

Patrick O Farrell

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101
papers

16,163
citations

55
h-index

114
g-index

114
ext. papers

17,153
ext. citations

18.6
avg, IF

6.48
L-index

#	Paper	IF	Citations
101	High resolution two-dimensional electrophoresis of basic as well as acidic proteins. <i>Cell</i> , 1977 , 12, 1133-46	56.2	3483
100	Comparative genomics of the eukaryotes. <i>Science</i> , 2000 , 287, 2204-15	33.3	1364
99	Genetic control of cell division patterns in the Drosophila embryo. <i>Cell</i> , 1989 , 57, 177-87	56.2	520
98	The sequence specificity of homeodomain-DNA interaction. <i>Cell</i> , 1988 , 54, 1081-90	56.2	493
97	The engrailed locus of Drosophila: in situ localization of transcripts reveals compartment-specific expression. <i>Cell</i> , 1985 , 40, 45-53	56.2	427
96	The roles of Drosophila cyclins A and B in mitotic control. <i>Cell</i> , 1990 , 61, 535-47	56.2	424
95	The endocytic pathway mediates cell entry of dsRNA to induce RNAi silencing. <i>Nature Cell Biology</i> , 2006 , 8, 793-802	23.4	402
94	The three postblastoderm cell cycles of Drosophila embryogenesis are regulated in G2 by string. <i>Cell</i> , 1990 , 62, 469-80	56.2	392
93	Expression and function of Drosophila cyclin A during embryonic cell cycle progression. <i>Cell</i> , 1989 , 56, 957-68	56.2	388
92	The Drosophila developmental gene, engrailed, encodes a sequence-specific DNA binding activity. <i>Nature</i> , 1985 , 318, 630-5	50.4	383
91	Development of embryonic pattern in <i>D. melanogaster</i> as revealed by accumulation of the nuclear engrailed protein. <i>Cell</i> , 1985 , 43, 59-69	56.2	381
90	Two-tiered regulation of spatially patterned engrailed gene expression during Drosophila embryogenesis. <i>Nature</i> , 1988 , 332, 604-9	50.4	368
89	Progression of the cell cycle through mitosis leads to abortion of nascent transcripts. <i>Cell</i> , 1991 , 67, 303-10	50.2	320
88	A restriction map of the bacteriophage T4 genome. <i>Molecular Genetics and Genomics</i> , 1980 , 179, 421-435		292
87	Multiple modes of engrailed regulation in the progression towards cell fate determination. <i>Nature</i> , 1991 , 352, 404-10	50.4	242
86	Activation and repression of transcription by homeodomain-containing proteins that bind a common site. <i>Nature</i> , 1988 , 336, 744-9	50.4	239
85	Terminal cytokinesis events uncovered after an RNAi screen. <i>Current Biology</i> , 2004 , 14, 1685-93	6.3	228

