouse Fibroblasts. Molecular Cancer Research, 2012, 10, 360-368.	3.4	61
117	Binary complex crystal structure of DNA polymerase Î² reveals multiple conformations of the templating 8-oxoguanine lesion. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 113-118.	7.1	80
118	HMGN1 Protein Regulates Poly(ADP-ribose) Polymerase-1 (PARP-1) Self-PARylation in Mouse Fibroblasts. Journal of Biological Chemistry, 2012, 287, 27648-27658.	3.4	39
119	Metal-induced DNA translocation leads to DNA polymerase conformational activation. Nucleic Acids Research, 2012, 40, 2974-2983.	14.5	30
120	DNA Sequence Context Effects on the Glycosylase Activity of Human 8-Oxoguanine DNA Glycosylase. Journal of Biological Chemistry, 2012, 287, 36702-36710.	3.4	43
121	DNA Polymerase Î² Gap-Filling Translesion DNA Synthesis. Chemical Research in Toxicology, 2012, 25, 2744-2754.	3.3	16
122	Structures of dNTP Intermediate States during DNA Polymerase Active Site Assembly. Structure, 2012, 20, 1829-1837.	3.3	44
123	Effect of Î²,Î³-CHF- and Î²,Î³-CHCl-dGTP Halogen Atom Stereochemistry on the Transition State of DNA Polymerase Î². Biochemistry, 2012, 51, 8491-8501.	2.5	17
124	Perspective: pre-chemistry conformational changes in DNA polymerase mechanisms. Theoretical Chemistry Accounts, 2012, 131, 1287.	1.4	34
125	Hyperactivation of PARP Triggers Nonhomologous End-Joining in Repair-Deficient Mouse Fibroblasts. PLoS ONE, 2012, 7, e49301.	2.5	26
126	Î²,Î³-CHF- and Î²,Î³-CHCl-dGTP Diastereomers: Synthesis, Discrete ³¹PÂNMR Signatures, and Absolute Configurations of New Stereochemical Probes for DNA Polymerases. Journal of the American Chemical Society, 2012, 134, 8734-8737.	13.7	31

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127	DNA base excision repair: a mechanism of trinucleotide repeat expansion. Trends in Biochemical Sciences, 2012, 37, 162-172.	7.5	99
128	Stereospecific Formation of a Ternary Complex of (<i>S</i>)â€Î±,Î²â€Fluoromethyleneâ€dATP with DNA Pol Î². ChemBioChem, 2012, 13, 528-530.	2.6	26
129	Evidence for Abasic Site Sugar Phosphate-Mediated Cytotoxicity in Alkylating Agent Treated Saccharomyces cerevisiae. PLoS ONE, 2012, 7, e47945.	2.5	5
130	A review of recent experiments on step-to-step â€œhand-offâ€•of the DNA intermediates in mammalian base excision repair pathways. Molecular Biology, 2011, 45, 536-550.	1.3	46
131	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
132	Molecular Insights into DNA Polymerase Deterrents for Ribonucleotide Insertion. Journal of Biological Chemistry, 2011, 286, 31650-31660.	3.4	45
133	Base-Excision Repair: Role of DNA Polymerase Î² in Late-Stage Base Excision Repair. , 2011, , 297-319.		3
134	Lucanthone and Its Derivative Hycanthone Inhibit Apurinic Endonuclease-1 (APE1) by Direct Protein Binding. PLoS ONE, 2011, 6, e23679.	2.5	45
135	Base excision repair and design of small molecule inhibitors of human DNA polymerase Î². Cellular and Molecular Life Sciences, 2010, 67, 3633-3647.	5.4	36
136	Mutagenesis dependent upon the combination of activation-induced deaminase expression and a double-strand break. Molecular Immunology, 2010, 48, 164-170.	2.2	8
137	DNA polymerase Î²-dependent long patch base excision repair in living cells. DNA Repair, 2010, 9, 109-119.	2.8	45
138	Alkylation DNA damage in combination with PARP inhibition results in formation of S-phase-dependent double-strand breaks. DNA Repair, 2010, 9, 929-936.	2.8	47
139	Mutagenic conformation of 8-oxo-7,8-dihydro-2â€²-dGTP in the confines of a DNA polymerase active site. Nature Structural and Molecular Biology, 2010, 17, 889-890.	8.2	52
140	Substrate Channeling in Mammalian Base Excision Repair Pathways: Passing the Baton. Journal of Biological Chemistry, 2010, 285, 40479-40488.	3.4	129
141	DNA Polymerase Î² Ribonucleotide Discrimination. Journal of Biological Chemistry, 2010, 285, 24457-24465.	3.4	64
142	Apurinic/apyrimidinic (AP) site recognition by the 5â€²-dRP/AP lyase in poly(ADP-ribose) polymerase-1 (PARP-1). Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22090-22095.	7.1	141
143	FEN1 Functions in Long Patch Base Excision Repair Under Conditions of Oxidative Stress in Vertebrate Cells. Molecular Cancer Research, 2010, 8, 204-215.	3.4	32
144	Synthesis and biological evaluation of fluorinated deoxynucleotide analogs based on bis-(difluoromethylene)triphosphoric acid. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15693-15698.	7.1	44

