Carol W Greider

List of Publications by Year
in descending order

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88 papers	31,704 citations	26630 56 h-index	51608 86 g-index
97 all docs	97 docs citations	97 times ranked	17080 citing authors

#	Article	IF	Citations
1	Chromosome-specific telomere lengths and the minimal functional telomere revealed by nanopore sequencing. Genome Research, 2022, 32, 616-628.	5.5	25
2	The Bur1 cyclinâ€dependent kinase regulates telomere length in <scp>Saccharomyces cerevisiae</scp>. Yeast, 2022, 39, 177-192.	1.7	4
3	Autoantibodies targeting telomere-associated proteins in systemic sclerosis. Annals of the Rheumatic Diseases, 2021, 80, 912-919.	0.9	19
4	Rif1 regulates telomere length through conserved HEAT repeats. Nucleic Acids Research, 2021, 49, 3967-3980.	14.5	9
5	The role of Rif1 in telomere length regulation is separable from its role in origin firing. ELife, 2020, 9, .	6.0	16
6	TIN2 Functions with TPP1/POT1 To Stimulate Telomerase Processivity. Molecular and Cellular Biology, 2019, 39, .	2.3	36
7	Increasing gender diversity in the STEM research workforce. Science, 2019, 366, 692-695.	12.6	52
8	Tel1 Activation by the MRX Complex Is Sufficient for Telomere Length Regulation but Not for the DNA Damage Response in Saccharomyces cerevisiae. Genetics, 2019, 213, 1271-1288.	2.9	16
9	Diagnostic utility of telomere length testing in a hospital-based setting. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2358-E2365.	7.1	165
10	BRD4 inhibitors block telomere elongation. Nucleic Acids Research, 2017, 45, 8403-8410.	14.5	33
11	Not just Salk. Science, 2017, 357, 1105-1106.	12.6	4
12	Preprints for the life sciences. Science, 2016, 352, 899-901.	12.6	119
13	Regulating telomere length from the inside out: the replication fork model. Genes and Development, 2016, 30, 1483-1491.	5.9	66
14	Regulation of Telomere Length Requires a Conserved N-Terminal Domain of Rif2 in Saccharomyces cerevisiae. Genetics, 2015, 201, 573-586.	2.9	21
15	Treating Myeloproliferation â€" On Target or Off?. New England Journal of Medicine, 2015, 373, 965-966.	27.0	29
16	Wnt Regulates TERTâ€"Putting the Horse Before the Cart. Science, 2012, 336, 1519-1520.	12.6	31
17	Extreme Telomere Length Dimorphism in the Tasmanian Devil and Related Marsupials Suggests Parental Control of Telomere Length. PLoS ONE, 2012, 7, e46195.	2.5	27
18	Subtelomere recombination is frequent in tumors lacking telomerase. FASEB Journal, 2012, 26, 933.4.	0.5	0

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19	Phenotypes in mTERT^{+/â˜’} and mTERT^{â˜’/â˜’} Mice Are Due to Short Telomeres, Not Telomere-Independent Functions of Telomerase Reverse Transcriptase. Molecular and Cellular Biology, 2011, 31, 2369-2379.	2.3	117
20	Die Entdeckung der Telomerase: vom VergnÃ¼gen, Teile des Puzzles zusammenzufÃ¼gen (Nobelâ€Aufsatz). Angewandte Chemie, 2010, 122, 7582-7601.	2.0	1
21	Telomerase Discovery: The Excitement of Putting Together Pieces of the Puzzle (Nobel Lecture). Angewandte Chemie - International Edition, 2010, 49, 7422-7439.	13.8	34
22	A sequence-dependent exonuclease activity from Tetrahymena thermophila. BMC Biochemistry, 2010, 11, 45.	4.4	1
23	Comparing effects of mTR and mTERT deletion on gene expression and DNA damage response: a critical examination of telomere length maintenance-independent roles of telomerase. Nucleic Acids Research, 2010, 38, 60-71.	14.5	36
24	Kinase-Independent Functions of TEL1 in Telomere Maintenance. Molecular and Cellular Biology, 2009, 29, 5193-5202.	2.3	27
25	Short Telomeres Initiate Telomere Recombination in Primary and Tumor Cells. PLoS Genetics, 2009, 5, e1000357.	3.5	68
26	Short Telomeres are Sufficient to Cause the Degenerative Defects Associated with Aging. American Journal of Human Genetics, 2009, 85, 823-832.	6.2	216
27	Telomerase Mutations in Families with Idiopathic Pulmonary Fibrosis. New England Journal of Medicine, 2007, 356, 1317-1326.	27.0	1,175
28	Short Telomeres Limit Tumor Progression In Vivo by Inducing Senescence. Cancer Cell, 2007, 11, 461-469.	16.8	270
29	Regulation of Telomere Elongation by the Cyclin-Dependent Kinase CDK1. Molecular Cell, 2006, 24, 423-432.	9.7	90
30	Telomeres and telomerase: the path from maize, Tetrahymena and yeast to human cancer and aging. Nature Medicine, 2006, 12, 1133-1138.	30.7	824
31	Ataxia telangiectasia mutated (Atm) is not required for telomerase-mediated elongation of short telomeres. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2249-2251.	7.1	21
32	Telomere fusion to chromosome breaks reduces oncogenic translocations and tumour formation. Nature Cell Biology, 2005, 7, 706-711.	10.3	28
33	Functional analysis of the pseudoknot structure in human telomerase RNA. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8080-8085.	7.1	120
34	Haploinsufficiency of t e lomerase reverse transcriptase leads to anticipation in autosomal dominant dyskeratosis congenita. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15960-15964.	7.1	423
35	Short Telomeres, even in the Presence of Telomerase, Limit Tissue Renewal Capacity. Cell, 2005, 123, 1121-1131.	28.9	264
36	Phosphorylation of H2AX at Short Telomeres in T Cells and Fibroblasts. Journal of Biological Chemistry, 2004, 279, 45148-45154.	3.4	65

