

Kenneth D Irvine

List of Publications by Year in descending order

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100
papers

12,988
citations

18436

62
h-index

37111

96
g-index

104
all docs

104
docs citations

104
times ranked

9650
citing authors

#	ARTICLE	IF	CITATIONS
1	Fringe is a glycosyltransferase that modifies Notch. <i>Nature</i> , 2000, 406, 369-375.	13.7	792
2	Glycosylation regulates Notch signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 786-797.	16.1	573
3	Fringe modulates Notch ligand interactions. <i>Nature</i> , 1997, 387, 908-912.	13.7	569
4	Delineation of a Fat tumor suppressor pathway. <i>Nature Genetics</i> , 2006, 38, 1142-1150.	9.4	396
5	In vivo regulation of Yorkie phosphorylation and localization. <i>Development (Cambridge)</i> , 2008, 135, 1081-1088.	1.2	362
6	Regulation of Notch Signaling by O-Linked Fucose. <i>Cell</i> , 2002, 111, 893-904.	13.5	356
7	fringe, a boundary-specific signaling molecule, mediates interactions between dorsal and ventral cells during <i>Drosophila</i> wing development. <i>Cell</i> , 1994, 79, 595-606.	13.5	333
8	The Hippo Signaling Network and Its Biological Functions. <i>Annual Review of Genetics</i> , 2018, 52, 65-87.	3.2	316
9	Cytoskeletal Tension Inhibits Hippo Signaling through an Ajuba-Warts Complex. <i>Cell</i> , 2014, 158, 143-156.	13.5	306
10	Cell recognition, signal induction, and symmetrical gene activation at the dorsal-ventral boundary of the developing <i>drosophila</i> wing. <i>Cell</i> , 1995, 82, 795-802.	13.5	259
11	Regulation of Hippo Signaling by EGFR-MAPK Signaling through Ajuba Family Proteins. <i>Developmental Cell</i> , 2013, 24, 459-471.	3.1	242
12	Warts and Yorkie Mediate Intestinal Regeneration by Influencing Stem Cell Proliferation. <i>Current Biology</i> , 2010, 20, 1580-1587.	1.8	241
13	Morphogen Control of Wing Growth through the Fat Signaling Pathway. <i>Developmental Cell</i> , 2008, 15, 309-321.	3.1	232
14	Boundaries in Development: Formation and Function. <i>Annual Review of Cell and Developmental Biology</i> , 2001, 17, 189-214.	4.0	229
15	Four-jointed Is a Golgi Kinase That Phosphorylates a Subset of Cadherin Domains. <i>Science</i> , 2008, 321, 401-404.	6.0	226
16	Chaperone Activity of Protein O-Fucosyltransferase 1 Promotes Notch Receptor Folding. <i>Science</i> , 2005, 307, 1599-1603.	6.0	223
17	Hippo signaling in <i>Drosophila</i> : Recent advances and insights. <i>Developmental Dynamics</i> , 2012, 241, 3-15.	0.8	219
18	Dorsal-Ventral Signaling in the <i>Drosophila</i> Eye. , 1998, 281, 2031-2034.		216

