

# David M Wilson

## List of Publications by Year in descending order

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174  
papers

13,102  
citations

17405

63  
h-index

27345

106  
g-index

175  
all docs

175  
docs citations

175  
times ranked

12076  
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA repair mechanisms in dividing and non-dividing cells. DNA Repair, 2013, 12, 620-636.	1.3	560
2	The major human abasic endonuclease: formation, consequences and repair of abasic lesions in DNA. Mutation Research DNA Repair, 2001, 485, 283-307.	3.8	349
3	Interaction of human apurinic endonuclease and DNA polymerase $\beta$ in the base excision repair pathway. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7166-7169.	3.3	344
4	A High-Fat Diet and NAD <sup>+</sup> Activate Sirt1 to Rescue Premature Aging in Cockayne Syndrome. Cell Metabolism, 2014, 20, 840-855.	7.2	306
5	The mechanics of base excision repair, and its relationship to aging and disease. DNA Repair, 2007, 6, 544-559.	1.3	280
6	Protecting the mitochondrial powerhouse. Trends in Cell Biology, 2015, 25, 158-170.	3.6	260
7	Overview of Base Excision Repair Biochemistry. Current Molecular Pharmacology, 2012, 5, 3-13.	0.7	253
8	Incision Activity of Human Apurinic Endonuclease (Ape) at Abasic Site Analogs in DNA. Journal of Biological Chemistry, 1995, 270, 16002-16007.	1.6	252
9	Oxidative damage in telomeric DNA disrupts recognition by TRF1 and TRF2. Nucleic Acids Research, 2005, 33, 1230-1239.	6.5	237
10	The Werner syndrome protein operates in base excision repair and cooperates with DNA polymerase $\beta$ . Nucleic Acids Research, 2006, 34, 745-754.	6.5	228
11	Molecular mechanisms of sister-chromatid exchange. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2007, 616, 11-23.	0.4	228
12	Life without DNA repair. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12754-12757.	3.3	219
13	Human Apurinic/Apyrimidinic Endonuclease 1. Antioxidants and Redox Signaling, 2014, 20, 678-707.	2.5	211
14	Functional characterization of Ape1 variants identified in the human population. Nucleic Acids Research, 2000, 28, 3871-3879.	6.5	207
15	Participation of DNA repair in the response to 5-fluorouracil. Cellular and Molecular Life Sciences, 2009, 66, 788-799.	2.4	200
16	Removal of Oxidative DNA Damage via FEN1-Dependent Long-Patch Base Excision Repair in Human Cell Mitochondria. Molecular and Cellular Biology, 2008, 28, 4975-4987.	1.1	192
17	Urea Cycle Dysregulation Generates Clinically Relevant Genomic and Biochemical Signatures. Cell, 2018, 174, 1559-1570.e22.	13.5	183
18	Challenges and complexities in estimating both the functional impact and the disease risk associated with the extensive genetic variation in human DNA repair genes. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2003, 526, 93-125.	0.4	179

