David M Wilson

List of Publications by Year in descending order

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174 papers 13,102 citations

63 h-index 27406 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.	2.8	560
2	The major human abasic endonuclease: formation, consequences and repair of abasic lesions in DNA. Mutation Research DNA Repair, 2001, 485, 283-307.	3.7	349
3	Interaction of human apurinic endonuclease and DNA polymerase in the base excision repair pathway. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7166-7169.	7.1	344
4	A High-Fat Diet and NAD + Activate Sirt1 to Rescue Premature Aging in Cockayne Syndrome. Cell Metabolism, 2014, 20, 840-855.	16.2	306
5	The mechanics of base excision repair, and its relationship to aging and disease. DNA Repair, 2007, 6, 544-559.	2.8	280
6	Protecting the mitochondrial powerhouse. Trends in Cell Biology, 2015, 25, 158-170.	7.9	260
7	Overview of Base Excision Repair Biochemistry. Current Molecular Pharmacology, 2012, 5, 3-13.	1.5	253
8	Incision Activity of Human Apurinic Endonuclease (Ape) at Abasic Site Analogs in DNA. Journal of Biological Chemistry, 1995, 270, 16002-16007.	3.4	252
9	Oxidative damage in telomeric DNA disrupts recognition by TRF1 and TRF2. Nucleic Acids Research, 2005, 33, 1230-1239.	14.5	237
10	The Werner syndrome protein operates in base excision repair and cooperates with DNA polymerase Â. Nucleic Acids Research, 2006, 34, 745-754.	14.5	228
11	Molecular mechanisms of sister-chromatid exchange. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2007, 616, 11-23.	1.0	228
12	Life without DNA repair. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12754-12757.	7.1	219
13	Human Apurinic/Apyrimidinic Endonuclease 1. Antioxidants and Redox Signaling, 2014, 20, 678-707.	5.4	211
14	Functional characterization of Apel variants identified in the human population. Nucleic Acids Research, 2000, 28, 3871-3879.	14.5	207
15	Participation of DNA repair in the response to 5-fluorouracil. Cellular and Molecular Life Sciences, 2009, 66, 788-799.	5.4	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.	2.3	192
17	Urea Cycle Dysregulation Generates Clinically Relevant Genomic and Biochemical Signatures. Cell, 2018, 174, 1559-1570.e22.	28.9	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.	1.0	179

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19	Coordination of DNA single strand break repair. Free Radical Biology and Medicine, 2017, 107, 228-244.	2.9	179
20	Cockayne syndrome group B protein prevents the accumulation of damaged mitochondria by promoting mitochondrial autophagy. Journal of Experimental Medicine, 2012, 209, 855-869.	8.5	177
21	Two divalent metal ions in the active site of a new crystal form of human apurinic/apyrimidinic endonuclease, ape1: implications for the catalytic mechanism 1 1Edited by I. A. Wilson. Journal of Molecular Biology, 2001, 307, 1023-1034.	4.2	173
22	XRCC1 co-localizes and physically interacts with PCNA. Nucleic Acids Research, 2004, 32, 2193-2201.	14.5	172
23	3'-Phosphodiesterase activity of human apurinic/apyrimidinic endonuclease at DNA double-strand break ends. Nucleic Acids Research, 1997, 25, 2495-2500.	14.5	160
24	The RAD2 Domain of Human Exonuclease 1 Exhibits $5\hat{a} \in \mathbb{Z}^2$ to $3\hat{a} \in \mathbb{Z}^2$ Exonuclease and Flap Structure-specific Endonuclease Activities. Journal of Biological Chemistry, 1999, 274, 37763-37769.	3.4	160
25	DNA Damage and Associated DNA Repair Defects in Disease and Premature Aging. American Journal of Human Genetics, 2019, 105, 237-257.	6.2	143
26	Processing of bistranded abasic DNA clusters in Â-irradiated human hematopoietic cells. Nucleic Acids Research, 2004, 32, 5609-5620.	14.5	127
