David Strutt

List of Publications by Year
in descending order

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71 papers	6,441 citations	94433 37 h-index	88630 70 g-index
102 all docs	102 docs citations	102 times ranked	3649 citing authors

#	Article	IF	Citations
1	Dishevelled Activates JNK and Discriminates between JNK Pathways in Planar Polarity and wingless Signaling. Cell, 1998, 94, 109-118.	28.9	730
2	The role of RhoA in tissue polarity and Frizzled signalling. Nature, 1997, 387, 292-295.	27.8	520
3	Principles of planar polarity in animal development. Development (Cambridge), 2011, 138, 1877-1892.	2.5	493
4	Asymmetric Localization of Frizzled and the Establishment of Cell Polarity in the Drosophila Wing. Molecular Cell, 2001, 7, 367-375.	9.7	297
5	Strabismus is asymmetrically localised and binds to Prickle and Dishevelled duringDrosophilaplanar polarity patterning. Development (Cambridge), 2003, 130, 3007-3014.	2.5	285
6	Polarized Transport of Frizzled along the Planar Microtubule Arrays in Drosophila Wing Epithelium. Developmental Cell, 2006, 10, 209-222.	7.0	262
7	Frizzled signalling and cell polarisation in Drosophila and vertebrates. Development (Cambridge), 2003, 130, 4501-4513.	2.5	212
8	Targets of homeotic gene control in Drosophila. Nature, 1990, 348, 308-312.	27.8	169
9	Nuclear signaling by Rac and Rho GTPases is required in the establishment of epithelial planar polarity in the Drosophila eye. Current Biology, 2000, 10, 979-S1.	3.9	168
10	Nonautonomous Planar Polarity Patterning in Drosophila. Developmental Cell, 2002, 3, 851-863.	7.0	165
11	Polarity determination in the Drosophila eye: a novel role for Unpaired and JAK/STAT signaling. Genes and Development, 1999, 13, 1342-1353.	5.9	149
12	Asymmetric Localization of Frizzled and the Determination of Notch-Dependent Cell Fate in the Drosophila Eye. Current Biology, 2002, 12, 813-824.	3.9	146
13	Differential Stability of Flamingo Protein Complexes Underlies the Establishment of Planar Polarity. Current Biology, 2008, 18, 1555-1564.	3.9	143
14	Four-Jointed Modulates Growth and Planar Polarity by Reducing the Affinity of Dachsous for Fat. Current Biology, 2010, 20, 803-810.	3.9	132
15	Planar Polarity Specification through Asymmetric Subcellular Localization of Fat and Dachsous. Current Biology, 2012, 22, 907-914.	3.9	128
16	Regulation of furrow progression in the Drosophila eye by cAMP-dependent protein kinase A. Nature, 1995, 373, 705-709.	27.8	127
17	Asymmetric localisation of planar polarity proteins: Mechanisms and consequences. Seminars in Cell and Developmental Biology, 2009, 20, 957-963.	5.0	127
18	The four-jointed gene is required in the Drosophila eye for ommatidial polarity specification. Current Biology, 1999, 9, 1363-1372.	3.9	126