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19	Coordination of DNA single strand break repair. <i>Free Radical Biology and Medicine</i> , 2017, 107, 228-244.	1.3	179
20	Cockayne syndrome group B protein prevents the accumulation of damaged mitochondria by promoting mitochondrial autophagy. <i>Journal of Experimental Medicine</i> , 2012, 209, 855-869.	4.2	177
21	Two divalent metal ions in the active site of a new crystal form of human apurinic/aprimidinic endonuclease, ape1: implications for the catalytic mechanism 1 Edited by I. A. Wilson. <i>Journal of Molecular Biology</i> , 2001, 307, 1023-1034.	2.0	173
22	XRCC1 co-localizes and physically interacts with PCNA. <i>Nucleic Acids Research</i> , 2004, 32, 2193-2201.	6.5	172
23	3'-Phosphodiesterase activity of human apurinic/aprimidinic endonuclease at DNA double-strand break ends. <i>Nucleic Acids Research</i> , 1997, 25, 2495-2500.	6.5	160
24	The RAD2 Domain of Human Exonuclease 1 Exhibits 5' to 3' Exonuclease and Flap Structure-specific Endonuclease Activities. <i>Journal of Biological Chemistry</i> , 1999, 274, 37763-37769.	1.6	160
25	DNA Damage and Associated DNA Repair Defects in Disease and Premature Aging. <i>American Journal of Human Genetics</i> , 2019, 105, 237-257.	2.6	143
26	Processing of bistranded abasic DNA clusters in $\gamma$ -irradiated human hematopoietic cells. <i>Nucleic Acids Research</i> , 2004, 32, 5609-5620.	6.5	127
27	Protein-protein interactions and posttranslational modifications in mammalian base excision repair. <i>Free Radical Biology and Medicine</i> , 2005, 38, 1121-1138.	1.3	126
28	Stoichiometry of Base Excision Repair Proteins Correlates with Increased Somatic CAG Instability in Striatum over Cerebellum in Huntington's Disease Transgenic Mice. <i>PLoS Genetics</i> , 2009, 5, e1000749.	1.5	124
29	Cockayne syndrome group B protein promotes mitochondrial DNA stability by supporting the DNA repair association with the mitochondrial membrane. <i>FASEB Journal</i> , 2010, 24, 2334-2346.	0.2	124
30	Determinants in nuclease specificity of ape1 and ape2, human homologues of Escherichia coli exonuclease III. <i>Journal of Molecular Biology</i> , 2002, 316, 853-866.	2.0	122
31	Pathways for repairing and tolerating the spectrum of oxidative DNA lesions. <i>Cancer Letters</i> , 2012, 327, 61-72.	3.2	118
32	Repair mechanisms for oxidative DNA damage. <i>Frontiers in Bioscience - Landmark</i> , 2003, 8, d963-981.	3.0	117
33	The role of Mg <sup>2+</sup> and specific amino acid residues in the catalytic reaction of the major human abasic endonuclease: new insights from EDTA-resistant incision of acyclic abasic site analogs and site-directed mutagenesis. <i>Journal of Molecular Biology</i> , 1999, 290, 447-457.	2.0	113
34	DNA polymerase $\beta$ deficiency leads to neurodegeneration and exacerbates Alzheimer disease phenotypes. <i>Nucleic Acids Research</i> , 2015, 43, 943-959.	6.5	110
35	Genomic and protein expression analysis reveals flap endonuclease 1 (FEN1) as a key biomarker in breast and ovarian cancer. <i>Molecular Oncology</i> , 2014, 8, 1326-1338.	2.1	109
36	Characterization of Abasic Endonuclease Activity of Human Ape1 on Alternative Substrates, as Well as Effects of ATP and Sequence Context on AP Site Incision. <i>Journal of Molecular Biology</i> , 2008, 379, 17-27.	2.0	106

