

Samuel H Wilson

List of Publications by Year in Descending Order

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Version: 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

441 papers	25,256 citations	86 h-index	137 g-index
475 ext. papers	26,718 ext. citations	8.7 avg, IF	6.75 L-index

#	Paper	IF	Citations
441	Watching a double strand break repair polymerase insert a pro-mutagenic oxidized nucleotide. <i>Nature Communications</i> , 2021 , 12, 2059	17.4	2
440	Structural basis for proficient oxidized ribonucleotide insertion in double strand break repair. <i>Nature Communications</i> , 2021 , 12, 5055	17.4	0
439	Genomic and evolutionary classification of lung cancer in never smokers. <i>Nature Genetics</i> , 2021 , 53, 1348-1359	13.59	14
438	Perspectives on formaldehyde dysregulation: Mitochondrial DNA damage and repair in mammalian cells. <i>DNA Repair</i> , 2021 , 105, 103134	4.3	5
437	Topoisomerase I-driven repair of UV-induced damage in NER-deficient cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14412-14420	11.5	8
436	Mitochondrial dysfunction and DNA damage accompany enhanced levels of formaldehyde in cultured primary human fibroblasts. <i>Scientific Reports</i> , 2020 , 10, 5575	4.9	11
435	Requirements for PARP-1 covalent crosslinking to DNA (PARP-1 DPC). <i>DNA Repair</i> , 2020 , 89, 102824	4.3	3
434	Revealing an Internal Stabilization Deficiency in the DNA Polymerase ϵ K289M Cancer Variant through the Combined Use of Chemical Biology and X-ray Crystallography. <i>Biochemistry</i> , 2020 , 59, 955-963	9.3	2
433	Preferential DNA Polymerase ϵ Reverse Reaction with Imidodiphosphate. <i>ACS Omega</i> , 2020 , 5, 15317-15324	3.4	3
432	Pregnancy in sickle cell trait: what we do and don't know. <i>British Journal of Haematology</i> , 2020 , 190, 328-335	4.35	3
431	Oxidative DNA Damage Modulates DNA Methylation Pattern in Human Breast Cancer 1 (BRCA1) Gene via the Crosstalk between DNA Polymerase ϵ and a DNA Methyltransferase. <i>Cells</i> , 2020 , 9,	7.9	5
430	Requirements for PARP-1 covalent crosslinking to DNA (PARP-1 DPC). <i>DNA Repair</i> , 2020 , 90, 102850	4.3	6
429	Oxidative DNA-protein crosslinks formed in mammalian cells by abasic site lyases involved in DNA repair. <i>DNA Repair</i> , 2020 , 87, 102773	4.3	13
428	Shining light on the response to repair intermediates in DNA of living cells. <i>DNA Repair</i> , 2020 , 85, 102749	4.3	6
427	DNA polymerase ϵ nucleotide-stabilized template misalignment fidelity depends on local sequence context. <i>Journal of Biological Chemistry</i> , 2020 , 295, 529-538	5.4	1
426	Structure of a DNA polymerase abortive complex with the 8OG:dA base pair at the primer terminus. <i>Communications Biology</i> , 2020 , 3, 348	6.7	1
425	Using Human Primary Foreskin Fibroblasts to Study Cellular Damage and Mitochondrial Dysfunction. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , 2020 , 86, e99	1	1

