

# Patrick H O'farrell

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

12,935  
citations

57719

44  
h-index

106281

65  
g-index

65  
all docs

65  
docs citations

65  
times ranked

7017  
citing authors

#	ARTICLE	IF	CITATIONS
1	High resolution two-dimensional electrophoresis of basic as well as acidic proteins. <i>Cell</i> , 1977, 12, 1133-1142.	13.5	3,808
2	Genetic control of cell division patterns in the <i>Drosophila</i> embryo. <i>Cell</i> , 1989, 57, 177-187.	13.5	604
3	The sequence specificity of homeodomain-DNA interaction. <i>Cell</i> , 1988, 54, 1081-1090.	13.5	534
4	The endocytic pathway mediates cell entry of dsRNA to induce RNAi silencing. <i>Nature Cell Biology</i> , 2006, 8, 793-802.	4.6	470
5	The roles of <i>Drosophila</i> cyclins A and B in mitotic control. <i>Cell</i> , 1990, 61, 535-547.	13.5	463
6	The three postblastoderm cell cycles of <i>Drosophila</i> embryogenesis are regulated in G2 by string. <i>Cell</i> , 1990, 62, 469-480.	13.5	442
7	Expression and function of <i>Drosophila</i> cyclin a during embryonic cell cycle progression. <i>Cell</i> , 1989, 56, 957-968.	13.5	432
8	The <i>Drosophila</i> developmental gene, engrailed, encodes a sequence-specific DNA binding activity. <i>Nature</i> , 1985, 318, 630-635.	13.7	425
9	Two-tiered regulation of spatially patterned engrailed gene expression during <i>Drosophila</i> embryogenesis. <i>Nature</i> , 1988, 332, 604-609.	13.7	404
10	Progression of the cell cycle through mitosis leads to abortion of nascent transcripts. <i>Cell</i> , 1991, 67, 303-310.	13.5	377
11	Multiple modes of engrailed regulation in the progression towards cell fate determination. <i>Nature</i> , 1991, 352, 404-410.	13.7	270
12	Activation and repression of transcription by homeodomain-containing proteins that bind a common site. <i>Nature</i> , 1988, 336, 744-749.	13.7	254
13	Terminal Cytokinesis Events Uncovered after an RNAi Screen. <i>Current Biology</i> , 2004, 14, 1685-1693.	1.8	252
14	Identification of <i>Drosophila</i> Gene Products Required for Phagocytosis of <i>Candida albicans</i> . <i>PLoS Biology</i> , 2005, 4, e4.	2.6	246
15	Nitric Oxide Contributes to Behavioral, Cellular, and Developmental Responses to Low Oxygen in <i>Drosophila</i> . <i>Cell</i> , 1999, 98, 105-114.	13.5	231
16	Functional Dissection of an Innate Immune Response by a Genome-Wide RNAi Screen. <i>PLoS Biology</i> , 2004, 2, e203.	2.6	218
17	An evolutionarily conserved cyclin homolog from <i>Drosophila</i> rescues yeast deficient in G1 cyclins. <i>Cell</i> , 1991, 66, 1207-1216.	13.5	174
18	Embryonic Cleavage Cycles: How Is a Mouse Like a Fly?. <i>Current Biology</i> , 2004, 14, R35-R45.	1.8	171

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19	Spatial Programming of Gene Expression in Early <i>Drosophila</i> Embryogenesis. <i>Annual Review of Cell Biology</i> , 1986, 2, 49-80.	26.0	170
20	The state of engrailed expression is not clonally transmitted during early <i>Drosophila</i> development. <i>Cell</i> , 1992, 68, 923-931.	13.5	168
21	Triggering the all-or-nothing switch into mitosis. <i>Trends in Cell Biology</i> , 2001, 11, 512-519.	3.6	166
22	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, 269-294.	3.2	165
23	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.	1.8	145
24	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.	1.8	133
25	The making of a maggot: patterning the <i>Drosophila</i> embryonic epidermis. <i>Current Opinion in Genetics and Development</i> , 1994, 4, 529-534.	1.5	130
26	Rho-dependent control of anillin behavior during cytokinesis. <i>Journal of Cell Biology</i> , 2008, 180, 285-294.	2.3	126
27	Rho-kinase Controls Cell Shape Changes during Cytokinesis. <i>Current Biology</i> , 2006, 16, 359-370.	1.8	117
28	Developmental Control of Late Replication and S Phase Length. <i>Current Biology</i> , 2010, 20, 2067-2077.	1.8	104
29	Transcribed genes are localized according to chromosomal position within polarized <i>Drosophila</i> embryonic nuclei. <i>Current Biology</i> , 1999, 9, 1263-S6.	1.8	77
30	Timing the <i>Drosophila</i> Mid-Blastula Transition: A Cell Cycle-Centered View. <i>Trends in Genetics</i> , 2016, 32, 496-507.	2.9	74
31	The Cell Cycle Program in Germ Cells of the <i>Drosophila</i> Embryo. <i>Developmental Biology</i> , 1998, 196, 160-170.	0.9	72
32	A universal target sequence is bound in vitro by diverse homeodomains. <i>Mechanisms of Development</i> , 1993, 43, 57-70.	1.7	70
33	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, 579-593.	2.7	70
34	Anillin: a pivotal organizer of the cytokinetic machinery. <i>Biochemical Society Transactions</i> , 2008, 36, 439-441.	1.6	67
35	Mechanism and Regulation of Cdc25/Twine Protein Destruction in Embryonic Cell-Cycle Remodeling. <i>Current Biology</i> , 2013, 23, 118-126.	1.8	66
36	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.	1.8	65

