Patrick O'Farrell

List of Publications by Year
in descending order

102	18,467	28190 55	30848 102
papers	citations	h-index	g-index

114	114	114	10703
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Temporal control of late replication and coordination of origin firing by self-stabilizing Rif1-PP1 hubs in <i>Drosophila</i>. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	6
2	Interphase-arrestedÂDrosophilaÂembryos activate zygotic gene expression and initiate mid-blastula transition events at a low nuclear-cytoplasmic ratio. PLoS Biology, 2020, 18, e3000891.	2.6	20
3	Rapid embryonic cell cycles defer the establishment of heterochromatin by Eggless/SetDB1 in <i>Drosophila</i>. Genes and Development, 2019, 33, 403-417.	2.7	64
4	A Genome-wide Screen Reveals that Reducing Mitochondrial DNA Polymerase Can Promote Elimination of Deleterious Mitochondrial Mutations. Current Biology, 2019, 29, 4330-4336.e3.	1.8	22
5	Rif1 prolongs the embryonic S phase at the Drosophila mid-blastula transition. PLoS Biology, 2018, 16, e2005687.	2.6	62
6	The Mitochondrial DNA Polymerase Promotes Elimination of Paternal Mitochondrial Genomes. Current Biology, 2017, 27, 1033-1039.	1.8	39
7	Sophisticated lessons from simple organisms: appreciating the value of curiosity-driven research. DMM Disease Models and Mechanisms, 2017, 10, 1381-1389.	1.2	12
8	Selfish drive can trump function when animal mitochondrial genomes compete. Nature Genetics, 2016, 48, 798-802.	9.4	59
9	Timing the Drosophila Mid-Blastula Transition: A Cell Cycle-Centered View. Trends in Genetics, 2016, 32, 496-507.	2.9	74
10	TALE-light imaging reveals maternally guided, H3K9me2/3-independent emergence of functional heterochromatin in <i>Drosophila</i> embryos. Genes and Development, 2016, 30, 579-593.	2.7	70
11	Cyclin B3 Is a Mitotic Cyclin that Promotes the Metaphase-Anaphase Transition. Current Biology, 2015, 25, 811-816.	1.8	43
12	Growing an Embryo from a Single Cell: A Hurdle in Animal Life: Figure 1.. Cold Spring Harbor Perspectives in Biology, 2015, 7, a019042.	2.3	45
13	Selections that isolate recombinant mitochondrial genomes in animals. ELife, 2015, 4, .	2.8	45
14	Transmission of mitochondrial mutations and action of purifying selection in Drosophila melanogaster. Nature Genetics, 2014, 46, 393-397.	9.4	97
15	Illuminating DNA replication during Drosophila development using TALE-lights. Current Biology, 2014, 24, R144-R145.	1.8	35
16	Two-Dimensional Gel Electrophoresis and the Beginning of Proteomics. Clinical Chemistry, 2014, 60, 1012-1013.	1.5	2
17	From Egg to Gastrula: How the Cell Cycle Is Remodeled During the<i>Drosophila</i>Mid-Blastula Transition. Annual Review of Genetics, 2014, 48, 269-294.	3.2	165
18	Mechanism and Regulation of Cdc25/Twine Protein Destruction in Embryonic Cell-Cycle Remodeling. Current Biology, 2013, 23, 118-126.	1.8	66

