

Robert J Duronio

List of Publications by Year in descending order

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80
papers

4,941
citations

126907

33
h-index

102487

66
g-index

92
all docs

92
docs citations

92
times ranked

6359
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolism and regulation of canonical histone mRNAs: life without a poly(A) tail. <i>Nature Reviews Genetics</i> , 2008, 9, 843-854.	16.3	645
2	Endoreplication: polyploidy with purpose. <i>Genes and Development</i> , 2009, 23, 2461-2477.	5.9	479
3	Endoreplication and polyploidy: insights into development and disease. <i>Development (Cambridge)</i> , 2013, 140, 3-12.	2.5	289
4	Signaling Pathways that Control Cell Proliferation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a008904-a008904.	5.5	271
5	Histone mRNA expression: multiple levels of cell cycle regulation and important developmental consequences. <i>Current Opinion in Cell Biology</i> , 2002, 14, 692-699.	5.4	233
6	Interrogating the Function of Metazoan Histones using Engineered Gene Clusters. <i>Developmental Cell</i> , 2015, 32, 373-386.	7.0	139
7	WD40 protein FBW5 promotes ubiquitination of tumor suppressor TSC2 by DDB1-CUL4-ROC1 ligase. <i>Genes and Development</i> , 2008, 22, 866-871.	5.9	135
8	Fluctuations in Cyclin E levels are required for multiple rounds of endocycle S phase in <i>Drosophila</i> . <i>Current Biology</i> , 1998, 8, 235-238.	3.9	133
9	New insights into cell cycle control from the <i>Drosophila</i> endocycle. <i>Oncogene</i> , 2005, 24, 2765-2775.	5.9	131
10	Control of <i>Drosophila</i> endocycles by E2F and CRL4CDT2. <i>Nature</i> , 2011, 480, 123-127.	27.8	127
11	The Contribution of E2F-Regulated Transcription to <i>Drosophila</i> PCNA Gene Function. <i>Current Biology</i> , 2003, 13, 53-58.	3.9	118
12	Intrinsic Negative Cell Cycle Regulation Provided by PIP Box- and Cul4Cdt2-Mediated Destruction of E2f1 during S Phase. <i>Developmental Cell</i> , 2008, 15, 890-900.	7.0	111
13	Coordinating cell cycle-regulated histone gene expression through assembly and function of the Histone Locus Body. <i>RNA Biology</i> , 2017, 14, 726-738.	3.1	104
14	Mutations of the <i>Drosophila</i> <i>dDP</i> , <i>dE2F</i> , and <i>cyclin E</i> Genes Reveal Distinct Roles for the E2F-DP Transcription Factor and Cyclin E during the G ₁ -S Transition. <i>Molecular and Cellular Biology</i> , 1998, 18, 141-151.	2.3	101
15	Comparative analysis of the β^2 transducin family with identification of several new members including PWP1, a nonessential gene of <i>Saccharomyces cerevisiae</i> that is divergently transcribed from NMT1. <i>Proteins: Structure, Function and Bioinformatics</i> , 1992, 13, 41-56.	2.6	95
16	Developmental Control of Histone mRNA and dSLBP Synthesis during <i>Drosophila</i> Embryogenesis and the Role of dSLBP in Histone mRNA 5' End Processing In Vivo. <i>Molecular and Cellular Biology</i> , 2002, 22, 2267-2282.	2.3	89
17	<i>Drosophila</i> histone locus bodies form by hierarchical recruitment of components. <i>Journal of Cell Biology</i> , 2011, 193, 677-694.	5.2	81
18	A Genome-wide RNA Interference Screen Reveals that Variant Histones Are Necessary for Replication-Dependent Histone Pre-mRNA Processing. <i>Molecular Cell</i> , 2007, 28, 692-699.	9.7	79

