

Patrick O'Farrell

List of Publications by Year in descending order

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102
papers

18,467
citations

28274
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114
times ranked

10703
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, .	7.1	6
2	Interphase-arrested <i>Drosophila</i> embryos activate zygotic gene expression and initiate mid-blastula transition events at a low nuclear-cytoplasmic ratio. PLoS Biology, 2020, 18, e3000891.	5.6	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.	5.9	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.	3.9	22
5	Rif1 prolongs the embryonic S phase at the <i>Drosophila</i> mid-blastula transition. PLoS Biology, 2018, 16, e2005687.	5.6	62
6	The Mitochondrial DNA Polymerase Promotes Elimination of Paternal Mitochondrial Genomes. Current Biology, 2017, 27, 1033-1039.	3.9	39
7	Sophisticated lessons from simple organisms: appreciating the value of curiosity-driven research. DMM Disease Models and Mechanisms, 2017, 10, 1381-1389.	2.4	12
8	Selfish drive can trump function when animal mitochondrial genomes compete. Nature Genetics, 2016, 48, 798-802.	21.4	59
9	Timing the <i>Drosophila</i> Mid-Blastula Transition: A Cell Cycle-Centered View. Trends in Genetics, 2016, 32, 496-507.	6.7	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.	5.9	70
11	Cyclin B3 Is a Mitotic Cyclin that Promotes the Metaphase-Anaphase Transition. Current Biology, 2015, 25, 811-816.	3.9	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.	5.5	45
13	Selections that isolate recombinant mitochondrial genomes in animals. ELife, 2015, 4, .	6.0	45
14	Transmission of mitochondrial mutations and action of purifying selection in <i>Drosophila melanogaster</i> . Nature Genetics, 2014, 46, 393-397.	21.4	97
15	Illuminating DNA replication during <i>Drosophila</i> development using TALE-lights. Current Biology, 2014, 24, R144-R145.	3.9	35
16	Two-Dimensional Gel Electrophoresis and the Beginning of Proteomics. Clinical Chemistry, 2014, 60, 1012-1013.	3.2	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.	7.6	165
18	Mechanism and Regulation of Cdc25/Twine Protein Destruction in Embryonic Cell-Cycle Remodeling. Current Biology, 2013, 23, 118-126.	3.9	66

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19	Embryonic onset of late replication requires Cdc25 down-regulation. <i>Genes and Development</i> , 2012, 26, 714-725.	5.9	61
20	Different cyclin types collaborate to reverse the S-phase checkpoint and permit prompt mitosis. <i>Journal of Cell Biology</i> , 2012, 198, 973-980.	5.2	12
21	Barriers to Male Transmission of Mitochondrial DNA in Sperm Development. <i>Developmental Cell</i> , 2012, 22, 660-668.	7.0	155
22	Quiescence: early evolutionary origins and universality do not imply uniformity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3498-3507.	4.0	65
23	Nitric oxide synthase is not essential for <i>Drosophila</i> development. <i>Current Biology</i> , 2010, 20, R141-R142.	3.9	30
24	Developmental Control of Late Replication and S Phase Length. <i>Current Biology</i> , 2010, 20, 2067-2077.	3.9	104
25	Influence of cyclin type and dose on mitotic entry and progression in the early <i>Drosophila</i> embryo. <i>Journal of Cell Biology</i> , 2009, 184, 639-646.	5.2	42
26	DNA replication times the cell cycle and contributes to the mid-blastula transition in <i>Drosophila</i> embryos. <i>Journal of Cell Biology</i> , 2009, 187, 7-14.	5.2	43
27	Phagocytosis of <i>Candida albicans</i> by RNAi-Treated <i>Drosophila</i> S2 Cells. <i>Methods in Molecular Biology</i> , 2009, 470, 347-358.	0.9	15
28	Dissection of a Hypoxia-induced, Nitric Oxide-mediated Signaling Cascade. <i>Molecular Biology of the Cell</i> , 2009, 20, 4083-4090.	2.1	22
29	The pre-proteomics era: The early days of two-dimensional gels. <i>Proteomics</i> , 2008, 8, 4842-4852.	2.2	24
30	RNAi of Mitotic Cyclins in <i>Drosophila</i> Uncouples the Nuclear and Centrosome Cycle. <i>Current Biology</i> , 2008, 18, 245-254.	3.9	59
31	Rho-dependent control of anillin behavior during cytokinesis. <i>Journal of Cell Biology</i> , 2008, 180, 285-294.	5.2	126
32	Manipulating the Metazoan Mitochondrial Genome with Targeted Restriction Enzymes. <i>Science</i> , 2008, 321, 575-577.	12.6	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. <i>Molecular Biology of the Cell</i> , 2008, 19, 4051-4061.	2.1	35
34	Anillin: a pivotal organizer of the cytokinetic machinery. <i>Biochemical Society Transactions</i> , 2008, 36, 439-441.	3.4	67
35	<i>Drosophila</i> Calcineurin Promotes Induction of Innate Immune Responses. <i>Current Biology</i> , 2007, 17, 2087-2093.	3.9	63
36	The endocytic pathway mediates cell entry of dsRNA to induce RNAi silencing. <i>Nature Cell Biology</i> , 2006, 8, 793-802.	10.3	470