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19	Embryonic onset of late replication requires Cdc25 down-regulation. Genes and Development, 2012, 26, 714-725.	2.7	61
20	Different cyclin types collaborate to reverse the S-phase checkpoint and permit prompt mitosis. Journal of Cell Biology, 2012, 198, 973-980.	2.3	12
21	Barriers to Male Transmission of Mitochondrial DNA in Sperm Development. Developmental Cell, 2012, 22, 660-668.	3.1	155
22	Quiescence: early evolutionary origins and universality do not imply uniformity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3498-3507.	1.8	65
23	Nitric oxide synthase is not essential for Drosophila development. Current Biology, 2010, 20, R141-R142.	1.8	30
24	Developmental Control of Late Replication and S Phase Length. Current Biology, 2010, 20, 2067-2077.	1.8	104
25	Influence of cyclin type and dose on mitotic entry and progression in the early <i>Drosophila</i> embryo. Journal of Cell Biology, 2009, 184, 639-646.	2.3	42
26	DNA replication times the cell cycle and contributes to the mid-blastula transition in <i>Drosophila</i> embryos. Journal of Cell Biology, 2009, 187, 7-14.	2.3	43
27	Phagocytosis of Candida albicans by RNAi-Treated Drosophila S2 Cells. Methods in Molecular Biology, 2009, 470, 347-358.	0.4	15
28	Dissection of a Hypoxia-induced, Nitric Oxideâ€“mediated Signaling Cascade. Molecular Biology of the Cell, 2009, 20, 4083-4090.	0.9	22
29	The preâ€omics era: The early days of twoâ€dimensional gels. Proteomics, 2008, 8, 4842-4852.	1.3	24
30	RNAi of Mitotic Cyclins in Drosophila Uncouples the Nuclear and Centrosome Cycle. Current Biology, 2008, 18, 245-254.	1.8	59
31	Rho-dependent control of anillin behavior during cytokinesis. Journal of Cell Biology, 2008, 180, 285-294.	2.3	126
32	Manipulating the Metazoan Mitochondrial Genome with Targeted Restriction Enzymes. Science, 2008, 321, 575-577.	6.0	103
33	An RNA Interference Screen Identifies a Novel Regulator of Target of Rapamycin That Mediates Hypoxia Suppression of Translation in<i>Drosophila</i>S2 Cells. Molecular Biology of the Cell, 2008, 19, 4051-4061.	0.9	35
34	Anillin: a pivotal organizer of the cytokinetic machinery. Biochemical Society Transactions, 2008, 36, 439-441.	1.6	67
35	Drosophila Calcineurin Promotes Induction of Innate Immune Responses. Current Biology, 2007, 17, 2087-2093.	1.8	63
36	The endocytic pathway mediates cell entry of dsRNA to induce RNAi silencing. Nature Cell Biology, 2006, 8, 793-802.	4.6	470

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37	Rho-kinase Controls Cell Shape Changes during Cytokinesis. Current Biology, 2006, 16, 359-370.	1.8	117
38	Identification of Drosophila Gene Products Required for Phagocytosis of Candida albicans. PLoS Biology, 2005, 4, e4.	2.6	246
39	Embryonic Cleavage Cycles: How Is a Mouse Like a Fly?. Current Biology, 2004, 14, R35-R45.	1.8	171
40	Terminal Cytokinesis Events Uncovered after an RNAi Screen. Current Biology, 2004, 14, 1685-1693.	1.8	252
41	Functional Dissection of an Innate Immune Response by a Genome-Wide RNAi Screen. PLoS Biology, 2004, 2, e203.	2.6	218
42	Nitric oxide-induced suspended animation promotes survival during hypoxia. EMBO Journal, 2003, 22, 580-587.	3.5	57
43	The Degradation of Two Mitotic Cyclins Contributes to the Timing of Cytokinesis. Current Biology, 2003, 13, 373-383.	1.8	55
44	Cyclin B Destruction Triggers Changes in Kinetochore Behavior Essential for Successful Anaphase. Current Biology, 2003, 13, 647-653.	1.8	81
45	Involvement of an SCFSlmb complex in timely elimination of E2F upon initiation of DNA replication in Drosophila. BMC Genetics, 2003, 4, 9.	2.7	32
46	Nitric oxide contributes to induction of innate immune responses to gram-negative bacteria in Drosophila. Genes and Development, 2003, 17, 115-125.	2.7	235
47	Anomalous centriole configurations are detected in Drosophilawing disc cells upon Cdk1 inactivation. Journal of Cell Science, 2003, 116, 137-143.	1.2	46
48	Sister Chromatids Fail to Separate during an Induced Endoreplication Cycle in Drosophila Embryos. Current Biology, 2002, 12, 829-833.	1.8	22
49	The schedule of destruction of three mitotic cyclins can dictate the timing of events during exit from mitosis. Current Biology, 2001, 11, 671-683.	1.8	145
50	Triggering the all-or-nothing switch into mitosis. Trends in Cell Biology, 2001, 11, 512-519.	3.6	166
51	Hypoxia and Nitric Oxide Induce a Rapid, Reversible Cell Cycle Arrest of the Drosophila Syncytial Divisions. Journal of Biological Chemistry, 2001, 276, 1930-1937.	1.6	63
52	Conserved responses to oxygen deprivation. Journal of Clinical Investigation, 2001, 107, 671-674.	3.9	25
53	Cell cycle roles for two 14-3-3 proteins during<i>Drosophila</i>development. Journal of Cell Science, 2001, 114, 3445-3454.	1.2	56
54	Comparative Genomics of the Eukaryotes. Science, 2000, 287, 2204-2215.	6.0	1,573

