

Thomas Helleday

List of Publications by Year in descending order

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261
papers

29,073
citations

9234

74
h-index

5663

162
g-index

280
all docs

280
docs citations

280
times ranked

32708
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific killing of BRCA2-deficient tumours with inhibitors of poly(ADP-ribose) polymerase. <i>Nature</i> , 2005, 434, 913-917.	13.7	4,382
2	Oncogene-induced senescence is part of the tumorigenesis barrier imposed by DNA damage checkpoints. <i>Nature</i> , 2006, 444, 633-637.	13.7	1,777
3	DNA repair pathways as targets for cancer therapy. <i>Nature Reviews Cancer</i> , 2008, 8, 193-204.	12.8	1,432
4	Mechanisms underlying mutational signatures in human cancers. <i>Nature Reviews Genetics</i> , 2014, 15, 585-598.	7.7	703
5	Hydroxyurea-Stalled Replication Forks Become Progressively Inactivated and Require Two Different RAD51-Mediated Pathways for Restart and Repair. <i>Molecular Cell</i> , 2010, 37, 492-502.	4.5	695
6	Replication stress links structural and numerical cancer chromosomal instability. <i>Nature</i> , 2013, 494, 492-496.	13.7	694
7	The underlying mechanism for the PARP and BRCA synthetic lethality: Clearing up the misunderstandings. <i>Molecular Oncology</i> , 2011, 5, 387-393.	2.1	664
8	The cell-cycle checkpoint kinase Chk1 is required for mammalian homologous recombination repair. <i>Nature Cell Biology</i> , 2005, 7, 195-201.	4.6	588
9	DNA double-strand break repair: From mechanistic understanding to cancer treatment. <i>DNA Repair</i> , 2007, 6, 923-935.	1.3	550
10	PARP is activated at stalled forks to mediate Mre11-dependent replication restart and recombination. <i>EMBO Journal</i> , 2009, 28, 2601-2615.	3.5	512
11	Inhibition of Human Chk1 Causes Increased Initiation of DNA Replication, Phosphorylation of ATR Targets, and DNA Breakage. <i>Molecular and Cellular Biology</i> , 2005, 25, 3553-3562.	1.1	487
12	MTH1 inhibition eradicates cancer by preventing sanitation of the dNTP pool. <i>Nature</i> , 2014, 508, 215-221.	13.7	419
13	miR-182-Mediated Downregulation of BRCA1 Impacts DNA Repair and Sensitivity to PARP Inhibitors. <i>Molecular Cell</i> , 2011, 41, 210-220.	4.5	409
14	Break-Induced Replication Repair of Damaged Forks Induces Genomic Duplications in Human Cells. <i>Science</i> , 2014, 343, 88-91.	6.0	387
15	Defective DNA single-strand break repair in spinocerebellar ataxia with axonal neuropathy-1. <i>Nature</i> , 2005, 434, 108-113.	13.7	382
16	Spatial maps of prostate cancer transcriptomes reveal an unexplored landscape of heterogeneity. <i>Nature Communications</i> , 2018, 9, 2419.	5.8	374
17	SETD2-Dependent Histone H3K36 Trimethylation Is Required for Homologous Recombination Repair and Genome Stability. <i>Cell Reports</i> , 2014, 7, 2006-2018.	2.9	370
18	DNA double-strand breaks associated with replication forks are predominantly repaired by homologous recombination involving an exchange mechanism in mammalian cells ¹¹ Edited by J. Karn. <i>Journal of Molecular Biology</i> , 2001, 307, 1235-1245.	2.0	345

