

# Philip C Hanawalt

## List of Publications by Year in descending order

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127  
papers

13,941  
citations

24978

57  
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21474

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128  
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128  
docs citations

128  
times ranked

8590  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism for R-loop formation remote from the transcription start site: Topological issues and possible facilitation by dissociation of RNA polymerase. <i>DNA Repair</i> , 2022, 110, 103275.	1.3	6
2	Mechanistic understanding of cellular responses to genomic stress. <i>Environmental and Molecular Mutagenesis</i> , 2020, 61, 25-33.	0.9	5
3	Tribute to Sam Wilson: Shining a light on base excision DNA repair. <i>DNA Repair</i> , 2020, 93, 102933.	1.3	0
4	Transcription Inhibition by PNA-Induced R-Loops. <i>Methods in Molecular Biology</i> , 2020, 2105, 141-155.	0.4	0
5	A novel mode for transcription inhibition mediated by PNA-induced R-loops with a model in vitro system. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2018, 1861, 158-166.	0.9	8
6	Cutting-edge perspectives in genomic maintenance V. <i>DNA Repair</i> , 2018, 71, 1-2.	1.3	0
7	R-loop generation during transcription: Formation, processing and cellular outcomes. <i>DNA Repair</i> , 2018, 71, 69-81.	1.3	101
8	Modulation of Cytotoxicity by Transcription-Coupled Nucleotide Excision Repair Is Independent of the Requirement for Bioactivation of Acylfulvene. <i>Chemical Research in Toxicology</i> , 2017, 30, 769-776.	1.7	7
9	Strong transcription blockage mediated by R-loop formation within a G-rich homopurine-homopyrimidine sequence localized in the vicinity of the promoter. <i>Nucleic Acids Research</i> , 2017, 45, 6589-6599.	6.5	58
10	When transcription goes on Holliday: Double Holliday junctions block RNA polymerase II transcription in vitro. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2017, 1860, 282-288.	0.9	5
11	Photobiological Origins of the Field of Genomic Maintenance. <i>Photochemistry and Photobiology</i> , 2016, 92, 52-60.	1.3	20
12	Cutting-edge Perspectives in Genomic Maintenance III: Preface. <i>DNA Repair</i> , 2016, 44, 1-3.	1.3	4
13	Mutational Strand Asymmetries in Cancer Genomes Reveal Mechanisms of DNA Damage and Repair. <i>Cell</i> , 2016, 164, 538-549.	13.5	363
14	Altered Minor-Groove Hydrogen Bonds in DNA Block Transcription Elongation by T7 RNA Polymerase. <i>ChemBioChem</i> , 2015, 16, 1212-1218.	1.3	4
15	A balanced perspective on unbalanced growth and thymineless death. <i>Frontiers in Microbiology</i> , 2015, 6, 504.	1.5	13
16	24 Interference of PNA binding to the non-template strand with transcription supports the general model for transcription blockage by R-loop formation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 14-14.	2.0	3
17	Photosensitive human syndromes. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 776, 24-30.	0.4	19
18	Historical perspective on the DNA damage response. <i>DNA Repair</i> , 2015, 36, 2-7.	1.3	51