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19	Multiple Roles for four-jointed in Planar Polarity and Limb Patterning. Developmental Biology, 2000, 228, 181-196.	2.0	124
20	Dynamics of Core Planar Polarity Protein Turnover and Stable Assembly into Discrete Membrane Subdomains. Developmental Cell, 2011, 20, 511-525.	7.0	115
21	Differential activities of the core planar polarity proteins during Drosophila wing patterning. Developmental Biology, 2007, 302, 181-194.	2.0	100
22	An intracellular partitioning-based framework for tissue cell polarity in plants and animals. Development (Cambridge), 2013, 140, 2061-2074.	2.5	98
23	Planar Polarity Is Positively Regulated by Casein Kinase IÉ› in Drosophila. Current Biology, 2006, 16, 1329-1336.	3.9	92
24	The roles of the cadherins Fat and Dachsous in planar polarity specification in Drosophila. Developmental Dynamics, 2012, 241, 27-39.	1.8	90
25	The asymmetric subcellular localisation of components of the planar polarity pathway. Seminars in Cell and Developmental Biology, 2002, 13, 225-231.	5.0	87
26	The planar polarity pathway promotes coordinated cell migration duringDrosophilaoogenesis. Development (Cambridge), 2007, 134, 3055-3064.	2.5	84
27	Cleavage and secretion is not required for Four-jointed function in Drosophila patterning. Development (Cambridge), 2004, 131, 881-890.	2.5	82
28	Polarity determination in the Drosophila eye. Current Opinion in Genetics and Development, 1999, 9, 442-446.	3.3	80
29	The Frizzled-dependent planar polarity pathway locally promotes E-cadherin turnover via recruitment of RhoGEF2. Development (Cambridge), 2013, 140, 1045-1054.	2.5	80
30	Long-range coordination of planar polarity inDrosophila. BioEssays, 2005, 27, 1218-1227.	2.5	78
31	Planar polarity genes in theDrosophilawing regulate the localisation of the FH3-domain protein Multiple Wing Hairs to control the site of hair production. Development (Cambridge), 2008, 135, 3103-3111.	2.5	65
32	EGF Signaling and Ommatidial Rotation in the Drosophila Eye. Current Biology, 2003, 13, 1451-1457.	3.9	60
33	Conservation of Planar Polarity Pathway Function Across the Animal Kingdom. Annual Review of Genetics, 2015, 49, 529-551.	7.6	55
34	Robust Wnt signaling is maintained by a Wg protein gradient and Fz2 receptor activity in the developing Drosophila wing. Development (Cambridge), 2019, 146, .	2.5	51
35	Cellular interpretation of the long-range gradient of Four-jointed activity in the Drosophila wing. ELife, 2015, 4, .	6.0	49
36	The planar polarity pathway. Current Biology, 2008, 18, R898-R902.	3.9	48

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37	Robust Asymmetric Localization of Planar Polarity Proteins Is Associated with Organization into Signalosome-like Domains of Variable Stoichiometry. Cell Reports, 2016, 17, 2660-2671.	6.4	48
38	A Cul-3-BTB ubiquitylation pathway regulates junctional levels and asymmetry of core planar polarity proteins. Development (Cambridge), 2013, 140, 1693-1702.	2.5	46
39	Microcephalin coordinates mitosis in the syncytialDrosophilaembryo. Journal of Cell Science, 2007, 120, 3578-3588.	2.0	39
40	Gradients and the Specification of Planar Polarity in the Insect Cuticle. Cold Spring Harbor Perspectives in Biology, 2009, 1, a000489-a000489.	5.5	38
41	Strabismus Promotes Recruitment and Degradation of Farnesylated Prickle in Drosophila melanogaster Planar Polarity Specification. PLoS Genetics, 2013, 9, e1003654.	3.5	37
42	A Dual Function for Prickle in Regulating Frizzled Stability during Feedback-Dependent Amplification of Planar Polarity. Current Biology, 2017, 27, 2784-2797.e3.	3.9	33
43	Planar Cell Polarity Effector Proteins Inturned and Fuzzy Form a Rab23 GEF Complex. Current Biology, 2019, 29, 3323-3330.e8.	3.9	33
44	Molecular mechanisms mediating asymmetric subcellular localisation of the core planar polarity pathway proteins. Biochemical Society Transactions, 2020, 48, 1297-1308.	3.4	30
45	Control of tissue morphology by Fasciclin III-mediated intercellular adhesion. Development (Cambridge), 2013, 140, 3858-3868.	2.5	29
46	Localised JAK/STAT Pathway Activation Is Required for Drosophila Wing Hinge Development. PLoS ONE, 2013, 8, e65076.	2.5	28
47	The regulation of hedgehog and decapentaplegic during Drosophila eye imaginal disc development. Mechanisms of Development, 1996, 58, 39-50.	1.7	27
48	How do the Fatâ€“Dachsous and core planar polarity pathways act together and independently to coordinate polarized cell behaviours?. Open Biology, 2021, 11, 200356.	3.6	26
49	Reciprocal action of Casein Kinase Iĵµ on core planar polarity proteins regulates clustering and asymmetric localisation. ELife, 2019, 8, .	6.0	24
50	Characterisation of T48, a target of homeotic gene regulation in Drosophila embryogenesis. Mechanisms of Development, 1994, 46, 27-39.	1.7	20
51	Planar polarity: Getting ready to ROCK. Current Biology, 2001, 11, R506-R509.	3.9	18
52	Rabaptin-5 and Rabex-5 are neoplastic tumour suppressor genes that interact to modulate Rab5 dynamics in Drosophila melanogaster. Developmental Biology, 2014, 385, 107-121.	2.0	18
53	Organ Shape: Controlling Oriented Cell Division. Current Biology, 2005, 15, R758-R759.	3.9	16
54	Retromer Controls Planar Polarity Protein Levels and Asymmetric Localization at Intercellular Junctions. Current Biology, 2019, 29, 484-491.e6.	3.9	16

