Kathryn V Anderson

List of Publications by Year
in descending order

111 papers	19,959 citations	18482 62 h-index	32842 100 g-index
123 all docs	123 docs citations	123 times ranked	18527 citing authors

#	Article	IF	Citations
1	Dicer is essential for mouse development. Nature Genetics, 2003, 35, 215-217.	21.4	1,759
2	The primary cilium: a signalling centre during vertebrate development. Nature Reviews Genetics, 2010, 11, 331-344.	16.3	1,624
3	Hedgehog signalling in the mouse requires intraflagellar transport proteins. Nature, 2003, 426, 83-87.	27.8	1,260
4	A CONSERVED SIGNALING PATHWAY: The <i>Drosophila</i> Toll-Dorsal Pathway. Annual Review of Cell and Developmental Biology, 1996, 12, 393-416.	9.4	770
5	Cilia and Hedgehog responsiveness in the mouse. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11325-11330.	7.1	745
6	The Graded Response to Sonic Hedgehog Depends on Cilia Architecture. Developmental Cell, 2007, 12, 767-778.	7.0	650
7	Establishment of dorsal-ventral polarity in the Drosophila embryo: Genetic studies on the role of the Toll gene product. Cell, 1985, 42, 779-789.	28.9	612
8	Toll signaling pathways in the innate immune response. Current Opinion in Immunology, 2000, 12, 13-19.	5.5	608
9	Requirement for a Peptidoglycan Recognition Protein (PGRP) in Relish Activation and Antibacterial Immune Responses in <i>Drosophila</i>. Science, 2002, 296, 359-362.	12.6	548
10	Cilia and Developmental Signaling. Annual Review of Cell and Developmental Biology, 2007, 23, 345-373.	9.4	490
11	Primary Cilia and Mammalian Hedgehog Signaling. Cold Spring Harbor Perspectives in Biology, 2017, 9, a028175.	5.5	465
12	Signaling from Smo to Ci/Gli: conservation and divergence of Hedgehog pathways from Drosophila to vertebrates. Development (Cambridge), 2006, 133, 3-14.	2.5	431
13	Rab23 is an essential negative regulator of the mouse Sonic hedgehog signalling pathway. Nature, 2001, 412, 194-198.	27.8	368
14	Information for the dorsalâ€"ventral pattern of the Drosophila embryo is stored as maternal mRNA. Nature, 1984, 311, 223-227.	27.8	330
15	<i>D<scp>rosophila</scp></i>: The Genetics of Innate Immune Recognition and Response. Annual Review of Immunology, 2004, 22, 457-483.	21.8	327
16	Signaling Pathways that Establish the Dorsal-Ventral Pattern of the Drosophila Embryo. Annual Review of Genetics, 1995, 29, 371-399.	7.6	323
17	The spÃtzle gene encodes a component of the extracellular signaling pathway establishing the dorsal-ventral pattern of the Drosophila embryo. Cell, 1994, 76, 677-688.	28.9	313
18	The coiled-coil domain containing protein CCDC40 is essential for motile cilia function and left-right axis formation. Nature Genetics, 2011, 43, 79-84.	21.4	292