27	Protein?protein interactions and posttranslational modifications in mammalian base excision repair. Free Radical Biology and Medicine, 2005, 38, 1121-1138.	2.9	126
28	Stoichiometry of Base Excision Repair Proteins Correlates with Increased Somatic CAG Instability in Striatum over Cerebellum in Huntington's Disease Transgenic Mice. PLoS Genetics, 2009, 5, e1000749.	3.5	124
29	Cockayne syndrome group B protein promotes mitochondrial DNA stability by supporting the DNA repair association with the mitochondrial membrane. FASEB Journal, 2010, 24, 2334-2346.	0.5	124
30	Determinants in nuclease specificity of ape1 and ape2, human homologues of Escherichia coli exonuclease III. Journal of Molecular Biology, 2002, 316, 853-866.	4.2	122
31	Pathways for repairing and tolerating the spectrum of oxidative DNA lesions. Cancer Letters, 2012, 327, 61-72.	7.2	118
32	Repair mechanisms for oxidative DNA damage. Frontiers in Bioscience - Landmark, 2003, 8, d963-981.	3.0	117
33	The role of Mg2+ 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. Journal of Molecular Biology, 1999, 290, 447-457.	4.2	113
34	DNA polymerase \hat{l}^2 deficiency leads to neurodegeneration and exacerbates Alzheimer disease phenotypes. Nucleic Acids Research, 2015, 43, 943-959.	14.5	110
35	Genomic and protein expression analysis reveals flap endonuclease 1 (FEN1) as a key biomarker in breast and ovarian cancer. Molecular Oncology, 2014, 8, 1326-1338.	4.6	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. Journal of Molecular Biology, 2008, 379, 17-27.	4.2	106

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37	Uracil residues dependent on the deaminase AID in immunoglobulin gene variable and switch regions. Nature Immunology, 2011, 12, 70-76.	14.5	106
38	Impact of DNA polymorphisms in key DNA base excision repair proteins on cancer risk. Human and Experimental Toxicology, 2012, 31, 981-1005.	2.2	106
39	Hex1: a new human Rad2 nuclease family member with homology to yeast exonuclease 1. Nucleic Acids Research, 1998, 26, 3762-3768.	14.5	105
40	Second human protein with homology to the Escherichia coli abasic endonuclease exonuclease III. Environmental and Molecular Mutagenesis, 2000, 36, 312-324.	2.2	104
41	Cockayne syndrome B protein stimulates apurinic endonuclease 1 activity and protects against agents that introduce base excision repair intermediates. Nucleic Acids Research, 2007, 35, 4103-4113.	14.5	104
42	Variation in base excision repair capacity. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 711, 100-112.	1.0	104
43	Identification and Characterization of Inhibitors of Human Apurinic/apyrimidinic Endonuclease APE1. PLoS ONE, 2009, 4, e5740.	2.5	100
44	Synthesis, Biological Evaluation, and Structure–Activity Relationships of a Novel Class of Apurinic/Apyrimidinic Endonuclease 1 Inhibitors. Journal of Medicinal Chemistry, 2012, 55, 3101-3112.	6.4	99
45	Inhibition of Ape1 nuclease activity by lead, iron, and cadmium Environmental Health Perspectives, 2004, 112, 799-804.	6.0	98
46	Elements in abasic site recognition by the major human and Escherichia coli apurinic/apyrimidinic endonucleases. Nucleic Acids Research, 1998, 26, 2771-2778.	14.5	96
47	Abasic Site Binding by the Human Apurinic Endonuclease, Ape, and Determination of the DNA Contact Sites. Nucleic Acids Research, 1997, 25, 933-939.	14.5	95
48	The Human Interferon- and Estrogen-Regulated <i>ISG20/HEM45</i> Gene Product Degrades Single-Stranded RNA and DNA in Vitro. Biochemistry, 2001, 40, 7174-7179.	2.5	90
49	A Dominant-Negative Form of the Major Human Abasic Endonuclease Enhances Cellular Sensitivity to Laboratory and Clinical DNA-Damaging Agents. Molecular Cancer Research, 2007, 5, 61-70.	3.4	90
50	Properties of and Substrate Determinants for the Exonuclease Activity of Human Apurinic Endonuclease Ape1. Journal of Molecular Biology, 2003, 330, 1027-1037.	4.2	89
