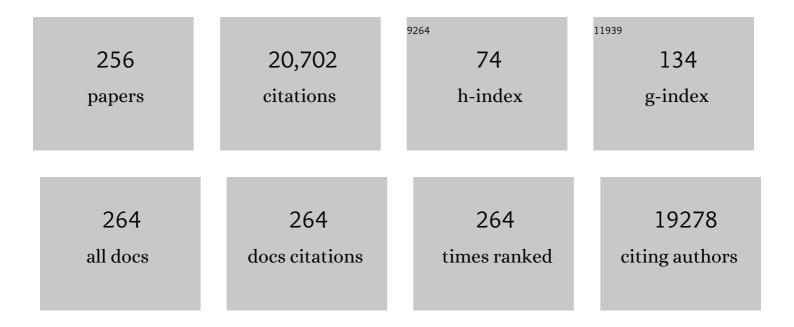
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Trapping of PARP1 and PARP2 by Clinical PARP Inhibitors. Cancer Research, 2012, 72, 5588-5599.	0.9	1,657
2	Homologous recombination and non-homologous end-joining pathways of DNA double-strand break repair have overlapping roles in the maintenance of chromosomal integrity in vertebrate cells. EMBO Journal, 1998, 17, 5497-5508.	7.8	1,076
3	Stereospecific PARP Trapping by BMN 673 and Comparison with Olaparib and Rucaparib. Molecular Cancer Therapeutics, 2014, 13, 433-443.	4.1	627
4	Increased ratio of targeted to random integration after transfection of chicken B cell lines. Cell, 1991, 67, 179-188.	28.9	541
5	Chromosome Instability and Defective Recombinational Repair in Knockout Mutants of the Five Rad51 Paralogs. Molecular and Cellular Biology, 2001, 21, 2858-2866.	2.3	495
6	Cyclin-dependent kinases and cell-cycle transitions: does one fit all?. Nature Reviews Molecular Cell Biology, 2008, 9, 910-916.	37.0	453
7	Differential usage of non-homologous end-joining and homologous recombination in double strand break repair. DNA Repair, 2006, 5, 1021-1029.	2.8	428
8	Sister Chromatid Exchanges Are Mediated by Homologous Recombination in Vertebrate Cells. Molecular and Cellular Biology, 1999, 19, 5166-5169.	2.3	392
9	MHC Class II Molecules Are Not Required for Survival of Newly Generated CD4+ T Cells, but Affect Their Long-Term Life Span. Immunity, 1996, 5, 217-228.	14.3	341
10	DNA Damage-Dependent Acetylation and Ubiquitination of H2AX Enhances Chromatin Dynamics. Molecular and Cellular Biology, 2007, 27, 7028-7040.	2.3	327
11	Thioredoxin-2 (TRX-2) is an essential gene regulating mitochondria-dependent apoptosis. EMBO Journal, 2002, 21, 1695-1703.	7.8	287
12	Poly(ADP-Ribose) Polymerase 1 Accelerates Single-Strand Break Repair in Concert with Poly(ADP-Ribose) Glycohydrolase. Molecular and Cellular Biology, 2007, 27, 5597-5605.	2.3	266
13	Nbs1 is essential for DNA repair by homologous recombination in higher vertebrate cells. Nature, 2002, 420, 93-98.	27.8	263
14	Reduced X-Ray Resistance and Homologous Recombination Frequencies in a RAD54 Mutant of the Chicken DT40 Cell Line. Cell, 1997, 89, 185-193.	28.9	259
15	Scc1/Rad21/Mcd1 Is Required for Sister Chromatid Cohesion and Kinetochore Function in Vertebrate Cells. Developmental Cell, 2001, 1, 759-770.	7.0	255
16	The Rad51 Paralog Rad51B Promotes Homologous Recombinational Repair. Molecular and Cellular Biology, 2000, 20, 6476-6482.	2.3	242
17	Parp-1 protects homologous recombination from interference by Ku and Ligase IV in vertebrate cells. EMBO Journal, 2006, 25, 1305-1314.	7.8	237
18	Rationale for Poly(ADP-ribose) Polymerase (PARP) Inhibitors in Combination Therapy with Camptothecins or Temozolomide Based on PARP Trapping versus Catalytic Inhibition. Journal of Pharmacology and Experimental Therapeutics, 2014, 349, 408-416.	2.5	237

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19	Dual Roles for DNA Polymerase η in Homologous DNA Recombination and Translesion DNA Synthesis. Molecular Cell, 2005, 20, 793-799.	9.7	230
20	Homologous Recombination, but Not DNA Repair, Is Reduced in Vertebrate Cells Deficient in <i>RAD52</i> . Molecular and Cellular Biology, 1998, 18, 6430-6435.	2.3	224
