David M Gilbert

List of Publications by Year
in descending order

132 papers	15,847 citations	22132 59 h-index	20943 115 g-index
160 all docs	160 docs citations	160 times ranked	17912 citing authors

#	Article	IF	Citations
1	Mapping Replication Timing in Single Mammalian Cells. Current Protocols, 2022, 2, e334.	1.3	5
2	Cohesin-mediated loop anchors confine the locations of human replication origins. Nature, 2022, 606, 812-819.	13.7	47
3	The Tiger Rattlesnake genome reveals a complex genotype underlying a simple venom phenotype. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	43
4	SPIN reveals genome-wide landscape of nuclear compartmentalization. Genome Biology, 2021, 22, 36.	3.8	61
5	Replication timing maintains the global epigenetic state in human cells. Science, 2021, 372, 371-378.	6.0	103
6	Nuclear organisation and replication timing are coupled through RIF1â€"PP1 interaction. Nature Communications, 2021, 12, 2910.	5.8	29
7	Genome-wide mapping of human DNA replication by optical replication mapping supports a stochastic model of eukaryotic replication. Molecular Cell, 2021, 81, 2975-2988.e6.	4.5	57
8	High-throughput single-cell epigenomic profiling by targeted insertion of promoters (TIP-seq). Journal of Cell Biology, 2021, 220, .	2.3	19
9	3D genome organization contributes to genome instability at fragile sites. Nature Communications, 2020, 11, 3613.	5.8	46
10	Cohesin depleted cells rebuild functional nuclear compartments after endomitosis. Nature Communications, 2020, 11, 6146.	5.8	35
11	An integrative ENCODE resource for cancer genomics. Nature Communications, 2020, 11, 3696.	5.8	95
12	Perspectives on ENCODE. Nature, 2020, 583, 693-698.	13.7	123
13	Expanded encyclopaedias of DNA elements in the human and mouse genomes. Nature, 2020, 583, 699-710.	13.7	1,252
14	Local rewiring of genomeâ€"nuclear lamina interactions by transcription. EMBO Journal, 2020, 39, e103159.	3.5	59
15	High-resolution Repli-Seq defines the temporal choreography of initiation, elongation and termination of replication in mammalian cells. Genome Biology, 2020, 21, 76.	3.8	84
16	4D Genome Rewiring during Oncogene-Induced and Replicative Senescence. Molecular Cell, 2020, 78, 522-538.e9.	4.5	107
17	Replication timing networks reveal a link between transcription regulatory circuits and replication timing control. Genome Research, 2019, 29, 1415-1428.	2.4	12
18	Control of DNA replication timing in the 3D genome. Nature Reviews Molecular Cell Biology, 2019, 20, 721-737.	16.1	198

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19	RT States: systematic annotation of the human genome using cell type-specific replication timing programs. Bioinformatics, 2019, 35, 2167-2176.	1.8	9
20	Rapid Irreversible Transcriptional Reprogramming in Human Stem Cells Accompanied by Discordance between Replication Timing and Chromatin Compartment. Stem Cell Reports, 2019, 13, 193-206.	2.3	24
21	Replication timing alterations in leukemia affect clinically relevant chromosome domains. Blood Advances, 2019, 3, 3201-3213.	2.5	15
22	Identifying cis Elements for Spatiotemporal Control of Mammalian DNA Replication. Cell, 2019, 176, 816-830.e18.	13.5	144
23	Single-cell replication profiling to measure stochastic variation in mammalian replication timing. Nature Communications, 2018, 9, 427.	5.8	78
24	Replicating Chromatin in the Eukaryotic Genome. , 2018, , 407-434.		0
25	Bacterial artificial chromosomes establish replication timing and sub-nuclear compartment de novo as extra-chromosomal vectors. Nucleic Acids Research, 2018, 46, 1810-1820.	6.5	8
26	Genome-wide analysis of replication timing by next-generation sequencing with E/L Repli-seq. Nature Protocols, 2018, 13, 819-839.	5.5	126
27	Integrative detection and analysis of structural variation in cancer genomes. Nature Genetics, 2018, 50, 1388-1398.	9.4	268
28	Continuous-Trait Probabilistic Model for Comparing Multi-species Functional Genomic Data. Cell Systems, 2018, 7, 208-218.e11.	2.9	20
29	Cellular senescence induces replication stress with almost no affect on DNA replication timing. Cell Cycle, 2018, 17, 1667-1681.	1.3	18
30	Allele-specific control of replication timing and genome organization during development. Genome Research, 2018, 28, 800-811.	2.4	63
31	Stability of patient-specific features of altered DNA replication timing in xenografts of primary human acute lymphoblastic leukemia. Experimental Hematology, 2017, 51, 71-82.e3.	0.2	28
32	DNA replication timing alterations identify common markers between distinct progeroid diseases. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10972-E10980.	3.3	36
33	Replication Domains: Genome Compartmentalization into Functional Replication Units. Advances in Experimental Medicine and Biology, 2017, 1042, 229-257.	0.8	18
34	Replication timing and transcriptional control: beyond cause and effect â€" part III. Current Opinion in Cell Biology, 2016, 40, 168-178.	2.6	124
35	Spatio-temporal re-organization of replication foci accompanies replication domain consolidation during human pluripotent stem cell lineage specification. Cell Cycle, 2016, 15, 2464-2475.	1.3	25
36	Replicating Large Genomes: Divide and Conquer. Molecular Cell, 2016, 62, 756-765.	4.5	83

