

Daniel St Johnston

List of Publications by Year in descending order

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124
papers

16,498
citations

16451

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122
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141
all docs

141
docs citations

141
times ranked

9625
citing authors

#	ARTICLE	IF	CITATIONS
1	The origin of pattern and polarity in the Drosophila embryo. <i>Cell</i> , 1992, 68, 201-219.	28.9	1,344
2	staufen, a gene required to localize maternal RNAs in the Drosophila egg. <i>Cell</i> , 1991, 66, 51-63.	28.9	596
3	The intracellular localization of messenger RNAs. <i>Cell</i> , 1995, 81, 161-170.	28.9	557
4	The art and design of genetic screens: Drosophila melanogaster. <i>Nature Reviews Genetics</i> , 2002, 3, 176-188.	16.8	555
5	A conserved double-stranded RNA-binding domain.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 10979-10983.	7.1	539
6	Moving messages: the intracellular localization of mRNAs. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 363-375.	37.0	495
7	Polarization of both major body axes in Drosophila by gurken-torpedo signalling. <i>Nature</i> , 1995, 375, 654-658.	27.8	475
8	Cell Polarity in Eggs and Epithelia: Parallels and Diversity. <i>Cell</i> , 2010, 141, 757-774.	28.9	430
9	Staufen protein associates with the 3' UTR of bicoid mRNA to form particles that move in a microtubule-dependent manner. <i>Cell</i> , 1994, 79, 1221-1232.	28.9	412
10	Drosophila PAR-1 and 14-3-3 Inhibit Bazooka/PAR-3 to Establish Complementary Cortical Domains in Polarized Cells. <i>Cell</i> , 2003, 115, 691-704.	28.9	383
11	RNA recognition by a Staufen double-stranded RNA-binding domain. <i>EMBO Journal</i> , 2000, 19, 997-1009.	7.8	331
12	An eIF4AIII-containing complex required for mRNA localization and nonsense-mediated mRNA decay. <i>Nature</i> , 2004, 427, 753-757.	27.8	327
13	In Vivo Imaging of oskar mRNA Transport Reveals the Mechanism of Posterior Localization. <i>Cell</i> , 2008, 134, 843-853.	28.9	315
14	A role for Drosophila LKB1 in anterior-posterior axis formation and epithelial polarity. <i>Nature</i> , 2003, 421, 379-384.	27.8	283
15	The Drosophila Homolog of C. elegans PAR-1 Organizes the Oocyte Cytoskeleton and Directs oskar mRNA Localization to the Posterior Pole. <i>Cell</i> , 2000, 101, 377-388.	28.9	282
16	aPKC Phosphorylation of Bazooka Defines the Apical/Lateral Border in Drosophila Epithelial Cells. <i>Cell</i> , 2010, 141, 509-523.	28.9	261
17	Delta signaling from the germ line controls the proliferation and differentiation of the somatic follicle cells during Drosophila oogenesis. <i>Genes and Development</i> , 2001, 15, 1393-1405.	5.9	253
18	The Origin of Asymmetry: Early Polarisation of the Drosophila Germline Cyst and Oocyte. <i>Current Biology</i> , 2004, 14, R438-R449.	3.9	249