21	Ablation of XRCC2/3 transforms immunoglobulin V gene conversion into somatic hypermutation. Nature, 2001, 412, 921-926.	27.8	210
22	A Critical Role for the Ubiquitin-Conjugating Enzyme Ubc13 in Initiating Homologous Recombination. Molecular Cell, 2007, 25, 663-675.	9.7	210
23	Inhibition of Homologous Recombination by the PCNA-Interacting Protein PARI. Molecular Cell, 2012, 45, 75-86.	9.7	196
24	REV1 Protein Interacts with PCNA: Significance of the REV1 BRCT Domain In Vitro and In Vivo. Molecular Cell, 2006, 23, 265-271.	9.7	193
25	PARP-1 ensures regulation of replication fork progression by homologous recombination on damaged DNA. Journal of Cell Biology, 2008, 183, 1203-1212.	5.2	184
26	Multiple roles of Rev3, the catalytic subunit of pol in maintaining genome stability in vertebrates. EMBO Journal, 2003, 22, 3188-3197.	7.8	183
27	Ubiquitin-Binding Motifs in REV1 Protein Are Required for Its Role in the Tolerance of DNA Damage. Molecular and Cellular Biology, 2006, 26, 8892-8900.	2.3	183
28	Centrosome amplification induced by DNA damage occurs during a prolonged G2 phase and involves ATM. EMBO Journal, 2004, 23, 3864-3873.	7.8	176
29	Multiple Repair Pathways Mediate Tolerance to Chemotherapeutic Cross-linking Agents in Vertebrate Cells. Cancer Research, 2005, 65, 11704-11711.	0.9	172
30	Involvement of SLX4 in interstrand cross-link repair is regulated by the Fanconi anemia pathway. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6492-6496.	7.1	169
31	RAD51 Up-regulation Bypasses <i>BRCA1</i> Function and Is a Common Feature of <i>BRCA1</i> -Deficient Breast Tumors. Cancer Research, 2007, 67, 9658-9665.	0.9	156
32	Tyrosyl-DNA Phosphodiesterase 1 (TDP1) Repairs DNA Damage Induced by Topoisomerases I and II and Base Alkylation in Vertebrate Cells. Journal of Biological Chemistry, 2012, 287, 12848-12857.	3.4	155
33	Cells Deficient in the FANC/BRCA Pathway Are Hypersensitive to Plasma Levels of Formaldehyde. Cancer Research, 2007, 67, 11117-11122.	0.9	154
34	Efficient rejoining of radiation-induced DNA double-strand breaks in vertebrate cells deficient in genes of the RAD52 epistasis group. Oncogene, 2001, 20, 2212-2224.	5.9	149
35	XRCC3 and Rad51 Modulate Replication Fork Progression on Damaged Vertebrate Chromosomes. Molecular Cell, 2003, 11, 1109-1117.	9.7	148
36	Mre11 Is Essential for the Removal of Lethal Topoisomerase 2 Covalent Cleavage Complexes. Molecular Cell, 2016, 64, 580-592.	9.7	144

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37	Genetic Analysis of the DNA-dependent Protein Kinase Reveals an Inhibitory Role of Ku in Late S–G2 Phase DNA Double-strand Break Repair. Journal of Biological Chemistry, 2001, 276, 44413-44418.	3.4	142
38	An essential role for Cdk1 in S phase control is revealed via chemical genetics in vertebrate cells. Journal of Cell Biology, 2007, 178, 257-268.	5.2	139
39	Anti-tumour compounds illudin S and Irofulven induce DNA lesions ignored by global repair and exclusively processed by transcription- and replication-coupled repair pathways. DNA Repair, 2002, 1, 1027-1038.	2.8	137
40	Generation of medaka gene knockout models by target-selected mutagenesis. Genome Biology, 2006, 7, R116.	9.6	137
41	Production of Extrachromosomal MicroDNAs Is Linked to Mismatch Repair Pathways and Transcriptional Activity. Cell Reports, 2015, 11, 1749-1759.	6.4	135