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37	An emerging consensus for telomerase RNA structure. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14683-14684.	7.1	89
38	Telomerase RNA structure and function: implications for dyskeratosis congenita. Trends in Biochemical Sciences, 2004, 29, 183-192.	7.5	129
39	Genomic instability inï¿½both wild-type and telomerase null MEFs. Chromosoma, 2004, 113, 62-8.	2.2	9
40	Tracking telomerase. Cell, 2004, 116, S83-S87.	28.9	40
41	Telomere dysfunction and the initiation of genome instability. Nature Reviews Cancer, 2003, 3, 623-627.	28.4	192
42	Determinants in mammalian telomerase RNA that mediate enzyme processivity and cross-species incompatibility. EMBO Journal, 2003, 22, 304-314.	7.8	116
43	Template boundary definition in mammalian telomerase. Genes and Development, 2003, 17, 2747-2752.	5.9	139
44	End Resection Initiates Genomic Instability in the Absence of Telomerase. Molecular and Cellular Biology, 2003, 23, 8450-8461.	2.3	91
45	Stem-Loop IV of Tetrahymena Telomerase RNA Stimulates Processivity in trans. Molecular and Cellular Biology, 2003, 23, 5606-5613.	2.3	66
46	Short Telomeres Induce a DNA Damage Response inSaccharomyces cerevisiae. Molecular Biology of the Cell, 2003, 14, 987-1001.	2.1	163
47	Short telomeres and ataxia-telangiectasia mutated deficiency cooperatively increase telomere dysfunction and suppress tumorigenesis. Cancer Research, 2003, 63, 8188-96.	0.9	56
48	A critical stem-loop structure in the CR4-CR5 domain of mammalian telomerase RNA. Nucleic Acids Research, 2002, 30, 592-597.	14.5	137
49	Haploinsufficiency of mTR results in defects in telomere elongation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3591-3596.	7.1	98
50	Balancing instability: dual roles for telomerase and telomere dysfunction in tumorigenesis. Oncogene, 2002, 21, 619-626.	5.9	221
51	Telomere Dysfunction Increases Mutation Rate and Genomic Instability. Cell, 2001, 106, 275-286.	28.9	348
52	The Shortest Telomere, Not Average Telomere Length, Is Critical for Cell Viability and Chromosome Stability. Cell, 2001, 107, 67-77.	28.9	1,030
53	Telomere Dysfunction Triggers Developmentally Regulated Germ Cell Apoptosis. Molecular Biology of the Cell, 2001, 12, 2023-2030.	2.1	153
54	Two Survivor Pathways That Allow Growth in the Absence of Telomerase Are Generated by Distinct Telomere Recombination Events. Molecular and Cellular Biology, 2001, 21, 1819-1827.	2.3	250