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19	Stereospecific targeting of MTH1 by (S)-crizotinib as an anticancer strategy. <i>Nature</i> , 2014, 508, 222-227.	13.7	336
20	Pathways of mammalian replication fork restart. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 683-687.	16.1	305
21	Spontaneous Homologous Recombination Is Induced by Collapsed Replication Forks That Are Caused by Endogenous DNA Single-Strand Breaks. <i>Molecular and Cellular Biology</i> , 2005, 25, 7158-7169.	1.1	303
22	Methyl methanesulfonate (MMS) produces heat-labile DNA damage but no detectable in vivo DNA double-strand breaks. <i>Nucleic Acids Research</i> , 2005, 33, 3799-3811.	6.5	291
23	Identification of KIAA1018/FAN1, a DNA Repair Nuclease Recruited to DNA Damage by Monoubiquitinated FANCD2. <i>Cell</i> , 2010, 142, 65-76.	13.5	284
24	Pathways for mitotic homologous recombination in mammalian cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003, 532, 103-115.	0.4	279
25	Mre11-Dependent Degradation of Stalled DNA Replication Forks Is Prevented by BRCA2 and PARP1. <i>Cancer Research</i> , 2012, 72, 2814-2821.	0.4	272
26	Poly(ADP-ribose) polymerase (PARP-1) has a controlling role in homologous recombination. <i>Nucleic Acids Research</i> , 2003, 31, 4959-4964.	6.5	258
27	PCNA on the crossroad of cancer. <i>Biochemical Society Transactions</i> , 2009, 37, 605-613.	1.6	258
28	Poly (ADP-ribose) polymerase (PARP) is not involved in base excision repair but PARP inhibition traps a single-strand intermediate. <i>Nucleic Acids Research</i> , 2011, 39, 3166-3175.	6.5	248
29	Chk1 promotes replication fork progression by controlling replication initiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16090-16095.	3.3	240
30	Homologous recombination in cancer development, treatment and development of drug resistance. <i>Carcinogenesis</i> , 2010, 31, 955-960.	1.3	234
31	Conservative homologous recombination preferentially repairs DNA double-strand breaks in the S phase of the cell cycle in human cells. <i>Nucleic Acids Research</i> , 2004, 32, 3683-3688.	6.5	230
32	Different Roles for Nonhomologous End Joining and Homologous Recombination following Replication Arrest in Mammalian Cells. <i>Molecular and Cellular Biology</i> , 2002, 22, 5869-5878.	1.1	212
33	Contextual Synthetic Lethality of Cancer Cell Kill Based on the Tumor Microenvironment. <i>Cancer Research</i> , 2010, 70, 8045-8054.	0.4	211
34	The histone methyltransferase SET8 is required for S-phase progression. <i>Journal of Cell Biology</i> , 2007, 179, 1337-1345.	2.3	207
35	Poly(ADP-Ribose) Polymerase Is Hyperactivated in Homologous Recombination-Defective Cells. <i>Cancer Research</i> , 2010, 70, 5389-5398.	0.4	195
36	Inhibition of poly (ADP-ribose) polymerase activates ATM which is required for subsequent homologous recombination repair. <i>Nucleic Acids Research</i> , 2006, 34, 1685-1691.	6.5	182