424	Lysines in the lyase active site of DNA polymerase β destabilize nonspecific DNA binding, facilitating searching and DNA gap recognition. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12181-12187	5.4	5
423	RNA abasic sites in yeast and human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 20689-20695	11.5	10
422	A guardian residue hinders insertion of a Fapy-dGTP analog by modulating the open-closed DNA polymerase transition. <i>Nucleic Acids Research</i> , 2019 , 47, 3197-3207	20.1	5
421	Eukaryotic Base Excision Repair: New Approaches Shine Light on Mechanism. <i>Annual Review of Biochemistry</i> , 2019 , 88, 137-162	29.1	64
420	A Transition-State Perspective on Y-Family DNA Polymerase β Fidelity in Comparison with X-Family DNA Polymerases α and γ <i>Biochemistry</i> , 2019 , 58, 1764-1773	3.2	7
419	Molecular basis for the faithful replication of 5-methylcytosine and its oxidized forms by DNA polymerase γ <i>Journal of Biological Chemistry</i> , 2019 , 294, 7194-7201	5.4	7
418	Histone H3 Lysine 56 Acetylation Enhances AP Endonuclease 1-Mediated Repair of AP Sites in Nucleosome Core Particles. <i>Biochemistry</i> , 2019 , 58, 3646-3655	3.2	5
417	Damage sensor role of UV-DDB during base excision repair. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 695-703	17.6	37
416	The Pol δ variant containing exon 8 is deficient in DNA polymerase but has full dRP lyase activity. <i>Scientific Reports</i> , 2019 , 9, 9928	4.9	2
415	DNA polymerase beta and other gap-filling enzymes in mammalian base excision repair. <i>The Enzymes</i> , 2019 , 45, 1-26	2.3	14
414	Repair pathway for PARP-1 DNA-protein crosslinks. <i>DNA Repair</i> , 2019 , 73, 71-77	4.3	26
413	XRCC1 phosphorylation affects aprataxin recruitment and DNA deadenylation activity. <i>DNA Repair</i> , 2018 , 64, 26-33	4.3	9
412	Transcriptional mutagenesis mediated by 8-oxoG induces translational errors in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4218-4222	11.5	35
411	Mapping Functional Substrate-Enzyme Interactions in the pol δ Active Site through Chemical Biology: Structural Responses to Acidity Modification of Incoming dNTPs. <i>Biochemistry</i> , 2018 , 57, 3934-3944	32.4	9
410	Probing DNA Base-Dependent Leaving Group Kinetic Effects on the DNA Polymerase Transition State. <i>Biochemistry</i> , 2018 , 57, 3925-3933	3.2	14
409	Pol δ dGTP mismatch insertion opposite T coupled with ligation reveals promutagenic DNA repair intermediate. <i>Nature Communications</i> , 2018 , 9, 4213	17.4	10
408	DNA scanning by base excision repair enzymes and implications for pathway coordination. <i>DNA Repair</i> , 2018 , 71, 101-107	4.3	24
407	Transitions in DNA polymerase β -ms dynamics related to substrate binding and catalysis. <i>Nucleic Acids Research</i> , 2018 , 46, 7309-7322	20.1	3