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37	Uracil residues dependent on the deaminase AID in immunoglobulin gene variable and switch regions. <i>Nature Immunology</i> , 2011, 12, 70-76.	7.0	106
38	Impact of DNA polymorphisms in key DNA base excision repair proteins on cancer risk. <i>Human and Experimental Toxicology</i> , 2012, 31, 981-1005.	1.1	106
39	Hex1: a new human Rad2 nuclease family member with homology to yeast exonuclease 1. <i>Nucleic Acids Research</i> , 1998, 26, 3762-3768.	6.5	105
40	Second human protein with homology to the <i>Escherichia coli</i> abasic endonuclease exonuclease III. <i>Environmental and Molecular Mutagenesis</i> , 2000, 36, 312-324.	0.9	104
41	Cockayne syndrome B protein stimulates apurinic endonuclease 1 activity and protects against agents that introduce base excision repair intermediates. <i>Nucleic Acids Research</i> , 2007, 35, 4103-4113.	6.5	104
42	Variation in base excision repair capacity. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2011, 711, 100-112.	0.4	104
43	Identification and Characterization of Inhibitors of Human Apurinic/aprimidinic Endonuclease APE1. <i>PLoS ONE</i> , 2009, 4, e5740.	1.1	100
44	Synthesis, Biological Evaluation, and Structure-Activity Relationships of a Novel Class of Apurinic/Apyrimidinic Endonuclease 1 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 3101-3112.	2.9	99
45	Inhibition of Ape1 nuclease activity by lead, iron, and cadmium. <i>Environmental Health Perspectives</i> , 2004, 112, 799-804.	2.8	98
46	Elements in abasic site recognition by the major human and <i>Escherichia coli</i> apurinic/aprimidinic endonucleases. <i>Nucleic Acids Research</i> , 1998, 26, 2771-2778.	6.5	96
47	Abasic Site Binding by the Human Apurinic Endonuclease, Ape, and Determination of the DNA Contact Sites. <i>Nucleic Acids Research</i> , 1997, 25, 933-939.	6.5	95
48	The Human Interferon- and Estrogen-Regulated ISG20/HEM45 Gene Product Degrades Single-Stranded RNA and DNA in Vitro. <i>Biochemistry</i> , 2001, 40, 7174-7179.	1.2	90
49	A Dominant-Negative Form of the Major Human Abasic Endonuclease Enhances Cellular Sensitivity to Laboratory and Clinical DNA-Damaging Agents. <i>Molecular Cancer Research</i> , 2007, 5, 61-70.	1.5	90
50	Properties of and Substrate Determinants for the Exonuclease Activity of Human Apurinic Endonuclease Ape1. <i>Journal of Molecular Biology</i> , 2003, 330, 1027-1037.	2.0	89
51	Mitochondrial DNA, base excision repair and neurodegeneration. <i>DNA Repair</i> , 2008, 7, 1098-1109.	1.3	89
52	Small molecule inhibitors of DNA repair nuclease activities of APE1. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 3621-3631.	2.4	88
53	Oxidative stress and impaired oligodendrocyte precursor cell differentiation in neurological disorders. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 4615-4637.	2.4	85
54	Intrusion of a DNA Repair Protein in the RNome World: Is This the Beginning of a New Era?. <i>Molecular and Cellular Biology</i> , 2010, 30, 366-371.	1.1	82

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55	Synthetic lethal targeting of DNA double-strand break repair deficient cells by human apurinic/aprimidinic endonuclease inhibitors. <i>International Journal of Cancer</i> , 2012, 131, 2433-2444.	2.3	79
56	DNA Polymerase Beta Participates in Mitochondrial DNA Repair. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	77
57	Aprataxin localizes to mitochondria and preserves mitochondrial function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7437-7442.	3.3	76
58	Regulation of WRN Helicase Activity in Human Base Excision Repair. <i>Journal of Biological Chemistry</i> , 2004, 279, 53465-53474.	1.6	75
59	Direct and indirect roles of RECQL4 in modulating base excision repair capacity. <i>Human Molecular Genetics</i> , 2009, 18, 3470-3483.	1.4	75
60	Impairment of APE1 Function Enhances Cellular Sensitivity to Clinically Relevant Alkylators and Antimetabolites. <i>Molecular Cancer Research</i> , 2009, 7, 897-906.	1.5	73
61	The Involvement of DNA-Damage and -Repair Defects in Neurological Dysfunction. <i>American Journal of Human Genetics</i> , 2008, 82, 539-566.	2.6	72
62	Cockayne syndrome group A and B proteins converge on transcription-linked resolution of non-B DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12502-12507.	3.3	72
63	A quantitative model of human DNA base excision repair. I. mechanistic insights. <i>Nucleic Acids Research</i> , 2002, 30, 1817-1825.	6.5	71
64	Human AP endonuclease (APE1) demonstrates endonucleolytic activity against AP sites in single-stranded DNA. <i>DNA Repair</i> , 2004, 3, 527-533.	1.3	69
65	Neil1 is a genetic modifier of somatic and germline CAG trinucleotide repeat instability in R6/1 mice. <i>Human Molecular Genetics</i> , 2012, 21, 4939-4947.	1.4	66
66	The excitatory neurotransmitter glutamate stimulates DNA repair to increase neuronal resiliency. <i>Mechanisms of Ageing and Development</i> , 2011, 132, 405-411.	2.2	65
67	Base excision repair and the central nervous system. <i>Neuroscience</i> , 2007, 145, 1187-1200.	1.1	63
68	Development and evaluation of human AP endonuclease inhibitors in melanoma and glioma cell lines. <i>British Journal of Cancer</i> , 2011, 104, 653-663.	2.9	63
69	New insights into the structure of abasic DNA from molecular dynamics simulations. <i>Nucleic Acids Research</i> , 2000, 28, 2613-2626.	6.5	62
70	Characterization of Mg <sup>2+</sup> Binding to the DNA Repair Protein Apurinic/Apyrimidic Endonuclease 1 via Solid-State 25Mg NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 9332-9341.	6.6	62
71	Nucleophosmin modulates stability, activity, and nucleolar accumulation of base excision repair proteins. <i>Molecular Biology of the Cell</i> , 2014, 25, 1641-1652.	0.9	62
72	Molecular interactions of human Exo1 with DNA. <i>Nucleic Acids Research</i> , 2002, 30, 942-949.	6.5	61