84	The glucocorticoid domain: steroid-mediated changes in the rate of synthesis of rat hepatoma proteins. <i>Cell</i> , 1978 , 13, 41-55	56.2	224
83	Identification of Drosophila gene products required for phagocytosis of <i>Candida albicans</i> . <i>PLoS Biology</i> , 2006 , 4, e4	9.7	212
82	Mutations causing charge alterations in regulatory subunits of the cAMP-dependent protein kinase of cultured S49 lymphoma cells. <i>Cell</i> , 1977 , 10, 381-91	56.2	212
81	Nitric oxide contributes to behavioral, cellular, and developmental responses to low oxygen in <i>Drosophila</i> . <i>Cell</i> , 1999 , 98, 105-14	56.2	206
80	Nitric oxide contributes to induction of innate immune responses to gram-negative bacteria in <i>Drosophila</i> . <i>Genes and Development</i> , 2003 , 17, 115-25	12.6	196
79	The suppression of defective translation by ppGpp and its role in the stringent response. <i>Cell</i> , 1978 , 14, 545-57	56.2	194
78	Functional dissection of an innate immune response by a genome-wide RNAi screen. <i>PLoS Biology</i> , 2004 , 2, E203	9.7	185
77	An evolutionarily conserved cyclin homolog from <i>Drosophila</i> rescues yeast deficient in G1 cyclins. <i>Cell</i> , 1991 , 66, 1207-16	56.2	165
76	The state of engrailed expression is not clonally transmitted during early <i>Drosophila</i> development. <i>Cell</i> , 1992 , 68, 923-31	56.2	155
75	Triggering the all-or-nothing switch into mitosis. <i>Trends in Cell Biology</i> , 2001 , 11, 512-9	18.3	151
74	Embryonic cleavage cycles: how is a mouse like a fly?. <i>Current Biology</i> , 2004 , 14, R35-45	6.3	146
73	The schedule of destruction of three mitotic cyclins can dictate the timing of events during exit from mitosis. <i>Current Biology</i> , 2001 , 11, 671-83	6.3	134
72	Barriers to male transmission of mitochondrial DNA in sperm development. <i>Developmental Cell</i> , 2012 , 22, 660-8	10.2	128
71	Fluctuations in cyclin E levels are required for multiple rounds of endocycle S phase in <i>Drosophila</i> . <i>Current Biology</i> , 1998 , 8, 235-8	6.3	119
70	The making of a maggot: patterning the <i>Drosophila</i> embryonic epidermis. <i>Current Opinion in Genetics and Development</i> , 1994 , 4, 529-34	4.9	115
69	Spatial programming of gene expression in early <i>Drosophila</i> embryogenesis. <i>Annual Review of Cell Biology</i> , 1986 , 2, 49-80		115
68	Two-dimensional polyacrylamide gel electrophoretic fractionation. <i>Methods in Cell Biology</i> , 1977 , 16, 407-20	1.8	114
67	From egg to gastrula: how the cell cycle is remodeled during the <i>Drosophila</i> mid-blastula transition. <i>Annual Review of Genetics</i> , 2014 , 48, 269-94	14.5	107

66	A nuclear GFP that marks nuclei in living <i>Drosophila</i> embryos; maternal supply overcomes a delay in the appearance of zygotic fluorescence. <i>Developmental Biology</i> , 1995 , 170, 726-9	3.1	107
65	Rho-dependent control of anillin behavior during cytokinesis. <i>Journal of Cell Biology</i> , 2008 , 180, 285-94	7.3	103
64	A cell-autonomous, ubiquitous marker for the analysis of <i>Drosophila</i> genetic mosaics. <i>Developmental Biology</i> , 1994 , 164, 328-31	3.1	102
63	Limb morphogenesis: connections between patterning and growth. <i>Current Biology</i> , 1997 , 7, R186-95	6.3	99
62	Rho-kinase controls cell shape changes during cytokinesis. <i>Current Biology</i> , 2006 , 16, 359-70	6.3	99
61	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 G1-S transition. <i>Molecular and Cellular Biology</i> , 1998 , 18, 141-51	4.8	90
60	S-phase function of <i>Drosophila</i> cyclin A and its downregulation in G1 phase. <i>Current Biology</i> , 1997 , 7, 488-99	6.3	85
59	Developmental control of late replication and S phase length. <i>Current Biology</i> , 2010 , 20, 2067-77	6.3	84
58	Manipulating the metazoan mitochondrial genome with targeted restriction enzymes. <i>Science</i> , 2008 , 321, 575-7	33.3	80
57	Cyclin B destruction triggers changes in kinetochore behavior essential for successful anaphase. <i>Current Biology</i> , 2003 , 13, 647-53	6.3	74
56	Size control: cell proliferation does not equal growth. <i>Current Biology</i> , 1998 , 8, R687-9	6.3	71
55	Transcribed genes are localized according to chromosomal position within polarized <i>Drosophila</i> embryonic nuclei. <i>Current Biology</i> , 1999 , 9, 1263-6	6.3	71
54	Transmission of mitochondrial mutations and action of purifying selection in <i>Drosophila melanogaster</i> . <i>Nature Genetics</i> , 2014 , 46, 393-7	36.3	69
53	A universal target sequence is bound in vitro by diverse homeodomains. <i>Mechanisms of Development</i> , 1993 , 43, 57-70	1.7	67
52	Anillin: a pivotal organizer of the cytokinetic machinery. <i>Biochemical Society Transactions</i> , 2008 , 36, 439-41	4.1	60
51	The cell cycle program in germ cells of the <i>Drosophila</i> embryo. <i>Developmental Biology</i> , 1998 , 196, 160-70	3.1	57
50	Mechanism and regulation of Cdc25/Twine protein destruction in embryonic cell-cycle remodeling. <i>Current Biology</i> , 2013 , 23, 118-26	6.3	56
49	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, 1930-7	5.4	56