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19	Preface. DNA Repair, 2015, 32, 1-2.	1.3	1
20	Transcription blockage by stable H-DNA analogs in vitro. Nucleic Acids Research, 2015, 43, 6994-7004.	6.5	28
21	Thymineless Death Lives On: New Insights into a Classic Phenomenon. Annual Review of Microbiology, 2015, 69, 247-263.	2.9	50
22	PNA binding to the non- $\epsilon$ template DNA strand interferes with transcription, suggesting a blockage mechanism mediated by R-loop formation. Molecular Carcinogenesis, 2015, 54, 1508-1512.	1.3	16
23	In memory of John Bruce Hays (1937-2014). DNA Repair, 2014, 16, vi-vii.	1.3	0
24	DNA Sequences That Interfere with Transcription: Implications for Genome Function and Stability. Chemical Reviews, 2013, 113, 8620-8637.	23.0	96
25	Comet-FISH with strand-specific probes reveals transcription-coupled repair of 8-oxoGuanine in human cells. Nucleic Acids Research, 2013, 41, 7700-7712.	6.5	85
26	Transcription blockage by homopurine DNA sequences: role of sequence composition and single-strand breaks. Nucleic Acids Research, 2013, 41, 1817-1828.	6.5	57
27	The awakening of DNA repair at Yale. Yale Journal of Biology and Medicine, 2013, 86, 517-23.	0.2	2
28	Transcription Blockage by Bulky End Termini at Single-Strand Breaks in the DNA Template: Differential Effects of 5'- and 3'-Adducts. Biochemistry, 2012, 51, 8964-8970.	1.2	29
29	Lesion Sensing and Decision Points in the DNA Damage Response. Issues in Toxicology, 2012, , 190-211.	0.2	0
30	Transcription-Coupled DNA Repair in Prokaryotes. Progress in Molecular Biology and Translational Science, 2012, 110, 25-40.	0.9	43
31	A novel XPD mutation in a compound heterozygote; the mutation in the second allele is present in three homozygous patients with mild sun sensitivity. Environmental and Molecular Mutagenesis, 2012, 53, 505-514.	0.9	12
32	Anchoring Nascent RNA to the DNA Template Could Interfere with Transcription. Biophysical Journal, 2011, 100, 675-684.	0.2	27
33	DNA slip-outs cause RNA polymerase II arrest in vitro : potential implications for genetic instability. Nucleic Acids Research, 2011, 39, 7444-7454.	6.5	56
34	Transcription-coupled nucleotide excision repair of a gene transcribed by bacteriophage T7 RNA polymerase in Escherichia coli. DNA Repair, 2010, 9, 958-963.	1.3	10
35	Growing up with DNA repair and joining the EMS. Environmental and Molecular Mutagenesis, 2010, 51, 890-896.	0.9	2
36	Thymineless death is associated with loss of essential genetic information from the replication origin. Molecular Microbiology, 2010, 75, 1455-1467.	1.2	47

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37	Mechanisms and implications of transcription blockage by guanine-rich DNA sequences. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12816-12821.	3.3	136
38	Role of RecA and the SOS Response in Thymineless Death in Escherichia coli. PLoS Genetics, 2010, 6, e1000865.	1.5	57
39	A UV-sensitive syndrome patient with a specific <i>CSA</i> mutation reveals separable roles for CSA in response to UV and oxidative DNA damage. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6209-6214.	3.3	112
40	Peptide nucleic acid (PNA) binding and its effect on in vitro transcription in friedreich's ataxia triplet repeats. Molecular Carcinogenesis, 2009, 48, 299-308.	1.3	16
41	New applications of the Comet assay: Comet-FISH and transcription-coupled DNA repair. Mutation Research - Reviews in Mutation Research, 2009, 681, 44-50.	2.4	34
42	Transcription-coupled DNA repair: two decades of progress and surprises. Nature Reviews Molecular Cell Biology, 2008, 9, 958-970.	16.1	896
43	Emerging links between premature ageing and defective DNA repair. Mechanisms of Ageing and Development, 2008, 129, 503-505.	2.2	15
44	G4-forming Sequences in the Non-transcribed DNA Strand Pose Blocks to T7 RNA Polymerase and Mammalian RNA Polymerase II. Journal of Biological Chemistry, 2008, 283, 12756-12762.	1.6	72
45	Inhibitory effect of a short Z-DNA forming sequence on transcription elongation by T7 RNA polymerase. Nucleic Acids Research, 2008, 36, 3163-3170.	6.5	55
46	Paradigms for the Three Rs: DNA Replication, Recombination, and Repair. Molecular Cell, 2007, 28, 702-707.	4.5	44
47	A Triplex-forming Sequence from the Human c-MYC Promoter Interferes with DNA Transcription. Journal of Biological Chemistry, 2007, 282, 32433-32441.	1.6	128
48	Transcription coupled nucleotide excision repair in Escherichia coli can be affected by changing the arginine at position 529 of the $\beta^2$ subunit of RNA polymerase. DNA Repair, 2007, 6, 1434-1440.	1.3	7
49	Nucleotide excision repair phenotype of human acute myeloid leukemia cell lines at various stages of differentiation. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2007, 614, 3-15.	0.4	20
50	Transcriptional Inhibition by an Oxidized Abasic Site in DNA. Chemical Research in Toxicology, 2006, 19, 234-241.	1.7	24
51	Transcription Arrest at an Abasic Site in the Transcribed Strand of Template DNA. Chemical Research in Toxicology, 2006, 19, 1215-1220.	1.7	78
52	Host cell reactivation of plasmids containing oxidative DNA lesions is defective in Cockayne syndrome but normal in UV-sensitive syndrome fibroblasts. DNA Repair, 2006, 5, 13-22.	1.3	122
53	Role of DNA Replication and Repair in Thymineless Death in Escherichia coli. Journal of Bacteriology, 2006, 188, 5286-5288.	1.0	24
54	Transcription Domain-Associated Repair in Human Cells. Molecular and Cellular Biology, 2006, 26, 8722-8730.	1.1	72