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37	Rho-kinase Controls Cell Shape Changes during Cytokinesis. <i>Current Biology</i> , 2006, 16, 359-370.	3.9	117
38	Identification of <i>Drosophila</i> Gene Products Required for Phagocytosis of <i>Candida albicans</i> . <i>PLoS Biology</i> , 2005, 4, e4.	5.6	246
39	Embryonic Cleavage Cycles: How Is a Mouse Like a Fly?. <i>Current Biology</i> , 2004, 14, R35-R45.	3.9	171
40	Terminal Cytokinesis Events Uncovered after an RNAi Screen. <i>Current Biology</i> , 2004, 14, 1685-1693.	3.9	252
41	Functional Dissection of an Innate Immune Response by a Genome-Wide RNAi Screen. <i>PLoS Biology</i> , 2004, 2, e203.	5.6	218
42	Nitric oxide-induced suspended animation promotes survival during hypoxia. <i>EMBO Journal</i> , 2003, 22, 580-587.	7.8	57
43	The Degradation of Two Mitotic Cyclins Contributes to the Timing of Cytokinesis. <i>Current Biology</i> , 2003, 13, 373-383.	3.9	55
44	Cyclin B Destruction Triggers Changes in Kinetochore Behavior Essential for Successful Anaphase. <i>Current Biology</i> , 2003, 13, 647-653.	3.9	81
45	Involvement of an SCF ^{Slmb} complex in timely elimination of E2F upon initiation of DNA replication in <i>Drosophila</i> . <i>BMC Genetics</i> , 2003, 4, 9.	2.7	32
46	Nitric oxide contributes to induction of innate immune responses to gram-negative bacteria in <i>Drosophila</i> . <i>Genes and Development</i> , 2003, 17, 115-125.	5.9	235
47	Anomalous centriole configurations are detected in <i>Drosophila</i> wing disc cells upon Cdk1 inactivation. <i>Journal of Cell Science</i> , 2003, 116, 137-143.	2.0	46
48	Sister Chromatids Fail to Separate during an Induced Endoreplication Cycle in <i>Drosophila</i> Embryos. <i>Current Biology</i> , 2002, 12, 829-833.	3.9	22
49	The schedule of destruction of three mitotic cyclins can dictate the timing of events during exit from mitosis. <i>Current Biology</i> , 2001, 11, 671-683.	3.9	145
50	Triggering the all-or-nothing switch into mitosis. <i>Trends in Cell Biology</i> , 2001, 11, 512-519.	7.9	166
51	Hypoxia and Nitric Oxide Induce a Rapid, Reversible Cell Cycle Arrest of the <i>Drosophila</i> Syncytial Divisions. <i>Journal of Biological Chemistry</i> , 2001, 276, 1930-1937.	3.4	63
52	Conserved responses to oxygen deprivation. <i>Journal of Clinical Investigation</i> , 2001, 107, 671-674.	8.2	25
53	Cell cycle roles for two 14-3-3 proteins during <i>Drosophila</i> development. <i>Journal of Cell Science</i> , 2001, 114, 3445-3454.	2.0	56
54	Comparative Genomics of the Eukaryotes. <i>Science</i> , 2000, 287, 2204-2215.	12.6	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.	2.9	61
56	Mitotic Regulators Govern Progress through Steps in the Centrosome Duplication Cycle. Journal of Cell Biology, 1999, 147, 1371-1378.	5.2	50
57	Rux is a cyclin-dependent kinase inhibitor (CKI) specific for mitotic cyclin-Cdk complexes. Current Biology, 1999, 9, 1392-1402.	3.9	50
58	<i>Drosophila</i> grapes/CHK1 mutants are defective in cyclin proteolysis and coordination of mitotic events. Current Biology, 1999, 9, 919-S1.	3.9	44
59	Transcribed genes are localized according to chromosomal position within polarized <i>Drosophila</i> embryonic nuclei. Current Biology, 1999, 9, 1263-S6.	3.9	77
60	Nitric Oxide Contributes to Behavioral, Cellular, and Developmental Responses to Low Oxygen in <i>Drosophila</i> . Cell, 1999, 98, 105-114.	28.9	231
61	Fluctuations in Cyclin E levels are required for multiple rounds of endocycle S phase in <i>Drosophila</i> . Current Biology, 1998, 8, 235-238.	3.9	133
62	Size control: Cell proliferation does not equal growth. Current Biology, 1998, 8, R687-R689.	3.9	88
63	The Cell Cycle Program in Germ Cells of the <i>Drosophila</i> Embryo. Developmental Biology, 1998, 196, 160-170.	2.0	72
64	Chromosome Association of Minichromosome Maintenance Proteins in <i>Drosophila</i> Endoreplication Cycles. Journal of Cell Biology, 1998, 140, 451-460.	5.2	59
65	Mutations of the <i>Drosophila</i> dDP, dE2F, and cyclin E Genes Reveal Distinct Roles for the E2F-DP Transcription Factor and Cyclin E during the G ₁ -S Transition. Molecular and Cellular Biology, 1998, 18, 141-151.	2.3	101
66	Chromosome Association of Minichromosome Maintenance Proteins in <i>Drosophila</i> Mitotic Cycles. Journal of Cell Biology, 1997, 139, 13-21.	5.2	50