51	Mitochondrial DNA, base excision repair and neurodegeneration. DNA Repair, 2008, 7, 1098-1109.	2.8	89
52	Small molecule inhibitors of DNA repair nuclease activities of APE1. Cellular and Molecular Life Sciences, 2010, 67, 3621-3631.	5.4	88
53	Oxidative stress and impaired oligodendrocyte precursor cell differentiation in neurological disorders. Cellular and Molecular Life Sciences, 2021, 78, 4615-4637.	5.4	85
54	Intrusion of a DNA Repair Protein in the RNome World: Is This the Beginning of a New Era?. Molecular and Cellular Biology, 2010, 30, 366-371.	2.3	82

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55	Synthetic lethal targeting of DNA doubleâ€strand break repair deficient cells by human apurinic/apyrimidinic endonuclease inhibitors. International Journal of Cancer, 2012, 131, 2433-2444.	5.1	79
56	DNA Polymerase Beta Participates in Mitochondrial DNA Repair. Molecular and Cellular Biology, 2017, 37, .	2.3	77
57	Aprataxin localizes to mitochondria and preserves mitochondrial function. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7437-7442.	7.1	76
58	Regulation of WRN Helicase Activity in Human Base Excision Repair. Journal of Biological Chemistry, 2004, 279, 53465-53474.	3.4	75
59	Direct and indirect roles of RECQL4 in modulating base excision repair capacity. Human Molecular Genetics, 2009, 18, 3470-3483.	2.9	75
60	Impairment of APE1 Function Enhances Cellular Sensitivity to Clinically Relevant Alkylators and Antimetabolites. Molecular Cancer Research, 2009, 7, 897-906.	3.4	73
61	The Involvement of DNA-Damage and -Repair Defects in Neurological Dysfunction. American Journal of Human Genetics, 2008, 82, 539-566.	6.2	72
62	Cockayne syndrome group A and B proteins converge on transcription-linked resolution of non-B DNA. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12502-12507.	7.1	72
63	A quantitative model of human DNA base excision repair. I. mechanistic insights. Nucleic Acids Research, 2002, 30, 1817-1825.	14.5	71
64	Human AP endonuclease (APE1) demonstrates endonucleolytic activity against AP sites in single-stranded DNA. DNA Repair, 2004, 3, 527-533.	2.8	69
65	Neil1 is a genetic modifier of somatic and germline CAG trinucleotide repeat instability in R6/1 mice. Human Molecular Genetics, 2012, 21, 4939-4947.	2.9	66
66	The excitatory neurotransmitter glutamate stimulates DNA repair to increase neuronal resiliency. Mechanisms of Ageing and Development, 2011, 132, 405-411.	4.6	65
67	Base excision repair and the central nervous system. Neuroscience, 2007, 145, 1187-1200.	2.3	63
68	Development and evaluation of human AP endonuclease inhibitors in melanoma and glioma cell lines. British Journal of Cancer, 2011, 104, 653-663.	6.4	63
69	New insights into the structure of abasic DNA from molecular dynamics simulations. Nucleic Acids Research, 2000, 28, 2613-2626.	14.5	62
70	Characterization of Mg2+ Binding to the DNA Repair Protein Apurinic/Apyrimidic Endonuclease 1 via Solid-State 25Mg NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 9332-9341.	13.7	62
71	Nucleophosmin modulates stability, activity, and nucleolar accumulation of base excision repair proteins. Molecular Biology of the Cell, 2014, 25, 1641-1652.	2.1	62
72	Molecular interactions of human Exo1 with DNA. Nucleic Acids Research, 2002, 30, 942-949.	14.5	61

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73	Mapping the protein-DNA interface and the metal-binding site of the major human apurinic/apyrimidinic endonuclease. Journal of Molecular Biology, 2000, 298, 447-459.	4.2	59
74	XRCC1 and DNA polymerase \hat{l}^2 interaction contributes to cellular alkylating-agent resistance and single-strand break repair. Journal of Cellular Biochemistry, 2005, 95, 794-804.	2.6	59
75	Repair of persistent strand breaks in the mitochondrial genome. Mechanisms of Ageing and Development, 2012, 133, 169-175.	4.6	57