406	Oxidized nucleotide insertion by pol β confounds ligation during base excision repair. <i>Nature Communications</i> , 2017 , 8, 14045	17.4	34
405	Role of the oxidized form of XRCC1 in protection against extreme oxidative stress. <i>Free Radical Biology and Medicine</i> , 2017 , 107, 292-300	7.8	16
404	DNA polymerase β uses its lyase domain in a processive search for DNA damage. <i>Nucleic Acids Research</i> , 2017 , 45, 3822-3832	20.1	18
403	Hiding in Plain Sight: The Bimetallic Magnesium Covalent Bond in Enzyme Active Sites. <i>Inorganic Chemistry</i> , 2017 , 56, 313-320	5.1	8
402	Time-lapse crystallography snapshots of a double-strand break repair polymerase in action. <i>Nature Communications</i> , 2017 , 8, 253	17.4	41
401	Processive searching ability varies among members of the gap-filling DNA polymerase X family. <i>Journal of Biological Chemistry</i> , 2017 , 292, 17473-17481	5.4	10
400	Central Steps in Mammalian BER and Regulation by PARP1 2017 , 253-280		2
399	XRCC1-mediated repair of strand breaks independent of PNKP binding. <i>DNA Repair</i> , 2017 , 60, 52-63	4.3	8
398	PARP1 changes from three-dimensional DNA damage searching to one-dimensional diffusion after auto-PARylation or in the presence of APE1. <i>Nucleic Acids Research</i> , 2017 , 45, 12834-12847	20.1	53
397	DNA polymerase β contains a functional nuclear localization signal at its N-terminus. <i>Nucleic Acids Research</i> , 2017 , 45, 1958-1970	20.1	9
396	Unencumbered Pol β lyase activity in nucleosome core particles. <i>Nucleic Acids Research</i> , 2017 , 45, 8901-8915	15.1	11
395	Modulating the DNA polymerase β reaction equilibrium to dissect the reverse reaction. <i>Nature Chemical Biology</i> , 2017 , 13, 1074-1080	11.7	17
394	DNA polymerase β A missing link of the base excision repair machinery in mammalian mitochondria. <i>DNA Repair</i> , 2017 , 60, 77-88	4.3	33
393	Complementation of aprataxin deficiency by base excision repair enzymes in mitochondrial extracts. <i>Nucleic Acids Research</i> , 2017 , 45, 10079-10088	20.1	14
392	Role of DNA polymerase β oxidized nucleotide insertion in DNA ligation failure. <i>Journal of Radiation Research</i> , 2017 , 58, 603-607	2.4	5
391	Revealing the role of the product metal in DNA polymerase β catalysis. <i>Nucleic Acids Research</i> , 2017 , 45, 2736-2745	20.1	22
390	Assay to Measure DNA Polymerase β Nucleotide Insertion Coupled with the DNA Ligation Reaction during Base Excision Repair. <i>Bio-protocol</i> , 2017 , 7,	0.9	2
389	Structures of DNA Polymerase Mispaired DNA Termini Transitioning to Pre-catalytic Complexes Support an Induced-Fit Fidelity Mechanism. <i>Structure</i> , 2016 , 24, 1863-1875	5.2	22

388	Impact of Ribonucleotide Backbone on Translesion Synthesis and Repair of 7,8-Dihydro-8-oxoguanine. <i>Journal of Biological Chemistry</i> , 2016 , 291, 24314-24323	5.4	13
387	Insertion of oxidized nucleotide triggers rapid DNA polymerase opening. <i>Nucleic Acids Research</i> , 2016 , 44, 4409-24	20.1	7
386	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. <i>Environmental Health Perspectives</i> , 2016 , 124, 1241-52	8.4	18
385	Oxidized dNTPs and the OGG1 and MUTYH DNA glycosylases combine to induce CAG/CTG repeat instability. <i>Nucleic Acids Research</i> , 2016 , 44, 5190-203	20.1	17
384	Rev1 is a base excision repair enzyme with 5'-deoxyribose phosphate lyase activity. <i>Nucleic Acids Research</i> , 2016 , 44, 10824-10833	20.1	12
383	Intrinsic mutagenic properties of 5-chlorocytosine: A mechanistic connection between chronic inflammation and cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4571-80	11.5	53
382	Complementation of aprataxin deficiency by base excision repair enzymes. <i>Nucleic Acids Research</i> , 2015 , 43, 2271-81	20.1	18
381	Capturing snapshots of APE1 processing DNA damage. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 924-31	17.6	86
380	Requirement for transient metal ions revealed through computational analysis for DNA polymerase going in reverse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5228-36	11.5	44
379	Oxidant and environmental toxicant-induced effects compromise DNA ligation during base excision DNA repair. <i>DNA Repair</i> , 2015 , 35, 85-9	4.3	24
378	Uncovering the polymerase-induced cytotoxicity of an oxidized nucleotide. <i>Nature</i> , 2015 , 517, 635-9	50.4	102
377	Nuclear Localization of the DNA Repair Scaffold XRCC1: Uncovering the Functional Role of a Bipartite NLS. <i>Scientific Reports</i> , 2015 , 5, 13405	4.9	23
376	Mammalian Base Excision Repair: Functional Partnership between PARP-1 and APE1 in AP-Site Repair. <i>PLoS ONE</i> , 2015 , 10, e0124269	3.7	33
375	Bisphenol a promotes cell survival following oxidative DNA damage in mouse fibroblasts. <i>PLoS ONE</i> , 2015 , 10, e0118819	3.7	31
374	Two Scaffolds from Two Flips: (H)/(D)CH ₂ /NH "Met-Im" Analogues of dTTP. <i>Organic Letters</i> , 2015 , 17, 2586-9	6.2	8
373	Micro-irradiation tools to visualize base excision repair and single-strand break repair. <i>DNA Repair</i> , 2015 , 31, 52-63	4.3	38
372	Structures of human DNA polymerases β and ϵ expose their end game. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 273-5	17.6	5
371	New structural snapshots provide molecular insights into the mechanism of high fidelity DNA synthesis. <i>DNA Repair</i> , 2015 , 32, 3-9	4.3	13