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73	Mapping the protein-DNA interface and the metal-binding site of the major human apurinic/aprimidinic endonuclease. <i>Journal of Molecular Biology</i> , 2000, 298, 447-459.	2.0	59
74	XRCC1 and DNA polymerase $\beta$ interaction contributes to cellular alkylating-agent resistance and single-strand break repair. <i>Journal of Cellular Biochemistry</i> , 2005, 95, 794-804.	1.2	59
75	Repair of persistent strand breaks in the mitochondrial genome. <i>Mechanisms of Ageing and Development</i> , 2012, 133, 169-175.	2.2	57
76	Telomere Repeat Binding Factor 2 Interacts with Base Excision Repair Proteins and Stimulates DNA Synthesis by DNA Polymerase $\beta$ . <i>Cancer Research</i> , 2006, 66, 113-124.	0.4	56
77	XRCC1 coordinates disparate responses and multiprotein repair complexes depending on the nature and context of the DNA damage. <i>Environmental and Molecular Mutagenesis</i> , 2011, 52, 623-635.	0.9	56
78	Human Cockayne syndrome B protein reciprocally communicates with mitochondrial proteins and promotes transcriptional elongation. <i>Nucleic Acids Research</i> , 2012, 40, 8392-8405.	6.5	56
79	Inhibitors of the apurinic/aprimidinic endonuclease 1 (APE1)/nucleophosmin (NPM1) interaction that display anti-tumor properties. <i>Molecular Carcinogenesis</i> , 2016, 55, 688-704.	1.3	56
80	DNA base excision repair activities and pathway function in mitochondrial and cellular lysates from cells lacking mitochondrial DNA. <i>Nucleic Acids Research</i> , 2004, 32, 2181-2192.	6.5	53
81	A real-time fluorescence method for enzymatic characterization of specialized human DNA polymerases. <i>Nucleic Acids Research</i> , 2009, 37, e128-e128.	6.5	53
82	Modulation of DNA base excision repair during neuronal differentiation. <i>Neurobiology of Aging</i> , 2013, 34, 1717-1727.	1.5	52
83	Cloning of the <i>Drosophila</i> ribosomal protein S3: another multifunctional ribosomal protein with AP endonuclease DNA repair activity. <i>Nucleic Acids Research</i> , 1993, 21, 2516-2516.	6.5	51
84	DNA damage, DNA repair, ageing and age-related disease. <i>Mechanisms of Ageing and Development</i> , 2008, 129, 349-352.	2.2	51
85	Direct interaction between XRCC1 and UNG2 facilitates rapid repair of uracil in DNA by XRCC1 complexes. <i>DNA Repair</i> , 2010, 9, 785-795.	1.3	51
86	XRCC1 suppresses somatic hypermutation and promotes alternative nonhomologous end joining in <i>Igh</i> genes. <i>Journal of Experimental Medicine</i> , 2011, 208, 2209-2216.	4.2	51
87	Base excision repair in the mammalian brain: Implication for age related neurodegeneration. <i>Mechanisms of Ageing and Development</i> , 2013, 134, 440-448.	2.2	50
88	Ape1 Abasic Endonuclease Activity is Regulated by Magnesium and Potassium Concentrations and is Robust on Alternative DNA Structures. <i>Journal of Molecular Biology</i> , 2005, 345, 1003-1014.	2.0	49
89	CSB interacts with SNM1A and promotes DNA interstrand crosslink processing. <i>Nucleic Acids Research</i> , 2015, 43, 247-258.	6.5	48
90	Connecting aging biology and inflammation in the omics era. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	48