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37	Synthetic lethality between androgen receptor signalling and the PARP pathway in prostate cancer. <i>Nature Communications</i> , 2017, 8, 374.	5.8	180
38	Poly(ADP-ribose) Polymerase (PARP-1) in Homologous Recombination and as a Target for Cancer Therapy. <i>Cell Cycle</i> , 2005, 4, 1176-1178.	1.3	174
39	Citrullinated histone H3 as a novel prognostic blood marker in patients with advanced cancer. <i>PLoS ONE</i> , 2018, 13, e0191231.	1.1	157
40	Small-molecule inhibitor of OGG1 suppresses proinflammatory gene expression and inflammation. <i>Science</i> , 2018, 362, 834-839.	6.0	156
41	Regulators of cyclin-dependent kinases are crucial for maintaining genome integrity in S phase. <i>Journal of Cell Biology</i> , 2010, 188, 629-638.	2.3	146
42	The ERCC1/XPF endonuclease is required for efficient single-strand annealing and gene conversion in mammalian cells. <i>Nucleic Acids Research</i> , 2007, 36, 1-9.	6.5	145
43	The DNA Damaging Revolution: PARP Inhibitors and Beyond. <i>American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting</i> , 2019, 39, 185-195.	1.8	144
44	Mechanisms for stalled replication fork stabilization: new targets for synthetic lethality strategies in cancer treatments. <i>EMBO Reports</i> , 2018, 19, .	2.0	136
45	Managing COVID-19 in the oncology clinic and avoiding the distraction effect. <i>Annals of Oncology</i> , 2020, 31, 553-555.	0.6	136
46	PARP-3 Is a Mono-ADP-ribosylase That Activates PARP-1 in the Absence of DNA. <i>Journal of Biological Chemistry</i> , 2010, 285, 8054-8060.	1.6	135
47	A comprehensive structural, biochemical and biological profiling of the human NUDIX hydrolase family. <i>Nature Communications</i> , 2017, 8, 1541.	5.8	124
48	Brominated flame retardants induce intragenic recombination in mammalian cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1999, 439, 137-147.	0.9	122
49	PARP1- and CTCF-Mediated Interactions between Active and Repressed Chromatin at the Lamina Promote Oscillating Transcription. <i>Molecular Cell</i> , 2015, 59, 984-997.	4.5	120
50	<i>PTEN</i> Deletion in Prostate Cancer Cells Does Not Associate with Loss of RAD51 Function: Implications for Radiotherapy and Chemotherapy. <i>Clinical Cancer Research</i> , 2012, 18, 1015-1027.	3.2	119
51	Essential function of Chk1 can be uncoupled from DNA damage checkpoint and replication control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20752-20757.	3.3	118
52	A Small Interfering RNA Screen of Genes Involved in DNA Repair Identifies Tumor-Specific Radiosensitization by POLQ Knockdown. <i>Cancer Research</i> , 2010, 70, 2984-2993.	0.4	116
53	Processing of protein ADP-ribosylation by Nudix hydrolases. <i>Biochemical Journal</i> , 2015, 468, 293-301.	1.7	113
54	Validation and development of MTH1 inhibitors for treatment of cancer. <i>Annals of Oncology</i> , 2016, 27, 2275-2283.	0.6	111

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55	UV stalled replication forks restart by re-priming in human fibroblasts. <i>Nucleic Acids Research</i> , 2011, 39, 7049-7057.	6.5	108
56	Validation of an enzyme-linked immunosorbent assay for the quantification of citrullinated histone H3 as a marker for neutrophil extracellular traps in human plasma. <i>Immunologic Research</i> , 2017, 65, 706-712.	1.3	107
57	Cancer-Specific Synthetic Lethality between ATR and CHK1 Kinase Activities. <i>Cell Reports</i> , 2016, 14, 298-309.	2.9	105
58	Rational design and validation of a Tip60 histone acetyltransferase inhibitor. <i>Scientific Reports</i> , 2014, 4, 5372.	1.6	103
59	Claspin Promotes Normal Replication Fork Rates in Human Cells. <i>Molecular Biology of the Cell</i> , 2008, 19, 2373-2378.	0.9	102
60	6-Thioguanine Selectively Kills BRCA2-Defective Tumors and Overcomes PARP Inhibitor Resistance. <i>Cancer Research</i> , 2010, 70, 6268-6276.	0.4	102
61	Targeting SAMHD1 with the Vpx protein to improve cytarabine therapy for hematological malignancies. <i>Nature Medicine</i> , 2017, 23, 256-263.	15.2	102
62	RAD51 is Involved in Repair of Damage Associated with DNA Replication in Mammalian Cells. <i>Journal of Molecular Biology</i> , 2003, 328, 521-535.	2.0	101
63	Identification of the MMS22L-TONSL Complex that Promotes Homologous Recombination. <i>Molecular Cell</i> , 2010, 40, 632-644.	4.5	100
64	Targeting homologous recombination repair defects in cancer. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 372-380.	4.0	100
65	Targeting DNA repair, DNA metabolism and replication stress as anti-cancer strategies. <i>FEBS Journal</i> , 2016, 283, 232-245.	2.2	100
66	Overexpression of POLQ Confers a Poor Prognosis in Early Breast Cancer Patients. <i>Oncotarget</i> , 2010, 1, 175-184.	0.8	100
67	The role of RAD51 in etoposide (VP16) resistance in small cell lung cancer. <i>International Journal of Cancer</i> , 2003, 105, 472-479.	2.3	98
68	Timeless Interacts with PARP-1 to Promote Homologous Recombination Repair. <i>Molecular Cell</i> , 2015, 60, 163-176.	4.5	98
69	Crystal structure, biochemical and cellular activities demonstrate separate functions of MTH1 and MTH2. <i>Nature Communications</i> , 2015, 6, 7871.	5.8	96
70	NUDT15 Hydrolyzes 6-Thio-DeoxyGTP to Mediate the Anticancer Efficacy of 6-Thioguanine. <i>Cancer Research</i> , 2016, 76, 5501-5511.	0.4	96
71	Structural Basis for Inhibitor Specificity in Human Poly(ADP-ribose) Polymerase-3. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3108-3111.	2.9	88
72	ATM is required for the cellular response to thymidine induced replication fork stress. <i>Human Molecular Genetics</i> , 2004, 13, 2937-2945.	1.4	87