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55	<i>Drosophila wee1</i> Has an Essential Role in the Nuclear Divisions of Early Embryogenesis. Genetics, 2000, 155, 159-166.	1.2	61
56	Mitotic Regulators Govern Progress through Steps in the Centrosome Duplication Cycle. Journal of Cell Biology, 1999, 147, 1371-1378.	2.3	50
57	Rux is a cyclin-dependent kinase inhibitor (CKI) specific for mitotic cyclinâ€“Cdk complexes. Current Biology, 1999, 9, 1392-1402.	1.8	50
58	Drosophila grapes/CHK1 mutants are defective in cyclin proteolysis and coordination of mitotic events. Current Biology, 1999, 9, 919-S1.	1.8	44
59	Transcribed genes are localized according to chromosomal position within polarized Drosophila embryonic nuclei. Current Biology, 1999, 9, 1263-S6.	1.8	77
60	Nitric Oxide Contributes to Behavioral, Cellular, and Developmental Responses to Low Oxygen in Drosophila. Cell, 1999, 98, 105-114.	13.5	231
61	Fluctuations in Cyclin E levels are required for multiple rounds of endocycle S phase in Drosophila. Current Biology, 1998, 8, 235-238.	1.8	133
62	Size control: Cell proliferation does not equal growth. Current Biology, 1998, 8, R687-R689.	1.8	88
63	The Cell Cycle Program in Germ Cells of theDrosophilaEmbryo. Developmental Biology, 1998, 196, 160-170.	0.9	72
64	Chromosome Association of Minichromosome Maintenance Proteins in Drosophila Endoreplication Cycles. Journal of Cell Biology, 1998, 140, 451-460.	2.3	59
65	Mutations of the <i>Drosophila 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 G₁-S Transition. Molecular and Cellular Biology, 1998, 18, 141-151.	1.1	101
66	Chromosome Association of Minichromosome Maintenance Proteins in Drosophila Mitotic Cycles. Journal of Cell Biology, 1997, 139, 13-21.	2.3	50
67	Cdks and the Drosophila cell cycle. Current Opinion in Genetics and Development, 1997, 7, 17-22.	1.5	39
68	Connecting Cell Behavior to Patterning: Lessons from the Cell Cycle. Cell, 1997, 88, 309-314.	13.5	31
69	Cloning of Drosophila MCM homologs and analysis of their requirement during embryogenesis. Gene, 1997, 192, 283-289.	1.0	21
70	S-phase function of Drosophila cyclin A and its downregulation in G1 phase. Current Biology, 1997, 7, 488-499.	1.8	100
71	Limb morphogenesis: connections between patterning and growth. Current Biology, 1997, 7, R186-R195.	1.8	109
72	Qualifying for the license to replicate. Cell, 1995, 81, 825-828.	13.5	57

