Suzanne Eaton

List of Publications by Year
in descending order

77 papers	10,194 citations	41344 49 h-index	69250 77 g-index
90 all docs	90 docs citations	90 times ranked	8122 citing authors

#	Article	IF	Citations
1	The Influence of Cell Mechanics, Cell-Cell Interactions, and Proliferation on Epithelial Packing. Current Biology, 2007, 17, 2095-2104.	3.9	1,039
2	Cell Flow Reorients the Axis of Planar Polarity in the Wing Epithelium of Drosophila. Cell, 2010, 142, 773-786.	28.9	650
3	Lipoprotein particles are required for Hedgehog and Wingless signalling. Nature, 2005, 435, 58-65.	27.8	611
4	Myosin II Dynamics Are Regulated by Tension in Intercalating Cells. Developmental Cell, 2009, 17, 736-743.	7.0	581
5	Argosomes. Cell, 2001, 106, 633-645.	28.9	393
6	Hexagonal Packing of Drosophila Wing Epithelial Cells by the Planar Cell Polarity Pathway. Developmental Cell, 2005, 9, 805-817.	7.0	386
7	The Drosophila hedgehog gene is expressed specifically in posterior compartment cells and is a target of engrailed regulation.. Genes and Development, 1992, 6, 2635-2645.	5.9	382
8	Interplay of cell dynamics and epithelial tension during morphogenesis of the Drosophila pupal wing. ELife, 2015, 4, e07090.	6.0	290
9	Association of Sterol- and Glycosylphosphatidylinositol-linked Proteins with Drosophila Raft Lipid Microdomains. Journal of Biological Chemistry, 1999, 274, 12049-12054.	3.4	274
10	Effects of diet and development on the <i>Drosophila</i> lipidome. Molecular Systems Biology, 2012, 8, 600.	7.2	240
11	The Ankyrin Repeat Protein Diego Mediates Frizzled-Dependent Planar Polarization. Developmental Cell, 2001, 1, 93-101.	7.0	221
12	Lipoproteins in Drosophila melanogasterâ€”Assembly, Function, and Influence on Tissue Lipid Composition. PLoS Genetics, 2012, 8, e1002828.	3.5	209
13	Cholesterol in signal transduction. Current Opinion in Cell Biology, 2000, 12, 193-203.	5.4	207
14	Repression of ci-D in posterior compartments of Drosophila by engrailed.. Genes and Development, 1990, 4, 1068-1077.	5.9	203
15	Roles for Rac1 and Cdc42 in planar polarization and hair outgrowth in the wing of Drosophila.. Journal of Cell Biology, 1996, 135, 1277-1289.	5.2	203
16	CDC42 and Rac1 control different actin-dependent processes in the Drosophila wing disc epithelium.. Journal of Cell Biology, 1995, 131, 151-164.	5.2	183
17	Apical, basal, and lateral cues for epithelial polarization. Cell, 1995, 82, 5-8.	28.9	176
18	Endogenously Tagged Rab Proteins: A Resource to Study Membrane Trafficking in Drosophila. Developmental Cell, 2015, 33, 351-365.	7.0	159