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55	Impaired nucleotide excision repair upon macrophage differentiation is corrected by E1 ubiquitin-activating enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16188-16193.	3.3	39
56	Nucleotide Excision Repair Activity Varies Among Murine Spermatogenic Cell Types <sup>1</sup> . <i>Biology of Reproduction</i> , 2005, 73, 123-130.	1.2	47
57	Differential incorporation of halogenated deoxyuridines during UV-induced DNA repair synthesis in human cells. <i>DNA Repair</i> , 2005, 4, 359-366.	1.3	8
58	Density matters: The semiconservative replication of DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17889-17894.	3.3	24
59	Malondialdehyde adducts in DNA arrest transcription by T7 RNA polymerase and mammalian RNA polymerase II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7275-7280.	3.3	63
60	Effect of 8-oxoguanine on transcription elongation by T7 RNA polymerase and mammalian RNA polymerase II. <i>DNA Repair</i> , 2004, 3, 483-494.	1.3	121
61	When parsimony backfires: Neglecting DNA repair may doom neurons in Alzheimer's disease. <i>BioEssays</i> , 2003, 25, 168-173.	1.2	64
62	Who's on first in the cellular response to DNA damage?. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 361-373.	16.1	119
63	Functional characterization of global genomic DNA repair and its implications for cancer. <i>Mutation Research - Reviews in Mutation Research</i> , 2003, 544, 107-114.	2.4	110
64	Four decades of DNA repair: from early insights to current perspectives. <i>Biochimie</i> , 2003, 85, 1043-1052.	1.3	7
65	RecA-Dependent Recovery of Arrested DNA Replication Forks. <i>Annual Review of Genetics</i> , 2003, 37, 611-646.	3.2	187
66	Behavior of T7 RNA Polymerase and Mammalian RNA Polymerase II at Site-specific Cisplatin Adducts in the Template DNA. <i>Journal of Biological Chemistry</i> , 2003, 278, 35791-35797.	1.6	86
67	A cut above: Discovery of an alternative excision repair pathway in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2581-2583.	3.3	42
68	Clustered Sites of DNA Repair Synthesis during Early Nucleotide Excision Repair in Ultraviolet Light-Irradiated Quiescent Human Fibroblasts. <i>Experimental Cell Research</i> , 2002, 276, 284-295.	1.2	12
69	DNA repair in terminally differentiated cells. <i>DNA Repair</i> , 2002, 1, 59-75.	1.3	209
70	Ultraviolet-sensitive syndrome cells are defective in transcription-coupled repair of cyclobutane pyrimidine dimers. <i>DNA Repair</i> , 2002, 1, 629-643.	1.3	55
71	Subpathways of nucleotide excision repair and their regulation. <i>Oncogene</i> , 2002, 21, 8949-8956.	2.6	397
72	Controlling the efficiency of excision repair. <i>Mutation Research DNA Repair</i> , 2001, 485, 3-13.	3.8	127

