

A panoply of errors: polymerase proofreading domain n

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Roles of human POLD1 and POLD3 in genome stability. <i>Scientific Reports</i> , 2016, 6, 38873.	1.6	46
2	Heterozygous colon cancer-associated mutations of <i>SAMHD1</i> have functional significance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4723-4728.	3.3	100
3	Human Cancers Express a Mutator Phenotype: Hypothesis, Origin, and Consequences. <i>Cancer Research</i> , 2016, 76, 2057-2059.	0.4	84
4	Somatic POLE proofreading domain mutation, immune response, and prognosis in colorectal cancer: a retrospective, pooled biomarker study. <i>The Lancet Gastroenterology and Hepatology</i> , 2016, 1, 207-216.	3.7	227
5	Redox Signaling through DNA. <i>Israel Journal of Chemistry</i> , 2016, 56, 705-723.	1.0	15
6	Regression of Chemotherapy-Resistant Polymerase δ (POLE) Ultra-Mutated and MSH6 Hyper-Mutated Endometrial Tumors with Nivolumab. <i>Clinical Cancer Research</i> , 2016, 22, 5682-5687.	3.2	145
7	Molecular Pathology. <i>Surgical Pathology Clinics</i> , 2016, 9, 405-426.	0.7	17
8	POLD1: Central mediator of DNA replication and repair, and implication in cancer and other pathologies. <i>Gene</i> , 2016, 590, 128-141.	1.0	98
9	DNA Replication—A Matter of Fidelity. <i>Molecular Cell</i> , 2016, 62, 745-755.	4.5	115
10	<i>Helicobacter pylori</i> -Mediated Genetic Instability and Gastric Carcinogenesis. <i>Current Topics in Microbiology and Immunology</i> , 2017, 400, 305-323.	0.7	25
11	Eukaryotic DNA Replication Fork. <i>Annual Review of Biochemistry</i> , 2017, 86, 417-438.	5.0	365
12	Function of the Plant DNA Polymerase Epsilon in Replicative Stress Sensing, a Genetic Analysis. <i>Plant Physiology</i> , 2017, 173, 1735-1749.	2.3	26
13	Hypermutated Colorectal Cancer and Neoantigen Load. , 2017, , 187-215.		3
14	Alterations in cellular metabolism triggered by <i>URA7</i> or <i>GLN3</i> inactivation cause imbalanced dNTP pools and increased mutagenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4442-E4451.	3.3	30
15	Mutational signatures and mutable motifs in cancer genomes. <i>Briefings in Bioinformatics</i> , 2017, 19, 1085-1101.	3.2	32
16	Replicative DNA polymerase defects in human cancers: Consequences, mechanisms, and implications for therapy. <i>DNA Repair</i> , 2017, 56, 16-25.	1.3	84
17	DNA Damage and Repair Biomarkers of Immunotherapy Response. <i>Cancer Discovery</i> , 2017, 7, 675-693.	7.7	519
18	The interaction between cytosine methylation and processes of DNA replication and repair shape the mutational landscape of cancer genomes. <i>Nucleic Acids Research</i> , 2017, 45, 7786-7795.	6.5	78

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19	Evolutionary dynamics and significance of multiple subclonal mutations in cancer. <i>DNA Repair</i> , 2017, 56, 7-15.	1.3	16
20	Polymerase proofreading domain mutations: New opportunities for immunotherapy in hypermutated colorectal cancer beyond MMR deficiency. <i>Critical Reviews in Oncology/Hematology</i> , 2017, 113, 242-248.	2.0	68
21	Immunotherapy for colorectal cancer: where are we heading?. <i>Expert Opinion on Biological Therapy</i> , 2017, 17, 709-721.	1.4	85
22	Characterization of a novel <i>POLD1</i> missense founder mutation in a Spanish population. <i>Journal of Gene Medicine</i> , 2017, 19, e2951.	1.4	4
23	Polymerase ϵ (POLE) ultra-mutation in uterine tumors correlates with T lymphocyte infiltration and increased resistance to platinum-based chemotherapy in vitro. <i>Gynecologic Oncology</i> , 2017, 144, 146-152.	0.6	55