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19	Regulated nuclear import of Rel proteins in the Drosophila immune response. Nature, 1998, 392, 93-97.	27.8	291
20	LDL-receptor-related protein 4 is crucial for formation of the neuromuscular junction. Development (Cambridge), 2006, 133, 4993-5000.	2.5	282
21	The kinesin-4 protein Kif7 regulates mammalian Hedgehog signalling by organizing the cilium tip compartment. Nature Cell Biology, 2014, 16, 663-672.	10.3	258
22	Mouse Kif7/Costal2 is a cilia-associated protein that regulates Sonic hedgehog signaling. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13377-13382.	7.1	253
23	The Spinocerebellar Ataxia-Associated Gene Tau Tubulin Kinase 2 Controls the Initiation of Ciliogenesis. Cell, 2012, 151, 847-858.	28.9	230
24	p38 and a p38-Interacting Protein Are Critical for Downregulation of E-Cadherin during Mouse Gastrulation. Cell, 2006, 125, 957-969.	28.9	217
25	Tcf3: a transcriptional regulator of axis induction in the early embryo. Development (Cambridge), 2004, 131, 263-274.	2.5	209
26	Intraflagellar Transport and Cilium-Based Signaling. Cell, 2006, 125, 439-442.	28.9	199
27	The IFT-A complex regulates Shh signaling through cilia structure and membrane protein trafficking. Journal of Cell Biology, 2012, 197, 789-800.	5.2	194
28	Intraflagellar transport, cilia, and mammalian Hedgehog signaling: Analysis in mouse embryonic fibroblasts. Developmental Dynamics, 2008, 237, 2030-2038.	1.8	187
29	Complex interactions between genes controlling trafficking in primary cilia. Nature Genetics, 2011, 43, 547-553.	21.4	187
30	Drosophila peptidoglycan recognition protein LC (PGRP-LC) acts as a signal-transducing innate immune receptor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1122-1126.	7.1	181
31	Mouse Dispatched homolog1 Is Required for Long-Range, but Not Juxtacrine, Hh Signaling. Current Biology, 2002, 12, 1628-1632.	3.9	170
32	Acentriolar mitosis activates a p53-dependent apoptosis pathway in the mouse embryo. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1491-500.	7.1	168
33	The antibacterial arm of the Drosophila innate immune response requires an IkappaB kinase. Genes and Development, 2001, 15, 104-110.	5.9	167
34	Protein kinase A acts at the basal body of the primary cilium to prevent Gli2 activation and ventralization of the mouse neural tube. Development (Cambridge), 2011, 138, 4921-4930.	2.5	167
35	Nuclear Pore Composition Regulates Neural Stem/Progenitor Cell Differentiation in the Mouse Embryo. Developmental Cell, 2008, 14, 831-842.	7.0	160
36	Patterning cell types in the dorsal spinal cord: what the mouse mutants say. Nature Reviews Neuroscience, 2003, 4, 289-297.	10.2	158

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37	Cooperative control of Drosophila immune responses by the JNK and NF-Î°B signaling pathways. EMBO Journal, 2006, 25, 3068-3077.	7.8	158
38	Cortical neurogenesis in the absence of centrioles. Nature Neuroscience, 2014, 17, 1528-1535.	14.8	157
39	The Primary Cilium as a Hedgehog Signal Transduction Machine. Methods in Cell Biology, 2009, 94, 199-222.	1.1	151
40	Lineage specificity of primary cilia in the mouse embryo. Nature Cell Biology, 2015, 17, 113-122.	10.3	150
41	Somatic <i>PIK3CA</i> mutations as a driver of sporadic venous malformations. Science Translational Medicine, 2016, 8, 332ra42.	12.4	147
42	A mouse model for Meckel syndrome reveals Mks1 is required for ciliogenesis and Hedgehog signaling. Human Molecular Genetics, 2009, 18, 4565-4575.	2.9	141
43	Primary Cilia Are Not Required for Normal Canonical Wnt Signaling in the Mouse Embryo. PLoS ONE, 2009, 4, e6839.	2.5	137
44	Analysis of mouse embryonic patterning and morphogenesis by forward genetics. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5913-5919.	7.1	130
45	ketu mutant mice uncover an essential meiotic function for the ancient RNA helicase YTHDC2. ELife, 2018, 7, .	6.0	129
46	Mouse Rab23 regulates Hedgehog signaling from Smoothened to Gli proteins. Developmental Biology, 2006, 290, 1-12.	2.0	126
47	Global Control of Motor Neuron Topography Mediated by the Repressive Actions of a Single Hox Gene. Neuron, 2010, 67, 781-796.	8.1	125
48	Essential Role of Glycosaminoglycans in Fgf Signaling during Mouse Gastrulation. Cell, 2003, 114, 727-737.	28.9	111
49	Morphogenesis of the node and notochord: The cellular basis for the establishment and maintenance of leftâ€“right asymmetry in the mouse. Developmental Dynamics, 2008, 237, 3464-3476.	1.8	110
50	The transformation of the model organism: a decade of developmental genetics. Nature Genetics, 2003, 33, 285-293.	21.4	108
51	FKBP8 is a negative regulator of mouse sonic hedgehog signaling in neural tissues. Development (Cambridge), 2004, 131, 2149-2159.	2.5	107
52	Pinning Down Positional Information. Cell, 1998, 95, 439-442.	28.9	101
53	Rac1-Dependent Collective Cell Migration Is Required for Specification of the Anterior-Posterior Body Axis of the Mouse. PLoS Biology, 2010, 8, e1000442.	5.6	97
54	Phactr4 Regulates Neural Tube and Optic Fissure Closure by Controlling PP1-, Rb-, and E2F1-Regulated Cell-Cycle Progression. Developmental Cell, 2007, 13, 87-102.	7.0	92