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19	The endocytic pathway and formation of the Wingless morphogen gradient. Development (Cambridge), 2006, 133, 307-317.	2.5	156
20	Lipoprotein-Heparan Sulfate Interactions in the Hh Pathway. Developmental Cell, 2007, 13, 57-71.	7.0	139
21	Diego interacts with Prickle and Strabismus/Van Gogh to localize planar cell polarity complexes. Development (Cambridge), 2004, 131, 4467-4476.	2.5	133
22	Multiple DNA sequence elements are necessary for the function of an immunoglobulin heavy chain promoter.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 7634-7638.	7.1	126
23	Epithelial Viscoelasticity Is Regulated by Mechanosensitive E-cadherin Turnover. Current Biology, 2019, 29, 578-591.e5.	3.9	126
24	Survival strategies of a sterol auxotroph. Development (Cambridge), 2010, 137, 3675-3685.	2.5	125
25	Planar polarization of Drosophila and vertebrate epithelia. Current Opinion in Cell Biology, 1997, 9, 860-866.	5.4	121
26	Segmentation and Quantitative Analysis of Epithelial Tissues. Methods in Molecular Biology, 2016, 1478, 227-239.	0.9	120
27	Multiple roles for lipids in the Hedgehog signalling pathway. Nature Reviews Molecular Cell Biology, 2008, 9, 437-445.	37.0	118
28	Planar cell polarization requires Widerborst, a Bâ€² regulatory subunit of protein phosphatase 2A. Development (Cambridge), 2002, 129, 3493-3503.	2.5	113
29	TissueMiner: A multiscale analysis toolkit to quantify how cellular processes create tissue dynamics. ELife, 2016, 5, .	6.0	111
30	Differential lateral and basal tension drive folding of Drosophila wing discs through two distinct mechanisms. Nature Communications, 2018, 9, 4620.	12.8	103
31	The Drosophila STE20-like kinase Misshapen is required downstream of the Frizzled receptor in planar polarity signaling. EMBO Journal, 1999, 18, 4669-4678.	7.8	98
32	Establishment of Global Patterns of Planar Polarity during Growth of the Drosophila Wing Epithelium. Current Biology, 2012, 22, 1296-1301.	3.9	98
33	Secretion and Signaling Activities of Lipoprotein-Associated Hedgehog and Non-Sterol-Modified Hedgehog in Flies and Mammals. PLoS Biology, 2013, 11, e1001505.	5.6	91
34	Production of systemically circulating Hedgehog by the intestine couples nutrition to growth and development. Genes and Development, 2014, 28, 2636-2651.	5.9	88
35	Megalin-dependent Yellow endocytosis restricts melanization in the Drosophila cuticle. Development (Cambridge), 2011, 138, 149-158.	2.5	87
36	Patched regulates Smoothened trafficking using lipoprotein-derived lipids. Development (Cambridge), 2009, 136, 4111-4121.	2.5	85

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37	Local Increases in Mechanical Tension Shape Compartment Boundaries by Biasing Cell Intercalations. Current Biology, 2014, 24, 1798-1805.	3.9	85
38	Lipoprotein Particles Cross the Bloodâ€"Brain Barrier in<i>Drosophila</i>. Journal of Neuroscience, 2010, 30, 10441-10447.	3.6	84
39	Cell dynamics underlying oriented growth of the<i>Drosophila</i>wing imaginal disc. Development (Cambridge), 2017, 144, 4406-4421.	2.5	84
40	Delivery of circulating lipoproteins to specific neurons in the Drosophila brain regulates systemic insulin signaling. ELife, 2014, 3, .	6.0	81
41	Retromer Retrieves Wntless. Developmental Cell, 2008, 14, 4-6.	7.0	80
42	Mitotic cells contract actomyosin cortex and generate pressure to round against or escape epithelial confinement. Nature Communications, 2015, 6, 8872.	12.8	79
43	Endocannabinoids are conserved inhibitors of the Hedgehog pathway. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3415-3420.	7.1	68
44	The Balance of Prickle/Spiny-Legs Isoforms Controls the Amount of Coupling between Core and Fat PCP Systems. Current Biology, 2014, 24, 2111-2123.	3.9	67
45	Lipoproteins and their receptors in embryonic development: more than cholesterol clearance. Development (Cambridge), 2007, 134, 3239-3249.	2.5	64
46	Release and trafficking of lipid-linked morphogens. Current Opinion in Genetics and Development, 2006, 16, 17-22.	3.3	62
47	A Temperature-Dependent Switch in Feeding Preference Improves Drosophila Development and Survival in the Cold. Developmental Cell, 2018, 46, 781-793.e4.	7.0	61
48	Cargo Sorting in the Endocytic Pathway: A Key Regulator of Cell Polarity and Tissue Dynamics. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016899-a016899.	5.5	60
49	The Ecdysteroidome of <i>Drosophila</i>: influence of diet and development. Development (Cambridge), 2015, 142, 3758-68.	2.5	59
50	Triangles bridge the scales: Quantifying cellular contributions to tissue deformation. Physical Review E, 2017, 95, 032401.	2.1	58
51	Cell flow and tissue polarity patterns. Current Opinion in Genetics and Development, 2011, 21, 747-752.	3.3	56
52	Cell biology of planar polarity transmission in the Drosophila wing. Mechanisms of Development, 2003, 120, 1257-1264.	1.7	53
53	Clustering and Negative Feedback by Endocytosis in Planar Cell Polarity Signaling Is Modulated by Ubiquitinylation of Prickle. PLoS Genetics, 2015, 11, e1005259.	3.5	51
54	Transcriptional Controlling Elements in the Immunoglobulin and T Cell Receptor Loci. Advances in Immunology, 1988, 43, 235-275.	2.2	49