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73	Transcription-Associated Recombination Is Dependent on Replication in Mammalian Cells. <i>Molecular and Cellular Biology</i> , 2008, 28, 154-164.	1.1	86
74	The ERCC1/XPF endonuclease is required for completion of homologous recombination at DNA replication forks stalled by inter-strand cross-links. <i>Nucleic Acids Research</i> , 2009, 37, 6400-6413.	6.5	81
75	Downregulation of SMG-1 in HPV-Positive Head and Neck Squamous Cell Carcinoma Due to Promoter Hypermethylation Correlates with Improved Survival. <i>Clinical Cancer Research</i> , 2012, 18, 1257-1267.	3.2	77
76	Targeting PFKFB3 radiosensitizes cancer cells and suppresses homologous recombination. <i>Nature Communications</i> , 2018, 9, 3872.	5.8	77
77	Up-regulation of the error-prone DNA polymerase $\{\kappa\}$ promotes pleiotropic genetic alterations and tumorigenesis. <i>Cancer Research</i> , 2005, 65, 325-30.	0.4	74
78	Transcription-associated recombination in eukaryotes: link between transcription, replication and recombination. <i>Mutagenesis</i> , 2009, 24, 203-210.	1.0	73
79	The PARP inhibitor Olaparib disrupts base excision repair of 5-aza-2 ϵ -deoxycytidine lesions. <i>Nucleic Acids Research</i> , 2014, 42, 9108-9120.	6.5	73
80	Castration radiosensitizes prostate cancer tissue by impairing DNA double-strand break repair. <i>Science Translational Medicine</i> , 2015, 7, 312re11.	5.8	73
81	WRN Is Required for ATM Activation and the S-Phase Checkpoint in Response to Interstrand Cross-Link ϵ -Induced DNA Double-Strand Breaks. <i>Molecular Biology of the Cell</i> , 2008, 19, 3923-3933.	0.9	72
82	Drugging DNA repair. <i>Science</i> , 2016, 352, 1178-1179.	6.0	71
83	DNA-PKcs and PARP1 Bind to Unresected Stalled DNA Replication Forks Where They Recruit XRCC1 to Mediate Repair. <i>Cancer Research</i> , 2016, 76, 1078-1088.	0.4	71
84	RAD18 and Poly(ADP-Ribose) Polymerase Independently Suppress the Access of Nonhomologous End Joining to Double-Strand Breaks and Facilitate Homologous Recombination-Mediated Repair. <i>Molecular and Cellular Biology</i> , 2007, 27, 2562-2571.	1.1	70
85	Crystal structure of human MTH1 and the 8-oxo-dGMP product complex. <i>FEBS Letters</i> , 2011, 585, 2617-2621.	1.3	70
86	Defects in homologous recombination repair in mismatch-repair-deficient tumour cell lines. <i>Human Molecular Genetics</i> , 2002, 11, 2189-2200.	1.4	67
87	Crystal Structure of the Emerging Cancer Target MTHFD2 in Complex with a Substrate-Based Inhibitor. <i>Cancer Research</i> , 2017, 77, 937-948.	0.4	67
88	The RAD51 protein supports homologous recombination by an exchange mechanism in mammalian cells 1 Edited by J. Karn. <i>Journal of Molecular Biology</i> , 1999, 289, 1231-1238.	2.0	66
89	Methylated DNA Causes a Physical Block to Replication Forks Independently of Damage Signalling, O6-Methylguanine or DNA Single-Strand Breaks and Results in DNA Damage. <i>Journal of Molecular Biology</i> , 2010, 402, 70-82.	2.0	64
90	Damage-induced DNA replication stalling relies on MAPK-activated protein kinase 2 activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16856-16861.	3.3	64