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37	Nuclear Architecture Organized by Rif1 Underpins the Replication-Timing Program. Molecular Cell, 2016, 61, 260-273.	4.5	155
38	Influence ofATM-Mediated DNA Damage Response on Genomic Variation in Human Induced Pluripotent Stem Cells. Stem Cells and Development, 2016, 25, 740-747.	1.1	9
39	Computing interaction probabilities in signaling networks. Eurasip Journal on Bioinformatics and Systems Biology, 2015, 2015, 10.	1.4	5
40	Three Dimensional Organization of the Nucleus: adding DNA sequences to the big picture. Genome Biology, 2015, 16, 181.	3.8	5
41	Many paths lead chromatin to the nuclear periphery. BioEssays, 2015, 37, 862-866.	1.2	13
42	Dynamic changes in replication timing and gene expression during lineage specification of human pluripotent stem cells. Genome Research, 2015, 25, 1091-1103.	2.4	145
43	Topologically associating domains and their long-range contacts are established during early G1 coincident with the establishment of the replication-timing program. Genome Research, 2015, 25, 1104-1113.	2.4	157
44	Joint annotation of chromatin state and chromatin conformation reveals relationships among domain types and identifies domains of cell-type-specific expression. Genome Research, 2015, 25, 544-557.	2.4	74
45	Large-Scale Chromatin Structureâ€"Function Relationships during the Cell Cycle and Development: Insights from Replication Timing. Cold Spring Harbor Symposia on Quantitative Biology, 2015, 80, 53-63.	2.0	59
46	Defining functional DNA elements in the human genome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6131-6138.	3.3	635
47	Copy Number Variation Is a Fundamental Aspect of the Placental Genome. PLoS Genetics, 2014, 10, e1004290.	1.5	56
48	Up and down in Down's syndrome. Nature, 2014, 508, 323-324.	13.7	15
49	Complex correlations: replication timing and mutational landscapes during cancer and genome evolution. Current Opinion in Genetics and Development, 2014, 25, 93-100.	1.5	66
50	A comparative encyclopedia of DNA elements in the mouse genome. Nature, 2014, 515, 355-364.	13.7	1,444
51	Topologically associating domains are stable units of replication-timing regulation. Nature, 2014, 515, 402-405.	13.7	779
52	The Distribution of Genomic Variations in Human iPSCs Is Related to Replication-Timing Reorganization during Reprogramming. Cell Reports, 2014, 7, 70-78.	2.9	24
53	Murine esBAF chromatin remodeling complex subunits BAF250a and Brg1 are necessary to maintain and reprogram pluripotency-specific replication timing of select replication domains. Epigenetics and Chromatin, 2013, 6, 42.	1.8	27
54	SnapShot: Replication Timing. Cell, 2013, 152, 1390-1390.e1.	13.5	16