42	Collaborative Action of Brca1 and CtIP in Elimination of Covalent Modifications from Double-Strand Breaks to Facilitate Subsequent Break Repair. PLoS Genetics, 2010, 6, e1000828.	3.5	133
43	EDEM2 initiates mammalian glycoprotein ERAD by catalyzing the first mannose trimming step. Journal of Cell Biology, 2014, 206, 347-356.	5.2	131
44	Human topoisomerases and their roles in genome stability and organization. Nature Reviews Molecular Cell Biology, 2022, 23, 407-427.	37.0	125
45	Genetic Evidence That the Non-Homologous End-Joining Repair Pathway Is Involved in LINE Retrotransposition. PLoS Genetics, 2009, 5, e1000461.	3.5	121
46	RAD18 and RAD54 cooperatively contribute to maintenance of genomic stability in vertebrate cells. EMBO Journal, 2002, 21, 5558-5566.	7.8	120
47	Vertebrate POLQ and POLÎ ² Cooperate in Base Excision Repair of Oxidative DNA Damage. Molecular Cell, 2006, 24, 115-125.	9.7	119
48	Functional relationships of FANCC to homologous recombination, translesion synthesis, and BLM. EMBO Journal, 2005, 24, 418-427.	7.8	117
49	Differential and Common DNA Repair Pathways for Topoisomerase I- and II-Targeted Drugs in a Genetic DT40 Repair Cell Screen Panel. Molecular Cancer Therapeutics, 2014, 13, 214-220.	4.1	116
50	Ctp1/CtIP and the MRN Complex Collaborate in the Initial Steps of Homologous Recombination. Molecular Cell, 2007, 28, 351-352.	9.7	115
51	Dynamic Control of Rad51 Recombinase by Self-Association and Interaction with BRCA2. Molecular Cell, 2003, 12, 1029-1041.	9.7	110
52	Crystal Structure of Human REV7 in Complex with a Human REV3 Fragment and Structural Implication of the Interaction between DNA Polymerase ζ and REV1. Journal of Biological Chemistry, 2010, 285, 12299-12307.	3.4	110
53	The Essential Functions of Human Rad51 Are Independent of ATP Hydrolysis. Molecular and Cellular Biology, 1999, 19, 6891-6897.	2.3	108
54	Multiple Roles of Vertebrate REV Genes in DNA Repair and Recombination. Molecular and Cellular Biology, 2005, 25, 6103-6111.	2.3	105

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55	Inhibitors of the Proteasome Suppress Homologous DNA Recombination in Mammalian Cells. Cancer Research, 2007, 67, 8536-8543.	0.9	105
56	The USP1/UAF1 Complex Promotes Double-Strand Break Repair through Homologous Recombination. Molecular and Cellular Biology, 2011, 31, 2462-2469.	2.3	104
57	Spatial Chromosome Folding and Active Transcription Drive DNA Fragility and Formation of Oncogenic MLL Translocations. Molecular Cell, 2019, 75, 267-283.e12.	9.7	104
58	Werner and Bloom helicases are involved in DNA repair in a complementary fashion. Oncogene, 2002, 21, 954-963.	5.9	102
59	Disruption of ATM in p53-null cells causes multiple functional abnormalities in cellular response to ionizing radiation. Oncogene, 1999, 18, 7002-7009.	5.9	100
60	CtIP and MRN promote non-homologous end-joining of etoposide-induced DNA double-strand breaks in G1. Nucleic Acids Research, 2011, 39, 2144-2152.	14.5	97
61	Oxidative stress at low levels can induce clustered DNA lesions leading to NHEJ mediated mutations. Oncotarget, 2016, 7, 25377-25390.	1.8	96
62	Reverse genetic studies of the DNA damage response in the chicken B lymphocyte line DT40. DNA Repair, 2004, 3, 1175-1185.	2.8	94