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91	RPA Mediates Recombination Repair During Replication Stress and Is Displaced from DNA by Checkpoint Signalling in Human Cells. <i>Journal of Molecular Biology</i> , 2007, 373, 38-47.	2.0	63
92	Homologous recombination repairs secondary replication induced DNA double-strand breaks after ionizing radiation. <i>Nucleic Acids Research</i> , 2012, 40, 6585-6594.	6.5	63
93	Castration Therapy Results in Decreased Ku70 Levels in Prostate Cancer. <i>Clinical Cancer Research</i> , 2013, 19, 1547-1556.	3.2	62
94	XRCC1 phosphorylation by CK2 is required for its stability and efficient DNA repair. <i>DNA Repair</i> , 2010, 9, 835-841.	1.3	58
95	Lysophosphatidic acid receptor (LPA) modulators: The current pharmacological toolbox. <i>Progress in Lipid Research</i> , 2015, 58, 51-75.	5.3	57
96	p53 protects from replication-associated DNA double-strand breaks in mammalian cells. <i>Oncogene</i> , 2004, 23, 2324-2329.	2.6	56
97	Zinc Binding Catalytic Domain of Human Tankyrase 1. <i>Journal of Molecular Biology</i> , 2008, 379, 136-145.	2.0	56
98	ATM-mediated phosphorylation of polynucleotide kinase/phosphatase is required for effective DNA double-strand break repair. <i>EMBO Reports</i> , 2011, 12, 713-719.	2.0	56
99	5-Aza-2'-deoxycytidine causes replication lesions that require Fanconi anemia-dependent homologous recombination for repair. <i>Nucleic Acids Research</i> , 2013, 41, 5827-5836.	6.5	56
100	SAMHD1 protects cancer cells from various nucleoside-based antimetabolites. <i>Cell Cycle</i> , 2017, 16, 1029-1038.	1.3	56
101	Targeted NUDT5 inhibitors block hormone signaling in breast cancer cells. <i>Nature Communications</i> , 2018, 9, 250.	5.8	56
102	Global survey of the immunomodulatory potential of common drugs. <i>Nature Chemical Biology</i> , 2017, 13, 681-690.	3.9	53
103	The scaffold protein WRAP53 ² orchestrates the ubiquitin response critical for DNA double-strand break repair. <i>Genes and Development</i> , 2014, 28, 2726-2738.	2.7	52
104	U-CAN: a prospective longitudinal collection of biomaterials and clinical information from adult cancer patients in Sweden. <i>Acta Oncologica</i> , 2018, 57, 187-194.	0.8	52
105	Arsenic[III] and heavy metal ions induce intrachromosomal homologous recombination in the hprt gene of V79 Chinese hamster cells. , 2000, 35, 114-122.		50
106	A partial HPRT gene duplication generated by non-homologous recombination in V79 chinese hamster cells is eliminated by homologous recombination. <i>Journal of Molecular Biology</i> , 1998, 279, 687-694.	2.0	49
107	Inhibition of DNA synthesis is a potent mechanism by which cytostatic drugs induce homologous recombination in mammalian cells. <i>Mutation Research DNA Repair</i> , 2000, 461, 221-228.	3.8	49
108	Pathways controlling dNTP pools to maintain genome stability. <i>DNA Repair</i> , 2016, 44, 193-204.	1.3	49

