J Julian Blow

List of Publications by Citations

147 papers	12,976 citations	62 h-index	112 g-index
162 ext. papers	14,155 ext. citations	12.8 avg, IF	6.34 L-index

#	Paper	IF	Citations
147	Biochemical and cellular effects of roscovitine, a potent and selective inhibitor of the cyclin-dependent kinases cdc2, cdk2 and cdk5. *FEBS Journal*, **1997**, 243, 527-36		1068
146	Initiation of DNA replication in nuclei and purified DNA by a cell-free extract of Xenopus eggs. *Cell*, **1986**, 47, 577-87	56.2	551
145	A role for the nuclear envelope in controlling DNA replication within the cell cycle. *Nature*, **1988**, 332, 546-8	50.4	533
144	Preventing re-replication of chromosomal DNA. *Nature Reviews Molecular Cell Biology*, **2005**, 6, 476-86	48.7	521
143	Inhibition of cyclin-dependent kinases by purine analogues. *FEBS Journal*, **1994**, 224, 771-86		504
142	Translation of cyclin mRNA is necessary for extracts of activated xenopus eggs to enter mitosis. *Cell* , **1989**, 56, 947-56	56.2	429
141	Dormant origins licensed by excess Mcm2-7 are required for human cells to survive replicative stress. *Genes and Development*, **2007**, 21, 3331-41	12.6	396
140	Repression of origin assembly in metaphase depends on inhibition of RLF-B/Cdt1 by geminin. *Nature Cell Biology*, **2001**, 3, 107-13	23.4	396
139	Purification of an MCM-containing complex as a component of the DNA replication licensing system. *Nature*, **1995**, 375, 418-21	50.4	321
138	Excess Mcm2-7 license dormant origins of replication that can be used under conditions of replicative stress. *Journal of Cell Biology*, **2006**, 173, 673-83	7.3	271
137	Interaction between the origin recognition complex and the replication licensing system in Xenopus. *Cell*, **1996**, 87, 287-96	56.2	232
136	Steps in the assembly of replication-competent nuclei in a cell-free system from Xenopus eggs. *Journal of Cell Biology*, **1988**, 106, 1-12	7.3	232
135	Replication licensing--defining the proliferative state?. *Trends in Cell Biology*, **2002**, 12, 72-8	18.3	213
134	A cdc2-like protein is involved in the initiation of DNA replication in Xenopus egg extracts. *Cell*, **1990**, 62, 855-62	56.2	206
133	The Xenopus origin recognition complex is essential for DNA replication and MCM binding to chromatin. *Current Biology*, **1996**, 6, 1416-25	6.3	188
132	Replication licensing and cancer--a fatal entanglement?. *Nature Reviews Cancer*, **2008**, 8, 799-806	31.3	178
131	Preventing re-replication of DNA in a single cell cycle: evidence for a replication licensing factor. *Journal of Cell Biology*, **1993**, 122, 993-1002	7.3	172

130	How dormant origins promote complete genome replication. *Trends in Biochemical Sciences*, **2011**, 36, 405-14	10.3	167
129	Chronic p53-independent p21 expression causes genomic instability by deregulating replication licensing. *Nature Cell Biology*, **2016**, 18, 777-89	23.4	165
128	Live-cell imaging reveals replication of individual replicons in eukaryotic replication factories. *Cell*, **2006**, 125, 1297-308	56.2	164
127	Cell type-specific responses of human cells to inhibition of replication licensing. *Oncogene*, **2002**, 21, 6624-32	9.2	153
126	S phase of the cell cycle. *Science*, **1989**, 246, 609-14	33.3	152
125	Chk1 inhibits replication factory activation but allows dormant origin firing in existing factories. *Journal of Cell Biology*, **2010**, 191, 1285-97	7.3	148
124	Regulating the licensing of DNA replication origins in metazoa. *Current Opinion in Cell Biology*, **2006** , 18, 231-9	9	143
123	Cell cycle regulation of the replication licensing system: involvement of a Cdk-dependent inhibitor. *Journal of Cell Biology*, **1997**, 136, 125-35	7.3	142
122	Cip1 inhibits DNA replication but not PCNA-dependent nucleotide excision-repair. *Current Biology*, **1994**, 4, 1062-8	6.3	137
121	Replication origins in Xenopus egg extract Are 5-15 kilobases apart and are activated in clusters that fire at different times. *Journal of Cell Biology*, **2001**, 152, 15-25	7.3	132
120	DNA replication initiates at multiple sites on plasmid DNA in Xenopus egg extracts. *Nucleic Acids Research*, **1992**, 20, 1457-62	20.1	129
119	Cip1 blocks the initiation of DNA replication in Xenopus extracts by inhibition of cyclin-dependent kinases. *Current Biology*, **1994**, 4, 876-83	6.3	126
118	Reconstitution of licensed replication origins on Xenopus sperm nuclei using purified proteins. *BMC Biochemistry*, **2001**, 2, 15	4.8	123
117	The RLF-M component of the replication licensing system forms complexes containing all six MCM/P1 polypeptides. *EMBO Journal*, **1997**, 16, 3312-9	13	120
116	The role of MCM/P1 proteins in the licensing of DNA replication. *Trends in Biochemical Sciences*, **1996**, 21, 102-106	10.3	117
115	Cdt1 downregulation by proteolysis and geminin inhibition prevents DNA re-replication in Xenopus. *EMBO Journal*, **2005**, 24, 395-404	13	112
114	Deregulated replication licensing causes DNA fragmentation consistent with head-to-tail fork collision. *Molecular Cell*, **2006**, 24, 433-43	17.6	111
113	ELYS/MEL-28 chromatin association coordinates nuclear pore complex assembly and replication licensing. *Current Biology*, **2007**, 17, 1657-62	6.3	110