370	Reprint of "Oxidant and environmental toxicant-induced effects compromise DNA ligation during base excision DNA repair". <i>DNA Repair</i> , 2015 , 36, 86-90	4.3	4
369	DNA polymerase β -dependent cell survival independent of XRCC1 expression. <i>DNA Repair</i> , 2015 , 26, 23-9	4.3	15
368	Optimal and variant metal-ion routes in DNA polymerase β conformational pathways. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3630-9	16.4	9
367	Transition state in DNA polymerase β catalysis: rate-limiting chemistry altered by base-pair configuration. <i>Biochemistry</i> , 2014 , 53, 1842-8	3.2	24
366	Base excision repair defects invoke hypersensitivity to PARP inhibition. <i>Molecular Cancer Research</i> , 2014 , 12, 1128-39	6.6	55
365	Structure and mechanism of DNA polymerase β . <i>Biochemistry</i> , 2014 , 53, 2768-80	3.2	93
364	Base excision repair of tandem modifications in a methylated CpG dinucleotide. <i>Journal of Biological Chemistry</i> , 2014 , 289, 13996-4008	5.4	21
363	Structural comparison of DNA polymerase architecture suggests a nucleotide gateway to the polymerase active site. <i>Chemical Reviews</i> , 2014 , 114, 2759-74	68.1	34
362	Substrate-induced DNA polymerase β activation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 31411-22	5.4	24
361	Substrate rescue of DNA polymerase β containing a catastrophic L22P mutation. <i>Biochemistry</i> , 2014 , 53, 2413-22	3.2	8
360	Phylogenetic analysis and evolutionary origins of DNA polymerase X-family members. <i>DNA Repair</i> , 2014 , 22, 77-88	4.3	19
359	Suicidal cross-linking of PARP-1 to AP site intermediates in cells undergoing base excision repair. <i>Nucleic Acids Research</i> , 2014 , 42, 6337-51	20.1	65
358	Role of polymerase β in complementing aprataxin deficiency during abasic-site base excision repair. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 497-9	17.6	28
357	Applications of quantum mechanical/molecular mechanical methods to the chemical insertion step of DNA and RNA polymerization. <i>Advances in Protein Chemistry and Structural Biology</i> , 2014 , 97, 83-113	5.3	5
356	Enzymatic Activity Assays in Yeast Cell Extracts. <i>Bio-protocol</i> , 2014 , 4,	0.9	6
355	The dark side of DNA repair. <i>ELife</i> , 2014 , 3, e03068	8.9	5
354	Understanding base lesion DNA repair (477.2). <i>FASEB Journal</i> , 2014 , 28, 477.2	0.9	
353	Designing a spatially aware and autonomous quadcopter 2013 ,		5