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55	The Replication Domain Model: Regulating Replicon Firing in the Context of Large-Scale Chromosome Architecture. Journal of Molecular Biology, 2013, 425, 4690-4695.	2.0	32
56	DNA Replication Timing. Cold Spring Harbor Perspectives in Biology, 2013, 5, a010132-a010132.	2.3	278
57	Productive Hepatitis C Virus Infection of Stem Cell-Derived Hepatocytes Reveals a Critical Transition to Viral Permissiveness during Differentiation. PLoS Pathogens, 2012, 8, e1002617.	2.1	159
58	Replication-timing boundaries facilitate cell-type and species-specific regulation of a rearranged human chromosome in mouse. Human Molecular Genetics, 2012, 21, 4162-4170.	1.4	35
59	Developmental control of replication timing defines a new breed of chromosomal domains with a novel mechanism of chromatin unfolding. Nucleus, 2012, 3, 500-507.	0.6	19
60	An encyclopedia of mouse DNA elements (Mouse ENCODE). Genome Biology, 2012, 13, 418.	13.9	410
61	Genome-wide analysis of replication timing in mammalian cells: Troubleshooting problems encountered when comparing different cell types. Methods, 2012, 57, 165-169.	1.9	8
62	Independence of Repressive Histone Marks and Chromatin Compaction during Senescent Heterochromatic Layer Formation. Molecular Cell, 2012, 47, 203-214.	4.5	258
63	Chromatin-interaction compartment switch at developmentally regulated chromosomal domains reveals an unusual principle of chromatin folding. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12574-12579.	3.3	59
64	Abnormal developmental control of replication-timing domains in pediatric acute lymphoblastic leukemia. Genome Research, 2012, 22, 1833-1844.	2.4	89
65	Replication origins run (ultra) deep. Nature Structural and Molecular Biology, 2012, 19, 740-742.	3.6	20
66	Mouse Rif1 is a key regulator of the replication-timing programme in mammalian cells. EMBO Journal, 2012, 31, 3678-3690.	3.5	221
67	Genome-scale analysis of replication timing: from bench to bioinformatics. Nature Protocols, 2011, 6, 870-895.	5.5	110
68	Evidence for a mammalian late-G1 phase inhibitor of replication licensing distinct from geminin or Cdk activity. Nucleus, 2011, 2, 455-464.	0.6	8
69	Pre-replication complex proteins assemble at regions of low nucleosome occupancy within the Chinese hamster dihydrofolate reductase initiation zone. Nucleic Acids Research, 2011, 39, 3141-3155.	6.5	61
70	Highly stable loading of Mcm proteins onto chromatin in living cells requires replication to unload. Journal of Cell Biology, 2011, 192, 29-41.	2.3	78
71	Replication Timing: A Fingerprint for Cell Identity and Pluripotency. PLoS Computational Biology, 2011, 7, e1002225.	1.5	78
72	DNA Replication Timing Is Maintained Genome-Wide in Primary Human Myoblasts Independent of D4Z4 Contraction in FSH Muscular Dystrophy. PLoS ONE, 2011, 6, e27413.	1.1	21