24	Molecular approaches for classifying endometrial carcinoma. <i>Gynecologic Oncology</i> , 2017, 145, 200-207.	0.6	137
25	Mutational analysis of hypermutation-related POLE gene in acute leukemias and lymphomas. <i>Experimental Hematology</i> , 2017, 48, 39-40.	0.2	0
27	Immunological profiling of molecularly classified high-risk endometrial cancers identifies <i>POLE</i> -mutant and microsatellite unstable carcinomas as candidates for checkpoint inhibition. <i>Onc Immunology</i> , 2017, 6, e1264565.	2.1	102
28	Universal Patterns of Selection in Cancer and Somatic Tissues. <i>Cell</i> , 2017, 171, 1029-1041.e21.	13.5	1,085
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30	Tumor Evolution as a Therapeutic Target. <i>Cancer Discovery</i> , 2017, 7, 805-817.	7.7	158
31	Germline <i>PMS2</i> and somatic <i>POLE</i> exonuclease mutations cause hypermutability of the leading DNA strand in biallelic mismatch repair deficiency syndrome brain tumours. <i>Journal of Pathology</i> , 2017, 243, 331-341.	2.1	12
32	Inactivation of DNA repair triggers neoantigen generation and impairs tumour growth. <i>Nature</i> , 2017, 552, 116-120.	13.7	480
33	Multilevel genomics of colorectal cancers with microsatellite instability—clinical impact of JAK1 mutations and consensus molecular subtype 1. <i>Genome Medicine</i> , 2017, 9, 46.	3.6	71
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36	The pathological consequences of impaired genome integrity in humans; disorders of the DNA replication machinery. <i>Journal of Pathology</i> , 2017, 241, 192-207.	2.1	11
37	Abrupt transitions to tumor extinction: a phenotypic quasispecies model. <i>Journal of Mathematical Biology</i> , 2017, 74, 1589-1609.	0.8	13

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38	Genetic basis of hepatitis virus-associated hepatocellular carcinoma: linkage between infection, inflammation, and tumorigenesis. <i>Journal of Gastroenterology</i> , 2017, 52, 26-38.	2.3	63
39	Recent Discoveries in the Genetics of Familial Colorectal Cancer and Polyposis. <i>Clinical Gastroenterology and Hepatology</i> , 2017, 15, 809-819.	2.4	66
40	10 Iron-sulfur proteins and human diseases. , 2017, , 227-306.		0
41	Genomic Destabilization Triggered by Replication Stress during Senescence. <i>Cancers</i> , 2017, 9, 159.	1.7	4
42	Risks at the DNA Replication Fork: Effects upon Carcinogenesis and Tumor Heterogeneity. <i>Genes</i> , 2017, 8, 46.	1.0	27
43	Human DNA polymerase delta double-mutant D316A;E318A interferes with DNA mismatch repair in vitro. <i>Nucleic Acids Research</i> , 2017, 45, 9427-9440.	6.5	4
44	<i>POLE</i> and <i>POLD1</i> screening in 155 patients with multiple polyps and early-onset colorectal cancer. <i>Oncotarget</i> , 2017, 8, 26732-26743.	0.8	40
45	Comprehensive Molecular Characterization of Urachal Adenocarcinoma Reveals Commonalities With Colorectal Cancer, Including a Hypermutable Phenotype. <i>JCO Precision Oncology</i> , 2017, 1, 1-12.	1.5	17
46	Fidelity of DNA replication—a matter of proofreading. <i>Current Genetics</i> , 2018, 64, 985-996.	0.8	109
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49	The rise of a novel classification system for endometrial carcinoma; integration of molecular subclasses. <i>Journal of Pathology</i> , 2018, 244, 538-549.	2.1	172
50	Noise-induced bistability in the fate of cancer phenotypic quasispecies: a bit-strings approach. <i>Scientific Reports</i> , 2018, 8, 1027.	1.6	14