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19	NMR solution structure of a dsRNA binding domain from <i>Drosophila</i> staufen protein reveals homology to the N-terminal domain of ribosomal protein S5.. <i>EMBO Journal</i> , 1995, 14, 3563-3571.	7.8	235
20	Miranda mediates asymmetric protein and RNA localization in the developing nervous system. <i>Genes and Development</i> , 1998, 12, 1847-1857.	5.9	226
21	<i>Drosophila</i> oogenesis. <i>Current Biology</i> , 2008, 18, R1082-R1087.	3.9	226
22	Multiple steps in the localization of <i>bicoid</i> RNA to the anterior pole of the <i>Drosophila</i> oocyte. <i>Development (Cambridge)</i> , 1989, 107, 13-19.	2.5	222
23	Distinct roles of two conserved Staufen domains in oskar mRNA localization and translation. <i>EMBO Journal</i> , 2000, 19, 1366-1377.	7.8	211
24	Polar Transport in the <i>Drosophila</i> Oocyte Requires Dynein and Kinesin I Cooperation. <i>Current Biology</i> , 2002, 12, 1971-1981.	3.9	205
25	<i>bicoid</i> RNA localization requires specific binding of an endosomal sorting complex. <i>Nature</i> , 2007, 445, 554-558.	27.8	199
26	The <i>Drosophila</i> AP axis is polarised by the cadherin-mediated positioning of the oocyte. <i>Development (Cambridge)</i> , 1998, 125, 3635-3644.	2.5	192
27	Getting the Message Across: The Intracellular Localization of mRNAs in Higher Eukaryotes. <i>Annual Review of Cell and Developmental Biology</i> , 2001, 17, 569-614.	9.4	189
28	The <i>mago nashi</i> gene is required for the polarisation of the oocyte and the formation of perpendicular axes in <i>Drosophila</i> . <i>Current Biology</i> , 1997, 7, 468-478.	3.9	185
29	LKB1 and AMPK maintain epithelial cell polarity under energetic stress. <i>Journal of Cell Biology</i> , 2007, 177, 387-392.	5.2	184
30	The polarisation of the anterior-posterior and dorsal-ventral axes during <i>Drosophila</i> oogenesis. <i>Current Opinion in Genetics and Development</i> , 1999, 9, 396-404.	3.3	178
31	Kinesin light chain-independent function of the Kinesin heavy chain in cytoplasmic streaming and posterior localisation in the <i>Drosophila</i> oocyte. <i>Development (Cambridge)</i> , 2002, 129, 5473-5485.	2.5	177
32	Seeing Is Believing. <i>Cell</i> , 2004, 116, 143-152.	28.9	164
33	aPKC Cycles between Functionally Distinct PAR Protein Assemblies to Drive Cell Polarity. <i>Developmental Cell</i> , 2017, 42, 400-415.e9.	7.0	162
34	Patterning of the follicle cell epithelium along the anterior-posterior axis during <i>Drosophila</i> oogenesis. <i>Development (Cambridge)</i> , 1998, 125, 2837-2846.	2.5	161
35	Analysis of the expression patterns, subcellular localisations and interaction partners of <i>Drosophila</i> proteins using a <i>pigP</i> protein trap library. <i>Development (Cambridge)</i> , 2014, 141, 3994-4005.	2.5	160
36	A translation-independent role of oskar RNA in early <i>Drosophila</i> oogenesis. <i>Development (Cambridge)</i> , 2006, 133, 2827-2833.	2.5	156

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37	Capu and Spire Assemble a Cytoplasmic Actin Mesh that Maintains Microtubule Organization in the <i>Drosophila</i> Oocyte. <i>Developmental Cell</i> , 2007, 13, 539-553.	7.0	148
38	A Conserved Oligomerization Domain in <i>Drosophila</i> Bazooka/PAR-3 Is Important for Apical Localization and Epithelial Polarity. <i>Current Biology</i> , 2003, 13, 1330-1334.	3.9	146
39	The role of PAR-1 in regulating the polarised microtubule cytoskeleton in the <i>Drosophila</i> follicular epithelium. <i>Development (Cambridge)</i> , 2003, 130, 3965-3975.	2.5	143
40	Patronin/Shot Cortical Foci Assemble the Noncentrosomal Microtubule Array that Specifies the <i>Drosophila</i> Anterior-Posterior Axis. <i>Developmental Cell</i> , 2016, 38, 61-72.	7.0	143
41	Oocyte determination and the origin of polarity in <i>Drosophila</i> the role of the spindle genes. <i>Development (Cambridge)</i> , 1997, 124, 4927-4937.	2.5	136
42	Growing Microtubules Push the Oocyte Nucleus to Polarize the <i>Drosophila</i> Dorsal-Ventral Axis. <i>Science</i> , 2012, 336, 999-1003.	12.6	133
43	Barentsz is essential for the posterior localization of oskar mRNA and colocalizes with it to the posterior pole. <i>Journal of Cell Biology</i> , 2001, 154, 511-524.	5.2	131
44	From Stem Cell to Embryo without Centrioles. <i>Current Biology</i> , 2007, 17, 1498-1503.	3.9	129
45	Epithelial polarity and morphogenesis. <i>Current Opinion in Cell Biology</i> , 2011, 23, 540-546.	5.4	128
46	<i>Drosophila</i> 14-3-3/PAR-5 Is an Essential Mediator of PAR-1 Function in Axis Formation. <i>Developmental Cell</i> , 2002, 3, 659-671.	7.0	127
47	<i>Drosophila</i> Nicastrin Is Essential for the Intramembranous Cleavage of Notch. <i>Developmental Cell</i> , 2002, 2, 79-89.	7.0	124
48	Role of oocyte position in establishment of anterior-posterior polarity in <i>Drosophila</i> . <i>Science</i> , 1994, 266, 639-642.	12.6	113
49	<i>Drosophila</i> follicle cells are patterned by multiple levels of Notch signaling and antagonism between the Notch and JAK/STAT pathways. <i>Development (Cambridge)</i> , 2007, 134, 1161-1169.	2.5	112
50	The role of BicD, egl, orb and the microtubules in the restriction of meiosis to the <i>Drosophila</i> oocyte. <i>Development (Cambridge)</i> , 2000, 127, 2785-2794.	2.5	110
51	Discs Large Links Spindle Orientation to Apical-Basal Polarity in <i>Drosophila</i> Epithelia. <i>Current Biology</i> , 2013, 23, 1707-1712.	3.9	106
52	NMR solution structure of a dsRNA binding domain from <i>Drosophila</i> staufer protein reveals homology to the N-terminal domain of ribosomal protein S5. <i>EMBO Journal</i> , 1995, 14, 3563-71.	7.8	103
53	Multiple steps in the localization of bicoid RNA to the anterior pole of the <i>Drosophila</i> oocyte. <i>Development (Cambridge)</i> , 1989, 107 Suppl, 13-9.	2.5	99
54	Cells' Perception of Position in a Concentration Gradient. <i>Cell</i> , 1998, 95, 159-162.	28.9	97