76	Telomere Repeat Binding Factor 2 Interacts with Base Excision Repair Proteins and Stimulates DNA Synthesis by DNA Polymerase \hat{l}^2 . Cancer Research, 2006, 66, 113-124.	0.9	56
77	XRCC1 coordinates disparate responses and multiprotein repair complexes depending on the nature and context of the DNA damage. Environmental and Molecular Mutagenesis, 2011, 52, 623-635.	2.2	56
78	Human Cockayne syndrome B protein reciprocally communicates with mitochondrial proteins and promotes transcriptional elongation. Nucleic Acids Research, 2012, 40, 8392-8405.	14.5	56
79	Inhibitors of the apurinic/apyrimidinic endonuclease 1 (APE1)/nucleophosmin (NPM1) interaction that display anti-tumor properties. Molecular Carcinogenesis, 2016, 55, 688-704.	2.7	56
80	DNA base excision repair activities and pathway function in mitochondrial and cellular lysates from cells lacking mitochondrial DNA. Nucleic Acids Research, 2004, 32, 2181-2192.	14.5	53
81	A real-time fluorescence method for enzymatic characterization of specialized human DNA polymerases. Nucleic Acids Research, 2009, 37, e128-e128.	14.5	53
82	Modulation of DNA base excision repair during neuronal differentiation. Neurobiology of Aging, 2013, 34, 1717-1727.	3.1	52
83	Cloning of theDrosophilaribosomal protein S3: another multifunctional ribosomal protein with AP endonuclease DNA repair activity. Nucleic Acids Research, 1993, 21, 2516-2516.	14.5	51
84	DNA damage, DNA repair, ageing and age-related disease. Mechanisms of Ageing and Development, 2008, 129, 349-352.	4.6	51
85	Direct interaction between XRCC1 and UNG2 facilitates rapid repair of uracil in DNA by XRCC1 complexes. DNA Repair, 2010, 9, 785-795.	2.8	51
86	XRCC1 suppresses somatic hypermutation and promotes alternative nonhomologous end joining in <i>lgh</i> genes. Journal of Experimental Medicine, 2011, 208, 2209-2216.	8.5	51
87	Base excision repair in the mammalian brain: Implication for age related neurodegeneration. Mechanisms of Ageing and Development, 2013, 134, 440-448.	4.6	50
88	Ape 1 Abasic Endonuclease Activity is Regulated by Magnesium and Potassium Concentrations and is Robust on Alternative DNA Structures. Journal of Molecular Biology, 2005, 345, 1003-1014.	4.2	49
89	CSB interacts with SNM1A and promotes DNA interstrand crosslink processing. Nucleic Acids Research, 2015, 43, 247-258.	14.5	48
90	Connecting aging biology and inflammation in the omics era. Journal of Clinical Investigation, 2022, 132, .	8.2	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. Oncotarget, 2014, 5, 3273-3286.	1.8	47
92	Removal by human apurinic/apyrimidinic endonuclease 1 (Ape 1) and Escherichia coli exonuclease III of $3\hat{a}\in^2$ -phosphoglycolates from DNA treated with neocarzinostatin, calicheamicin, and \hat{l}^3 -radiation. Biochemical Pharmacology, 1999, 57, 531-538.	4.4	46
93	Human abasic endonuclease action on multilesion abasic clusters: implications for radiation-induced biological damage. Nucleic Acids Research, 2008, 36, 2717-2727.	14.5	46
94	Lucanthone and Its Derivative Hycanthone Inhibit Apurinic Endonuclease-1 (APE1) by Direct Protein Binding. PLoS ONE, 2011, 6, e23679.	2.5	45
95	The Human Homolog of Escherichia coli Orn Degrades Small Single-stranded RNA and DNA Oligomers. Journal of Biological Chemistry, 2000, 275, 25900-25906.	3.4	44
96	Characterization of the Endoribonuclease Active Site of Human Apurinic/Apyrimidinic Endonuclease 1. Journal of Molecular Biology, 2011, 411, 960-971.	4.2	44
97	Androgen receptor-binding sites are highly mutated in prostate cancer. Nature Communications, 2020, 11, 832.	12.8	44
98	Complementary non-radioactive assays for investigation of human flap endonuclease 1 activity. Nucleic Acids Research, 2011, 39, e11-e11.	14.5	43