112	Xenopus Cdc7 function is dependent on licensing but not on XORC, XCdc6, or CDK activity and is required for XCdc45 loading. *Genes and Development*, **2000**, 14, 1528-1540	12.6	105
111	The role of Cdc6 in ensuring complete genome licensing and S phase checkpoint activation. *Journal of Cell Biology*, **2004**, 165, 181-90	7.3	104
110	Kinetochores coordinate pericentromeric cohesion and early DNA replication by Cdc7-Dbf4 kinase recruitment. *Molecular Cell*, **2013**, 50, 661-74	17.6	103
109	MCM2-7 form double hexamers at licensed origins in Xenopus egg extract. *Journal of Biological Chemistry*, **2011**, 286, 11855-64	5.4	98
108	Sequential MCM/P1 subcomplex assembly is required to form a heterohexamer with replication licensing activity. *Journal of Biological Chemistry*, **2000**, 275, 2491-8	5.4	94
107	Dormant origins, the licensing checkpoint, and the response to replicative stresses. *Cold Spring Harbor Perspectives in Biology*, **2012**, 4,	10.2	88
106	Geminin becomes activated as an inhibitor of Cdt1/RLF-B following nuclear import. *Current Biology*, **2002**, 12, 678-83	6.3	88
105	The regulation of replication origin activation. *Current Opinion in Genetics and Development*, **1999**, 9, 62-8	4.9	88
104	Ubiquitinated Fancd2 recruits Fan1 to stalled replication forks to prevent genome instability. *Science*, **2016**, 351, 846-9	33.3	87
103	Changes in association of the Xenopus origin recognition complex with chromatin on licensing of replication origins. *Journal of Cell Science*, **1999**, 112 (Pt 12), 2011-8	5.3	81
102	Unreplicated DNA remaining from unperturbed S phases passes through mitosis for resolution in daughter cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E5757-64	11.5	78
101	A model for DNA replication showing how dormant origins safeguard against replication fork failure. *EMBO Reports*, **2009**, 10, 406-12	6.5	77
100	Nuclei act as independent and integrated units of replication in a Xenopus cell-free DNA replication system.. *EMBO Journal*, **1987**, 6, 1997-2002	13	77
99	Characterization of a novel ATR-dependent, Chk1-independent, intra-S-phase checkpoint that suppresses initiation of replication in Xenopus. *Journal of Cell Science*, **2004**, 117, 6019-30	5.3	76
98	CDC-48/p97 coordinates CDT-1 degradation with GINS chromatin dissociation to ensure faithful DNA replication. *Molecular Cell*, **2011**, 44, 85-96	17.6	72
97	The contribution of dormant origins to genome stability: from cell biology to human genetics. *DNA Repair*, **2014**, 19, 182-9	4.3	71
96	Characterization of the Xenopus replication licensing system. *Methods in Enzymology*, **1997**, 283, 549-64	1.7	70
95	Rapid induction of pluripotency genes after exposure of human somatic cells to mouse ES cell extracts. *Experimental Cell Research*, **2008**, 314, 2634-42	4.2	68