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55	The <i>Drosophila</i> hnRNPA/B Homolog, Hrp48, Is Specifically Required for a Distinct Step in <i>osk</i> mRNA Localization. <i>Developmental Cell</i> , 2004, 6, 625-635.	7.0	97
56	PAR-1 is required for the maintenance of oocyte fate in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2001, 128, 1201-1209.	2.5	97
57	A Notch/Delta-Dependent Relay Mechanism Establishes Anterior-Posterior Polarity in <i>Drosophila</i> . <i>Developmental Cell</i> , 2003, 5, 547-558.	7.0	96
58	An alternative mode of epithelial polarity in the <i>Drosophila</i> midgut. <i>PLoS Biology</i> , 2018, 16, e3000041.	5.6	96
59	Apical–basal polarity and the control of epithelial form and function. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 559-577.	37.0	94
60	An Oskar-Dependent Positive Feedback Loop Maintains the Polarity of the <i>Drosophila</i> Oocyte. <i>Current Biology</i> , 2007, 17, 353-359.	3.9	90
61	Bazooka and PAR-6 are required with PAR-1 for the maintenance of oocyte fate in <i>Drosophila</i> . <i>Current Biology</i> , 2001, 11, 901-906.	3.9	88
62	Barentsz, a New Component of the Staufen-Containing Ribonucleoprotein Particles in Mammalian Cells, Interacts with Staufen in an RNA-Dependent Manner. <i>Journal of Neuroscience</i> , 2003, 23, 5778-5788.	3.6	88
63	Centrosome migration into the <i>Drosophila</i> oocyte is independent of <i>BicD</i> and <i>egl</i> , and of the organisation of the microtubule cytoskeleton. <i>Development (Cambridge)</i> , 2001, 128, 1889-1897.	2.5	86
64	Spindle orientation: a question of complex positioning. <i>Development (Cambridge)</i> , 2017, 144, 1137-1145.	2.5	84
65	Bazooka is required for polarisation of the <i>Drosophila</i> anterior-posterior axis. <i>Development (Cambridge)</i> , 2010, 137, 1765-1773.	2.5	70
66	RNA localization and the development of asymmetry during <i>Drosophila</i> oogenesis. <i>Current Opinion in Genetics and Development</i> , 1996, 6, 395-402.	3.3	69
67	In Vivo Analysis of Proteomes and Interactomes Using Parallel Affinity Capture (iPAC) Coupled to Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.002386.	3.8	69
68	<i>Drosophila</i> Anterior-Posterior Polarity Requires Actin-Dependent PAR-1 Recruitment to the Oocyte Posterior. <i>Current Biology</i> , 2006, 16, 1090-1095.	3.9	68
69	A repeated IMP-binding motif controls <i>oskar</i> mRNA translation and anchoring independently of <i>Drosophila melanogaster</i> IMP. <i>Journal of Cell Biology</i> , 2006, 172, 577-588.	5.2	65
70	Lateral adhesion drives reintegration of misplaced cells into epithelial monolayers. <i>Nature Cell Biology</i> , 2015, 17, 1497-1503.	10.3	64
71	LKB1 regulates polarity remodeling and adherens junction formation in the <i>Drosophila</i> eye. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8941-8946.	7.1	62
72	The identification of novel genes required for <i>Drosophila</i> anterior-posterior axis formation in a germline clone screen using GFP-Staufen. <i>Development (Cambridge)</i> , 2003, 130, 4201-4215.	2.5	60