63	Regulation of the Fanconi anemia pathway by a SUMO-like delivery network. Genes and Development, 2011, 25, 1847-1858.	5.9	93
64	Generation and iterative affinity maturation of antibodies in vitro using hypermutating B-cell lines. Nature Biotechnology, 2002, 20, 1129-1134.	17.5	92
65	Genotoxic potentials and related mechanisms of bisphenol A and other bisphenol compounds: A comparison study employing chicken DT40 cells. Chemosphere, 2013, 93, 434-440.	8.2	91
66	Genetic dissection of vertebrate 53BP1: A major role in non-homologous end joining of DNA double strand breaks. DNA Repair, 2006, 5, 741-749.	2.8	90
67	Genotoxicity of Several Polybrominated Diphenyl Ethers (PBDEs) and Hydroxylated PBDEs, and Their Mechanisms of Toxicity. Environmental Science & Technology, 2011, 45, 5003-5008.	10.0	90
68	Repriming by PrimPol is critical for DNA replication restart downstream of lesions and chain-terminating nucleosides. Cell Cycle, 2016, 15, 1997-2008.	2.6	88
69	Involvement of Vertebrate Polîº in Rad18-independent Postreplication Repair of UV Damage. Journal of Biological Chemistry, 2002, 277, 48690-48695.	3.4	87
70	ATM and SIRT6/SNF2H Mediate Transient H2AX Stabilization When DSBs Form by Blocking HUWE1 to Allow Efficient Î ³ H2AX Foci Formation. Cell Reports, 2015, 13, 2728-2740.	6.4	87
71	TDP2 promotes repair of topoisomerase I-mediated DNA damage in the absence of TDP1. Nucleic Acids Research, 2012, 40, 8371-8380.	14.5	86
72	Rapid generation of specific antibodies by enhanced homologous recombination. Nature Biotechnology, 2005, 23, 731-735.	17.5	85

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73	Similar Effects of Brca2 Truncation and Rad51 Paralog Deficiency on Immunoglobulin V Gene Diversification in DT40 Cells Support an Early Role for Rad51 Paralogs in Homologous Recombination. Molecular and Cellular Biology, 2005, 25, 1124-1134.	2.3	83
74	Correlation of homologous recombination deficiency induced mutational signatures with sensitivity to PARP inhibitors and cytotoxic agents. Genome Biology, 2019, 20, 240.	8.8	82
75	XRCC1 prevents toxic PARP1 trapping during DNA base excision repair. Molecular Cell, 2021, 81, 3018-3030.e5.	9.7	80
76	A Mutated EGFR Is Sufficient to Induce Malignant Melanoma with Genetic Background-Dependent Histopathologies. Journal of Investigative Dermatology, 2010, 130, 249-258.	0.7	79
77	BRCA1 Haploinsufficiency Is Masked by RNF168-Mediated Chromatin Ubiquitylation. Molecular Cell, 2019, 73, 1267-1281.e7.	9.7	78
78	Differential and collaborative actions of Rad51 paralog proteins in cellular response to DNA damage. Nucleic Acids Research, 2005, 33, 4544-4552.	14.5	77
79	BRCA1 ensures genome integrity by eliminating estrogen-induced pathological topoisomerase Il–DNA complexes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10642-E10651.	7.1	75
80	Myostatin-deficient medaka exhibit a double-muscling phenotype with hyperplasia and hypertrophy, which occur sequentially during post-hatch development. Developmental Biology, 2011, 359, 82-94.	2.0	74
81	KIAA1018/FAN1 nuclease protects cells against genomic instability induced by interstrand cross-linking agents. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21553-21557.	7.1	72
82	DNA Cross-Link Repair Protein SNM1A Interacts with PIAS1 in Nuclear Focus Formation. Molecular and Cellular Biology, 2004, 24, 10733-10741.	2.3	70