48	RNAi of mitotic cyclins in <i>Drosophila</i> uncouples the nuclear and centrosome cycle. <i>Current Biology</i> , 2008 , 18, 245-54	6.3	55
47	Chromosome association of minichromosome maintenance proteins in <i>Drosophila</i> endoreplication cycles. <i>Journal of Cell Biology</i> , 1998 , 140, 451-60	7.3	55
46	<i>Drosophila</i> wee1 has an essential role in the nuclear divisions of early embryogenesis. <i>Genetics</i> , 2000 , 155, 159-66	4	52
45	The degradation of two mitotic cyclins contributes to the timing of cytokinesis. <i>Current Biology</i> , 2003 , 13, 373-83	6.3	51
44	Qualifying for the license to replicate. <i>Cell</i> , 1995 , 81, 825-8	56.2	51
43	Embryonic onset of late replication requires Cdc25 down-regulation. <i>Genes and Development</i> , 2012 , 26, 714-25	12.6	50
42	<i>Drosophila</i> calcineurin promotes induction of innate immune responses. <i>Current Biology</i> , 2007 , 17, 2087-93	6.3	50
41	Timing the <i>Drosophila</i> Mid-Blastula Transition: A Cell Cycle-Centered View. <i>Trends in Genetics</i> , 2016 , 32, 496-507	8.5	49
40	Mitotic regulators govern progress through steps in the centrosome duplication cycle. <i>Journal of Cell Biology</i> , 1999 , 147, 1371-8	7.3	49
39	Quiescence: early evolutionary origins and universality do not imply uniformity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 3498-507	5.8	48
38	Cell cycle roles for two 14-3-3 proteins during <i>Drosophila</i> development. <i>Journal of Cell Science</i> , 2001 , 114, 3445-3454	5.3	48
37	TALE-light imaging reveals maternally guided, H3K9me2/3-independent emergence of functional heterochromatin in <i>Drosophila</i> embryos. <i>Genes and Development</i> , 2016 , 30, 579-93	12.6	47
36	Nitric oxide-induced suspended animation promotes survival during hypoxia. <i>EMBO Journal</i> , 2003 , 22, 580-7	13	46
35	Chromosome association of minichromosome maintenance proteins in <i>Drosophila</i> mitotic cycles. <i>Journal of Cell Biology</i> , 1997 , 139, 13-21	7.3	44
34	Anomalous centriole configurations are detected in <i>Drosophila</i> wing disc cells upon Cdk1 inactivation. <i>Journal of Cell Science</i> , 2003 , 116, 137-43	5.3	43
33	Rux is a cyclin-dependent kinase inhibitor (CKI) specific for mitotic cyclin-Cdk complexes. <i>Current Biology</i> , 1999 , 9, 1392-402	6.3	42
32	Selfish drive can trump function when animal mitochondrial genomes compete. <i>Nature Genetics</i> , 2016 , 48, 798-802	36.3	41
31	<i>Drosophila</i> grapes/CHK1 mutants are defective in cyclin proteolysis and coordination of mitotic events. <i>Current Biology</i> , 1999 , 9, 919-22	6.3	41