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55	Structureâ€“Function Dissection of the Frizzled Receptor in Drosophila melanogaster Suggests Different Mechanisms of Action in Planar Polarity and Canonical Wnt Signaling. Genetics, 2012, 192, 1295-1313.	2.9	14
56	A theoretical framework for planar polarity establishment through interpretation of graded cues by molecular bridges. Development (Cambridge), 2019, 146, .	2.5	13
57	QuantifyPolarity, a new tool-kit for measuring planar polarized protein distributions and cell properties in developing tissues. Development (Cambridge), 2021, 148, .	2.5	11
58	Adhesion GPCRs Govern Polarity of Epithelia and Cell Migration. Handbook of Experimental Pharmacology, 2016, 234, 249-274.	1.8	9
59	Planar Polarity: Photoreceptors on a High Fat Diet. Current Biology, 2002, 12, R384-R385.	3.9	8
60	Planar cell polarity: the Dachsous/Fat system contributes differently to the embryonic and larval stages ofDrosophila. Biology Open, 2016, 5, 397-408.	1.2	7
61	Rapid Disruption of Dishevelled Activity Uncovers an Intercellular Role in Maintenance of Prickle in Core Planar Polarity Protein Complexes. Cell Reports, 2018, 25, 1415-1424.e6.	6.4	7
62	Integrating planar polarity and tissue mechanics in computational models of epithelial morphogenesis. Current Opinion in Systems Biology, 2017, 5, 41-49.	2.6	5
63	Experimental and Theoretical Evidence for Bidirectional Signaling via Core Planar Polarity Protein Complexes in Drosophila. IScience, 2019, 17, 49-66.	4.1	5
64	DAnkrd49 and Bdbt act via Casein kinase Ιμ to regulate planar polarity in Drosophila. PLoS Genetics, 2020, 16, e1008820.	3.5	4
65	Use of Fluorescence Recovery After Photobleaching (FRAP) to Measure In Vivo Dynamics of Cell Junctionâ€“Associated Polarity Proteins. Methods in Molecular Biology, 2022, 2438, 1-30.	0.9	4
66	Selective function of the PDZ domain of Dishevelled in noncanonical Wnt signalling. Journal of Cell Science, 2022, 135, .	2.0	3
67	Longâ€range coordination of planar polarity patterning in Drosophila. Advances in Developmental Biology (Amsterdam, Netherlands), 2005, 14, 39-57.	0.4	1
68	Mathematical Modeling of Planar Polarity. Developmental Cell, 2005, 8, 134-136.	7.0	1
69	Frizzled Signaling: Gΐ± _o and Rab5 at the Crossroads of the Canonical and PCP Pathways?. Science Signaling, 2010, 3, pe43.	3.6	1
70	Planar Polarity: Forcing Cells Into Line. Current Biology, 2015, 25, R1032-R1034.	3.9	1
71	The Frizzled-dependent planar polarity pathway locally promotes E-cadherin turnover via recruitment of RhoGEF2. Journal of Cell Science, 2013, 126, e1-e1.	2.0	0