94	The Cdc7/Dbf4 protein kinase: target of the S phase checkpoint?. *EMBO Reports*, **2000**, 1, 319-22	6.5	68
93	Combinatorial regulation of meiotic holliday junction resolution in C. elegans by HIM-6 (BLM) helicase, SLX-4, and the SLX-1, MUS-81 and XPF-1 nucleases. *PLoS Genetics*, **2013**, 9, e1003591	6	67
92	Control of chromosomal DNA replication in the early Xenopus embryo. *EMBO Journal*, **2001**, 20, 3293-7	13	67
91	Chromatin proteins involved in the initiation of DNA replication. *Current Opinion in Genetics and Development*, **1997**, 7, 152-7	4.9	66
90	Xenopus cdc7 function is dependent on licensing but not on XORC, XCdc6, or CDK activity and is required for XCdc45 loading. *Genes and Development*, **2000**, 14, 1528-40	12.6	66
89	Deregulated origin licensing leads to chromosomal breaks by rereplication of a gapped DNA template. *Genes and Development*, **2013**, 27, 2537-42	12.6	65
88	Non-proteolytic inactivation of geminin requires CDK-dependent ubiquitination. *Nature Cell Biology* , **2004**, 6, 260-7	23.4	65
87	Mammalian nuclei become licensed for DNA replication during late telophase. *Journal of Cell Science*, **2002**, 115, 51-9	5.3	65
86	DNA replication licensing in somatic and germ cells. *Journal of Cell Science*, **2004**, 117, 5875-86	5.3	63
85	Reversal of DDK-Mediated MCM Phosphorylation by Rif1-PP1 Regulates Replication Initiation and Replisome Stability Independently of ATR/Chk1. *Cell Reports*, **2017**, 18, 2508-2520	10.6	62
84	Quaternary structure of the human Cdt1-Geminin complex regulates DNA replication licensing. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 19807-12	11.5	58
83	PHD1 links cell-cycle progression to oxygen sensing through hydroxylation of the centrosomal protein Cep192. *Developmental Cell*, **2013**, 26, 381-92	10.2	57
82	The dynamics of replication licensing in live Caenorhabditis elegans embryos. *Journal of Cell Biology* , **2012**, 196, 233-46	7.3	57
81	Replication occurs at discrete foci spaced throughout nuclei replicating in vitro. *Journal of Cell Science*, **1989**, 94 (Pt 3), 471-7	5.3	57
80	The role of MCM/P1 proteins in the licensing of DNA replication. *Trends in Biochemical Sciences*, **1996**, 21, 102-6	10.3	53
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78	Replication factory activation can be decoupled from the replication timing program by modulating Cdk levels. *Journal of Cell Biology*, **2010**, 188, 209-21	7.3	50
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76	Histone H4K20 methylation mediated chromatin compaction threshold ensures genome integrity by limiting DNA replication licensing. *Nature Communications*, **2018**, 9, 3704	17.4	49
75	Re-replication induced by geminin depletion occurs from G2 and is enhanced by checkpoint activation. *Journal of Cell Science*, **2012**, 125, 2436-45	5.3	48
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73	Preparation and use of Xenopus egg extracts to study DNA replication and chromatin associated proteins. *Methods*, **2012**, 57, 203-13	4.6	44
72	Bod1, a novel kinetochore protein required for chromosome biorientation. *Journal of Cell Biology*, **2007**, 179, 187-97	7.3	44
71	Cell cycle control of replication initiation in eukaryotes. *Current Opinion in Cell Biology*, **1996**, 8, 815-21	9	44
70	The requirement of yeast replication origins for pre-replication complex proteins is modulated by transcription. *Nucleic Acids Research*, **2005**, 33, 2410-20	20.1	42
69	The chromosome cycle: coordinating replication and segregation. Second in the cycles review series. *EMBO Reports*, **2005**, 6, 1028-34	6.5	41
68	Dynamic SUMO modification regulates mitotic chromosome assembly and cell cycle progression in Caenorhabditis elegans. *Nature Communications*, **2014**, 5, 5485	17.4	38
67	Stochastic association of neighboring replicons creates replication factories in budding yeast. *Journal of Cell Biology*, **2013**, 202, 1001-12	7.3	38
66	Replisome stall events have shaped the distribution of replication origins in the genomes of yeasts. *Nucleic Acids Research*, **2013**, 41, 9705-18	20.1	37
65	The origin of CDK regulation. *Nature Cell Biology*, **2001**, 3, E182-4	23.4	37
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63	Clusters, factories and domains: The complex structure of S-phase comes into focus. *Cell Cycle*, **2010**, 9, 3218-26	4.7	34
62	Optimisation of the two-dimensional gel electrophoresis protocol using the Taguchi approach. *Proteome Science*, **2004**, 2, 6	2.6	34
61	Nuclei act as independent and integrated units of replication in a Xenopus cell-free DNA replication system. *EMBO Journal*, **1987**, 6, 1997-2002	13	34
60	PTIP/Swift is required for efficient PCNA ubiquitination in response to DNA damage. *DNA Repair*, **2008**, 7, 775-87	4.3	33
59	The RLF-B component of the replication licensing system is distinct from Cdc6 and functions after Cdc6 binds to chromatin. *Current Biology*, **1999**, 9, 211-4	6.3	33