30	Rif1 prolongs the embryonic S phase at the Drosophila mid-blastula transition. <i>PLoS Biology</i> , 2018 , 16, e2005687	9.7	35
29	Influence of cyclin type and dose on mitotic entry and progression in the early Drosophila embryo. <i>Journal of Cell Biology</i> , 2009 , 184, 639-46	7.3	34
28	DNA replication times the cell cycle and contributes to the mid-blastula transition in Drosophila embryos. <i>Journal of Cell Biology</i> , 2009 , 187, 7-14	7.3	33
27	Cdks and the Drosophila cell cycle. <i>Current Opinion in Genetics and Development</i> , 1997 , 7, 17-22	4.9	33
26	Rapid embryonic cell cycles defer the establishment of heterochromatin by Eggless/SetDB1 in. <i>Genes and Development</i> , 2019 , 33, 403-417	12.6	32
25	Connecting cell behavior to patterning: lessons from the cell cycle. <i>Cell</i> , 1997 , 88, 309-14	56.2	31
24	Selections that isolate recombinant mitochondrial genomes in animals. <i>ELife</i> , 2015 , 4,	8.9	31
23	The Mitochondrial DNA Polymerase Promotes Elimination of Paternal Mitochondrial Genomes. <i>Current Biology</i> , 2017 , 27, 1033-1039	6.3	29
22	Cyclin B3 is a mitotic cyclin that promotes the metaphase-anaphase transition. <i>Current Biology</i> , 2015 , 25, 811-816	6.3	29
21	Involvement of an SCF ^{Slmb} complex in timely elimination of E2F upon initiation of DNA replication in Drosophila. <i>BMC Genetics</i> , 2003 , 4, 9	2.6	29
20	Illuminating DNA replication during Drosophila development using TALE-lights. <i>Current Biology</i> , 2014 , 24, R144-5	6.3	28
19	Growing an Embryo from a Single Cell: A Hurdle in Animal Life. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015 , 7,	10.2	27
18	An RNA interference screen identifies a novel regulator of target of rapamycin that mediates hypoxia suppression of translation in Drosophila S2 cells. <i>Molecular Biology of the Cell</i> , 2008 , 19, 4051-61 ^{3.5}		27
17	Nitric oxide synthase is not essential for Drosophila development. <i>Current Biology</i> , 2010 , 20, R141-2	6.3	22
16	The pre-omics era: the early days of two-dimensional gels. <i>Proteomics</i> , 2008 , 8, 4842-52	4.8	22
15	Conserved responses to oxygen deprivation. <i>Journal of Clinical Investigation</i> , 2001 , 107, 671-4	15.9	22
14	Cloning of Drosophila MCM homologs and analysis of their requirement during embryogenesis. <i>Gene</i> , 1997 , 192, 283-9	3.8	21
13	Dissection of a hypoxia-induced, nitric oxide-mediated signaling cascade. <i>Molecular Biology of the Cell</i> , 2009 , 20, 4083-90	3.5	18

12	Sister chromatids fail to separate during an induced endoreplication cycle in <i>Drosophila</i> embryos. <i>Current Biology</i> , 2002 , 12, 829-33	6.3	16
11	Phagocytosis of <i>Candida albicans</i> by RNAi-treated <i>Drosophila</i> S2 cells. <i>Methods in Molecular Biology</i> , 2009 , 470, 347-58	1.4	15
10	The use of photoactivatable reagents for the study of cell lineage in <i>Drosophila</i> embryogenesis. <i>Methods in Cell Biology</i> , 1994 , 44, 533-43	1.8	12
9	A Genome-wide Screen Reveals that Reducing Mitochondrial DNA Polymerase Can Promote Elimination of Deleterious Mitochondrial Mutations. <i>Current Biology</i> , 2019 , 29, 4330-4336.e3	6.3	12
8	Different cyclin types collaborate to reverse the S-phase checkpoint and permit prompt mitosis. <i>Journal of Cell Biology</i> , 2012 , 198, 973-80	7.3	11
7	Sophisticated lessons from simple organisms: appreciating the value of curiosity-driven research. <i>DMM Disease Models and Mechanisms</i> , 2017 , 10, 1381-1389	4.1	8
6	Interphase-arrested <i>Drosophila</i> embryos activate zygotic gene expression and initiate mid-blastula transition events at a low nuclear-cytoplasmic ratio. <i>PLoS Biology</i> , 2020 , 18, e3000891	9.7	6
5	Application of <i>drosophila</i> molecular genetics in the study of neural function [Studies of the shaker locus for a potassium channel. <i>Trends in Neurosciences</i> , 1985 , 8, 234-238	13.3	5
4	Interphase-arrested <i>Drosophila</i> embryos initiate Mid-Blastula Transition at a low nuclear-cytoplasmic ratio		3
3	Chapter 4 Studies of Shaker Mutations Affecting a K ⁺ Channel in <i>Drosophila</i> . <i>Current Topics in Membranes and Transport</i> , 1985 , 23, 67-77		1
2	Rapid embryonic cell cycles defer the establishment of heterochromatin by Eggless/SetDB1 in <i>Drosophila</i>		1
1	Two-dimensional gel electrophoresis and the beginning of proteomics. <i>Clinical Chemistry</i> , 2014 , 60, 1012-5		0