83	RAD18 and Poly(ADP-Ribose) Polymerase Independently Suppress the Access of Nonhomologous End Joining to Double-Strand Breaks and Facilitate Homologous Recombination-Mediated Repair. Molecular and Cellular Biology, 2007, 27, 2562-2571.	2.3	70
84	Leptin receptor-deficient (knockout) medaka, Oryzias latipes, show chronical up-regulated levels of orexigenic neuropeptides, elevated food intake and stage specific effects on growth and fat allocation. General and Comparative Endocrinology, 2014, 195, 9-20.	1.8	69
85	The Histone Chaperone Facilitates Chromatin Transcription (FACT) Protein Maintains Normal Replication Fork Rates. Journal of Biological Chemistry, 2011, 286, 30504-30512.	3.4	68
86	Aurora A and Aurora B jointly coordinate chromosome segregation and anaphase microtubule dynamics. Journal of Cell Biology, 2011, 195, 1103-1113.	5.2	68
87	The Unfolded Protein Response Transducer ATF6 Represents a Novel Transmembrane-type Endoplasmic Reticulum-associated Degradation Substrate Requiring Both Mannose Trimming and SEL1L Protein. Journal of Biological Chemistry, 2013, 288, 31517-31527.	3.4	68
88	An ATM- and ATR-dependent checkpoint inactivates spindle assembly by targeting CEP63. Nature Cell Biology, 2009, 11, 278-285.	10.3	67
89	Characteristics of DNA-binding proteins determine the biological sensitivity to high-linear energy transfer radiation. Nucleic Acids Research, 2010, 38, 3245-3251.	14.5	66
90	Genotoxicity and Endocrine-Disruption Potentials of Sediment near an Oil Spill Site: Two Years after the <i>Hebei Spirit</i> Oil Spill. Environmental Science & Technology, 2011, 45, 7481-7488.	10.0	64

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91	ATP13A2 deficiency induces a decrease in cathepsin D activity, fingerprintâ€like inclusion body formation, and selective degeneration of dopaminergic neurons. FEBS Letters, 2013, 587, 1316-1325.	2.8	63
92	Fen-1 Facilitates Homologous Recombination by Removing Divergent Sequences at DNA Break Ends. Molecular and Cellular Biology, 2005, 25, 6948-6955.	2.3	60
93	The Epistatic Relationship between BRCA2 and the Other RAD51 Mediators in Homologous Recombination. PLoS Genetics, 2011, 7, e1002148.	3.5	60
94	Viable Neuronopathic Gaucher Disease Model in Medaka (Oryzias latipes) Displays Axonal Accumulation of Alpha-Synuclein. PLoS Genetics, 2015, 11, e1005065.	3.5	60
95	Type II DNA Topoisomerases Cause Spontaneous Double-Strand Breaks in Genomic DNA. Genes, 2019, 10, 868.	2.4	60
96	Re-evaluation of the probabilities for productive rearrangements on the l̂º andl̂»loci. International Immunology, 1996, 8, 91-99.	4.0	54
97	Simultaneous Disruption of Two DNA Polymerases, Polî• and Polî¶, in Avian DT40 Cells Unmasks the Role of Polî• in Cellular Response to Various DNA Lesions. PLoS Genetics, 2010, 6, e1001151.	3.5	54
98	ATF6α/β-mediated adjustment of ER chaperone levels is essential for development of the notochord in medaka fish. Molecular Biology of the Cell, 2013, 24, 1387-1395.	2.1	51
99	The POLD3 subunit of DNA polymerase \hat{l}' can promote translesion synthesis independently of DNA polymerase $\hat{l}_{\rm I}$. Nucleic Acids Research, 2015, 43, 1671-1683.	14.5	51
100	Post-replication repair in DT40 cells: translesion polymerases versus recombinases. BioEssays, 2004, 26, 151-158.	2.5	50
