

# Eric Gilson

## List of Publications by Year in descending order

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77  
papers

5,308  
citations

94433

37  
h-index

85541

71  
g-index

87  
all docs

87  
docs citations

87  
times ranked

5776  
citing authors

#	ARTICLE	IF	CITATIONS
1	The metabolic checkpoint kinase mTOR is essential for IL-15 signaling during the development and activation of NK cells. <i>Nature Immunology</i> , 2014, 15, 749-757.	14.5	484
2	Telomeric localization of TRF2, a novel human telobox protein. <i>Nature Genetics</i> , 1997, 17, 236-239.	21.4	461
3	How telomeres are replicated. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 825-838.	37.0	396
4	Cohabitation of insulators and silencing elements in yeast subtelomeric regions. <i>EMBO Journal</i> , 1999, 18, 2522-2537.	7.8	221
5	Telomere damage induced by the G-quadruplex ligand RHPS4 has an antitumor effect. <i>Journal of Clinical Investigation</i> , 2007, 117, 3236-3247.	8.2	212
6	Targeting Assay To Study the <i>cis</i> Functions of Human Telomeric Proteins: Evidence for Inhibition of Telomerase by TRF1 and for Activation of Telomere Degradation by TRF2. <i>Molecular and Cellular Biology</i> , 2002, 22, 3474-3487.	2.3	183
7	The Apollo 5' Exonuclease Functions Together with TRF2 to Protect Telomeres from DNA Repair. <i>Current Biology</i> , 2006, 16, 1303-1310.	3.9	181
8	A topological mechanism for TRF2-enhanced strand invasion. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 147-154.	8.2	159
9	Human telomeric position effect is determined by chromosomal context and telomeric chromatin integrity. <i>EMBO Reports</i> , 2002, 3, 1055-1061.	4.5	158
10	TRF2 and Apollo Cooperate with Topoisomerase 2 $\beta$ to Protect Human Telomeres from Replicative Damage. <i>Cell</i> , 2010, 142, 230-242.	28.9	155
11	A two-step model for senescence triggered by a single critically short telomere. <i>Nature Cell Biology</i> , 2009, 11, 988-993.	10.3	151
12	TRF2-Mediated Control of Telomere DNA Topology as a Mechanism for Chromosome-End Protection. <i>Molecular Cell</i> , 2016, 61, 274-286.	9.7	124
13	The human TTAGGG repeat factors 1 and 2 bind to a subset of interstitial telomeric sequences and satellite repeats. <i>Cell Research</i> , 2011, 21, 1028-1038.	12.0	123
14	Transcriptional outcome of telomere signalling. <i>Nature Reviews Genetics</i> , 2014, 15, 491-503.	16.3	121
15	Changes in the expression of telomere maintenance genes suggest global telomere dysfunction in B-chronic lymphocytic leukemia. <i>Blood</i> , 2008, 111, 2388-2391.	1.4	114
16	SNMIB/Apollo protects leading-strand telomeres against NHEJ-mediated repair. <i>EMBO Journal</i> , 2010, 29, 2230-2241.	7.8	104
17	TRF2 promotes, remodels and protects telomeric Holliday junctions. <i>EMBO Journal</i> , 2009, 28, 641-651.	7.8	99
18	TRF2 inhibits a cell-extrinsic pathway through which natural killer cells eliminate cancer cells. <i>Nature Cell Biology</i> , 2013, 15, 818-828.	10.3	99