51	Functional Analysis of Cancer-Associated DNA Polymerase μ Variants in <i>Saccharomyces cerevisiae</i> . <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 1019-1029.	0.8	49
52	Microarray analysis of obese women with polycystic ovary syndrome for key gene screening, key pathway identification and drug prediction. <i>Gene</i> , 2018, 661, 85-94.	1.0	8
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54	DNA Replication and associated repair pathways are involved in the mutagenesis of methylated cytosine. <i>DNA Repair</i> , 2018, 62, 1-7.	1.3	25
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57	DNA Repair Deficiency and Immunotherapy Response. <i>Journal of Clinical Oncology</i> , 2018, 36, 1710-1713.	0.8	31
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60	The DNA damage response in immunotherapy and radiation. <i>Advances in Radiation Oncology</i> , 2018, 3, 527-533.	0.6	24
61	Translational geroscience: From invertebrate models to companion animal and human interventions. <i>Translational Medicine of Aging</i> , 2018, 2, 15-29.	0.6	20
62	POLE gene hotspot mutations in advanced pancreatic cancer. <i>Journal of Cancer Research and Clinical Oncology</i> , 2018, 144, 2161-2166.	1.2	15
63	Adenocarcinoma, Carcinosarcoma, and Other Epithelial Tumors of the Endometrium. , 2018, , 582-651.		0
64	Gynecologic Cancers. <i>Clinics in Laboratory Medicine</i> , 2018, 38, 421-438.	0.7	9
65	Diseases Associated with Mutation of Replication and Repair Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1076, 215-234.	0.8	5
66	Drosophila Models for Human Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2018, , .	0.8	13
67	Precision Immuno-Oncology: Prospects of Individualized Immunotherapy for Pancreatic Cancer. <i>Cancers</i> , 2018, 10, 39.	1.7	44
68	Eukaryotic DNA polymerases. <i>Current Opinion in Structural Biology</i> , 2018, 53, 77-87.	2.6	84
69	Family A and B DNA Polymerases in Cancer: Opportunities for Therapeutic Interventions. <i>Biology</i> , 2018, 7, 5.	1.3	3
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71	Mutation heterogeneity between primary gastric cancers and their matched lymph node metastases. <i>Gastric Cancer</i> , 2019, 22, 323-334.	2.7	17
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73	Evaluation of <i>POLE</i> and <i>POLD1</i> Mutations as Biomarkers for Immunotherapy Outcomes Across Multiple Cancer Types. <i>JAMA Oncology</i> , 2019, 5, 1504.	3.4	287

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74	Prevalence of established and emerging biomarkers of immune checkpoint inhibitor response in advanced hepatocellular carcinoma. <i>Oncotarget</i> , 2019, 10, 4018-4025.	0.8	118
75	DNA polymerases in the risk and prognosis of colorectal and pancreatic cancers. <i>Mutagenesis</i> , 2019, 34, 363-374.	1.0	3
76	Comprehensive analysis of POLE and POLD1 Gene Variations identifies cancer patients potentially benefit from immunotherapy in Chinese population. <i>Scientific Reports</i> , 2019, 9, 15767.	1.6	34
77	C. Riley Snorton. Black on Both Sides: A Racial History of Trans Identity.. <i>American Historical Review</i> , 2019, 124, 1464-1465.	0.0	0
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80	Detection of POLE Subtypes in High-Grade Endometrioid Carcinoma by BaseScope-ISH Assay. <i>Frontiers in Oncology</i> , 2019, 9, 831.	1.3	18
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82	A recurrent cancer-associated substitution in DNA polymerase ϵ produces a hyperactive enzyme. <i>Nature Communications</i> , 2019, 10, 374.	5.8	59