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19	Regulation of Hippo signaling by Jun kinase signaling during compensatory cell proliferation and regeneration, and in neoplastic tumors. <i>Developmental Biology</i> , 2011, 350, 139-151.	0.9	205
20	Regulation of Cell Proliferation by a Morphogen Gradient. <i>Cell</i> , 2005, 123, 449-461.	13.5	202
21	Dachs: an unconventional myosin that functions downstream of Fat to regulate growth, affinity and gene expression in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2006, 133, 2539-2551.	1.2	200
22	Regulation of YAP by Mechanical Strain through Jnk and Hippo Signaling. <i>Current Biology</i> , 2014, 24, 2012-2017.	1.8	195
23	Fringe, Notch, and making developmental boundaries. <i>Current Opinion in Genetics and Development</i> , 1999, 9, 434-441.	1.5	185
24	Contributions of chaperone and glycosyltransferase activities of O-fucosyltransferase 1 to Notch signaling. <i>BMC Biology</i> , 2008, 6, 1.	1.7	179
25	Modulation of Notch-Ligand Binding by Protein O-Fucosyltransferase 1 and Fringe. <i>Journal of Biological Chemistry</i> , 2003, 278, 42340-42345.	1.6	178
26	The Fat and Warts signaling pathways: new insights into their regulation, mechanism and conservation. <i>Development (Cambridge)</i> , 2008, 135, 2827-2838.	1.2	174
27	Characterization of a <i>Dchs1</i> mutant mouse reveals requirements for <i>Dchs1</i> - <i>Fat4</i> signaling during mammalian development. <i>Development (Cambridge)</i> , 2011, 138, 947-957.	1.2	172
28	Notch-Mediated Segmentation and Growth Control of the <i>Drosophila</i> Leg. <i>Developmental Biology</i> , 1999, 210, 339-350.	0.9	168
29	Notch Ligands Are Substrates for Protein O-Fucosyltransferase-1 and Fringe. <i>Journal of Biological Chemistry</i> , 2002, 277, 29945-29952.	1.6	151
30	Mutations in <i>DCHS1</i> cause mitral valve prolapse. <i>Nature</i> , 2015, 525, 109-113.	13.7	150
31	Zyxin Links Fat Signaling to the Hippo Pathway. <i>PLoS Biology</i> , 2011, 9, e1000624.	2.6	145
32	Action of fat, four-jointed, dachsous and dachs in distal-to-proximal wing signaling. <i>Development (Cambridge)</i> , 2004, 131, 4489-4500.	1.2	142
33	The Raine Syndrome Protein FAM20C Is a Golgi Kinase That Phosphorylates Bio-Mineralization Proteins. <i>PLoS ONE</i> , 2012, 7, e42988.	1.1	141
34	Influence of Fat-Hippo and Notch signaling on the proliferation and differentiation of <i>Drosophila</i> optic neuroepithelia. <i>Development (Cambridge)</i> , 2010, 137, 2397-2408.	1.2	137
35	Cooperative Regulation of Growth by Yorkie and Mad through bantam. <i>Developmental Cell</i> , 2011, 20, 109-122.	3.1	137
36	Yorkie: the final destination of Hippo signaling. <i>Trends in Cell Biology</i> , 2010, 20, 410-417.	3.6	136

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37	Ajuba Family Proteins Link JNK to Hippo Signaling. <i>Science Signaling</i> , 2013, 6, ra81.	1.6	136
38	Dorsal-ventral signaling in limb development. <i>Current Opinion in Cell Biology</i> , 1997, 9, 867-876.	2.6	135
39	Modulation of Fat/Dachsous Binding by the Cadherin Domain Kinase Four-Jointed. <i>Current Biology</i> , 2010, 20, 811-817.	1.8	132
40	Genome-wide Association of Yorkie with Chromatin and Chromatin-Remodeling Complexes. <i>Cell Reports</i> , 2013, 3, 309-318.	2.9	126
41	Differential growth triggers mechanical feedback that elevates Hippo signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6974-E6983.	3.3	124
42	Fat and Expanded act in parallel to regulate growth through Warts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20362-20367.	3.3	123
43	Cellular Organization and Cytoskeletal Regulation of the Hippo Signaling Network. <i>Trends in Cell Biology</i> , 2016, 26, 694-704.	3.6	123
44	Localization and requirement for Myosin II at the dorsal-ventral compartment boundary of the <i>Drosophila</i> wing. <i>Developmental Dynamics</i> , 2006, 235, 3051-3058.	0.8	122
45	Functional Characterization of <i>Drosophila</i> Sialyltransferase. <i>Journal of Biological Chemistry</i> , 2004, 279, 4346-4357.	1.6	111
46	Influence of Notch on dorsoventral compartmentalization and actin organization in the <i>Drosophila</i> wing. <i>Development (Cambridge)</i> , 2005, 132, 3823-3833.	1.2	102
47	Phosphorylation-independent repression of Yorkie in Fat-Hippo signaling. <i>Developmental Biology</i> , 2009, 335, 188-197.	0.9	100
48	Control of Organ Growth by Patterning and Hippo Signaling in <i>Drosophila</i> . <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a019224.	2.3	100
49	Fringe-dependent separation of dorsal and ventral cells in the <i>Drosophila</i> wing. <i>Nature</i> , 1999, 401, 476-480.	13.7	98
50	Propagation of Dachsous-Fat Planar Cell Polarity. <i>Current Biology</i> , 2012, 22, 1302-1308.	1.8	98
51	<i>fringe</i> and <i>Notch</i> specify polar cell fate during <i>Drosophila</i> oogenesis. <i>Development (Cambridge)</i> , 2001, 128, 2243-2253.	1.2	98
52	Mechanical control of growth: ideas, facts and challenges. <i>Development (Cambridge)</i> , 2017, 144, 4238-4248.	1.2	92
53	Processing and phosphorylation of the Fat receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11989-11994.	3.3	89
54	Regulation of Neuronal Migration by Dchs1-Fat4 Planar Cell Polarity. <i>Current Biology</i> , 2014, 24, 1620-1627.	1.8	89