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73	Space and Time in the Nucleus: Developmental Control of Replication Timing and Chromosome Architecture. Cold Spring Harbor Symposia on Quantitative Biology, 2010, 75, 143-153.	2.0	91
74	Genome-wide dynamics of replication timing revealed by in vitro models of mouse embryogenesis. Genome Research, 2010, 20, 155-169.	2.4	287
75	Domain-wide regulation of DNA replication timing during mammalian development. Chromosome Research, 2010, 18, 127-136.	1.0	66
76	Evaluating genome-scale approaches to eukaryotic DNA replication. Nature Reviews Genetics, 2010, 11, 673-684.	7.7	150
77	G2 phase chromatin lacks determinants of replication timing. Journal of Cell Biology, 2010, 189, 967-980.	2.3	40
78	Cell fate transitions and the replication timing decision point. Journal of Cell Biology, 2010, 191, 899-903.	2.3	33
79	Evolutionarily conserved replication timing profiles predict long-range chromatin interactions and distinguish closely related cell types. Genome Research, 2010, 20, 761-770.	2.4	526
80	Autosomal Lyonization of Replication Domains During Early Mammalian Development. Advances in Experimental Medicine and Biology, 2010, 695, 41-58.	0.8	11
81	G9a selectively represses a class of late-replicating genes at the nuclear periphery. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19363-19368.	3.3	134
82	Replication timing as an epigenetic mark. Epigenetics, 2009, 4, 93-97.	1.3	91
83	Replication timing and transcriptional control: beyond cause and effectâ€"part II. Current Opinion in Genetics and Development, 2009, 19, 142-149.	1.5	133
84	ReplicationDomain: a visualization tool and comparative database for genome-wide replication timing data. BMC Bioinformatics, 2008, 9, 530.	1.2	80
85	Global Reorganization of Replication Domains During Embryonic Stem Cell Differentiation. PLoS Biology, 2008, 6, e245.	2.6	496
86	Proliferation-dependent and cell cycleâ€"regulated transcription of mouse pericentric heterochromatin. Journal of Cell Biology, 2007, 179, 411-421.	2.3	142
87	The many faces of the origin recognition complex. Current Opinion in Cell Biology, 2007, 19, 337-343.	2.6	93
88	Replication origin plasticity, Taylor-made: inhibition vs recruitment of origins under conditions of replication stress. Chromosoma, 2007, 116, 341-347.	1.0	62
89	Observing S-Phase Dynamics of Histone Modifications With Fluorescently Labeled Antibodies. , 2006, 325, 139-148.		5
90	Uncoupling global and fine-tuning replication timing determinants for mouse pericentric heterochromatin. Journal of Cell Biology, 2006, 174, 185-194.	2.3	62

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91	The Chinese Hamster Dihydrofolate Reductase Replication Origin Decision Point Follows Activation of Transcription and Suppresses Initiation of Replication within Transcription Units. Molecular and Cellular Biology, 2006, 26, 1051-1062.	1.1	43
92	New York City and the Transatlantic Imagination. Journal of Urban History, 2006, 33, 77-107.	0.3	28
93	Spatio-temporal organization of DNA replication in murine embryonic stem, primary, and immortalized cells. Journal of Cellular Biochemistry, 2005, 95, 74-82.	1.2	40
94	Overexpression of ORC subunits and increased ORC-chromatin association in transformed mammalian cells. Journal of Cellular Biochemistry, 2005, 96, 879-887.	1.2	21
95	Differential Subnuclear Localization and Replication Timing of Histone H3 Lysine 9 Methylation States. Molecular Biology of the Cell, 2005, 16, 2872-2881.	0.9	117
96	Chinese hamster ORC subunits dynamically associate with chromatin throughout the cell-cycle. Experimental Cell Research, 2005, 308, 345-356.	1.2	38
97	Origins Go Plastic. Molecular Cell, 2005, 20, 657-658.	4.5	12
98	Structure of a palindromic amplicon junction implicates microhomology-mediated end joining as a mechanism of sister chromatid fusion during gene amplification. Nucleic Acids Research, 2004, 32, 749-756.	6.5	35
99	Heterochromatin and tri-methylated lysine 20 of histone H4 in animals. Journal of Cell Science, 2004, 117, 2491-2501.	1.2	230
100	Differentiation-induced replication-timing changes are restricted to AT-rich/long interspersed nuclear element (LINE)-rich isochores. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16861-16866.	3.3	110
101	Actin up in the nucleus. Nature Reviews Molecular Cell Biology, 2004, 5, 410-415.	16.1	222
102	In search of the holy replicator. Nature Reviews Molecular Cell Biology, 2004, 5, 848-855.	16.1	125
103	RB Reversibly Inhibits DNA Replication via Two Temporally Distinct Mechanisms. Molecular and Cellular Biology, 2004, 24, 5404-5420.	1.1	40
104	The future of human embryonic stem cell research: addressing ethical conflict with responsible scientific research. Medical Science Monitor, 2004, 10, RA99-103.	0.5	7
105	Epigenomic replication: Linking epigenetics to DNA replication. BioEssays, 2003, 25, 647-656.	1.2	153
106	Maintenance of Stable Heterochromatin Domains by Dynamic HP1 Binding. Science, 2003, 299, 721-725.	6.0	559
107	Spatial distribution and specification of mammalian replication origins during G1 phase. Journal of Cell Biology, 2003, 161, 257-266.	2.3	49
108	Sensitivity of the Origin Decision Point to Specific Inhibitors of Cellular Signaling and Metabolism. Experimental Cell Research, 2002, 273, 54-64.	1.2	22