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73	The SOS-dependent upregulation of <i>uvrD</i> is not required for efficient nucleotide excision repair of ultraviolet light induced DNA photoproducts in <i>Escherichia coli</i> . <i>Mutation Research DNA Repair</i> , 2001, 485, 319-329.	3.8	25
74	Revisiting the rodent repairadox. <i>Environmental and Molecular Mutagenesis</i> , 2001, 38, 89-96.	0.9	75
75	Effect of Thymine Glycol on Transcription Elongation by T7 RNA Polymerase and Mammalian RNA Polymerase II. <i>Journal of Biological Chemistry</i> , 2001, 276, 45367-45371.	1.6	82
76	Comparative Gene Expression Profiles Following UV Exposure in Wild-Type and SOS-Deficient <i>Escherichia coli</i> . <i>Genetics</i> , 2001, 158, 41-64.	1.2	721
77	Reduced global genomic repair of ultraviolet light-induced cyclobutane pyrimidine dimers in simian virus 40-transformed human cells. <i>Molecular Carcinogenesis</i> , 2000, 29, 17-24.	1.3	48
78	The bases for Cockayne syndrome. <i>Nature</i> , 2000, 405, 415-415.	13.7	93
79	p53-Mediated DNA Repair Responses to UV Radiation: Studies of Mouse Cells Lacking p53, p21, and/or gadd45 Genes. <i>Molecular and Cellular Biology</i> , 2000, 20, 3705-3714.	1.1	411
80	Terminally Differentiated Human Neurons Repair Transcribed Genes but Display Attenuated Global DNA Repair and Modulation of Repair Gene Expression. <i>Molecular and Cellular Biology</i> , 2000, 20, 1562-1570.	1.1	182
81	Xeroderma Pigmentosum p48 Gene Enhances Global Genomic Repair and Suppresses UV-Induced Mutagenesis. <i>Molecular Cell</i> , 2000, 5, 737-744.	4.5	312
82	Structural Characterization of RNA Polymerase II Complexes Arrested by a Cyclobutane Pyrimidine Dimer in the Transcribed Strand of Template DNA. <i>Journal of Biological Chemistry</i> , 1999, 274, 24124-24130.	1.6	123
83	Expression and nucleotide excision repair of a UV-irradiated reporter gene in unirradiated human cells. <i>Mutation Research DNA Repair</i> , 1999, 433, 117-126.	3.8	20
84	A phylogenomic study of DNA repair genes, proteins, and processes. <i>Mutation Research DNA Repair</i> , 1999, 435, 171-213.	3.8	398
85	Effect of DNA lesions on transcription elongation. <i>Biochimie</i> , 1999, 81, 139-146.	1.3	202
86	Reduced extractability of the XPA DNA repair protein in ultraviolet light-irradiated mammalian cells. <i>FEBS Letters</i> , 1999, 463, 49-52.	1.3	16
87	Transcription-Coupled DNA Repair. , 1999, , 169-179.		20
88	Recovery of DNA Replication in UV-Irradiated <i>Escherichia coli</i> Requires both Excision Repair and RecF Protein Function. <i>Journal of Bacteriology</i> , 1999, 181, 916-922.	1.0	123
89	Induction of the SOS Response Increases the Efficiency of Global Nucleotide Excision Repair of Cyclobutane Pyrimidine Dimers, but Not 6-4 Photoproducts, in UV-Irradiated <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1998, 180, 3345-3352.	1.0	90
90	Expression of Wild-type p53 Is Required for Efficient Global Genomic Nucleotide Excision Repair in UV-irradiated Human Fibroblasts. <i>Journal of Biological Chemistry</i> , 1997, 272, 28073-28080.	1.6	318

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91	Excision-repair patch lengths are similar for transcription-coupled repair and global genome repair in UV-irradiated human cells. <i>Mutation Research DNA Repair</i> , 1997, 385, 95-105.	3.8	26
92	Mismatch Repair Mutants in Yeast Are Not Defective in Transcription-Coupled DNA Repair of UV-Induced DNA Damage. <i>Genetics</i> , 1996, 143, 1127-1135.	1.2	40
93	Evolution of the SNF2 family of proteins: subfamilies with distinct sequences and functions. <i>Nucleic Acids Research</i> , 1995, 23, 2715-2723.	6.5	656
94	Preferential repair of the transcribed DNA strand in the dihydrofolate reductase gene throughout the cell cycle in UV-irradiated human cells. <i>Mutation Research DNA Repair</i> , 1995, 336, 181-192.	3.8	40
95	Evolution of concepts in DNA repair. <i>Environmental and Molecular Mutagenesis</i> , 1994, 23, 78-85.	0.9	24
96	“Close fitting sleeves” Recognition of structural defects in duplex DNA. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1993, 289, 7-15.	0.4	9
97	Stranded in an active gene. <i>Current Biology</i> , 1993, 3, 67-69.	1.8	109
98	Lack of transcription-coupled repair in mammalian ribosomal RNA genes. <i>Biochemistry</i> , 1993, 32, 10512-10518.	1.2	85
99	Inhibition of transcription and strand-specific DNA repair by $\alpha$ -amanitin in Chinese hamster ovary cells. <i>Mutation Research DNA Repair</i> , 1992, 274, 93-101.	3.8	100
100	Translesion DNA synthesis in the dihydrofolate reductase domain of UV-irradiated CHO cells. <i>Biochemistry</i> , 1992, 31, 6794-6800.	1.2	62
101	Efficient protection against oxidative DNA damage in chromatin. <i>Molecular Carcinogenesis</i> , 1992, 5, 264-269.	1.3	126
102	The genetic defect in the Chinese hamster ovary cell mutant UV61 permits moderate selective repair of cyclobutane pyrimidine dimers in an expressed gene. <i>Mutation Research DNA Repair</i> , 1991, 255, 183-191.	3.8	51
103	Lack of sequence-specific removal of N-methylpurines from cellular DNA. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1990, 233, 31-37.	0.4	15
104	Selective repair of specific chromatin domains in UV-irradiated cells from xeroderma pigmentosum complementation group C. <i>Mutation Research DNA Repair</i> , 1990, 235, 171-180.	3.8	86
105	Concepts and models for DNA repair: From <i>Escherichia coli</i> to mammalian cells. <i>Environmental and Molecular Mutagenesis</i> , 1989, 14, 90-98.	0.9	33
106	Induction of the <i>Escherichia coli</i> lactose operon selectively increases repair of its transcribed DNA strand. <i>Nature</i> , 1989, 342, 95-98.	13.7	559
107	Isolation and genetic characterization of a thymineless death-resistant mutant of <i>Escherichia coli</i> K12: Identification of a new mutation ( <i>recQ1</i> ) that blocks the RecF recombination pathway. <i>Molecular Genetics and Genomics</i> , 1984, 195, 474-480.	2.4	246
108	Deficient repair of chemical adducts in $\alpha$ DNA of monkey cells. <i>Cell</i> , 1982, 28, 613-619.	13.5	108