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55	In Vitro Reconstitution of the Modulation of Drosophila Notch-Ligand Binding by Fringe. <i>Journal of Biological Chemistry</i> , 2007, 282, 35153-35162.	1.6	85
56	Integration of Hippo-YAP Signaling with Metabolism. <i>Developmental Cell</i> , 2020, 54, 256-267.	3.1	84
57	Role of conserved sequence elements 9L and 2 in self-splicing of the Tetrahymena ribosomal RNA precursor. <i>Cell</i> , 1986, 45, 167-176.	13.5	82
58	Tension-dependent regulation of mammalian Hippo signaling through LIMD1. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	82
59	Localization of Hippo signalling complexes and Warts activation in vivo. <i>Nature Communications</i> , 2015, 6, 8402.	5.8	79
60	Integration of intercellular signaling through the Hippo pathway. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 812-817.	2.3	78
61	Modulators of Notch signaling. <i>Seminars in Cell and Developmental Biology</i> , 1998, 9, 609-617.	2.3	71
62	Functional analysis of Drosophila β 1,4-N-acetylgalactosaminyltransferases. <i>Glycobiology</i> , 2005, 15, 335-346.	1.3	71
63	Organizer activity of the polar cells during <i>Drosophila</i> oogenesis. <i>Development (Cambridge)</i> , 2002, 129, 5131-5140.	1.2	69
64	Regions of Drosophila Notch That Contribute to Ligand Binding and the Modulatory Influence of Fringe. <i>Journal of Biological Chemistry</i> , 2005, 280, 30158-30165.	1.6	68
65	Yorkie Promotes Transcription by Recruiting a Histone Methyltransferase Complex. <i>Cell Reports</i> , 2014, 8, 449-459.	2.9	66
66	Roles for scalloped and vestigial in Regulating Cell Affinity and Interactions between the Wing Blade and the Wing Hinge. <i>Developmental Biology</i> , 2000, 228, 287-303.	0.9	64
67	Control of Growth During Regeneration. <i>Current Topics in Developmental Biology</i> , 2014, 108, 95-120.	1.0	61
68	A Fat4-Dchs1 signal between stromal and cap mesenchyme cells influences nephrogenesis and ureteric bud branching. <i>Development (Cambridge)</i> , 2015, 142, 2574-85.	1.2	61
69	<i>Drosophila lowfat</i> , a novel modulator of Fat signaling. <i>Development (Cambridge)</i> , 2009, 136, 3223-3233.	1.2	59
70	Regulation of <i>Drosophila</i> glial cell proliferation by Merlin-Hippo signaling. <i>Development (Cambridge)</i> , 2011, 138, 5201-5212.	1.2	59
71	<i>Drosophila</i> as a model for understanding development and disease. <i>Developmental Dynamics</i> , 2012, 241, 1-2.	0.8	49
72	Signal transduction by the Fat cytoplasmic domain. <i>Development (Cambridge)</i> , 2013, 140, 831-842.	1.2	48