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55	Imaging Drosophila Pupal Wing Morphogenesis. Methods in Molecular Biology, 2008, 420, 265-275.	0.9	46
56	A novel function for the Rab5 effector Rabenosyn-5 in planar cell polarity. Development (Cambridge), 2010, 137, 2353-2364.	2.5	44
57	Emergence of tissue shape changes from collective cell behaviours. Seminars in Cell and Developmental Biology, 2017, 67, 103-112.	5.0	43
58	Staccato/Unc-13-4 controls secretory lysosome-mediated lumen fusion during epithelial tubeÂanastomosis. Nature Cell Biology, 2016, 18, 727-739.	10.3	42
59	Changes in morphology and function of adrenal cortex in mice fed a high-fat diet. International Journal of Obesity, 2015, 39, 321-330.	3.4	41
60	Apico-basal cell compression regulates Lamin A/C levels in epithelial tissues. Nature Communications, 2021, 12, 1756.	12.8	40
61	Active dynamics of tissue shear flow. New Journal of Physics, 2017, 19, 033006.	2.9	39
62	PreMosa: extracting 2D surfaces from 3D microscopy mosaics. Bioinformatics, 2017, 33, 2563-2569.	4.1	34
63	Hedgehog Signaling Strength Is Orchestrated by the<i>mir-310</i>Cluster of MicroRNAs in Response to Diet. Genetics, 2016, 202, 1167-1183.	2.9	33
64	Self-organized patterning of cell morphology via mechanosensitive feedback. ELife, 2021, 10, .	6.0	31
65	Purified ÂµEBP-E Binds to Immunoglobulin Enhancers and Promoters. Molecular and Cellular Biology, 1988, 8, 4972-4980.	2.3	24
66	Wnt signal transduction: more than one way to skin a (Î²-)cat?. Trends in Cell Biology, 1996, 6, 287-290.	7.9	16
67	Microsomal triacylglycerol transfer protein (MTP) is required to expand tracheal lumen in <i>Drosophila</i> in a cell-autonomous manner. Journal of Cell Science, 2012, 125, 6038-6048.	2.0	16
68	Rabâ€mediated trafficking in the secondary cells of <i>Drosophila</i> male accessory glands and its role in fecundity. Traffic, 2019, 20, 137-151.	2.7	16
69	Glycolysis regulates Hedgehog signalling via the plasma membrane potential. EMBO Journal, 2020, 39, e101767.	7.8	15
70	Embryo morphogenesis: getting down to cells and molecules. Development (Cambridge), 2003, 130, 4229-4233.	2.5	14
71	Range of SHH signaling in adrenal gland is limited by membrane contact to cells with primary cilia. Journal of Cell Biology, 2020, 219, .	5.2	12
72	Lipid Discovery by Combinatorial Screening and Untargeted LC-MS/MS. Scientific Reports, 2016, 6, 27920.	3.3	10

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73	Lipoproteins and <scp>H</scp>edgehog signalling â€“ possible implications for the adrenal gland function. European Journal of Clinical Investigation, 2013, 43, 1178-1183.	3.4	6
74	A local insulin reservoir in Drosophila alpha cell homologs ensures developmental progression under nutrient shortage. Current Biology, 2022, 32, 1788-1797.e5.	3.9	6
75	RNAi in the Hedgehog Signaling Pathway: pFRiPE, a Vector for Temporally and Spatially Controlled RNAi in Drosophila. Methods in Molecular Biology, 2007, 397, 115-128.	0.9	5
76	Microsomal triacylglycerol transfer protein (MTP) is required to expand tracheal lumen in Drosophila in a cell-autonomous manner. Development (Cambridge), 2013, 140, e708-e708.	2.5	0
77	Transcriptional Regulation of Immunoglobulin Heavy Chain and T-Cell Receptor Beta Chain Genes. , 1989, 254, 77-86.		0