352	Preventing oxidation of cellular XRCC1 affects PARP-mediated DNA damage responses. <i>DNA Repair</i> , 2013 , 12, 774-85	4.3	35
351	Predicting enhanced cell killing through PARP inhibition. <i>Molecular Cancer Research</i> , 2013 , 11, 13-8	6.6	40
350	Amino acid substitution in the active site of DNA polymerase β explains the energy barrier of the nucleotidyl transfer reaction. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8078-88	16.4	36
349	Observing a DNA polymerase choose right from wrong. <i>Cell</i> , 2013 , 154, 157-68	56.2	151
348	Strategic Combination of DNA-Damaging Agent and PARP Inhibitor Results in Enhanced Cytotoxicity. <i>Frontiers in Oncology</i> , 2013 , 3, 257	5.3	26
347	DNA polymerase minor groove interactions modulate mutagenic bypass of a templating 8-oxoguanine lesion. <i>Nucleic Acids Research</i> , 2013 , 41, 1848-58	20.1	32
346	Identification of one of the apurinic/apyrimidinic lyase active sites of topoisomerase V by structural and functional studies. <i>Nucleic Acids Research</i> , 2013 , 41, 657-66	20.1	5
345	Insights into the conformation of aminofluorene-deoxyguanine adduct in a DNA polymerase active site. <i>Journal of Biological Chemistry</i> , 2013 , 288, 23573-85	5.4	5
344	Steady-state, pre-steady-state, and single-turnover kinetic measurement for DNA glycosylase activity. <i>Journal of Visualized Experiments</i> , 2013 , e50695	1.6	12
343	Understanding the loss-of-function in a triple missense mutant of DNA polymerase β found in prostate cancer. <i>International Journal of Oncology</i> , 2013 , 43, 1131-40	4.4	1
342	Interaction between DNA Polymerase β and BRCA1. <i>PLoS ONE</i> , 2013 , 8, e66801	3.7	12
341	Inhibition of HIV-1 reverse transcriptase-catalyzed synthesis by intercalated DNA Benzo[a]Pyrene 7,8-Dihydrodiol-9,10-Epoxy adducts. <i>PLoS ONE</i> , 2013 , 8, e72131	3.7	
340	DNA base excision repair: a mechanism of trinucleotide repeat expansion. <i>Trends in Biochemical Sciences</i> , 2012 , 37, 162-72	10.3	85
339	Stereospecific formation of a ternary complex of (S)- β -fluoromethylene-dATP with DNA pol β . <i>ChemBioChem</i> , 2012 , 13, 528-30	3.8	23
338	DNA sequence context effects on the glycosylase activity of human 8-oxoguanine DNA glycosylase. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36702-10	5.4	33
337	DNA polymerase β gap-filling translesion DNA synthesis. <i>Chemical Research in Toxicology</i> , 2012 , 25, 2744-54	4.4	15
336	Structures of dNTP intermediate states during DNA polymerase active site assembly. <i>Structure</i> , 2012 , 20, 1829-37	5.2	40
335	Effect of β -CHF- and β -CHCl-dGTP halogen atom stereochemistry on the transition state of DNA polymerase β . <i>Biochemistry</i> , 2012 , 51, 8491-501	3.2	16