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19	Genetic and Pharmacological Inactivation of the Purinergic P2RX7 Receptor Dampens Inflammation but Increases Tumor Incidence in a Mouse Model of Colitis-Associated Cancer. <i>Cancer Research</i> , 2015, 75, 835-845.	0.9	96
20	G-Quadruplex Ligand RHPS4 Potentiates the Antitumor Activity of Camptothecins in Preclinical Models of Solid Tumors. <i>Clinical Cancer Research</i> , 2008, 14, 7284-7291.	7.0	82
21	The Wilmsâ€™ tumour suppressor Wt1 is a major regulator of tumour angiogenesis and progression. <i>Nature Communications</i> , 2014, 5, 5852.	12.8	82
22	Telomere protection and TRF2 expression are enhanced by the canonical Wnt signalling pathway. <i>EMBO Reports</i> , 2013, 14, 356-363.	4.5	72
23	The Telomeric Protein TRF2 Regulates Angiogenesis by Binding and Activating the PDGFR $\beta$ Promoter. <i>Cell Reports</i> , 2014, 9, 1047-1060.	6.4	71
24	Expression of mRNAs for telomeric repeat binding factor (TRF)-1 and TRF2 in atypical adenomatous hyperplasia and adenocarcinoma of the lung. <i>Clinical Cancer Research</i> , 2003, 9, 1105-11.	7.0	69
25	TRF2/RAP1 and DNAâ€™PK mediate a double protection against joining at telomeric ends. <i>EMBO Journal</i> , 2010, 29, 1573-1584.	7.8	67
26	The N-terminal domains of TRF1 and TRF2 regulate their ability to condense telomeric DNA. <i>Nucleic Acids Research</i> , 2012, 40, 2566-2576.	14.5	64
27	TRF2 inhibition triggers apoptosis and reduces tumourigenicity of human melanoma cells. <i>European Journal of Cancer</i> , 2006, 42, 1881-1888.	2.8	62
28	One Identity or More for Telomeres?. <i>Frontiers in Oncology</i> , 2013, 3, 48.	2.8	56
29	Genome-wide Control of Heterochromatin Replication by the Telomere Capping Protein TRF2. <i>Molecular Cell</i> , 2018, 70, 449-461.e5.	9.7	52
30	Cancer cells induce immune escape via glycoalyx changes controlled by the telomeric protein <scp>TRF</scp> 2. <i>EMBO Journal</i> , 2019, 38, .	7.8	49
31	The basic N-terminal domain of TRF2 limits recombination endonuclease action at human telomeres. <i>Cell Cycle</i> , 2014, 13, 2469-2474.	2.6	48
32	The Tara Pacific expeditionâ€™A pan-ecosystemic approach of the â€™omicsâ€™ complexity of coral reef holobionts across the Pacific Ocean. <i>PLoS Biology</i> , 2019, 17, e3000483.	5.6	48
33	Telomeric damage in early stage of chronic lymphocytic leukemia correlates with shelterin dysregulation. <i>Blood</i> , 2011, 118, 1316-1322.	1.4	47
34	A yeast living ancestor reveals the origin of genomic introgressions. <i>Nature</i> , 2020, 587, 420-425.	27.8	45
35	Structural identity of telomeric complexes. <i>FEBS Letters</i> , 2010, 584, 3785-3799.	2.8	44
36	Telomere Length Profiles in Humans: All Ends are Not Equal. <i>Cell Cycle</i> , 2007, 6, 2486-2494.	2.6	43

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37	SIRT6 interacts with TRF2 and promotes its degradation in response to DNA damage. <i>Nucleic Acids Research</i> , 2017, 45, 1820-1834.	14.5	43
38	Human <sc>RAP</sc> 1 specifically protects telomeres of senescent cells from <sc>DNA</sc> damage. <i>EMBO Reports</i> , 2020, 21, e49076.	4.5	43
39	A Methyltransferase Targeting Assay Reveals Silencer-Telomere Interactions in Budding Yeast. <i>Molecular and Cellular Biology</i> , 2003, 23, 1498-1508.	2.3	41
40	High expression of <sc>TRF</sc>2, <sc>SOX</sc>10, and <sc>CD</sc>10 in circulating tumor microemboli detected in metastatic melanoma patients. A potential impact for the assessment of disease aggressiveness. <i>Cancer Medicine</i> , 2016, 5, 1022-1030.	2.8	40
41	TRF2 positively regulates SULF2 expression increasing VEGF-A release and activity in tumor microenvironment. <i>Nucleic Acids Research</i> , 2019, 47, 3365-3382.	14.5	34
42	DNA Damage Persistence as Determinant of Tumor Sensitivity to the Combination of Topo I Inhibitors and Telomere-Targeting Agents. <i>Clinical Cancer Research</i> , 2011, 17, 2227-2236.	7.0	33
43	TRF1 and TRF2 binding to telomeres is modulated by nucleosomal organization. <i>Nucleic Acids Research</i> , 2015, 43, 5824-5837.	14.5	31
44	Mitochondrial function in skeletal myofibers is controlled by a TRF2&#x2013;SIRT3 axis over lifetime. <i>Aging Cell</i> , 2020, 19, e13097.	6.7	31
45	A higher-order entity formed by the flexible assembly of RAP1 with TRF2. <i>Nucleic Acids Research</i> , 2016, 44, 1962-1976.	14.5	26
46	The telomerase cycle: normal and pathological aspects. <i>Journal of Molecular Medicine</i> , 2005, 83, 244-257.	3.9	24
47	The Power of Stress: The Telo-Hormesis Hypothesis. <i>Cells</i> , 2021, 10, 1156.	4.1	22
48	The differential spatiotemporal expression pattern of shelterin genes throughout lifespan. <i>Aging</i> , 2017, 9, 1219-1232.	3.1	22
49	ERK1/2/MAPK pathway-dependent regulation of the telomeric factor TRF2. <i>Oncotarget</i> , 2016, 7, 46615-46627.	1.8	22
50	The telomere story or the triumph of an open-minded research. <i>Biochimie</i> , 2010, 92, 321-326.	2.6	19
51	Multifunctionality of the Telomere-Capping Shelterin Complex Explained by Variations in Its Protein Composition. <i>Cells</i> , 2021, 10, 1753.	4.1	16
52	Telomeric impact of conventional chemotherapy. <i>Frontiers of Medicine</i> , 2013, 7, 411-417.	3.4	15
53	A basal level of DNA damage and telomere deprotection increases the sensitivity of cancer cells to G-quadruplex interactive compounds. <i>Nucleic Acids Research</i> , 2015, 43, 1759-1769.	14.5	15
54	Long-lived post-mitotic cell aging: is a telomere clock at play?. <i>Mechanisms of Ageing and Development</i> , 2020, 189, 111256.	4.6	15