83	Structural consequence of the most frequently recurring cancer-associated substitution in DNA polymerase ϵ . <i>Nature Communications</i> , 2019, 10, 373.	5.8	40
84	Defining the impact of mutation accumulation on replicative lifespan in yeast using cancer-associated mutator phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3062-3071.	3.3	17
85	Clinicopathological and mutational analyses of colorectal cancer with mutations in the <i>POLE</i> gene. <i>Cancer Medicine</i> , 2019, 8, 4587-4597.	1.3	23
86	Colorectal cancer: A paradigmatic model for cancer immunology and immunotherapy. <i>Molecular Aspects of Medicine</i> , 2019, 69, 123-129.	2.7	30
87	Development of an MSI-positive colon tumor with aberrant DNA methylation in a PPAP patient. <i>Journal of Human Genetics</i> , 2019, 64, 729-740.	1.1	7
88	Defective DNA Polymerase ϵ -Primase Leads to X-Linked Intellectual Disability Associated with Severe Growth Retardation, Microcephaly, and Hypogonadism. <i>American Journal of Human Genetics</i> , 2019, 104, 957-967.	2.6	32
89	Immunotherapy of colorectal cancer: Challenges for therapeutic efficacy. <i>Cancer Treatment Reviews</i> , 2019, 76, 22-32.	3.4	224
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93	PGK1 facilitates cisplatin chemoresistance by triggering HSP90/ERK pathway mediated DNA repair and methylation in endometrial endometrioid adenocarcinoma. <i>Molecular Medicine</i> , 2019, 25, 11.	1.9	28
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95	Phenotype of POLE-mutated endometrial cancer. <i>PLoS ONE</i> , 2019, 14, e0214318.	1.1	53
96	POLE proofreading defects: Contributions to mutagenesis and cancer. <i>DNA Repair</i> , 2019, 76, 50-59.	1.3	44
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99	Genomic Characterization of Prostatic Ductal Adenocarcinoma Identifies a High Prevalence of DNA Repair Gene Mutations. <i>JCO Precision Oncology</i> , 2019, 3, 1-9.	1.5	47
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101	POLE mutations improve the prognosis of endometrial cancer via regulating cellular metabolism through AMF/AMFR signal transduction. <i>BMC Medical Genetics</i> , 2019, 20, 202.	2.1	21
102	Human papillomavirus and the landscape of secondary genetic alterations in oral cancers. <i>Genome Research</i> , 2019, 29, 1-17.	2.4	166
103	Frequent Homologous Recombination Deficiency in High-grade Endometrial Carcinomas. <i>Clinical Cancer Research</i> , 2019, 25, 1087-1097.	3.2	113
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105	Germline mutation p.N363K in <i>POLE</i> is associated with an increased risk of colorectal cancer and giant cell glioblastoma. <i>Familial Cancer</i> , 2019, 18, 173-178.	0.9	27
106	Morphological, immunophenotypical and molecular features of hypermutation in colorectal carcinomas with mutations in DNA polymerase μ (<i>POLE</i>). <i>Histopathology</i> , 2020, 76, 366-374.	1.6	15
107	Interpretation of somatic <i>POLE</i> mutations in endometrial carcinoma. <i>Journal of Pathology</i> , 2020, 250, 323-335.	2.1	203
108	Biomarkers for Response to Immune Checkpoint Blockade. <i>Annual Review of Cancer Biology</i> , 2020, 4, 331-351.	2.3	29
109	Inactivating Mutations in Exonuclease and Polymerase Domains in DNA Polymerase Delta Alter Sensitivities to Inhibitors of dNTP Synthesis. <i>DNA and Cell Biology</i> , 2020, 39, 50-56.	0.9	6
110	Immune Checkpoint Inhibition in Colorectal Cancer: Microsatellite Instability and Beyond. <i>Targeted Oncology</i> , 2020, 15, 11-24.	1.7	65

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111	Adenomatous and serrated polyposis syndromes. <i>Diagnostic Histopathology</i> , 2020, 26, 1-7.	0.2	0