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109	Ligation of oligonucleotides by pyrimidine dimers—a missing “link” in the origin of life?. <i>Nature</i> , 1982, 298, 393-396.	13.7	46
110	Rearrangement of mammalian chromatin structure following excision repair. <i>Nature</i> , 1982, 299, 462-464.	13.7	53
111	Sensitive determination of pyrimidine dimers in DNA of UV-irradiated mammalian cells Introduction of T4 endonuclease V into frozen and thawed cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1981, 82, 173-189.	0.4	116
112	Processive action of T4 endonuclease V on ultraviolet-irradiated DNA. <i>Nucleic Acids Research</i> , 1980, 8, 5113-5127.	6.5	88
113	DNA Repair in Bacteria and Mammalian Cells. <i>Annual Review of Biochemistry</i> , 1979, 48, 783-836.	5.0	891
114	Turnover in bacterial DNA containing thymine or 5-bromouracil. <i>Journal of Molecular Biology</i> , 1975, 98, 219-233.	2.0	30
115	Role of DNA Polymerase II in Repair Replication in <i>Escherichia coli</i> . <i>Nature: New Biology</i> , 1973, 244, 242-243.	4.5	84
116	Heterogeneity of patch size in repair replicated DNA in <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1972, 67, 1-10.	2.0	157
117	CELLULAR RECOVERY FROM PHOTOCHEMICAL DAMAGE. , 1968, , 203-251.		38
118	Macromolecular Synthesis and Thymineless Death in <i>Mycoplasma laidlawii</i> B. <i>Journal of Bacteriology</i> , 1968, 96, 2066-2076.	1.0	52
119	DNA repair replication in temperature-sensitive DNA synthesis deficient bacteria. <i>Biochemical and Biophysical Research Communications</i> , 1967, 29, 779-784.	1.0	37
120	The Repair of DNA. <i>Scientific American</i> , 1967, 216, 36-43.	1.0	58
121	THE U.V. SENSITIVITY OF BACTERIA: ITS RELATION TO THE DNA REPLICATION CYCLE. <i>Photochemistry and Photobiology</i> , 1966, 5, 1-12.	1.3	128
122	Repair replication of DNA in bacteria: Irrelevance of chemical nature of base defect. <i>Biochemical and Biophysical Research Communications</i> , 1965, 19, 462-467.	1.0	125
123	Evidence for repair-replication of ultraviolet damaged DNA in bacteria. <i>Journal of Molecular Biology</i> , 1964, 9, 395-410.	2.0	520
124	Thymine deficiency and the normal DNA replication cycle. I. <i>Journal of Molecular Biology</i> , 1961, 3, 144-155.	2.0	706
125	The normal DNA replication cycle. II. <i>Journal of Molecular Biology</i> , 1961, 3, 156-165.	2.0	224
126	Effect of monochromatic ultraviolet light on macromolecular synthesis in <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta</i> , 1960, 41, 283-294.	1.3	82



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127	Photoreactivation of macromolecular synthesis in Escherichia coli. <i>Biochimica Et Biophysica Acta</i> , 1960, 37, 141-143.	1.3	14