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55	Naked mole rat TRF1 safeguards glycolytic capacity and telomere replication under low oxygen. <i>Science Advances</i> , 2021, 7, .	10.3	12
56	Platination of telomeric DNA by cisplatin disrupts recognition by TRF2 and TRF1. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 641-654.	2.6	11
57	Neutrophils: mediating TelOxidation and senescence. <i>EMBO Journal</i> , 2021, 40, e108164.	7.8	11
58	PP2A subunit PPP2R2C is downregulated in the brains of Alzheimer's transgenic mice. <i>Aging</i> , 2020, 12, 6880-6890.	3.1	11
59	TRFH domain: at the root of telomere protein evolution?. <i>Cell Research</i> , 2018, 28, 7-8.	12.0	10
60	Inhibiting TRF1 upstream signaling pathways to target telomeres in cancer cells. <i>EMBO Molecular Medicine</i> , 2019, 11, e10845.	6.9	10
61	The non-telomeric evolutionary trajectory of TRF2 in zebrafish reveals its specific roles in neurodevelopment and aging. <i>Nucleic Acids Research</i> , 2022, 50, 2081-2095.	14.5	10
62	The topoisomerase II catalytic inhibitor ICRF-193 preferentially targets telomeres that are capped by TRF2. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 308, C372-C377.	4.6	9
63	Heterochromatin replication goes hand in hand with telomere protection. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 313-318.	8.2	9
64	A novel pathway links telomeres to NK-cell activity. <i>Oncotarget</i> , 2014, 3, e27358.	4.6	8
65	Differential senescence capacities in meibomian gland carcinoma and basal cell carcinoma. <i>International Journal of Cancer</i> , 2016, 138, 1442-1452.	5.1	8
66	A Novel Screen for Expression Regulators of the Telomeric Protein TRF2 Identified Small Molecules That Impair TRF2 Dependent Immunosuppression and Tumor Growth. <i>Cancers</i> , 2021, 13, 2998.	3.7	8
67	Telomere dysfunction is associated with dark-induced bleaching in the reef coral <i>Stylophora pistillata</i> . <i>Molecular Ecology</i> , 2022, 31, 6087-6099.	3.9	8
68	Test anxiety and telomere length: Academic stress in adolescents may not cause rapid telomere erosion. <i>Oncotarget</i> , 2017, 8, 10836-10844.	1.8	7
69	The Telomeric Protein TRF2 Regulates Replication Origin Activity within Pericentromeric Heterochromatin. <i>Life</i> , 2021, 11, 267.	2.4	7
70	Selective pericentromeric heterochromatin dismantling caused by TP53 activation during senescence. <i>Nucleic Acids Research</i> , 2022, 50, 7493-7510.	14.5	5
71	TRF2 acts as a transcriptional regulator in tumor angiogenesis. <i>Molecular and Cellular Oncology</i> , 2015, 2, e988508.	0.7	4
72	Longevity strategies in response to light in the reef coral <i>Stylophora pistillata</i> . <i>Scientific Reports</i> , 2020, 10, 19937.	3.3	4

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73	Dynamics under the Telomeric Bridge. <i>Molecular Cell</i> , 2017, 68, 643-644.	9.7	3
74	Loss of atm in Zebrafish as a Model of Ataxiaâ€“Telangiectasia Syndrome. <i>Biomedicines</i> , 2022, 10, 392.	3.2	3
75	Analysis of DNAâ€“Protein Complexes by Atomic Force Microscopy Imaging: The Case of TRF2â€“Telomeric DNA Wrapping. <i>Methods in Molecular Biology</i> , 2019, 1886, 75-97.	0.9	2
76	Association of TRF2 expression and myeloid-derived suppressor cells infiltration with clinical outcome of patients with cutaneous melanoma. <i>Oncolmmunology</i> , 2021, 10, 1901446.	4.6	2
77	The knockdown efficiency of telomere associated genes with specific methodology in a zebrafish cell line. <i>Biochimie</i> , 2021, 190, 12-19.	2.6	0