99	Functional capacity of XRCC1 protein variants identified in DNA repair-deficient Chinese hamster ovary cell lines and the human population. Nucleic Acids Research, 2010, 38, 5023-5035.	14.5	42
100	APE1 deficiency promotes cellular senescence and premature aging features. Nucleic Acids Research, 2018, 46, 5664-5677.	14.5	41
101	Base Excision Repair: Contribution to Tumorigenesis and Target in Anticancer Treatment Paradigms. Current Medicinal Chemistry, 2012, 19, 3922-3936.	2.4	40
102	Functions of the major abasic endonuclease (APE1) in cell viability and genotoxin resistance. Mutagenesis, 2020, 35, 27-38.	2.6	40
103	Trans-complementation by human apurinic endonuclease (Ape) of hypersensitivity to DNa damage and spontaneous mutator phenotype in apn 1-yeast. Nucleic Acids Research, 1995, 23, 5027-5033.	14.5	39
104	Identification of factors interacting with hMSH2 in the fetal liver utilizing the yeast two-hybrid system. Mutation Research DNA Repair, 2000, 460, 41-52.	3.7	38
105	Base excision repair capacity in informing healthspan. Carcinogenesis, 2014, 35, 2643-2652.	2.8	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 Endocrinology, 1992, 131, 2488-2490.	2.8	36
107	DNA Damage Levels and Biochemical Repair Capacities Associated with XRCC1 Deficiency. Biochemistry, 2005, 44, 14335-14343.	2.5	36
108	The Nucleotide Sequence, DNA Damage Location, and Protein Stoichiometry Influence the Base Excision Repair Outcome at CAG/CTG Repeats. Biochemistry, 2012, 51, 3919-3932.	2.5	36

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109	Reduced Nuclease Activity of Apurinic/Apyrimidinic Endonuclease (APE1) Variants on Nucleosomes. Journal of Biological Chemistry, 2015, 290, 21067-21075.	3.4	36
110	Investigation of the Role of the Histidine–Aspartate Pair in the Human Exonuclease III-like Abasic Endonuclease, Ape1. Journal of Molecular Biology, 2003, 329, 311-322.	4.2	35
111	DNA damage repair response in mesenchymal stromal cells: From cellular senescence and aging to apoptosis and differentiation ability. Ageing Research Reviews, 2020, 62, 101125.	10.9	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. Environmental and Molecular Mutagenesis, 2007, 48, 491-500.	2.2	34
113	The region of XRCC1 which harbours the three most common nonsynonymous polymorphic variants, is essential for the scaffolding function of XRCC1. DNA Repair, 2012, 11, 357-366.	2.8	34
114	Nucleotide Sequence and DNA Secondary Structure, as Well as Replication Protein A, Modulate the Single-stranded Abasic Endonuclease Activity of APE1. Journal of Biological Chemistry, 2006, 281, 3889-3898.	3.4	33
115	Serum APE1 as a predictive marker for platinum-based chemotherapy of non-small cell lung cancer patients. Oncotarget, 2016, 7, 77482-77494.	1.8	33
116	Disparity between DNA base excision repair in yeast and mammals: translational implications. Cancer Research, 2003, 63, 549-54.	0.9	33
117	Effect of Protein Binding on Ultrafast DNA Dynamics: Characterization of a DNA:APE1 Complex. Biophysical Journal, 2005, 89, 4129-4138.	0.5	32
118	XRCC1 protects against the lethality of induced oxidative DNA damage in nondividing neural cells. Nucleic Acids Research, 2008, 36, 5111-5121.	14.5	31
119	Functional Assessment of Population and Tumor-Associated APE1 Protein Variants. PLoS ONE, 2013, 8, e65922.	2.5	30
120	Characterization of the Promoter Region of the Human Apurinic Endonuclease Gene (APE). Journal of Biological Chemistry, 1995, 270, 5556-5564.	3.4	29
121	Processing of nonconventional DNA strand break ends. Environmental and Molecular Mutagenesis, 2007, 48, 772-782.	2.2	29
122	WRN exonuclease activity is blocked by DNA termini harboring 3′ obstructive groups. Mechanisms of Ageing and Development, 2007, 128, 259-266.	4.6	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. Journal of Biological Chemistry, 2012, 287, 39233-39244.	3.4	29