58	Temporal profiling of the chromatin proteome reveals system-wide responses to replication inhibition. *Current Biology*, **2008**, 18, 838-43	6.3	32
57	Interaction of Xenopus Cdc2 x cyclin A1 with the origin recognition complex. *Journal of Biological Chemistry*, **2000**, 275, 4239-43	5.4	30
56	Replication of purified DNA in Xenopus egg extract is dependent on nuclear assembly. *Journal of Cell Science*, **1990**, 95 (Pt 3), 383-91	5.3	28
55	The replication capacity of intact mammalian nuclei in Xenopus egg extracts declines with quiescence, but the residual DNA synthesis is independent of Xenopus MCM proteins. *Journal of Cell Science*, **2000**, 113, 683-695	5.3	25
54	The Anthelmintic Drug Niclosamide and Its Analogues Activate the Parkinson's Disease Associated Protein Kinase PINK1. *ChemBioChem*, **2018**, 19, 425-429	3.8	25
53	Inevitability and containment of replication errors for eukaryotic genome lengths spanning megabase to gigabase. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E5765-74	11.5	24
52	Chromosome replication in cell-free systems from Xenopus eggs. *Philosophical Transactions of the Royal Society of London Series B, Biological Sciences*, **1987**, 317, 483-94		23
51	Both Chromosome Decondensation and Condensation Are Dependent on DNA Replication in C. elegans Embryos. *Cell Reports*, **2015**, 12, 405-17	10.6	22
50	A Xenopus Dbf4 homolog is required for Cdc7 chromatin binding and DNA replication. *BMC Molecular Biology*, **2004**, 5, 5	4.5	22
49	The use of field emission in-lens scanning electron microscopy to study the steps of assembly of the nuclear envelope in vitro. *Journal of Structural Biology*, **1992**, 108, 257-68	3.4	22
48	Buffered Qualitative Stability explains the robustness and evolvability of transcriptional networks. *ELife*, **2014**, 3, e02863	8.9	22
47	Lgr5 intestinal stem cells reside in an unlicensed G phase. *Journal of Cell Biology*, **2018**, 217, 1667-1685	7.3	21
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45	Mcm8 and Mcm9 form a dimeric complex in Xenopus laevis egg extract that is not essential for DNA replication initiation. *Cell Cycle*, **2013**, 12, 1225-32	4.7	21
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41	Dynamic interactions of high Cdt1 and geminin levels regulate S phase in early Xenopus embryos. *Development (Cambridge)*, **2012**, 139, 63-74	6.6	20