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145	DNA polymerase structure-based insight on the mutagenic properties of 8-oxoguanine. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2010, 703, 18-23.	1.7	79
146	HMGB1: Roles in base excision repair and related function. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2010, 1799, 119-130.	1.9	98
147	Halogenated Î²,Î³-Methylene- and Ethylidene-dGTP-DNA Ternary Complexes with DNA Polymerase Î²: Structural Evidence for Stereospecific Binding of the Fluoromethylene Analogues. Journal of the American Chemical Society, 2010, 132, 7617-7625.	13.7	48
148	DNA Polymerases Î² and Î» Mediate Overlapping and Independent Roles in Base Excision Repair in Mouse Embryonic Fibroblasts. PLoS ONE, 2010, 5, e12229.	2.5	73
149	NMR study of the effect of Zn on conformational activation of rat DNA polymerase Î². FASEB Journal, 2010, 24, 876.6.	0.5	0
150	Gastrointestinal Hyperplasia with Altered Expression of DNA Polymerase Î². PLoS ONE, 2009, 4, e6493.	2.5	19
151	Coordination between Polymerase Î² and FEN1 Can Modulate CAG Repeat Expansion. Journal of Biological Chemistry, 2009, 284, 28352-28366.	3.4	100
152	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
153	DNA Polymerase Î² Substrate Specificity. Journal of Biological Chemistry, 2009, 284, 31680-31689.	3.4	60
154	A real-time fluorescence method for enzymatic characterization of specialized human DNA polymerases. Nucleic Acids Research, 2009, 37, e128-e128.	14.5	53
155	Characterization of DNA polymerase Î² splicing variants in gastric cancer: The most frequent exon 2-deleted isoform is a non-coding RNA. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2009, 670, 79-87.	1.0	5
156	PARP inhibition during alkylation-induced genotoxic stress signals a cell cycle checkpoint response mediated by ATM. DNA Repair, 2009, 8, 1264-1272.	2.8	22
157	DNA polymerase Î² and PARP activities in base excision repair in living cells. DNA Repair, 2009, 8, 1290-1299.	2.8	37
158	Î±,Î²-Difluoromethylene Deoxynucleoside 5â€²-Triphosphates: A Convenient Synthesis of Useful Probes for DNA Polymerase Î² Structure and Function. Organic Letters, 2009, 11, 1883-1886.	4.6	43
159	Exploring the role of large conformational changes in the fidelity of DNA polymerase Î². Proteins: Structure, Function and Bioinformatics, 2008, 70, 231-247.	2.6	42
160	DNA Polymerase Î² Fidelity:â€‰ Halomethylene-Modified Leaving Groups in Pre-Steady-State Kinetic Analysis Reveal Differences at the Chemical Transition State. Biochemistry, 2008, 47, 870-879.	2.5	79
161	XRCC1 and DNA polymerase Î² in cellular protection against cytotoxic DNA single-strand breaks. Cell Research, 2008, 18, 48-63.	12.0	190
162	Negligible impact of pol Î¹ expression on the alkylation sensitivity of pol Î²-deficient mouse fibroblast cells. DNA Repair, 2008, 7, 830-833.	2.8	8

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163	Interaction between PARP-1 and ATR in mouse fibroblasts is blocked by PARP inhibition. DNA Repair, 2008, 7, 1787-1798.	2.8	35
164	Î±,Î²-Methylene-2â€²-deoxynucleoside 5â€²-Triphosphates as Noncleavable Substrates for DNA Polymerases: Isolation, Characterization, and Stability Studies of Novel 2â€²-Deoxycyclonucleosides, 3,5â€²-Cyclo-dG, and 2,5â€²-Cyclo-dT. Journal of Medicinal Chemistry, 2008, 51, 6460-6470.	6.4	15
165	Structures of DNA Polymerase Î² with Active-Site Mismatches Suggest a Transient Abasic Site Intermediate during Misincorporation. Molecular Cell, 2008, 30, 315-324.	9.7	122
166	DNA damage response protein ASCIZ links base excision repair with immunoglobulin gene conversion. Biochemical and Biophysical Research Communications, 2008, 371, 225-229.	2.1	14
167	Folate Deficiency Induces Neurodegeneration and Brain Dysfunction in Mice Lacking Uracil DNA Glycosylase. Journal of Neuroscience, 2008, 28, 7219-7230.	3.6	86
168	Incorrect nucleotide insertion at the active site of a G:A mismatch catalyzed by DNA polymerase Â. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5670-5674.	7.1	48
169	Mutagenesis Is Elevated in Male Germ Cells Obtained from DNA Polymerase-beta Heterozygous Mice1. Biology of Reproduction, 2008, 79, 824-831.	2.7	17
170	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
171	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
172	Different structural states in oligonucleosomes are required for early versus late steps of base excision repair. Nucleic Acids Research, 2007, 35, 4313-4321.	14.5	56
173	Coordination of Steps in Single-nucleotide Base Excision Repair Mediated by Apurinic/Apyrimidinic Endonuclease 1 and DNA Polymerase Î². Journal of Biological Chemistry, 2007, 282, 13532-13541.	3.4	130
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