124	S-Glutathionylation of Cysteine 99 in the APE1 Protein Impairs Abasic Endonuclease Activity. Journal of Molecular Biology, 2011, 414, 313-326.	4.2	28
125	Human RECQL5 participates in the removal of endogenous DNA damage. Molecular Biology of the Cell, 2012, 23, 4273-4285.	2.1	28
126	Diverse Small Molecule Inhibitors of Human Apurinic/Apyrimidinic Endonuclease APE1 Identified from a Screen of a Large Public Collection. PLoS ONE, 2012, 7, e47974.	2.5	28

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127	Werner syndrome protein 1367 variants and disposition towards coronary artery disease in Caucasian patients. Mechanisms of Ageing and Development, 2004, 125, 491-496.	4.6	27
128	Estimating the Effect of Human Base Excision Repair Protein Variants on the Repair of Oxidative DNA Base Damage. Cancer Epidemiology Biomarkers and Prevention, 2006, 15, 1000-1008.	2.5	27
129	Acute Ethanol Exposure Suppresses the Repair of O6-Methylguanine DNA Lesions in Castrated Adult Male Rats. Alcoholism: Clinical and Experimental Research, 1994, 18, 1267-1271.	2.4	26
130	Expression specificity of the mouse exonuclease 1 (mExo1) gene. Nucleic Acids Research, 1999, 27, 4114-4120.	14.5	25
131	Complementary functions of the Saccharomyces cerevisiae Rad2 family nucleases in Okazaki fragment maturation, mutation avoidance, and chromosome stability. DNA Repair, 2003, 2, 925-940.	2.8	25
132	Targeting DNA repair proteins for cancer treatment. Cellular and Molecular Life Sciences, 2010, 67, 3569-3572.	5.4	25
133	XRCC1 haploinsufficiency in mice has little effect on aging, but adversely modifies exposure-dependent susceptibility. Nucleic Acids Research, 2011, 39, 7992-8004.	14.5	25
134	Apurinic endonuclease-1 preserves neural genome integrity to maintain homeostasis and thermoregulation and prevent brain tumors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12285-E12294.	7.1	25
135	Regulation of eukaryotic abasic endonucleases and their role in genetic stability Environmental Health Perspectives, 1997, 105, 931-934.	6.0	24
136	Improved Immunodetection of Nuclear Antigens After Sodium Dodecyl Sulfate Treatment of Formaldehyde-fixed Cells. Journal of Histochemistry and Cytochemistry, 1999, 47, 1095-1100.	2.5	24
137	A systematic genome-wide mapping of oncogenic mutation selection during CRISPR-Cas9 genome editing. Nature Communications, 2021, 12, 6512.	12.8	24
138	NEIL1 Responds and Binds to Psoralen-induced DNA Interstrand Crosslinks. Journal of Biological Chemistry, 2013, 288, 12426-12436.	3.4	23
139	Endonuclease FEN1 Coregulates ERα Activity and Provides a Novel Drug Interface in Tamoxifen-Resistant Breast Cancer. Cancer Research, 2020, 80, 1914-1926.	0.9	23
140	Oxidative DNA damage background estimated by a system model of base excision repair. Free Radical Biology and Medicine, 2004, 37, 422-427.	2.9	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. PLoS ONE, 2013, 8, e69894.	2.5	22
142	APE1 Incision Activity at Abasic Sites in Tandem Repeat Sequences. Journal of Molecular Biology, 2014, 426, 2183-2198.	4.2	22
143	Systematic analysis of DNA crosslink repair pathways during development and aging in Caenorhabditis elegans. Nucleic Acids Research, 2017, 45, 9467-9480.	14.5	22
144	Elements That Regulate the DNA Damage Response of Proteins Defective in Cockayne Syndrome. Journal of Molecular Biology, 2016, 428, 62-78.	4.2	21

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145	DNA Repair Molecular Beacon assay: a platform for real-time functional analysis of cellular DNA repair capacity. Oncotarget, 2018, 9, 31719-31743.	1.8	21
146	Fragment- and structure-based drug discovery for developing therapeutic agents targeting the DNA Damage Response. Progress in Biophysics and Molecular Biology, 2021, 163, 130-142.	2.9	21