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55	Recombination in telomere-length maintenance. Trends in Biochemical Sciences, 2000, 25, 200-204.	7.5	95
56	Identification of Two RNA-binding Proteins Associated with Human Telomerase RNA. Molecular Biology of the Cell, 2000, 11, 999-1010.	2.1	123
57	Secondary Structure of Vertebrate Telomerase RNA. Cell, 2000, 100, 503-514.	28.9	547
58	Telomerase activation: one step on the road to cancer?. Trends in Genetics, 1999, 15, 109-112.	6.7	91
59	Longevity, Stress Response, and Cancer in Aging Telomerase-Deficient Mice. Cell, 1999, 96, 701-712.	28.9	1,294
60	Telomeres Do D-Loopâ€“T-Loop. Cell, 1999, 97, 419-422.	28.9	226
61	Short Dysfunctional Telomeres Impair Tumorigenesis in the INK4aÎ”2/3 Cancer-Prone Mouse. Cell, 1999, 97, 515-525.	28.9	365
62	p53 Deficiency Rescues the Adverse Effects of Telomere Loss and Cooperates with Telomere Dysfunction to Accelerate Carcinogenesis. Cell, 1999, 97, 527-538.	28.9	926
63	RAD50 and RAD51 Define Two Pathways That Collaborate to Maintain Telomeres in the Absence of Telomerase. Genetics, 1999, 152, 143-152.	2.9	364
64	Essential role of mouse telomerase in highly proliferative organs. Nature, 1998, 392, 569-574.	27.8	1,195
65	Telomeres and senescence: The history, the experiment, the future. Current Biology, 1998, 8, R178-R181.	3.9	163
66	Mutational analysis of the Tetrahymena telomerase RNA: identification of residues affecting telomerase activity in vitro. Nucleic Acids Research, 1998, 26, 787-795.	14.5	46
67	Telomerase Activity in Human Gliomas. Neurosurgery, 1998, 42, 1120-1124.	1.1	62
68	Telomere Shortening and Tumor Formation by Mouse Cells Lacking Telomerase RNA. Cell, 1997, 91, 25-34.	28.9	1,988
69	Mouse Models for the Study of Telomerase. Novartis Foundation Symposium, 1997, 211, 160-176.	1.1	19
70	Telomere Length Regulation. Annual Review of Biochemistry, 1996, 65, 337-365.	11.1	955
71	Telomeres, Telomerase and Cancer. Scientific American, 1996, 274, 92-97.	1.0	260
72	Differential regulation of telomerase activity and telomerase RNA during multi-stage tumorigenesis. Nature Genetics, 1996, 12, 200-204.	21.4	281

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73	The RNA Component of Human Telomerase. Science, 1995, 269, 1236-1241.	12.6	2,107
74	Gel Shift and UV Cross-linking Analysis of Tetrahymena Telomerase. Journal of Biological Chemistry, 1995, 270, 8893-8901.	3.4	32
75	Purification of tetrahymena telomerase and cloning of genes encoding the two protein components of the enzyme. Cell, 1995, 81, 677-686.	28.9	257
76	Mammalian telomere dynamics: healing, fragmentation shortening and stabilization. Current Opinion in Genetics and Development, 1994, 4, 203-211.	3.3	157
77	Telomere end-replication problem and cell aging. Journal of Molecular Biology, 1992, 225, 951-960.	4.2	975
78	Telomere chromatin and gene expression. Current Biology, 1992, 2, 62-64.	3.9	7
79	Tetrahymena Telomerase RNA levels increase during macronuclear development. Genesis, 1992, 13, 80-86.	2.1	24
80	Telomeres. Current Opinion in Cell Biology, 1991, 3, 444-451.	5.4	102
81	Chromosome first aid. Cell, 1991, 67, 645-647.	28.9	87
82	Telomeres shorten during ageing of human fibroblasts. Nature, 1990, 345, 458-460.	27.8	5,173
83	Telomeres, telomerase and senescence. BioEssays, 1990, 12, 363-369.	2.5	254
84	A telomeric sequence in the RNA of Tetrahymena telomerase required for telomere repeat synthesis. Nature, 1989, 337, 331-337.	27.8	1,504
85	Recognition and elongation of telomeres by telomerase. Genome, 1989, 31, 553-560.	2.0	190
86	The telomere terminal transferase of tetrahymena is a ribonucleoprotein enzyme with two kinds of primer specificity. Cell, 1987, 51, 887-898.	28.9	1,048
87	Identification of a specific telomere terminal transferase activity in tetrahymena extracts. Cell, 1985, 43, 405-413.	28.9	2,998
88	Balancing instability: dual roles for telomerase and telomere dysfunction in tumorigenesis. , 0, .		4