112	National recommendations of the French Genetics and Cancer Group - Unicancer on the modalities of multi-genes panel analyses in hereditary predispositions to tumors of the digestive tract. <i>European Journal of Medical Genetics</i> , 2020, 63, 104080.	0.7	11
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116	Somatic POLE exonuclease domain mutations elicit enhanced intratumoral immune responses in stage II colorectal cancer. , 2020, 8, e000881.		22
117	Cancers from Novel <i>Pole</i> -Mutant Mouse Models Provide Insights into Polymerase-Mediated Hypermutagenesis and Immune Checkpoint Blockade. <i>Cancer Research</i> , 2020, 80, 5606-5618.	0.4	14
118	POLE mutation combined with microcystic, elongated and fragmented (MELF) pattern invasion in endometrial carcinomas might be associated with poor survival in Chinese women. <i>Gynecologic Oncology</i> , 2020, 159, 36-42.	0.6	24
119	Progress in the management of endometrial cancer (subtypes, immunotherapy, alterations in PIK3CA) <i>TJ ETQqO 0 0 rgBT /Overlock 10 T</i>	1.1	12
120	<p>POLE Mutation Characteristics in a Chinese Cohort with Endometrial Carcinoma</p>. <i>OncoTargets and Therapy</i> , 2020, Volume 13, 7305-7316.	1.0	5
121	Structure of eukaryotic DNA polymerase δ bound to the PCNA clamp while encircling DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30344-30353.	3.3	41
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124	New Mechanism of Gemcitabine and Its Phosphates: DNA Polymerization Disruption via 3' ϵ 5' Exonuclease Inhibition. <i>Biochemistry</i> , 2020, 59, 4344-4352.	1.2	8
125	Präzisionsmedizin bei NSCLC im Zeitalter der Immuntherapie: Neue Biomarker zur Selektion der am besten geeigneten Therapie oder des am besten geeigneten Patienten. <i>Karger Kompass Pneumologie</i> , 2020, 8, 300-317.	0.0	1
126	Checkpoint Inhibitors in Gynecological Malignancies: Are we There Yet?. <i>BioDrugs</i> , 2020, 34, 749-762.	2.2	5
127	Genetic, structural, and functional characterization of POLE polymerase proofreading variants allows cancer risk prediction. <i>Genetics in Medicine</i> , 2020, 22, 1533-1541.	1.1	17
128	High polymerase δ expression associated with increased CD8+T cells improves survival in patients with non-small cell lung cancer. <i>PLoS ONE</i> , 2020, 15, e0233066.	1.1	4

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129	Precision Medicine for NSCLC in the Era of Immunotherapy: New Biomarkers to Select the Most Suitable Treatment or the Most Suitable Patient. <i>Cancers</i> , 2020, 12, 1125.	1.7	43
130	Prostate carcinogenesis: inflammatory storms. <i>Nature Reviews Cancer</i> , 2020, 20, 455-469.	12.8	114
131	Immune Checkpoint Inhibitors in Hepatocellular Cancer: Current Understanding on Mechanisms of Resistance and Biomarkers of Response to Treatment. <i>Gene Expression</i> , 2020, 20, 53-65.	0.5	65
132	The first case report of polymerase proofreading-associated polyposis in POLD1 variant, c.1433G>A p.S478N, in Japan. <i>Japanese Journal of Clinical Oncology</i> , 2020, 50, 1080-1083.	0.6	4
133	Molecular Aspects of Colorectal Adenomas: The Interplay among Microenvironment, Oxidative Stress, and Predisposition. <i>BioMed Research International</i> , 2020, 2020, 1-19.	0.9	34
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135	Evaluation of POLE/POLD1 Variants as Potential Biomarkers for Immune Checkpoint Inhibitor Treatment Outcomes—Reply. <i>JAMA Oncology</i> , 2020, 6, 590.	3.4	3