67	Cdks and the <i>Drosophila</i> cell cycle. Current Opinion in Genetics and Development, 1997, 7, 17-22.	3.3	39
68	Connecting Cell Behavior to Patterning: Lessons from the Cell Cycle. Cell, 1997, 88, 309-314.	28.9	31
69	Cloning of <i>Drosophila</i> MCM homologs and analysis of their requirement during embryogenesis. Gene, 1997, 192, 283-289.	2.2	21
70	S-phase function of <i>Drosophila</i> cyclin A and its downregulation in G1 phase. Current Biology, 1997, 7, 488-499.	3.9	100
71	Limb morphogenesis: connections between patterning and growth. Current Biology, 1997, 7, R186-R195.	3.9	109
72	Qualifying for the license to replicate. Cell, 1995, 81, 825-828.	28.9	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. <i>Developmental Biology</i> , 1995, 170, 726-729.	2.0	121
74	Chapter 27 The Use of Photoactivatable Reagents for the Study of Cell Lineage in Drosophila Embryogenesis. <i>Methods in Cell Biology</i> , 1994, 44, 533-543.	1.1	13
75	Unanimity waits in the wings. <i>Nature</i> , 1994, 368, 188-189.	27.8	17
76	The making of a maggot: patterning the Drosophila embryonic epidermis. <i>Current Opinion in Genetics and Development</i> , 1994, 4, 529-534.	3.3	130
77	A Cell-Autonomous, Ubiquitous Marker for the Analysis of Drosophila Genetic Mosaics. <i>Developmental Biology</i> , 1994, 164, 328-331.	2.0	109
78	A universal target sequence is bound in vitro by diverse homeodomains. <i>Mechanisms of Development</i> , 1993, 43, 57-70.	1.7	70
79	The state of engrailed expression is not clonally transmitted during early Drosophila development. <i>Cell</i> , 1992, 68, 923-931.	28.9	168
80	Big genes and little genes and deadlines for transcription. <i>Nature</i> , 1992, 359, 366-367.	27.8	45
81	An evolutionarily conserved cyclin homolog from Drosophila rescues yeast deficient in G1 cyclins. <i>Cell</i> , 1991, 66, 1207-1216.	28.9	174
82	Progression of the cell cycle through mitosis leads to abortion of nascent transcripts. <i>Cell</i> , 1991, 67, 303-310.	28.9	377
83	Multiple modes of engrailed regulation in the progression towards cell fate determination. <i>Nature</i> , 1991, 352, 404-410.	27.8	270
84	The roles of Drosophila cyclins A and B in mitotic control. <i>Cell</i> , 1990, 61, 535-547.	28.9	463
85	The three postblastoderm cell cycles of Drosophila embryogenesis are regulated in G2 by string. <i>Cell</i> , 1990, 62, 469-480.	28.9	442
86	Genetic control of cell division patterns in the Drosophila embryo. <i>Cell</i> , 1989, 57, 177-187.	28.9	604
87	Expression and function of Drosophila cyclin a during embryonic cell cycle progression. <i>Cell</i> , 1989, 56, 957-968.	28.9	432
88	Two-tiered regulation of spatially patterned engrailed gene expression during Drosophila embryogenesis. <i>Nature</i> , 1988, 332, 604-609.	27.8	404
89	Activation and repression of transcription by homoeodomain-containing proteins that bind a common site. <i>Nature</i> , 1988, 336, 744-749.	27.8	254
90	The sequence specificity of homeodomain-DNA interaction. <i>Cell</i> , 1988, 54, 1081-1090.	28.9	534

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91	Spatial Programming of Gene Expression in Early Drosophila Embryogenesis. Annual Review of Cell Biology, 1986, 2, 49-80.	26.1	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.	27.8	425
94	Application of drosophila molecular genetics in the study of neural function – studies of the shaker locus for a potassium channel. Trends in Neurosciences, 1985, 8, 234-238.	8.6	9
95	The engrailed locus of drosophila: In situ localization of transcripts reveals compartment-specific expression. Cell, 1985, 40, 45-53.	28.9	483
96	Development of embryonic pattern in D. melanogaster as revealed by accumulation of the nuclear engrailed protein. Cell, 1985, 43, 59-69.	28.9	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.	28.9	216
99	The glucocorticoid domain: Steroid-mediated changes in the rate of synthesis of rat hepatoma proteins. Cell, 1978, 13, 41-55.	28.9	238
100	Chapter 27 Two-Dimensional Polyacrylamide Gel Electrophoretic Fractionation. Methods in Cell Biology, 1977, 16, 407-420.	1.1	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.	28.9	224
102	High resolution two-dimensional electrophoresis of basic as well as acidic proteins. Cell, 1977, 12, 1133-1142.	28.9	3,808