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37	Rapid embryonic cell cycles defer the establishment of heterochromatin by Eggless/SetDB1 in <i>Drosophila</i> . <i>Genes and Development</i> , 2019, 33, 403-417.	2.7	64
38	Rif1 prolongs the embryonic S phase at the <i>Drosophila</i> mid-blastula transition. <i>PLoS Biology</i> , 2018, 16, e2005687.	2.6	62
39	Embryonic onset of late replication requires Cdc25 down-regulation. <i>Genes and Development</i> , 2012, 26, 714-725.	2.7	61
40	<i>Drosophila wee1</i> Has an Essential Role in the Nuclear Divisions of Early Embryogenesis. <i>Genetics</i> , 2000, 155, 159-166.	1.2	61
41	Chromosome Association of Minichromosome Maintenance Proteins in <i>Drosophila</i> Endoreplication Cycles. <i>Journal of Cell Biology</i> , 1998, 140, 451-460.	2.3	59
42	Qualifying for the license to replicate. <i>Cell</i> , 1995, 81, 825-828.	13.5	57
43	Nitric oxide-induced suspended animation promotes survival during hypoxia. <i>EMBO Journal</i> , 2003, 22, 580-587.	3.5	57
44	The Degradation of Two Mitotic Cyclins Contributes to the Timing of Cytokinesis. <i>Current Biology</i> , 2003, 13, 373-383.	1.8	55
45	Chromosome Association of Minichromosome Maintenance Proteins in <i>Drosophila</i> Mitotic Cycles. <i>Journal of Cell Biology</i> , 1997, 139, 13-21.	2.3	50
46	Mitotic Regulators Govern Progress through Steps in the Centrosome Duplication Cycle. <i>Journal of Cell Biology</i> , 1999, 147, 1371-1378.	2.3	50
47	Rux is a cyclin-dependent kinase inhibitor (CKI) specific for mitotic cyclin-Cdk complexes. <i>Current Biology</i> , 1999, 9, 1392-1402.	1.8	50
48	Big genes and little genes and deadlines for transcription. <i>Nature</i> , 1992, 359, 366-367.	13.7	45
49	Growing an Embryo from a Single Cell: A Hurdle in Animal Life: Figure 1.. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a019042.	2.3	45
50	<i>Drosophila</i> grapes/CHK1 mutants are defective in cyclin proteolysis and coordination of mitotic events. <i>Current Biology</i> , 1999, 9, 919-S1.	1.8	44
51	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.	2.3	43
52	Cyclin B3 Is a Mitotic Cyclin that Promotes the Metaphase-Anaphase Transition. <i>Current Biology</i> , 2015, 25, 811-816.	1.8	43
53	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.	2.3	42
54	Cdks and the <i>Drosophila</i> cell cycle. <i>Current Opinion in Genetics and Development</i> , 1997, 7, 17-22.	1.5	39

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55	The Mitochondrial DNA Polymerase Promotes Elimination of Paternal Mitochondrial Genomes. <i>Current Biology</i> , 2017, 27, 1033-1039.	1.8	39
56	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.	0.9	35
57	Illuminating DNA replication during <i>Drosophila</i> development using TALE-lights. <i>Current Biology</i> , 2014, 24, R144-R145.	1.8	35
58	Connecting Cell Behavior to Patterning: Lessons from the Cell Cycle. <i>Cell</i> , 1997, 88, 309-314.	13.5	31
59	The proteomics era: The early days of two-dimensional gels. <i>Proteomics</i> , 2008, 8, 4842-4852.	1.3	24
60	Sister Chromatids Fail to Separate during an Induced Endoreplication Cycle in <i>Drosophila</i> Embryos. <i>Current Biology</i> , 2002, 12, 829-833.	1.8	22
61	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.	2.6	20
62	Phagocytosis of <i>Candida albicans</i> by RNAi-Treated <i>Drosophila</i> S2 Cells. <i>Methods in Molecular Biology</i> , 2009, 470, 347-358.	0.4	15
63	Chapter 27 The Use of Photoactivatable Reagents for the Study of Cell Lineage in <i>Drosophila</i> Embryogenesis. <i>Methods in Cell Biology</i> , 1994, 44, 533-543.	0.5	13
64	Different cyclin types collaborate to reverse the S-phase checkpoint and permit prompt mitosis. <i>Journal of Cell Biology</i> , 2012, 198, 973-980.	2.3	12
65	Two-Dimensional Gel Electrophoresis and the Beginning of Proteomics. <i>Clinical Chemistry</i> , 2014, 60, 1012-1013.	1.5	2