334	Perspective: pre-chemistry conformational changes in DNA polymerase mechanisms. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1287	1.9	32
333	Hyperactivation of PARP triggers nonhomologous end-joining in repair-deficient mouse fibroblasts. <i>PLoS ONE</i> , 2012 , 7, e49301	3.7	23
332	[2H]- and [2H]-dGTP diastereomers: synthesis, discrete 31P NMR signatures, and absolute configurations of new stereochemical probes for DNA polymerases. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8734-7	16.4	28
331	Pol β associated complex and base excision repair factors in mouse fibroblasts. <i>Nucleic Acids Research</i> , 2012 , 40, 11571-82	20.1	46
330	Single-nucleotide base excision repair DNA polymerase activity in <i>C. elegans</i> in the absence of DNA polymerase β <i>Nucleic Acids Research</i> , 2012 , 40, 670-81	20.1	21
329	Increased PARP-1 association with DNA in alkylation damaged, PARP-inhibited mouse fibroblasts. <i>Molecular Cancer Research</i> , 2012 , 10, 360-8	6.6	52
328	Binary complex crystal structure of DNA polymerase β reveals multiple conformations of the templating 8-oxoguanine lesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 113-8	11.5	70
327	HMGN1 protein regulates poly(ADP-ribose) polymerase-1 (PARP-1) self-PARYlation in mouse fibroblasts. <i>Journal of Biological Chemistry</i> , 2012 , 287, 27648-58	5.4	32
326	Metal-induced DNA translocation leads to DNA polymerase conformational activation. <i>Nucleic Acids Research</i> , 2012 , 40, 2974-83	20.1	28
325	Evidence for abasic site sugar phosphate-mediated cytotoxicity in alkylating agent treated <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2012 , 7, e47945	3.7	5
324	A review of recent experiments on step-to-step hand-off of the DNA intermediates in mammalian base excision repair pathways. <i>Molecular Biology</i> , 2011 , 45, 536-550	1.2	38
323	Requirement for NBS1 in the S phase checkpoint response to DNA methylation combined with PARP inhibition. <i>DNA Repair</i> , 2011 , 10, 225-34	4.3	7
322	Molecular insights into DNA polymerase deterrents for ribonucleotide insertion. <i>Journal of Biological Chemistry</i> , 2011 , 286, 31650-60	5.4	38
321	Lucanthone and its derivative hycanthone inhibit apurinic endonuclease-1 (APE1) by direct protein binding. <i>PLoS ONE</i> , 2011 , 6, e23679	3.7	37
320	Base-Excision Repair: Role of DNA Polymerase β in Late-Stage Base Excision Repair 2011 , 297-319		2
319	Mutagenic conformation of 8-oxo-7,8-dihydro-2'-dGTP in the confines of a DNA polymerase active site. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 889-90	17.6	47
318	Substrate channeling in mammalian base excision repair pathways: passing the baton. <i>Journal of Biological Chemistry</i> , 2010 , 285, 40479-88	5.4	103
317	DNA polymerase beta ribonucleotide discrimination: insertion, misinsertion, extension, and coding. <i>Journal of Biological Chemistry</i> , 2010 , 285, 24457-65	5.4	54

316	Apurinic/aprimidinic (AP) site recognition by the 5'-dRP/AP lyase in poly(ADP-ribose) polymerase-1 (PARP-1). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 22090-5	11.5	118
315	FEN1 functions in long patch base excision repair under conditions of oxidative stress in vertebrate cells. <i>Molecular Cancer Research</i> , 2010 , 8, 204-15	6.6	28
314	Synthesis and biological evaluation of fluorinated deoxynucleotide analogs based on bis-(difluoromethylene)triphosphoric acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15693-8	11.5	36
313	DNA polymerase structure-based insight on the mutagenic properties of 8-oxoguanine. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010 , 703, 18-23	3	70
312	HMGB1: roles in base excision repair and related function. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2010 , 1799, 119-30	6	88
311	Halogenated beta,gamma-methylene- and ethylidene-dGTP-DNA ternary complexes with DNA polymerase beta: structural evidence for stereospecific binding of the fluoromethylene analogues. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7617-25	16.4	45
310	Base excision repair and design of small molecule inhibitors of human DNA polymerase β . <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 3633-47	10.3	30
309	Mutagenesis dependent upon the combination of activation-induced deaminase expression and a double-strand break. <i>Molecular Immunology</i> , 2010 , 48, 164-70	4.3	8
308	DNA polymerase beta-dependent long patch base excision repair in living cells. <i>DNA Repair</i> , 2010 , 9, 109-19	4.9	40
307	Alkylation DNA damage in combination with PARP inhibition results in formation of S-phase-dependent double-strand breaks. <i>DNA Repair</i> , 2010 , 9, 929-36	4.3	41
306	DNA polymerases beta and lambda mediate overlapping and independent roles in base excision repair in mouse embryonic fibroblasts. <i>PLoS ONE</i> , 2010 , 5, e12229	3.7	60
305	NMR study of the effect of Zn on conformational activation of rat DNA polymerase β . <i>FASEB Journal</i> , 2010 , 24, 876.6	0.9	
304	Gastrointestinal hyperplasia with altered expression of DNA polymerase beta. <i>PLoS ONE</i> , 2009 , 4, e64933	3.7	15
303	Coordination between polymerase beta and FEN1 can modulate CAG repeat expansion. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28352-28366	5.4	90
302	Human DNA polymerase theta possesses 5'-dRP lyase activity and functions in single-nucleotide base excision repair in vitro. <i>Nucleic Acids Research</i> , 2009 , 37, 1868-77	20.1	76
301	DNA polymerase beta substrate specificity: side chain modulation of the "A-rule". <i>Journal of Biological Chemistry</i> , 2009 , 284, 31680-9	5.4	55
300	A real-time fluorescence method for enzymatic characterization of specialized human DNA polymerases. <i>Nucleic Acids Research</i> , 2009 , 37, e128	20.1	45
299	Characterization of DNA polymerase beta splicing variants in gastric cancer: the most frequent exon 2-deleted isoform is a non-coding RNA. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2009 , 670, 79-87	3.3	5