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19	Concentrating pre-mRNA processing factors in the histone locus body facilitates efficient histone mRNA biogenesis. <i>Journal of Cell Biology</i> , 2016, 213, 557-570.	5.2	75
20	<i>Drosophila</i> E2f2 promotes the conversion from genomic DNA replication to gene amplification in ovarian follicle cells. <i>Development (Cambridge)</i> , 2001, 128, 5085-5098.	2.5	73
21	Developmental and Cell Cycle Regulation of the <i>Drosophila</i> Histone Locus Body. <i>Molecular Biology of the Cell</i> , 2007, 18, 2491-2502.	2.1	71
22	Direct interrogation of the role of H3K9 in metazoan heterochromatin function. <i>Genes and Development</i> , 2016, 30, 1866-1880.	5.9	67
23	<i>Drosophila</i> Roc1a Encodes a RING-H2 Protein with a Unique Function in Processing the Hh Signal Transducer Ci by the SCF E3 Ubiquitin Ligase. <i>Developmental Cell</i> , 2002, 2, 757-770.	7.0	65
24	A Sequence in the <i>Drosophila</i> H3-H4 Promoter Triggers Histone Locus Body Assembly and Biosynthesis of Replication-Coupled Histone mRNAs. <i>Developmental Cell</i> , 2013, 24, 623-634.	7.0	64
25	Transcriptional Repressor Functions of <i>Drosophila</i> E2F1 and E2F2 Cooperate To Inhibit Genomic DNA Synthesis in Ovarian Follicle Cells. <i>Molecular and Cellular Biology</i> , 2003, 23, 2123-2134.	2.3	59
26	Cell cycle: To differentiate or not to differentiate?. <i>Current Biology</i> , 2000, 10, R302-R304.	3.9	55
27	CDK-Regulated Phase Separation Seeded by Histone Genes Ensures Precise Growth and Function of Histone Locus Bodies. <i>Developmental Cell</i> , 2020, 54, 379-394.e6.	7.0	55
28	3' End Processing of <i>Drosophila melanogaster</i> Histone Pre-mRNAs: Requirement for Phosphorylated <i>Drosophila</i> Stem-Loop Binding Protein and Coevolution of the Histone Pre-mRNA Processing System. <i>Molecular and Cellular Biology</i> , 2002, 22, 6648-6660.	2.3	48
29	Histone locus regulation by the <i>Drosophila</i> dosage compensation adaptor protein CLAMP. <i>Genes and Development</i> , 2017, 31, 1494-1508.	5.9	47
30	Cdt1 and Cdc6 Are Destabilized by Rereplication-induced DNA Damage. <i>Journal of Biological Chemistry</i> , 2008, 283, 25356-25363.	3.4	43
31	Histone gene replacement reveals a post-transcriptional role for H3K36 in maintaining metazoan transcriptome fidelity. <i>ELife</i> , 2017, 6, .	6.0	42
32	Interaction between FLASH and Lsm11 is essential for histone pre-mRNA processing in vivo in <i>Drosophila</i> . <i>Rna</i> , 2011, 17, 1132-1147.	3.5	41
33	A Screen for Mutations That Suppress the Phenotype of <i>Drosophila armadillo</i> , the β -Catenin Homolog. <i>Genetics</i> , 2000, 155, 1725-1740.	2.9	41
34	U7 snRNA mutations in <i>Drosophila</i> block histone pre-mRNA processing and disrupt oogenesis. <i>Rna</i> , 2006, 12, 396-409.	3.5	40
35	Genetic and biochemical characterization of <i>Drosophila</i> Snipper: A promiscuous member of the metazoan 3'Exo/ERI-1 family of 3' to 5' exonucleases. <i>Rna</i> , 2006, 12, 2103-2117.	3.5	36
36	Transcription start site profiling uncovers divergent transcription and enhancer-associated RNAs in <i>Drosophila melanogaster</i> . <i>BMC Genomics</i> , 2018, 19, 157.	2.8	34