147	Lead promotes abasic site accumulation and co-mutagenesis in mammalian cells by inhibiting the major abasic endonuclease Ape1. Molecular Carcinogenesis, 2007, 46, 91-99.	2.7	19
148	A novel link to base excision repair?. Trends in Biochemical Sciences, 2010, 35, 247-252.	7.5	18
149	Comparison of the promoters of the mouse (APEX) and human (APE) apurinic endonuclease genes. Mutation Research DNA Repair, 1997, 385, 159-172.	3.7	17
150	Partial loss of the DNA repair scaffolding protein, Xrcc1, results in increased brain damage and reduced recovery from ischemic stroke in mice. Neurobiology of Aging, 2015, 36, 2319-2330.	3.1	17
151	A novel role for transcription-coupled nucleotide excision repair for the <i>in vivo </i> repair of 3, <i>N < sup > 4 </i> - ethenocytosine. Nucleic Acids Research, 2017, 45, gkx015.	14.5	16
152	Nucleic Acid Binding Activity of Human Cockayne Syndrome B Protein and Identification of Ca as a Novel Metal Cofactor. Journal of Molecular Biology, 2009, 391, 820-832.	4.2	14
153	Tumorâ€associated APE1 variant exhibits reduced complementation efficiency but does not promote cancer cell phenotypes. Environmental and Molecular Mutagenesis, 2017, 58, 84-98.	2.2	13
154	Neurodegeneration: Nicked to Death. Current Biology, 2007, 17, R55-R58.	3.9	12
155	FEN1 Blockade for Platinum Chemo-Sensitization and Synthetic Lethality in Epithelial Ovarian Cancers. Cancers, 2021, 13, 1866.	3.7	12
156	Effects of Ape1 overexpression on cellular resistance to DNA-damaging and anticancer agents. Somatic Cell and Molecular Genetics, 1999, 25, 253-262.	0.7	11
157	Development of a Cell-Based Assay for Measuring Base Excision Repair Responses. Scientific Reports, 2017, 7, 13007.	3.3	10
158	Non-muscle invasive bladder cancer tissues have increased base excision repair capacity. Scientific Reports, 2020, 10, 16371.	3.3	10
159	Altered Endoribonuclease Activity of Apurinic/Apyrimidinic Endonuclease 1 Variants Identified in the Human Population. PLoS ONE, 2014, 9, e90837.	2.5	9
160	Genomic Structure and Characterization of the Drosophila S3Ribosomal/DNA Repair Gene and Mutant Alleles. DNA and Cell Biology, 2000, 19, 149-156.	1.9	8
161	Regulation of the Intranuclear Distribution of the Cockayne Syndrome Proteins. Scientific Reports, 2018, 8, 17490.	3.3	8
162	NEK1 deficiency affects mitochondrial functions and the transcriptome of key DNA repair pathways. Mutagenesis, 2021, 36, 223-236.	2.6	8

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163	LEO1 is a partner for Cockayne syndrome protein B (CSB) in response to transcription-blocking DNA damage. Nucleic Acids Research, 2021, 49, 6331-6346.	14.5	8
164	Special Issue on the segmental progeria Cockayne syndrome. Mechanisms of Ageing and Development, 2013, 134, 159-160.	4.6	7
165	Genome Integrity and Neurological Disease. International Journal of Molecular Sciences, 2022, 23, 4142.	4.1	6
166	Early Drug Discovery and Development of Novel Cancer Therapeutics Targeting DNA Polymerase Eta (POLH). Frontiers in Oncology, 2021, 11, 778925.	2.8	5
167	Identification of the human HEX1/hExo1 gene promoter and characterization of elements responsible for promoter activity. DNA Repair, 2003, 2, 187-198.	2.8	4
168	Regulation of Eukaryotic Abasic Endonucleases and Their Role in Genetic Stability. Environmental Health Perspectives, 1997, 105, 931.	6.0	3
169	Second human protein with homology to the Escherichia coli abasic endonuclease exonuclease III. Environmental and Molecular Mutagenesis, 2000, 36, 312-324.	2.2	3
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173	XRCC1 suppresses somatic hypermutation and promotes alternative nonhomologous end joining in <i> Igh < i > Igh < Igh < i > Igh < Igh < i > Igh < i > Igh < Igh < i > Igh < Igh <</i>	5.2	O
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