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39	Site-specific initiation of DNA replication in metazoan chromosomes and the role of nuclear organization. *Cold Spring Harbor Symposia on Quantitative Biology*, **1993**, 58, 475-85	3.9	17
38	Xenopus Mcm10 is a CDK-substrate required for replication fork stability. *Cell Cycle*, **2016**, 15, 2183-2195	4.7	16
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36	Use of peptides from p21 (Waf1/Cip1) to investigate PCNA function in Xenopus egg extracts. *Experimental Cell Research*, **2001**, 265, 242-51	4.2	13
35	Nuclear structure and the control of DNA replication in the Xenopus embryo. *Journal of Cell Science* , **1989**, 12, 183-95	5.3	13
34	The licensing checkpoint opens up. *Cell Cycle*, **2009**, 8, 2320-2	4.7	13
33	The role of the replication licensing system in cell proliferation and cancer. *Progress in Cell Cycle Research*, **2003**, 5, 287-93		13
32	DNA replication licensing factor. *Progress in Cell Cycle Research*, **1996**, 2, 83-90		13
31	Optimal placement of origins for DNA replication. *Physical Review Letters*, **2012**, 108, 058101	7.4	12
30	Eukaryotic chromosome replication requires both alpha and delta DNA polymerases. *Trends in Genetics*, **1989**, 5, 134-6	8.5	12
29	Xenopus cell-free extracts and their contribution to the study of DNA replication and other complex biological processes. *International Journal of Developmental Biology*, **2016**, 60, 201-207	1.9	12
28	The High-Affinity Interaction between ORC and DNA that Is Required for Replication Licensing Is Inhibited by 2-Arylquinolin-4-Amines. *Cell Chemical Biology*, **2017**, 24, 981-992.e4	8.2	11
27	Replication forks, chromatin loops and dormant replication origins. *Genome Biology*, **2008**, 9, 244	18.3	11
26	DNA replication: stable driving prevents fatal smashes. *Current Biology*, **2001**, 11, R979-82	6.3	11
25	Eukaryotic DNA replication reconstituted outside the cell. *BioEssays*, **1988**, 8, 149-52	4.1	11
24	Histone acetylation by HBO1 tightens replication licensing. *Molecular Cell*, **2010**, 37, 5-6	17.6	10
23	Direct non transcriptional role of NF-Y in DNA replication. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2016**, 1863, 673-85	4.9	10

22	Biphasic chromatin binding of histone chaperone FACT during eukaryotic chromatin DNA replication. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2011**, 1813, 1129-36	4.9	9
21	Negative Regulation of Geminin by CDK-Dependent Ubiquitination Controls Replication Licensing. *Cell Cycle*, **2004**, 3, 441-443	4.7	8
20	The KRAB Zinc Finger Protein Roma/Zfp157 Is a Critical Regulator of Cell-Cycle Progression and Genomic Stability. *Cell Reports*, **2016**, 15, 724-734	10.6	7
19	A role for dormant origins in tumor suppression. *Molecular Cell*, **2011**, 41, 495-6	17.6	7
18	The DNA replication licensing system. *Cancer Surveys*, **1997**, 29, 75-90		7
17	Defects in the origin licensing checkpoint stresses cells exiting G0. *Journal of Cell Biology*, **2019**, 218, 2080-2081	7.3	5
16	Cell Cycle Synchronization in Xenopus Egg Extracts. *Methods in Molecular Biology*, **2016**, 1342, 101-47	1.4	5
15	Evidence for a mammalian late-G1 phase inhibitor of replication licensing distinct from geminin or Cdk activity. *Nucleus*, **2011**, 2, 455-64	3.9	5
14	Plasma lipases and lipid transfer proteins increase phospholipid but not free cholesterol transfer from lipid emulsion to high density lipoproteins. *BMC Biochemistry*, **2001**, 2, 1	4.8	5
13	The regulation of chromosome replication. *Journal of Pathology*, **1992**, 167, 175-9	9.4	5
12	Negative regulation of geminin by CDK-dependent ubiquitination controls replication licensing. *Cell Cycle*, **2004**, 3, 443-5	4.7	5
11	Development of BromoTag: A "Bump-and-Hole"-PROTAC System to Induce Potent, Rapid, and Selective Degradation of Tagged Target Proteins. *Journal of Medicinal Chemistry*, **2021**, 64, 15477-15502	8.3	5
10	A new role for Ran in ensuring precise duplication of chromosomal DNA. *Cell*, **2003**, 113, 2-4	56.2	3
9	DNA replication and its control. *Current Opinion in Cell Biology*, **1989**, 1, 263-7	9	3
8	A protein complex present at origins of DNA replication in yeast cells. *BioEssays*, **1992**, 14, 561-3	4.1	2
7	The role of DDK and Treslin-MTBP in coordinating replication licensing and pre-initiation complex formation. *Open Biology*, **2021**, 11, 210121	7	2
6	Chapter 2 DNA replication and its control. *Principles of Medical Biology*, **1996**, 11-31		1
5	Editorial overview. *Current Opinion in Cell Biology*, **2000**, 12, 655-7	9	1

4	Cell cycle control of DNA replication by p34cdc2. *Seminars in Cell Biology*, **1991**, 2, 243-50		1
3	3 tera-basepairs as a fundamental limit for robust DNA replication. *Physical Biology*, **2020**, 17, 046002	3	0
2	A probe for nascent DNA in intact nuclei. *Trends in Genetics*, **1987**, 3, 233	8.5	
1	The Involvement of cdc2 in Cell Cycle Control of DNA Replication in Xenopus Egg Extracts **1992**, 49-58		