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109	Human single-stranded DNA binding protein 1 (hSSB1/NABP2) is required for the stability and repair of stalled replication forks. <i>Nucleic Acids Research</i> , 2014, 42, 6326-6336.	6.5	48
110	With me or against me: Tumor suppressor and drug resistance activities of SAMHD1. <i>Experimental Hematology</i> , 2017, 52, 32-39.	0.2	43
111	Targeting BER enzymes in cancer therapy. <i>DNA Repair</i> , 2018, 71, 118-126.	1.3	43
112	Homologous recombination is involved in repair of chromium-induced DNA damage in mammalian cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2006, 599, 116-123.	0.4	42
113	PARP inhibitor receives FDA breakthrough therapy designation in castration resistant prostate cancer: beyond germline BRCA mutations. <i>Annals of Oncology</i> , 2016, 27, 755-757.	0.6	42
114	Discovery of the First Potent and Selective Inhibitors of Human dCTP Pyrophosphatase 1. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 1140-1148.	2.9	40
115	Hypoxic Signaling and the Cellular Redox Tumor Environment Determine Sensitivity to MTH1 Inhibition. <i>Cancer Research</i> , 2016, 76, 2366-2375.	0.4	40
116	Thymidine Selectively Enhances Growth Suppressive Effects of Camptothecin/Irinotecan in MSI+ Cells and Tumors Containing a Mutation of <i>MRE11</i> . <i>Clinical Cancer Research</i> , 2008, 14, 5476-5483.	3.2	39
117	A patient-derived xenograft pre-clinical trial reveals treatment responses and a resistance mechanism to karonudib in metastatic melanoma. <i>Cell Death and Disease</i> , 2018, 9, 810.	2.7	38
118	Mitotic defects in XRCC3 variants T241M and D213N and their relation to cancer susceptibility. <i>Human Molecular Genetics</i> , 2006, 15, 1217-1224.	1.4	37
119	<i>ATM</i> /Wip1 activities at chromatin control Plk1 reactivation to determine G2 checkpoint duration. <i>EMBO Journal</i> , 2017, 36, 2161-2176.	3.5	37
120	An orthotopic glioblastoma animal model suitable for high-throughput screenings. <i>Neuro-Oncology</i> , 2018, 20, 1475-1484.	0.6	37
121	Reduced apoptotic response to camptothecin in CHO cells deficient in XRCC3. <i>Carcinogenesis</i> , 2003, 24, 249-253.	1.3	36
122	A new concise synthesis of 2,3-dihydroquinazolin-4(1H)-one derivatives. <i>New Journal of Chemistry</i> , 2013, 37, 3595.	1.4	36
123	SMG-1 suppresses CDK2 and tumor growth by regulating both the p53 and Cdc25A signaling pathways. <i>Cell Cycle</i> , 2013, 12, 3770-3780.	1.3	36
124	PathwAX: a web server for network crosstalk based pathway annotation. <i>Nucleic Acids Research</i> , 2016, 44, W105-W109.	6.5	36
125	Amplifying tumour-specific replication lesions by DNA repair inhibitors – A new era in targeted cancer therapy. <i>European Journal of Cancer</i> , 2008, 44, 921-927.	1.3	35
126	FANCD1/BRCA2 Plays Predominant Role in the Repair of DNA Damage Induced by ACNU or TMZ. <i>PLoS ONE</i> , 2011, 6, e19659.	1.1	35