136	A slipped-CAG DNA-binding small molecule induces trinucleotide-repeat contractions in vivo. <i>Nature Genetics</i> , 2020, 52, 146-159.	9.4	110
137	Pembrolizumab for the treatment of colorectal cancer. <i>Expert Opinion on Biological Therapy</i> , 2020, 20, 219-226.	1.4	21
138	Homologous Recombination Repair Truncations Predict Hypermutation in Microsatellite Stable Colorectal and Endometrial Tumors. <i>Clinical and Translational Gastroenterology</i> , 2020, 11, e00149.	1.3	8
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140	Ultra-mutated colorectal cancer patients with POLE driver mutations exhibit distinct clinical patterns. <i>Cancer Medicine</i> , 2021, 10, 135-142.	1.3	18
141	The orphan nuclear receptor NROB2 could be a novel susceptibility locus associated with microsatellite-stable, APC mutation-negative early-onset colorectal carcinomas with metabolic manifestation. <i>Genes Chromosomes and Cancer</i> , 2021, 60, 61-72.	1.5	5
142	Integrated Analysis of Mutations and Dysregulated Pathways Unravels Carcinogenic Effect and Clinical Actionability of Mutational Processes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
143	Unraveling the genomic landscape of colorectal cancer through mutational signatures. <i>Advances in Cancer Research</i> , 2021, 151, 385-424.	1.9	14
144	Immunotherapy in colorectal cancer: current achievements and future perspective. <i>International Journal of Biological Sciences</i> , 2021, 17, 3837-3849.	2.6	132
145	Distinctive genomic characteristics in POLE/POLD1-mutant cancers can potentially predict beneficial clinical outcomes in patients who receive immune checkpoint inhibitor. <i>Annals of Translational Medicine</i> , 2021, 9, 129-129.	0.7	24
146	Immunotherapy for the treatment of colorectal cancer. <i>Journal of Surgical Oncology</i> , 2021, 123, 760-774.	0.8	18

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147	Identification of a metabolic-related gene signature predicting the overall survival for patients with stomach adenocarcinoma. <i>PeerJ</i> , 2021, 9, e10908.	0.9	9
149	Endometrial carcinoma: molecular subtypes, precursors and the role of pathology in early diagnosis. <i>Journal of Pathology</i> , 2021, 253, 355-365.	2.1	62
150	The TCGA Molecular Classification of Endometrial Cancer and Its Possible Impact on Adjuvant Treatment Decisions. <i>Cancers</i> , 2021, 13, 1478.	1.7	65
151	The Inherited and Familial Component of Early-Onset Colorectal Cancer. <i>Cells</i> , 2021, 10, 710.	1.8	41
152	Complete Response to Pembrolizumab in Advanced Colon Cancer Harboring Somatic POLE F367S Mutation with Microsatellite Stability Status: A Case Study. <i>OncoTargets and Therapy</i> , 2021, Volume 14, 1791-1796.	1.0	7
153	The Landscape of Alterations in DNA Damage Response Pathways in Colorectal Cancer. <i>Clinical Cancer Research</i> , 2021, 27, 3234-3242.	3.2	24
155	Compensation for the absence of the catalytically active half of DNA polymerase $\hat{\mu}$ in yeast by positively selected mutations in <i>CDC28</i> . <i>Genetics</i> , 2021, 218, .	1.2	7
156	An MHV-68 Mutator Phenotype Mutant Virus, Confirmed by CRISPR/Cas9-Mediated Gene Editing of the Viral DNA Polymerase Gene, Shows Reduced Viral Fitness. <i>Viruses</i> , 2021, 13, 985.	1.5	1
157	Underappreciated Roles of DNA Polymerase $\hat{\nu}$ in Replication Stress Survival. <i>Trends in Genetics</i> , 2021, 37, 476-487.	2.9	22
158	MIF is a 3 $\hat{\epsilon}$ flap nuclease that facilitates DNA replication and promotes tumor growth. <i>Nature Communications</i> , 2021, 12, 2954.	5.8	20
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