101	Interplay between DNA polymerases β and λ in repair of oxidation DNA damage in chicken DT40 cells. DNA Repair, 2007, 6, 869-875.	2.8	50
102	Critical Roles for Polymerase ζ in Cellular Tolerance to Nitric Oxide–Induced DNA Damage. Cancer Research, 2006, 66, 748-754.	0.9	49
103	The vital link between the ubiquitin–proteasome pathway and DNA repair: Impact on cancer therapy. Cancer Letters, 2009, 283, 1-9.	7.2	49
104	Cancer risk at low doses of ionizing radiation: artificial neural networks inference from atomic bomb survivors. Journal of Radiation Research, 2014, 55, 391-406.	1.6	49
105	Reverse genetic studies of homologous DNA recombination using the chicken B–lymphocyte line, DT40. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 111-117.	4.0	48
106	Extensive Chromosomal Breaks Are Induced by Tamoxifen and Estrogen in DNA Repair-Deficient Cells. Cancer Research, 2004, 64, 3144-3147.	0.9	47
107	A Novel Approach Using DNA-Repair–Deficient Chicken DT40 Cell Lines for Screening and Characterizing the Genotoxicity of Environmental Contaminants. Environmental Health Perspectives, 2009, 117, 1737-1744.	6.0	47
108	Histone H1 null vertebrate cells exhibit altered nucleosome architecture. Nucleic Acids Research, 2010, 38, 3533-3545.	14.5	47

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109	Characterization of environmental chemicals with potential for DNA damage using isogenic DNA repairâ€deficient chicken DT40 cell lines. Environmental and Molecular Mutagenesis, 2011, 52, 547-561.	2.2	47
110	Effects of double-strand break repair proteins on vertebrate telomere structure. Nucleic Acids Research, 2002, 30, 2862-2870.	14.5	46
111	Proteasome inhibition in medaka brain induces the features of Parkinson's disease. Journal of Neurochemistry, 2010, 115, 178-187.	3.9	46
112	Relative contribution of four nucleases, CtIP, Dna2, Exo1 and Mre11, to the initial step of DNA doubleâ€strand break repair by homologous recombination in both the chicken DT40 and human TK6 cell lines. Genes To Cells, 2015, 20, 1059-1076.	1.2	46
113	Bloom helicase is involved in DNA surveillance in early S phase in vertebrate cells. Oncogene, 2001, 20, 1143-1151.	5.9	44
114	DNA polymerases ν and Î, are required for efficient immunoglobulin V gene diversification in chicken. Journal of Cell Biology, 2010, 189, 1117-1127.	5.2	44
115	PINK1 and Parkin complementarily protect dopaminergic neurons in vertebrates. Human Molecular Genetics, 2013, 22, 2423-2434.	2.9	44
116	Collaborative roles of γH2AX and the Rad51 paralog Xrcc3 in homologous recombinational repair. DNA Repair, 2007, 6, 280-292.	2.8	43
117	KU70/80, DNA-PKcs, and Artemis are essential for the rapid induction of apoptosis after massive DSB formation. Cellular Signalling, 2008, 20, 1978-1985.	3.6	43
118	A chemical neurotoxin, MPTP induces Parkinson's disease like phenotype, movement disorders and persistent loss of dopamine neurons in medaka fish. Neuroscience Research, 2009, 65, 263-271.	1.9	43
119	PTIP promotes DNA doubleâ€strand break repair through homologous recombination. Genes To Cells, 2010, 15, 243-254.	1.2	43
120	Potentials and mechanisms of genotoxicity of six pharmaceuticals frequently detected in freshwater environment. Toxicology Letters, 2012, 211, 70-76.	0.8	43