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73	Molecular genetic analysis of the glycosyltransferase Fringe in <i>Drosophila</i> . Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6404-6409.	3.3	47
74	The dynamics of hippo signaling during <i>Drosophila</i> wing development. Development (Cambridge), 2018, 145, .	1.2	45
75	Identification of a <i>Drosophila</i> Gene Encoding Xylosylprotein Î²4-Galactosyltransferase That Is Essential for the Synthesis of Glycosaminoglycans and for Morphogenesis. Journal of Biological Chemistry, 2002, 277, 46280-46288.	1.6	43
76	An evolutionarily conserved negative feedback mechanism in the Hippo pathway reflects functional difference between LATS1 and LATS2. Oncotarget, 2016, 7, 24063-24075.	0.8	42
77	Taking Stock of the <i>Drosophila</i> Research Ecosystem. Genetics, 2017, 206, 1227-1236.	1.2	41
78	Organization and function of tension-dependent complexes at adherens junctions. Journal of Cell Science, 2019, 132, .	1.2	40
79	Recruitment of Jub by Î±-catenin promotes Yki activity and <i>Drosophila</i> wing growth. Journal of Cell Science, 2019, 132, .	1.2	39
80	Requirement for a core 1 galactosyltransferase in the <i>Drosophila</i> nervous system. Developmental Dynamics, 2008, 237, 3703-3714.	0.8	36
81	Coordination of planar cell polarity pathways through Spiny-legs. ELife, 2015, 4, .	2.8	35
82	Notch activity in neural cells triggered by a mutant allele with altered glycosylation. Development (Cambridge), 2003, 130, 2829-2840.	1.2	34
83	Dchs1â€™Fat4 regulation of polarized cell behaviours during skeletal morphogenesis. Nature Communications, 2016, 7, 11469.	5.8	34
84	The wing imaginal disc. Genetics, 2022, 220, .	1.2	34
85	Collective polarization model for gradient sensing via Dachshous-Fat intercellular signaling. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20420-20425.	3.3	31
86	Hippo Signaling Goes Long Range. Cell, 2012, 150, 669-670.	13.5	25
87	Oriented Cell Divisions Are Not Required for <i>Drosophila</i> Wing Shape. Current Biology, 2019, 29, 856-864.e3.	1.8	24
88	Vamana Couples Fat Signaling to the Hippo Pathway. Developmental Cell, 2016, 39, 254-266.	3.1	22
89	Fat4-Dchs1 signalling controls cell proliferation in developing vertebrae. Development (Cambridge), 2016, 143, 2367-2375.	1.2	21
90	Dchs1-Fat4 regulation of osteogenic differentiation in mouse. Development (Cambridge), 2019, 146, .	1.2	17

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91	Role and regulation of Yap in KrasG12D-induced lung cancer. <i>Oncotarget</i> , 2017, 8, 110877-110889.	0.8	14
92	A Notch Sweetener. <i>Cell</i> , 2008, 132, 177-179.	13.5	11
93	Early girl is a novel component of the Fat signaling pathway. <i>PLoS Genetics</i> , 2019, 15, e1007955.	1.5	8
94	TRIP6 is required for tension at adherens junctions. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	8
95	Localization of Hippo Signaling Components in <i>Drosophila</i> by Fluorescence and Immunofluorescence. <i>Methods in Molecular Biology</i> , 2019, 1893, 61-73.	0.4	6
96	Rapping about Mechanotransduction. <i>Developmental Cell</i> , 2018, 46, 678-679.	3.1	4
97	E2 and gamma distributions in polygonal networks. <i>Physical Review Research</i> , 2021, 3, .	1.3	4
98	Requirement for a core 1 galactosyltransferase in the <i>Drosophila</i> nervous system. <i>Developmental Dynamics</i> , 2009, 238, spcone-spcone.	0.8	0
99	Developmental biology moves forward in the 21st century. <i>Current Opinion in Genetics and Development</i> , 2009, 19, 299-301.	1.5	0
100	Signal transduction by the Fat cytoplasmic domain. <i>Journal of Cell Science</i> , 2013, 126, e1-e1.	1.2	0