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109	Replication timing and transcriptional control: beyond cause and effect. Current Opinion in Cell Biology, 2002, 14, 377-383.	2.6	262
110	Evidence for a pre-restriction point Cdk3 activity. Journal of Cellular Biochemistry, 2002, 85, 545-552.	1.2	12
111	Heterochromatin, HP1 and methylation at lysine 9 of histone H3 in animals. Chromosoma, 2002, 111, 22-36.	1.0	244
112	Replication timing and metazoan evolution. Nature Genetics, 2002, 32, 336-337.	9.4	16
113	Mammalian nuclei become licensed for DNA replication during late telophase. Journal of Cell Science, 2002, 115, 51-9.	1.2	70
114	Activation of mammalian Chk1 during DNA replication arrest. Journal of Cell Biology, 2001, 154, 913-924.	2.3	322
115	Initiation of DNA replication inSaccharomyces cerevisiae G1-phase nuclei byXenopus egg extract. Journal of Cellular Biochemistry, 2001, 80, 73-84.	1.2	2
116	Nuclear Position Leaves Its Mark on Replication Timing. Journal of Cell Biology, 2001, 152, F11-F16.	2.3	50
117	The replication timing program of the Chinese hamster Î²-globin locus is established coincident with its repositioning near peripheral heterochromatin in early G1 phase. Journal of Cell Biology, 2001, 154, 283-292.	2.3	65
118	Homogeneous tetracycline-regulatable gene expression in mammalian fibroblasts. Journal of Cellular Biochemistry, 2000, 76, 280-289.	1.2	40
119	Temporally coordinated assembly and disassembly of replication factories in the absence of DNA synthesis. Nature Cell Biology, 2000, 2, 686-694.	4.6	155
120	Head and/or CaaX Domain Deletions of Lamin Proteins Disrupt Preformed Lamin A and C But Not Lamin B Structure in Mammalian Cells. Molecular Biology of the Cell, 2000, 11, 4323-4337.	0.9	82
121	Stability and Nuclear Distribution of Mammalian Replication Protein A Heterotrimeric Complex. Experimental Cell Research, 2000, 254, 321-327.	1.2	58
122	Lovastatin arrests CHO cells between the origin decision point and the restriction point. FEBS Letters, 2000, 484, 108-112.	1.3	20
123	Mcm2, but Not Rpa, Is a Component of the Mammalian Early G1-Phase Prereplication Complex. Journal of Cell Biology, 1999, 146, 709-722.	2.3	160
124	DNA Replication and Nuclear Organization: Prospects for a Soluble In Vitro System. Critical Reviews in Eukaryotic Gene Expression, 1999, 9, 353-361.	0.4	15
125	The Spatial Position and Replication Timing of Chromosomal Domains Are Both Established in Early G1 Phase. Molecular Cell, 1999, 4, 983-993.	4.5	299
126	Â«London in all its gloryâ€"or how to enjoy LondonÂ»: guidebook representations of imperial London. Journal of Historical Geography, 1999, 25, 279-297.	0.3	54

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127	Replication origins in yeast versus metazoa: separation of the haves and the have nots. Current Opinion in Genetics and Development, 1998, 8, 194-199.	1.5	64
128	Origin-Specific Initiation of Mammalian Nuclear DNA Replication in aXenopusCell-Free System. Methods, 1997, 13, 313-324.	1.9	41
129	Mimosine Arrests DNA Synthesis at Replication Forks by Inhibiting Deoxyribonucleotide Metabolism. Journal of Biological Chemistry, 1995, 270, 9597-9606.	1.6	104
130	Rapid DNA preparation for 2D gel analysis of replication intermediates. Nucleic Acids Research, 1995, 23, 3997-3998.	6.5	35
131	Bovine papilloma virus plasmids replicate randomly in mouse fibroblasts throughout S phase of the cell cycle. Cell, 1987, 50, 59-68.	13.5	137
132	Identification of <i>cis</i> Elements for Spatio-temporal Control of DNA Replication. SSRN Electronic Journal, 0, , .	0.4	1