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73	A Nuclear GFP That Marks Nuclei in Living Drosophila Embryos; Maternal Supply Overcomes a Delay in the Appearance of Zygotic Fluorescence. Developmental Biology, 1995, 170, 726-729.	0.9	121
74	Chapter 27 The Use of Photoactivatable Reagents for the Study of Cell Lineage in Drosophila Embryogenesis. Methods in Cell Biology, 1994, 44, 533-543.	0.5	13
75	Unanimity waits in the wings. Nature, 1994, 368, 188-189.	13.7	17
76	The making of a maggot: patterning the Drosophila embryonic epidermis. Current Opinion in Genetics and Development, 1994, 4, 529-534.	1.5	130
77	A Cell-Autonomous, Ubiquitous Marker for the Analysis of Drosophila Genetic Mosaics. Developmental Biology, 1994, 164, 328-331.	0.9	109
78	A universal target sequence is bound in vitro by diverse homeodomains. Mechanisms of Development, 1993, 43, 57-70.	1.7	70
79	The state of engrailed expression is not clonally transmitted during early Drosophila development. Cell, 1992, 68, 923-931.	13.5	168
80	Big genes and little genes and deadlines for transcription. Nature, 1992, 359, 366-367.	13.7	45
81	An evolutionarily conserved cyclin homolog from Drosophila rescues yeast deficient in G1 cyclins. Cell, 1991, 66, 1207-1216.	13.5	174
82	Progression of the cell cycle through mitosis leads to abortion of nascent transcripts. Cell, 1991, 67, 303-310.	13.5	377
83	Multiple modes of engrailed regulation in the progression towards cell fate determination. Nature, 1991, 352, 404-410.	13.7	270
84	The roles of Drosophila cyclins A and B in mitotic control. Cell, 1990, 61, 535-547.	13.5	463
85	The three postblastoderm cell cycles of Drosophila embryogenesis are regulated in G2 by string. Cell, 1990, 62, 469-480.	13.5	442
86	Genetic control of cell division patterns in the Drosophila embryo. Cell, 1989, 57, 177-187.	13.5	604
87	Expression and function of Drosophila cyclin a during embryonic cell cycle progression. Cell, 1989, 56, 957-968.	13.5	432
88	Two-tiered regulation of spatially patterned engrailed gene expression during Drosophila embryogenesis. Nature, 1988, 332, 604-609.	13.7	404
89	Activation and repression of transcription by homoeodomain-containing proteins that bind a common site. Nature, 1988, 336, 744-749.	13.7	254
90	The sequence specificity of homeodomain-DNA interaction. Cell, 1988, 54, 1081-1090.	13.5	534

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91	Spatial Programming of Gene Expression in Early Drosophila Embryogenesis. Annual Review of Cell Biology, 1986, 2, 49-80.	26.0	170
92	Chapter 4 Studies of Shaker Mutations Affecting a K+ Channel in Drosophila. Current Topics in Membranes and Transport, 1985, 23, 67-77.	0.6	1
93	The Drosophila developmental gene, engrailed, encodes a sequence-specific DNA binding activity. Nature, 1985, 318, 630-635.	13.7	425
94	Application of drosophila molecular genetics in the study of neural function â€" studies of the shaker locus for a potassium channel. Trends in Neurosciences, 1985, 8, 234-238.	4.2	9
95	The engrailed locus of drosophila: In situ localization of transcripts reveals compartment-specific expression. Cell, 1985, 40, 45-53.	13.5	483
96	Development of embryonic pattern in D. melanogaster as revealed by accumulation of the nuclear engrailed protein. Cell, 1985, 43, 59-69.	13.5	431
97	A restriction map of the bacteriophage T4 genome. Molecular Genetics and Genomics, 1980, 179, 421-435.	2.4	342
98	The suppression of defective translation by ppGpp and its role in the stringent response. Cell, 1978, 14, 545-557.	13.5	216
99	The glucocorticoid domain: Steroid-mediated changes in the rate of synthesis of rat hepatoma proteins. Cell, 1978, 13, 41-55.	13.5	238
100	Chapter 27 Two-Dimensional Polyacrylamide Gel Electrophoretic Fractionation. Methods in Cell Biology, 1977, 16, 407-420.	0.5	130
101	Mutations causing charge alterations in regulatory subunits of the cAMP-dependent protein kinase of cultured S49 lymphoma cells. Cell, 1977, 10, 381-391.	13.5	224
102	High resolution two-dimensional electrophoresis of basic as well as acidic proteins. Cell, 1977, 12, 1133-1142.	13.5	3,808