121	Interactions Between c-kit and Stem Cell Factor Are Not Required for B-Cell Development In Vivo. Blood, 1997, 89, 518-525.	1.4	42
122	Smarcal1 promotes double-strand-break repair by nonhomologous end-joining. Nucleic Acids Research, 2015, 43, 6359-6372.	14.5	42
123	Requirement for Repair of DNA Double-Strand Breaks by Homologous Recombination in Split-Dose Recovery. Radiation Research, 2001, 155, 680-686.	1.5	39
124	Genetic Evidence for Single-Strand Lesions Initiating Nbs1-Dependent Homologous Recombination in Diversification of Ig V in Chicken B Lymphocytes. PLoS Genetics, 2009, 5, e1000356.	3.5	39
125	Vertebrate Unfolded Protein Response: Mammalian Signaling Pathways Are Conserved in Medaka Fish. Cell Structure and Function, 2011, 36, 247-259.	1.1	39
126	Forcible destruction of severely misfolded mammalian glycoproteins by the non-glycoprotein ERAD pathway. Journal of Cell Biology, 2015, 211, 775-784.	5.2	39

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127	An approximately half set of histone genes is enough for cell proliferation and a lack of several histone variants causes protein pattern changes in the DT40 chicken B cell line. Journal of Molecular Biology, 1997, 265, 394-408.	4.2	38
128	Cooperative Roles of Vertebrate Fbh1 and Blm DNA Helicases in Avoidance of Crossovers during Recombination Initiated by Replication Fork Collapse. Molecular and Cellular Biology, 2007, 27, 2812-2820.	2.3	38
129	Histone H1 variant, H1R is involved in DNA damage response. DNA Repair, 2007, 6, 1584-1595.	2.8	38
130	Cohesin Associates with Spindle Poles in a Mitosis-specific Manner and Functions in Spindle Assembly in Vertebrate Cells. Molecular Biology of the Cell, 2009, 20, 1289-1301.	2.1	38
131	DNA-PK: the Major Target for Wortmannin-mediated Radiosensitization by the Inhibition of DSB Repair via NHEJ Pathway Journal of Radiation Research, 2003, 44, 151-159.	1.6	37
132	Genetic analysis of homologous DNA recombination in vertebrate somatic cells. International Journal of Biochemistry and Cell Biology, 2000, 32, 817-831.	2.8	34
133	Conserved domains in the chicken homologue of BRCA2. Oncogene, 2002, 21, 1130-1134.	5.9	34
134	ALC1/CHD1L, a chromatin-remodeling enzyme, is required for efficient base excision repair. PLoS ONE, 2017, 12, e0188320.	2.5	34
135	Involvement of Vertebrate Poll̂º in Translesion DNA Synthesis across DNA Monoalkylation Damage. Journal of Biological Chemistry, 2006, 281, 2000-2004.	3.4	33
136	A naturally occurring genetic variant of human XRCC2 (R188H) confers increased resistance to cisplatin-induced DNA damage. Biochemical and Biophysical Research Communications, 2007, 352, 763-768.	2.1	33
137	BRCA1 and CtIP Are Both Required to Recruit Dna2 at Double-Strand Breaks in Homologous Recombination. PLoS ONE, 2015, 10, e0124495.	2.5	33
138	In vivoevidence for translesion synthesis by the replicative DNA polymerase δ. Nucleic Acids Research, 2016, 44, gkw439.	14.5	33
139	RNF4-mediated polyubiquitination regulates the Fanconi anemia/BRCA pathway. Journal of Clinical Investigation, 2015, 125, 1523-1532.	8.2	33
140	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
141	Deazaflavin Inhibitors of Tyrosyl-DNA Phosphodiesterase 2 (TDP2) Specific for the Human Enzyme and Active against Cellular TDP2. ACS Chemical Biology, 2016, 11, 1925-1933.	3.4	32