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91	Targeting human apurinic/apyrimidinic endonuclease 1 (APE1) in phosphatase and tensin homolog (PTEN) deficient melanoma cells for personalized therapy. <i>Oncotarget</i> , 2014, 5, 3273-3286.	0.8	47
92	Removal by human apurinic/apyrimidinic endonuclease 1 (Ape 1) and Escherichia coli exonuclease III of 3â€²-phosphoglycolates from DNA treated with neocarzinostatin, calicheamicin, and $\beta^3$ -radiation. <i>Biochemical Pharmacology</i> , 1999, 57, 531-538.	2.0	46
93	Human abasic endonuclease action on multilesion abasic clusters: implications for radiation-induced biological damage. <i>Nucleic Acids Research</i> , 2008, 36, 2717-2727.	6.5	46
94	Lucanthone and Its Derivative Hycanthone Inhibit Apurinic Endonuclease-1 (APE1) by Direct Protein Binding. <i>PLoS ONE</i> , 2011, 6, e23679.	1.1	45
95	The Human Homolog of Escherichia coli Orn Degrades Small Single-stranded RNA and DNA Oligomers. <i>Journal of Biological Chemistry</i> , 2000, 275, 25900-25906.	1.6	44
96	Characterization of the Endoribonuclease Active Site of Human Apurinic/Apyrimidinic Endonuclease 1. <i>Journal of Molecular Biology</i> , 2011, 411, 960-971.	2.0	44
97	Androgen receptor-binding sites are highly mutated in prostate cancer. <i>Nature Communications</i> , 2020, 11, 832.	5.8	44
98	Complementary non-radioactive assays for investigation of human flap endonuclease 1 activity. <i>Nucleic Acids Research</i> , 2011, 39, e11-e11.	6.5	43
99	Functional capacity of XRCC1 protein variants identified in DNA repair-deficient Chinese hamster ovary cell lines and the human population. <i>Nucleic Acids Research</i> , 2010, 38, 5023-5035.	6.5	42
100	APE1 deficiency promotes cellular senescence and premature aging features. <i>Nucleic Acids Research</i> , 2018, 46, 5664-5677.	6.5	41
101	Base Excision Repair: Contribution to Tumorigenesis and Target in Anticancer Treatment Paradigms. <i>Current Medicinal Chemistry</i> , 2012, 19, 3922-3936.	1.2	40
102	Functions of the major abasic endonuclease (APE1) in cell viability and genotoxin resistance. <i>Mutagenesis</i> , 2020, 35, 27-38.	1.0	40
103	Trans-complementation by human apurinic endonuclease (Ape) of hypersensitivity to DNA damage and spontaneous mutator phenotype in apn 1-yeast. <i>Nucleic Acids Research</i> , 1995, 23, 5027-5033.	6.5	39
104	Identification of factors interacting with hMSH2 in the fetal liver utilizing the yeast two-hybrid system. <i>Mutation Research DNA Repair</i> , 2000, 460, 41-52.	3.8	38
105	Base excision repair capacity in informing healthspan. <i>Carcinogenesis</i> , 2014, 35, 2643-2652.	1.3	38
106	Prolactin message in brain and pituitary of adult male rats is identical: PCR cloning and sequencing of hypothalamic prolactin cDNA from intact and hypophysectomized adult male rats.. <i>Endocrinology</i> , 1992, 131, 2488-2490.	1.4	36
107	DNA Damage Levels and Biochemical Repair Capacities Associated with XRCC1 Deficiency. <i>Biochemistry</i> , 2005, 44, 14335-14343.	1.2	36
108	The Nucleotide Sequence, DNA Damage Location, and Protein Stoichiometry Influence the Base Excision Repair Outcome at CAG/CTG Repeats. <i>Biochemistry</i> , 2012, 51, 3919-3932.	1.2	36