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55	Axis specification and morphogenesis in the mouse embryo require Nap1, a regulator of WAVE-mediated actin branching. Development (Cambridge), 2006, 133, 3075-3083.	2.5	90
56	Psidin Is Required in Drosophila Blood Cells for Both Phagocytic Degradation and Immune Activation of the Fat Body. Current Biology, 2007, 17, 67-72.	3.9	90
57	Rel/NF-ÎºB double mutants reveal that cellular immunity is central to <i>Drosophila</i> host defense. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16424-16429.	7.1	77
58	Crumbs2 promotes cell ingression during the epithelial-to-mesenchymal transition at gastrulation. Nature Cell Biology, 2016, 18, 1281-1291.	10.3	73
59	A novel murine allele of Intraflagellar Transport Protein 172 causes a syndrome including VACTERL-like features with hydrocephalus. Human Molecular Genetics, 2011, 20, 3725-3737.	2.9	71
60	Dorsal and Lateral Fates in the Mouse Neural Tube Require the Cell-Autonomous Activity of the open brain Gene. Developmental Biology, 2000, 227, 648-660.	2.0	70
61	The FERM protein Epb4.1l5 is required for organization of the neural plate and for the epithelial-mesenchymal transition at the primitive streak of the mouse embryo. Development (Cambridge), 2007, 134, 2007-2016.	2.5	70
62	Ror2 Enhances Polarity and Directional Migration of Primordial Germ Cells. PLoS Genetics, 2011, 7, e1002428.	3.5	70
63	Mutations in mouse Ift144 model the craniofacial, limb and rib defects in skeletal ciliopathies. Human Molecular Genetics, 2012, 21, 1808-1823.	2.9	70
64	Cofilin and Vangl2 cooperate in the initiation of planar cell polarity in the mouse embryo. Development (Cambridge), 2013, 140, 1262-1271.	2.5	68
65	The Hectd1 ubiquitin ligase is required for development of the head mesenchyme and neural tube closure. Developmental Biology, 2007, 306, 208-221.	2.0	63
66	Essential role for Abi1 in embryonic survival and WAVE2 complex integrity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7022-7027.	7.1	62
67	Microtubule Motors Drive Hedgehog Signaling in Primary Cilia. Trends in Cell Biology, 2017, 27, 110-125.	7.9	62
68	Centrosome anchoring regulates progenitor properties and cortical formation. Nature, 2020, 580, 106-112.	27.8	60
69	rahu is a mutant allele of Dnmt3c, encoding a DNA methyltransferase homolog required for meiosis and transposon repression in the mouse male germline. PLoS Genetics, 2017, 13, e1006964.	3.5	56
70	Finding the genes that direct mammalian development. Trends in Genetics, 2000, 16, 99-102.	6.7	54
71	Tissue morphogenesis and vascular stability require the Frem2 protein, product of the mouse myelencephalic blebs gene. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11746-11750.	7.1	53
72	Rac1 mediates morphogenetic responses to intercellular signals in the gastrulating mouse embryo. Development (Cambridge), 2011, 138, 3011-3020.	2.5	52