142	Cells deficient in PARP-1 show an accelerated accumulation of DNA single strand breaks, but not AP sites, over the PARP-1-proficient cells exposed to MMS. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2009, 671, 93-99.	1.0	31
143	Structure-Specific Endonucleases Xpf and Mus81 Play Overlapping but Essential Roles in DNA Repair by Homologous Recombination. Cancer Research, 2013, 73, 4362-4371.	0.9	31
144	Mutant cells defective in DNA repair pathways provide a sensitive high-throughput assay for genotoxicity. DNA Repair, 2010, 9, 1292-1298.	2.8	30

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145	Dual Functions of ASCIZ in the DNA Base Damage Response and Pulmonary Organogenesis. PLoS Genetics, 2010, 6, e1001170.	3.5	30
146	SUMOylation of PCNA by PIAS1 and PIAS4 promotes template switch in the chicken and human B cell lines. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12793-12798.	7.1	30
147	A Surge of DNA Damage Links Transcriptional Reprogramming and Hematopoietic Deficit in Fanconi Anemia. Molecular Cell, 2020, 80, 1013-1024.e6.	9.7	29
148	Bloom DNA Helicase Facilitates Homologous Recombination between Diverged Homologous Sequences. Journal of Biological Chemistry, 2009, 284, 26360-26367.	3.4	28
149	The BRCT Domain of PARP-1 Is Required for Immunoglobulin Gene Conversion. PLoS Biology, 2010, 8, e1000428.	5.6	28
150	Abacavir, an anti–HIV-1 drug, targets TDP1-deficient adult T cell leukemia. Science Advances, 2015, 1, e1400203.	10.3	28
151	GEMIN2 promotes accumulation of RAD51 at double-strand breaks in homologous recombination. Nucleic Acids Research, 2010, 38, 5059-5074.	14.5	27
152	Loss of PINK1 in medaka fish (Oryzias latipes) causes late-onset decrease in spontaneous movement. Neuroscience Research, 2010, 66, 151-161.	1.9	27
153	The helicase domain and C-terminus of human RecQL4 facilitate replication elongation on DNA templates damaged by ionizing radiation. Carcinogenesis, 2012, 33, 1203-1210.	2.8	27
154	Accumulation of true single strand breaks and AP sites in base excision repair deficient cells. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2010, 694, 65-71.	1.0	26
155	Human replicative DNA polymerase δ can bypass Tâ€T (6â€4) ultraviolet photoproducts on template strands. Genes To Cells, 2010, 15, 1228-1239.	1.2	26
156	Convenient, multiâ€well plateâ€based DNA damage response analysis using DT40 mutants is applicable to a highâ€throughput genotoxicity assay with characterization of modes of action. Environmental and Molecular Mutagenesis, 2011, 52, 153-160.	2.2	26
157	The Rad51 Paralog Rad51B Promotes Homologous Recombinational Repair. Molecular and Cellular Biology, 2000, 20, 6476-6482.	2.3	26
158	The 9-1-1 DNA Clamp Is Required for Immunoglobulin Gene Conversion. Molecular and Cellular Biology, 2008, 28, 6113-6122.	2.3	25
159	Identification of genotoxic compounds using isogenic DNA repair deficient DT40 cell lines on a quantitative high throughput screening platform. Mutagenesis, 2016, 31, gev055.	2.6	25
160	TDP1 is Critical for the Repair of DNA Breaks Induced by Sapacitabine, a Nucleoside also Targeting ATM- and BRCA-Deficient Tumors. Molecular Cancer Therapeutics, 2017, 16, 2543-2551.	4.1	25
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