298	PARP inhibition during alkylation-induced genotoxic stress signals a cell cycle checkpoint response mediated by ATM. <i>DNA Repair</i> , 2009 , 8, 1264-72	4.3	18
297	DNA polymerase beta and PARP activities in base excision repair in living cells. <i>DNA Repair</i> , 2009 , 8, 1290-4	4.9	36
296	Alpha,beta-difluoromethylene deoxynucleoside 5'-triphosphates: a convenient synthesis of useful probes for DNA polymerase beta structure and function. <i>Organic Letters</i> , 2009 , 11, 1883-6	6.2	39
295	XRCC1 and DNA polymerase beta in cellular protection against cytotoxic DNA single-strand breaks. <i>Cell Research</i> , 2008 , 18, 48-63	24.7	168
294	Negligible impact of pol iota expression on the alkylation sensitivity of pol beta-deficient mouse fibroblast cells. <i>DNA Repair</i> , 2008 , 7, 830-3	4.3	8
293	Interaction between PARP-1 and ATR in mouse fibroblasts is blocked by PARP inhibition. <i>DNA Repair</i> , 2008 , 7, 1787-98	4.3	32
292	Alpha,beta-methylene-2'-deoxynucleoside 5'-triphosphates as noncleavable substrates for DNA polymerases: isolation, characterization, and stability studies of novel 2'-deoxycyclonucleosides, 3,5'-cyclo-dG, and 2,5'-cyclo-dT. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 6460-70	8.3	13
291	Structures of DNA polymerase beta with active-site mismatches suggest a transient abasic site intermediate during misincorporation. <i>Molecular Cell</i> , 2008 , 30, 315-24	17.6	110
290	DNA damage response protein ASCIZ links base excision repair with immunoglobulin gene conversion. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 371, 225-9	3.4	14
289	Folate deficiency induces neurodegeneration and brain dysfunction in mice lacking uracil DNA glycosylase. <i>Journal of Neuroscience</i> , 2008 , 28, 7219-30	6.6	68
288	Incorrect nucleotide insertion at the active site of a G:A mismatch catalyzed by DNA polymerase beta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5670-4	11.5	46
287	Mutagenesis is elevated in male germ cells obtained from DNA polymerase-beta heterozygous mice. <i>Biology of Reproduction</i> , 2008 , 79, 824-31	3.9	16
286	Exploring the role of large conformational changes in the fidelity of DNA polymerase beta. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 70, 231-47	4.2	41
285	DNA polymerase beta fidelity: halomethylene-modified leaving groups in pre-steady-state kinetic analysis reveal differences at the chemical transition state. <i>Biochemistry</i> , 2008 , 47, 870-9	3.2	73
284	Ochratoxin A-induced mutagenesis in mammalian cells is consistent with the production of oxidative stress. <i>Chemical Research in Toxicology</i> , 2007 , 20, 1031-7	4	81
283	Differing conformational pathways before and after chemistry for insertion of dATP versus dCTP opposite 8-oxoG in DNA polymerase beta. <i>Biophysical Journal</i> , 2007 , 92, 3063-70	2.9	20
282	OGG1 initiates age-dependent CAG trinucleotide expansion in somatic cells. <i>Nature</i> , 2007 , 447, 447-52	50.4	349
281	Down-regulation of DNA polymerase beta accompanies somatic hypermutation in human BL2 cell lines. <i>DNA Repair</i> , 2007 , 6, 244-53	4.3	27

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