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73	The <i>Drosophila</i> AP axis is polarised by the cadherin-mediated positioning of the oocyte. <i>Development</i> (Cambridge), 1998, 125, 3635-44.	2.5	59
74	Oocyte determination and the origin of polarity in <i>Drosophila</i> : the role of the spindle genes. <i>Development</i> (Cambridge), 1997, 124, 4927-37.	2.5	54
75	MARK4 controls ischaemic heart failure through microtubule detyrosination. <i>Nature</i> , 2021, 594, 560-565.	27.8	52
76	<i>Drosophila</i> mus301/spindle-C Encodes a Helicase With an Essential Role in Double-Strand DNA Break Repair and Meiotic Progression. <i>Genetics</i> , 2006, 174, 1273-1285.	2.9	50
77	Patterning of the follicle cell epithelium along the anterior-posterior axis during <i>Drosophila</i> oogenesis. <i>Development</i> (Cambridge), 1998, 125, 2837-46.	2.5	50
78	Dimerization of the 3'UTR of bicoid mRNA involves a two-step mechanism. <i>Journal of Molecular Biology</i> , 2001, 313, 511-524.	4.2	48
79	Epithelial polarity and spindle orientation: intersecting pathways. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130291.	4.0	48
80	Cortical microtubule nucleation can organise the cytoskeleton of <i>Drosophila</i> oocytes to define the anteroposterior axis. <i>ELife</i> , 2015, 4, .	6.0	47
81	The role of BicD, Egl, Orb and the microtubules in the restriction of meiosis to the <i>Drosophila</i> oocyte. <i>Development</i> (Cambridge), 2000, 127, 2785-94.	2.5	46
82	PAR-1 is required for the maintenance of oocyte fate in <i>Drosophila</i> . <i>Development</i> (Cambridge), 2001, 128, 1201-9.	2.5	39
83	Pattern formation in single cells. <i>Trends in Cell Biology</i> , 1999, 9, M60-M64.	7.9	38
84	bicoid mRNA localises to the <i>Drosophila</i> oocyte anterior by random Dynein-mediated transport and anchoring. <i>ELife</i> , 2016, 5, .	6.0	38
85	A rapid method to map mutations in <i>Drosophila</i> . <i>Genome Biology</i> , 2001, 2, research0036.1.	9.6	36
86	Anterior-Posterior Axis Specification in <i>Drosophila</i> Oocytes: Identification of Novel bicoid and oskar mRNA Localization Factors. <i>Genetics</i> , 2011, 188, 883-896.	2.9	36
87	Using mutants, knockdowns, and transgenesis to investigate gene function in <i>Drosophila</i> . <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2013, 2, 587-613.	5.9	36
88	Establishing and transducing cell polarity: common themes and variations. <i>Current Opinion in Cell Biology</i> , 2018, 51, 33-41.	5.4	35
89	Centrosome migration into the <i>Drosophila</i> oocyte is independent of BicD and egl, and of the organisation of the microtubule cytoskeleton. <i>Development</i> (Cambridge), 2001, 128, 1889-97.	2.5	34
90	Spindle orientation: What if it goes wrong?. <i>Seminars in Cell and Developmental Biology</i> , 2014, 34, 140-145.	5.0	33