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109	Reduced Nuclease Activity of Apurinic/Apyrimidinic Endonuclease (APE1) Variants on Nucleosomes. <i>Journal of Biological Chemistry</i> , 2015, 290, 21067-21075.	1.6	36
110	Investigation of the Role of the Histidine-Aspartate Pair in the Human Exonuclease III-like Abasic Endonuclease, Ape1. <i>Journal of Molecular Biology</i> , 2003, 329, 311-322.	2.0	35
111	DNA damage repair response in mesenchymal stromal cells: From cellular senescence and aging to apoptosis and differentiation ability. <i>Ageing Research Reviews</i> , 2020, 62, 101125.	5.0	35
112	XRCC1 down-regulation in human cells leads to DNA-damaging agent hypersensitivity, elevated sister chromatid exchange, and reduced survival of BRCA2 mutant cells. <i>Environmental and Molecular Mutagenesis</i> , 2007, 48, 491-500.	0.9	34
113	The region of XRCC1 which harbours the three most common nonsynonymous polymorphic variants, is essential for the scaffolding function of XRCC1. <i>DNA Repair</i> , 2012, 11, 357-366.	1.3	34
114	Nucleotide Sequence and DNA Secondary Structure, as Well as Replication Protein A, Modulate the Single-stranded Abasic Endonuclease Activity of APE1. <i>Journal of Biological Chemistry</i> , 2006, 281, 3889-3898.	1.6	33
115	Serum APE1 as a predictive marker for platinum-based chemotherapy of non-small cell lung cancer patients. <i>Oncotarget</i> , 2016, 7, 77482-77494.	0.8	33
116	Disparity between DNA base excision repair in yeast and mammals: translational implications. <i>Cancer Research</i> , 2003, 63, 549-54.	0.4	33
117	Effect of Protein Binding on Ultrafast DNA Dynamics: Characterization of a DNA:APE1 Complex. <i>Biophysical Journal</i> , 2005, 89, 4129-4138.	0.2	32
118	XRCC1 protects against the lethality of induced oxidative DNA damage in nondividing neural cells. <i>Nucleic Acids Research</i> , 2008, 36, 5111-5121.	6.5	31
119	Functional Assessment of Population and Tumor-Associated APE1 Protein Variants. <i>PLoS ONE</i> , 2013, 8, e65922.	1.1	30
120	Characterization of the Promoter Region of the Human Apurinic Endonuclease Gene (APE). <i>Journal of Biological Chemistry</i> , 1995, 270, 5556-5564.	1.6	29
121	Processing of nonconventional DNA strand break ends. <i>Environmental and Molecular Mutagenesis</i> , 2007, 48, 772-782.	0.9	29
122	WRN exonuclease activity is blocked by DNA termini harboring 3' obstructive groups. <i>Mechanisms of Ageing and Development</i> , 2007, 128, 259-266.	2.2	29
123	The Interaction between Polynucleotide Kinase Phosphatase and the DNA Repair Protein XRCC1 Is Critical for Repair of DNA Alkylation Damage and Stable Association at DNA Damage Sites. <i>Journal of Biological Chemistry</i> , 2012, 287, 39233-39244.	1.6	29
124	S-Glutathionylation of Cysteine 99 in the APE1 Protein Impairs Abasic Endonuclease Activity. <i>Journal of Molecular Biology</i> , 2011, 414, 313-326.	2.0	28
125	Human RECQL5 participates in the removal of endogenous DNA damage. <i>Molecular Biology of the Cell</i> , 2012, 23, 4273-4285.	0.9	28
126	Diverse Small Molecule Inhibitors of Human Apurinic/Apyrimidinic Endonuclease APE1 Identified from a Screen of a Large Public Collection. <i>PLoS ONE</i> , 2012, 7, e47974.	1.1	28