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73	Using genomewide mutagenesis screens to identify the genes required for neural tube closure in the mouse. Birth Defects Research Part A: Clinical and Molecular Teratology, 2005, 73, 583-590.	1.6	51
74	Tissue-specific roles of Axin2 in the inhibition and activation of Wnt signaling in the mouse embryo. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8692-8697.	7.1	49
75	The Epithelial-to-Mesenchymal Transition in Development and Cancer. Annual Review of Cancer Biology, 2020, 4, 197-220.	4.5	46
76	Î²-Pix directs collective migration of anterior visceral endoderm cells in the early mouse embryo. Genes and Development, 2014, 28, 2764-2777.	5.9	45
77	Chato, a KRAB zinc-finger protein, regulates convergent extension in the mouse embryo. Development (Cambridge), 2008, 135, 3053-3062.	2.5	42
78	Spinocerebellar ataxia type 11-associated alleles of Ttbk2 dominantly interfere with ciliogenesis and cilium stability. PLoS Genetics, 2018, 14, e1007844.	3.5	42
79	STRIP1, a core component of STRIPAK complexes, is essential for normal mesoderm migration in the mouse embryo. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10928-E10936.	7.1	39
80	Drosophila Immunity: Genes on the Third Chromosome Required for the Response to Bacterial Infection. Genetics, 2001, 159, 189-199.	2.9	39
81	Drosophila Ik2, a member of the IÎºB kinase family, is required for mRNA localization during oogenesis. Development (Cambridge), 2006, 133, 1467-1475.	2.5	36
82	The Meckel syndrome- associated protein MKS1 functionally interacts with components of the BBSome and IFT complexes to mediate ciliary trafficking and hedgehog signaling. PLoS ONE, 2017, 12, e0173399.	2.5	36
83	Protein O-Glucosyltransferase 1 (POGLUT1) Promotes Mouse Gastrulation through Modification of the Apical Polarity Protein CRUMBS2. PLoS Genetics, 2015, 11, e1005551.	3.5	34
84	Pten regulates collective cell migration during specification of the anteriorâ€“posterior axis of the mouse embryo. Developmental Biology, 2012, 364, 192-201.	2.0	31
85	Morphogenesis of the mouse neural plate depends on distinct roles of cofilin 1 in apical and basal epithelial domains. Development (Cambridge), 2015, 142, 1305-14.	2.5	31
86	SnapShot: Mouse Primitive Streak. Cell, 2011, 146, 488-488.e2.	28.9	30
87	Uncovering the uncharacterized and unexpected: Unbiased phenotype-driven screens in the mouse. Developmental Dynamics, 2006, 235, 2412-2423.	1.8	28
88	Leftâ€“right patterning in the mouse requires Epb4.1l5-dependent morphogenesis of the node and midline. Developmental Biology, 2010, 346, 237-246.	2.0	28
89	Truncated SALL1 Impedes Primary Cilia Function in Townes-Brocks Syndrome. American Journal of Human Genetics, 2018, 102, 249-265.	6.2	27
90	p120-catenin regulates WNT signaling and EMT in the mouse embryo. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16872-16881.	7.1	27

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91	The small GTPase RSG1 controls a final step in primary cilia initiation. Journal of Cell Biology, 2018, 217, 413-427.	5.2	26
92	Centrioles control the capacity, but not the specificity, of cytotoxic T cell killing. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4310-4319.	7.1	23
93	Sonic hedgehog signaling directs patterned cell remodeling during cranial neural tube closure. ELife, 2020, 9, .	6.0	22
94	<i>Drosophila</i>Rel proteins are central regulators of a robust, multi-organ immune network. Journal of Cell Science, 2010, 123, 627-633.	2.0	21
95	Altered patterns of gene expression inTribolium segmentation mutants. , 1998, 23, 56-64.		19
96	The tumor suppressor PTEN and the PDK1 kinase regulate formation of the columnar neural epithelium. ELife, 2016, 5, e12034.	6.0	19
97	fusilli, an Essential Gene with a Maternal Role in Drosophila Embryonic Dorsalâ€"Ventral Patterning. Developmental Biology, 2001, 229, 44-54.	2.0	18
98	Development of head organizer of the mouse embryo depends on a high level of mitochondrial metabolism. Developmental Biology, 2010, 344, 185-195.	2.0	14
99	ESCRT-II/Vps25 Constrains Digit Number by Endosome-Mediated Selective Modulation of FGF-SHH Signaling. Cell Reports, 2014, 9, 674-687.	6.4	12
100	Cilia and Hedgehog Signaling in the Mouse Embryo. , 2010, 102, 103-115.		9
101	Centrioles in the mouse: cilia and beyond. Cell Cycle, 2014, 13, 2809-2809.	2.6	8
102	Î²-Pix-dependent cellular protrusions propel collective mesoderm migration in the mouse embryo. Nature Communications, 2020, 11, 6066.	12.8	8
103	Tracking the Road from Inflammation to Cancer: the Critical Role of IÎºB Kinase (IKK). , 2010, 102, 133-151.		8
104	Signaling Networks that Control Synapse Development and Cognitive Function. , 2010, 102, 73-102.		1
105	Basal Bodies: Their Roles in Generating Asymmetry. , 2010, 102, 17-50.		1
106	Developmental biology moves forward in the 21st century. Current Opinion in Genetics and Development, 2009, 19, 299-301.	3.3	0
107	Protein Transport in and out of the Endoplasmic Reticulum. , 2010, 102, 51-72.		0
108	Active Members. , 0, , 179-189.		0

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109	Former Officers of the Harvey Society. , 0, , 153-168.		0
110	Derivation of Adult Stem Cells during Embryogenesis. , 2010, 102, 117-132.		0
111	Cofilin and Vangl2 cooperate in the initiation of planar cell polarity in the mouse embryo. Journal of Cell Science, 2013, 126, e1-e1.	2.0	0