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37	Lysine 27 of replication-independent histone H3.3 is required for Polycomb target gene silencing but not for gene activation. <i>PLoS Genetics</i> , 2019, 15, e1007932.	3.5	34
38	Distinct self-interaction domains promote Multi Sex Combs accumulation in and formation of the <i>Drosophila</i> histone locus body. <i>Molecular Biology of the Cell</i> , 2015, 26, 1559-1574.	2.1	33
39	Chromatin conformation and transcriptional activity are permissive regulators of DNA replication initiation in <i>Drosophila</i> . <i>Genome Research</i> , 2018, 28, 1688-1700.	5.5	29
40	Scalloped and Yorkie are required for cell cycle re-entry of quiescent cells after tissue damage. <i>Development (Cambridge)</i> , 2015, 142, 2740-51.	2.5	28
41	<i>Drosophila</i> Stem-Loop Binding Protein Intracellular Localization Is Mediated by Phosphorylation and Is Required for Cell Cycle-regulated Histone mRNA Expression. <i>Molecular Biology of the Cell</i> , 2004, 15, 1112-1123.	2.1	27
42	The <i>Drosophila</i> U7 snRNP proteins Lsm10 and Lsm11 are required for histone pre-mRNA processing and play an essential role in development. <i>Rna</i> , 2009, 15, 1661-1672.	3.5	27
43	Targeted Disruption of <i>Drosophila</i> Roc1b Reveals Functional Differences in the Roc Subunit of Cullin-dependent E3 Ubiquitin Ligases. <i>Molecular Biology of the Cell</i> , 2004, 15, 4892-4903.	2.1	26
44	Methylation of histone H4 lysine 20 by PR-Set7 ensures the integrity of late replicating sequence domains in <i>Drosophila</i> . <i>Nucleic Acids Research</i> , 2016, 44, gkw333.	14.5	24
45	Rbf1-independent termination of E2f1-target gene expression during early <i>Drosophila</i> embryogenesis. <i>Development (Cambridge)</i> , 2007, 134, 467-478.	2.5	23
46	Cancer Cell Biology: Myc Wins the Competition. <i>Current Biology</i> , 2004, 14, R425-R427.	3.9	22
47	EnD-Seq and AppEnD: sequencing 3' ends to identify nontemplated tails and degradation intermediates. <i>Rna</i> , 2015, 21, 1375-1389.	3.5	22
48	Functional Redundancy of Variant and Canonical Histone H3 Lysine 9 Modification in <i>Drosophila</i> . <i>Genetics</i> , 2018, 208, 229-244.	2.9	21
49	Developing S-phase control. <i>Genes and Development</i> , 2012, 26, 746-750.	5.9	18
50	Expression of an S phase-stabilized version of the CDK inhibitor Dacapo can alter endoreplication. <i>Development (Cambridge)</i> , 2015, 142, 4288-98.	2.5	18
51	Identifying Determinants of Cullin Binding Specificity Among the Three Functionally Different <i>Drosophila melanogaster</i> Roc Proteins via Domain Swapping. <i>PLoS ONE</i> , 2008, 3, e2918.	2.5	18
52	Loss of the Histone Pre-mRNA Processing Factor Stem-Loop Binding Protein in <i>Drosophila</i> Causes Genomic Instability and Impaired Cellular Proliferation. <i>PLoS ONE</i> , 2009, 4, e8168.	2.5	18
53	Establishing links between developmental signaling pathways and cell-cycle regulation in <i>Drosophila</i> . <i>Current Opinion in Genetics and Development</i> , 1999, 9, 81-88.	3.3	16
54	<i>Drosophila</i> Symplekin localizes dynamically to the histone locus body and tricellular junctions. <i>Nucleus</i> , 2014, 5, 613-625.	2.2	16