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91	Pins is not required for spindle orientation in the <i>Drosophila</i> wing disc. <i>Development</i> (Cambridge), 2016, 143, 2573-81.	2.5	32
92	Damage to the <i>Drosophila</i> follicle cell epithelium produces "false clones" with apparent polarity phenotypes. <i>Biology Open</i> , 2013, 2, 1313-1320.	1.2	31
93	Capicua integrates input from two maternal systems in <i>Drosophila</i> terminal patterning. <i>EMBO Journal</i> , 2004, 23, 4571-4582.	7.8	27
94	The Renaissance of Developmental Biology. <i>PLoS Biology</i> , 2015, 13, e1002149.	5.6	26
95	Symmetry breaking in the female germline cyst. <i>Science</i> , 2021, 374, 874-879.	12.6	25
96	Miranda couples oskar mRNA/Staufen complexes to the bicoid mRNA localization pathway. <i>Developmental Biology</i> , 2006, 297, 522-533.	2.0	23
97	Dgp71WD is required for the assembly of the acentrosomal Meiosis I spindle, and is not a general targeting factor for the \hat{I}^3 -TuRC. <i>Biology Open</i> , 2012, 1, 422-429.	1.2	23
98	Staufen targets coracle mRNA to <i>Drosophila</i> neuromuscular junctions and regulates GluRIIA synaptic accumulation and bouton number. <i>Developmental Biology</i> , 2014, 392, 153-167.	2.0	22
99	Oskar Is Targeted for Degradation by the Sequential Action of Par-1, GSK-3, and the SCF-Slimb Ubiquitin Ligase. <i>Developmental Cell</i> , 2013, 26, 303-314.	7.0	21
100	A decade of molecular cell biology: achievements and challenges. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 669-674.	37.0	20
101	The Flannnotator" a gene and protein expression annotation tool for <i>Drosophila melanogaster</i> . <i>Bioinformatics</i> , 2009, 25, 548-549.	4.1	19
102	Epithelial cell polarity: what flies can teach us about cancer. <i>Essays in Biochemistry</i> , 2012, 53, 129-140.	4.7	19
103	Slimb antagonises the aPKC/Par-6 complex to control oocyte and epithelial polarity. <i>Development</i> (Cambridge), 2014, 141, 2984-2992.	2.5	19
104	The role of integrins in <i>Drosophila</i> egg chamber morphogenesis. <i>Development</i> (Cambridge), 2019, 146, .	2.5	17
105	Using the mRNA-MS2/MS2CP-FP System to Study mRNA Transport During <i>Drosophila</i> Oogenesis. <i>Methods in Molecular Biology</i> , 2011, 714, 265-283.	0.9	15
106	The <i>Drosophila</i> anterior-posterior axis is polarized by asymmetric myosin activation. <i>Current Biology</i> , 2022, 32, 374-385.e4.	3.9	15
107	Localised dynactin protects growing microtubules to deliver oskar mRNA to the posterior cortex of the <i>Drosophila</i> oocyte. <i>ELife</i> , 2017, 6, .	6.0	14
108	RhoGAP19D inhibits Cdc42 laterally to control epithelial cell shape and prevent invasion. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	10

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109	A single-molecule localization microscopy method for tissues reveals nonrandom nuclear pore distribution in <i>Drosophila</i> . <i>Journal of Cell Science</i> , 2021, 134, .	2.0	10
110	Cell Polarity: Posterior Par-1 Prevents Proteolysis. <i>Current Biology</i> , 2002, 12, R479-R481.	3.9	9
111	Egalitarian recruitment of localized mRNAs: Figure 1.. <i>Genes and Development</i> , 2009, 23, 1475-1480.	5.9	9
112	Oogenesis: Matrix Revolutions. <i>Current Biology</i> , 2011, 21, R231-R233.	3.9	9
113	MEDAL REVIEW: The beginning of the end. <i>EMBO Journal</i> , 2001, 20, 6169-6179.	7.8	8
114	A novel mutant phenotype implicates <i>diccephalic</i> in cyst formation in the <i>Drosophila</i> ovary. <i>Developmental Dynamics</i> , 2006, 235, 908-917.	1.8	8
115	RNA Localization: Getting to the Top. <i>Current Biology</i> , 1994, 4, 54-56.	3.9	6
116	Wherefore <i>DMM</i> ?. <i>DMM Disease Models and Mechanisms</i> , 2008, 1, 6-7.	2.4	6
117	<i>Drosophila</i> <i>IMP</i> regulates <i>Kuzbanian</i> to control the timing of Notch signalling in the follicle cells. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	6
118	Going with the Flow: An Elegant Model for Symmetry Breaking. <i>Developmental Cell</i> , 2011, 21, 981-982.	7.0	4
119	New role for tropomyosin. <i>Nature</i> , 1995, 377, 483-483.	27.8	3
120	Pattern formation in single cells. <i>Trends in Biochemical Sciences</i> , 1999, 24, M60-M64.	7.5	3
121	Dissection, Fixation, and Immunostaining of the <i>Drosophila</i> Midgut. <i>Methods in Molecular Biology</i> , 2022, 2438, 309-321.	0.9	2
122	Epithelial Cell Polarity During <i>Drosophila</i> Midgut Development. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	2
123	Counting Motors by Force. <i>Cell</i> , 2008, 135, 1000-1001.	28.9	1
124	Pattern formation in single cells. <i>Trends in Genetics</i> , 1999, 15, M60-M64.	6.7	0