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127	Breast cancer stem-like cells show dominant homologous recombination due to a larger S-G ₂ fraction. <i>Cancer Biology and Therapy</i> , 2011, 11, 1028-1035.	1.5	35
128	N-Acyl Taurines are Anti-Proliferative in Prostate Cancer Cells. <i>Lipids</i> , 2012, 47, 355-361.	0.7	35
129	Early replication fragile sites: where replication-transcription collisions cause genetic instability. <i>EMBO Journal</i> , 2013, 32, 493-495.	3.5	35
130	The antimalarial drug amodiaquine stabilizes p53 through ribosome biogenesis stress, independently of its autophagy-inhibitory activity. <i>Cell Death and Differentiation</i> , 2020, 27, 773-789.	5.0	35
131	Ribonucleotide reductase inhibitors suppress SAMHD1 and CTPase activity enhancing cytarabine efficacy. <i>EMBO Molecular Medicine</i> , 2020, 12, e10419.	3.3	35
132	DNA repair rate and etoposide (VP16) resistance of tumor cell subpopulations derived from a single human small cell lung cancer. <i>Lung Cancer</i> , 2003, 40, 157-164.	0.9	34
133	Ex vivo culture of cells derived from circulating tumour cell xenograft to support small cell lung cancer research and experimental therapeutics. <i>British Journal of Pharmacology</i> , 2019, 176, 436-450.	2.7	34
134	Structural basis of inhibition of the human serine hydroxymethyltransferase SHMT2 by antifolate drugs. <i>FEBS Letters</i> , 2019, 593, 1863-1873.	1.3	34
135	Homologous recombination repair is essential for repair of vosaroxin-induced DNA double-strand breaks. <i>Oncotarget</i> , 2010, 1, 606-619.	0.8	34
136	BRCA2-dependent homologous recombination is required for repair of Arsenite-induced replication lesions in mammalian cells. <i>Nucleic Acids Research</i> , 2009, 37, 5105-5113.	6.5	33
137	Repair pathways independent of the Fanconi anemia nuclear core complex play a predominant role in mitigating formaldehyde-induced DNA damage. <i>Biochemical and Biophysical Research Communications</i> , 2011, 404, 206-210.	1.0	33
138	Targeting Protein for Xenopus Kinesin-like Protein 2 (TPX2) Regulates ³ H-Histone 2AX (³ H-H2AX) Levels upon Ionizing Radiation. <i>Journal of Biological Chemistry</i> , 2012, 287, 42206-42222.	1.6	33
139	A novel method for crosstalk analysis of biological networks: improving accuracy of pathway annotation. <i>Nucleic Acids Research</i> , 2017, 45, e8-e8.	6.5	33
140	CK2 phosphorylation of XRCC1 facilitates dissociation from DNA and single-strand break formation during base excision repair. <i>DNA Repair</i> , 2011, 10, 961-969.	1.3	32
141	Fragment-Based Discovery and Optimization of Enzyme Inhibitors by Docking of Commercial Chemical Space. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 8160-8169.	2.9	32
142	Cancer phenotypic lethality, exemplified by the non-essential MTH1 enzyme being required for cancer survival. <i>Annals of Oncology</i> , 2014, 25, 1253-1255.	0.6	31
143	A genome-wide IR-induced RAD51 foci RNAi screen identifies CDC73 involved in chromatin remodeling for DNA repair. <i>Cell Discovery</i> , 2015, 1, 15034.	3.1	30
144	Pharmacological targeting of MTHFD2 suppresses acute myeloid leukemia by inducing thymidine depletion and replication stress. <i>Nature Cancer</i> , 2022, 3, 156-172.	5.7	30

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145	Genotoxicity of alcohol is linked to DNA replication-associated damage and homologous recombination repair. <i>Carcinogenesis</i> , 2013, 34, 325-330.	1.3	29
146	Addiction to MTH1 protein results in intense expression in human breast cancer tissue as measured by liquid chromatography-isotope-dilution tandem mass spectrometry. <i>DNA Repair</i> , 2015, 33, 101-110.	1.3	29
147	Targeting OGG1 arrests cancer cell proliferation by inducing replication stress. <i>Nucleic Acids Research</i> , 2020, 48, 12234-12251.	6.5	29
148	Glioblastoma and glioblastoma stem cells are dependent on functional MTH1. <i>Oncotarget</i> , 2017, 8, 84671-84684.	0.8	29
149	Homologous recombination mediates cellular resistance and fraction size sensitivity to radiation therapy. <i>Radiotherapy and Oncology</i> , 2013, 108, 155-161.	0.3	28
150	dUTPase inhibition augments replication defects of 5-Fluorouracil. <i>Oncotarget</i> , 2017, 8, 23713-23726.	0.8	27
151	Cohesin phosphorylation and mobility of SMC1 at ionizing radiation-induced DNA double-strand breaks in human cells. <i>Experimental Cell Research</i> , 2011, 317, 330-337.	1.2	24
152	The Relationship Between Homologous Recombination Repair and the Sensitivity of Human Epidermis to the Size of Daily Doses Over a 5-Week Course of Breast Radiotherapy. <i>Clinical Cancer Research</i> , 2012, 18, 5479-5488.	3.2	24
153	Biological Relevance of DNA Polymerase Beta and Translesion Synthesis Polymerases to Cancer and its Treatment. <i>Current Molecular Pharmacology</i> , 2012, 5, 54-67.	0.7	24
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