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55	Normal regulation of Rbf1/E2f1 target genes in <i>Drosophila</i> type 1 protein phosphatase mutants. <i>Developmental Dynamics</i> , 2007, 236, 2567-2577.	1.8	15
56	S Phase-Coupled E2f1 Destruction Ensures Homeostasis in Proliferating Tissues. <i>PLoS Genetics</i> , 2012, 8, e1002831.	3.5	15
57	Superresolution light microscopy of the <i>Drosophila</i> histone locus body reveals a core-shell organization associated with expression of replication-dependent histone genes. <i>Molecular Biology of the Cell</i> , 2021, 32, 942-955.	2.1	15
58	Developmental Control of Growth and Cell Cycle Progression in <i>Drosophila</i> . , 2005, 296, 069-094.		14
59	Cell cycle: Flies teach an old dogma new tricks. <i>Current Biology</i> , 2001, 11, R178-R181.	3.9	13
60	A population of G2-arrested cells are selected as sensory organ precursors for the interommatidial bristles of the <i>Drosophila</i> eye. <i>Developmental Biology</i> , 2017, 430, 374-384.	2.0	13
61	stringcdc25 and cyclin E are required for patterned histone expression at different stages of <i>Drosophila</i> embryonic development. <i>Developmental Biology</i> , 2004, 274, 82-93.	2.0	12
62	Cell Type-dependent Requirement for PIP Box-regulated Cdt1 Destruction During S Phase. <i>Molecular Biology of the Cell</i> , 2010, 21, 3639-3653.	2.1	12
63	Sophisticated lessons from simple organisms: appreciating the value of curiosity-driven research. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 1381-1389.	2.4	12
64	Rif1 Functions in a Tissue-Specific Manner To Control Replication Timing Through Its PP1-Binding Motif. <i>Genetics</i> , 2020, 215, 75-87.	2.9	12
65	H3K9 Promotes Under-Replication of Pericentromeric Heterochromatin in <i>Drosophila</i> Salivary Gland Polytene Chromosomes. <i>Genes</i> , 2019, 10, 93.	2.4	11
66	<i>Drosophila</i> histone locus body assembly and function involves multiple interactions. <i>Molecular Biology of the Cell</i> , 2020, 31, 1525-1537.	2.1	11
67	Atypical E2Fs drive atypical cell cycles. <i>Nature Cell Biology</i> , 2012, 14, 1124-1125.	10.3	9
68	An Animal Model for Genetic Analysis of Multi-Gene Families: Cloning and Transgenesis of Large Tandemly Repeated Histone Gene Clusters. <i>Methods in Molecular Biology</i> , 2018, 1832, 309-325.	0.9	8
69	Phasing in heterochromatin during development. <i>Genes and Development</i> , 2019, 33, 379-381.	5.9	7
70	Characterization of null and hypomorphic alleles of the <i>Drosophila</i> <i>(2)dtl/cdt2</i> gene. <i>Fly</i> , 2012, 6, 173-183.	1.7	5
71	Fate mapping during regeneration: Cells that undergo compensatory proliferation in damaged <i>Drosophila</i> eye imaginal discs differentiate into multiple retinal accessory cell types. <i>Developmental Biology</i> , 2018, 444, 43-49.	2.0	4
72	Using <i>Drosophila</i> S2 Cells to Measure S phase-Coupled Protein Destruction via Flow Cytometry. <i>Methods in Molecular Biology</i> , 2011, 782, 205-219.	0.9	3

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73	Genome Stress Response in Early Development. <i>Developmental Cell</i> , 2014, 29, 375-376.	7.0	2
74	Distinct developmental phenotypes result from mutation of Set8/KMT5A and histone H4 lysine 20 in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2022, , .	2.9	2
75	A Breath of Fresh Air for Cyclin D/Cdk4. <i>Developmental Cell</i> , 2004, 6, 163-164.	7.0	1
76	Developmental regulation of replication-coupled protein destruction. <i>Cell Cycle</i> , 2011, 10, 859-860.	2.6	1
77	Deciding when to exit. <i>ELife</i> , 2021, 10, .	6.0	1
78	The many fates of tissue regeneration. <i>PLoS Genetics</i> , 2018, 14, e1007728.	3.5	0
79	The awesome power of histone genetics. <i>Molecular Cell</i> , 2021, 81, 1593-1595.	9.7	0
80	Scalloped and Yorkie are required for cell cycle re-entry of quiescent cells after tissue damage. <i>Journal of Cell Science</i> , 2015, 128, e1.1-e1.1.	2.0	0