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127	Werner syndrome protein 1367 variants and disposition towards coronary artery disease in Caucasian patients. <i>Mechanisms of Ageing and Development</i> , 2004, 125, 491-496.	2.2	27
128	Estimating the Effect of Human Base Excision Repair Protein Variants on the Repair of Oxidative DNA Base Damage. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2006, 15, 1000-1008.	1.1	27
129	Acute Ethanol Exposure Suppresses the Repair of O6-Methylguanine DNA Lesions in Castrated Adult Male Rats. <i>Alcoholism: Clinical and Experimental Research</i> , 1994, 18, 1267-1271.	1.4	26
130	Expression specificity of the mouse exonuclease 1 (mExo1) gene. <i>Nucleic Acids Research</i> , 1999, 27, 4114-4120.	6.5	25
131	Complementary functions of the <i>Saccharomyces cerevisiae</i> Rad2 family nucleases in Okazaki fragment maturation, mutation avoidance, and chromosome stability. <i>DNA Repair</i> , 2003, 2, 925-940.	1.3	25
132	Targeting DNA repair proteins for cancer treatment. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 3569-3572.	2.4	25
133	XRCC1 haploinsufficiency in mice has little effect on aging, but adversely modifies exposure-dependent susceptibility. <i>Nucleic Acids Research</i> , 2011, 39, 7992-8004.	6.5	25
134	Apurinic endonuclease-1 preserves neural genome integrity to maintain homeostasis and thermoregulation and prevent brain tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12285-E12294.	3.3	25
135	Regulation of eukaryotic abasic endonucleases and their role in genetic stability.. <i>Environmental Health Perspectives</i> , 1997, 105, 931-934.	2.8	24
136	Improved Immunodetection of Nuclear Antigens After Sodium Dodecyl Sulfate Treatment of Formaldehyde-fixed Cells. <i>Journal of Histochemistry and Cytochemistry</i> , 1999, 47, 1095-1100.	1.3	24
137	A systematic genome-wide mapping of oncogenic mutation selection during CRISPR-Cas9 genome editing. <i>Nature Communications</i> , 2021, 12, 6512.	5.8	24
138	NEIL1 Responds and Binds to Psoralen-induced DNA Interstrand Crosslinks. <i>Journal of Biological Chemistry</i> , 2013, 288, 12426-12436.	1.6	23
139	Endonuclease FEN1 Coregulates ER $\alpha$ Activity and Provides a Novel Drug Interface in Tamoxifen-Resistant Breast Cancer. <i>Cancer Research</i> , 2020, 80, 1914-1926.	0.4	23
140	Oxidative DNA damage background estimated by a system model of base excision repair. <i>Free Radical Biology and Medicine</i> , 2004, 37, 422-427.	1.3	22
141	Identification and Quantification of DNA Repair Protein Apurinic/Apyrimidinic Endonuclease 1 (APE1) in Human Cells by Liquid Chromatography/Isotope-Dilution Tandem Mass Spectrometry. <i>PLoS ONE</i> , 2013, 8, e69894.	1.1	22
142	APE1 Incision Activity at Abasic Sites in Tandem Repeat Sequences. <i>Journal of Molecular Biology</i> , 2014, 426, 2183-2198.	2.0	22
143	Systematic analysis of DNA crosslink repair pathways during development and aging in <i>Caenorhabditis elegans</i> . <i>Nucleic Acids Research</i> , 2017, 45, 9467-9480.	6.5	22
144	Elements That Regulate the DNA Damage Response of Proteins Defective in Cockayne Syndrome. <i>Journal of Molecular Biology</i> , 2016, 428, 62-78.	2.0	21

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145	DNA Repair Molecular Beacon assay: a platform for real-time functional analysis of cellular DNA repair capacity. <i>Oncotarget</i> , 2018, 9, 31719-31743.	0.8	21
146	Fragment- and structure-based drug discovery for developing therapeutic agents targeting the DNA Damage Response. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 163, 130-142.	1.4	21
147	Lead promotes abasic site accumulation and co-mutagenesis in mammalian cells by inhibiting the major abasic endonuclease Ape1. <i>Molecular Carcinogenesis</i> , 2007, 46, 91-99.	1.3	19
148	A novel link to base excision repair?. <i>Trends in Biochemical Sciences</i> , 2010, 35, 247-252.	3.7	18
149	Comparison of the promoters of the mouse (APEX) and human (APE) apurinic endonuclease genes. <i>Mutation Research DNA Repair</i> , 1997, 385, 159-172.	3.8	17
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