Kathryn V Anderson

List of Publications by Year
in descending order

111 papers	19,959 citations	21215 62 h-index	37326 100 g-index
123 all docs	123 docs citations	123 times ranked	20402 citing authors

#	Article	IF	Citations
1	The Epithelial-to-Mesenchymal Transition in Development and Cancer. Annual Review of Cancer Biology, 2020, 4, 197-220.	2.3	46
2	Î²-Pix-dependent cellular protrusions propel collective mesoderm migration in the mouse embryo. Nature Communications, 2020, 11, 6066.	5.8	8
3	Centrosome anchoring regulates progenitor properties and cortical formation. Nature, 2020, 580, 106-112.	13.7	60
4	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.	3.3	23
5	Sonic hedgehog signaling directs patterned cell remodeling during cranial neural tube closure. ELife, 2020, 9, .	2.8	22
6	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.	3.3	27
7	Truncated SALL1 Impedes Primary Cilia Function in Townes-Brocks Syndrome. American Journal of Human Genetics, 2018, 102, 249-265.	2.6	27
8	The small GTPase RSG1 controls a final step in primary cilia initiation. Journal of Cell Biology, 2018, 217, 413-427.	2.3	26
9	Spinocerebellar ataxia type 11-associated alleles of Ttbk2 dominantly interfere with ciliogenesis and cilium stability. PLoS Genetics, 2018, 14, e1007844.	1.5	42
10	ketu mutant mice uncover an essential meiotic function for the ancient RNA helicase YTHDC2. ELife, 2018, 7, .	2.8	129
11	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.	3.3	39
12	Microtubule Motors Drive Hedgehog Signaling in Primary Cilia. Trends in Cell Biology, 2017, 27, 110-125.	3.6	62
13	Primary Cilia and Mammalian Hedgehog Signaling. Cold Spring Harbor Perspectives in Biology, 2017, 9, a028175.	2.3	465
14	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.	1.1	36
15	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.	1.5	56
16	Somatic <i>PIK3CA</i> mutations as a driver of sporadic venous malformations. Science Translational Medicine, 2016, 8, 332ra42.	5.8	147
17	Crumbs2 promotes cell ingression during the epithelial-to-mesenchymal transition at gastrulation. Nature Cell Biology, 2016, 18, 1281-1291.	4.6	73
18	The tumor suppressor PTEN and the PDK1 kinase regulate formation of the columnar neural epithelium. ELife, 2016, 5, e12034.	2.8	19

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19	Protein O-Glucosyltransferase 1 (POGLUT1) Promotes Mouse Gastrulation through Modification of the Apical Polarity Protein CRUMBS2. PLoS Genetics, 2015, 11, e1005551.	1.5	34
20	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.	1.2	31
21	Lineage specificity of primary cilia in the mouse embryo. Nature Cell Biology, 2015, 17, 113-122.	4.6	150
22	ESCRT-II/Vps25 Constrains Digit Number by Endosome-Mediated Selective Modulation of FGF-SHH Signaling. Cell Reports, 2014, 9, 674-687.	2.9	12
23	Î²-Pix directs collective migration of anterior visceral endoderm cells in the early mouse embryo. Genes and Development, 2014, 28, 2764-2777.	2.7	45
24	Centrioles in the mouse: cilia and beyond. Cell Cycle, 2014, 13, 2809-2809.	1.3	8
25	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.	3.3	168
26	Cortical neurogenesis in the absence of centrioles. Nature Neuroscience, 2014, 17, 1528-1535.	7.1	157
27	The kinesin-4 protein Kif7 regulates mammalian Hedgehog signalling by organizing the cilium tip compartment. Nature Cell Biology, 2014, 16, 663-672.	4.6	258
28	Cofilin and Vangl2 cooperate in the initiation of planar cell polarity in the mouse embryo. Development (Cambridge), 2013, 140, 1262-1271.	1.2	68
29	Cofilin and Vangl2 cooperate in the initiation of planar cell polarity in the mouse embryo. Journal of Cell Science, 2013, 126, e1-e1.	1.2	0
30	The IFT-A complex regulates Shh signaling through cilia structure and membrane protein trafficking. Journal of Cell Biology, 2012, 197, 789-800.	2.3	194
31	Mutations in mouse Ift144 model the craniofacial, limb and rib defects in skeletal ciliopathies. Human Molecular Genetics, 2012, 21, 1808-1823.	1.4	70
32	The Spinocerebellar Ataxia-Associated Gene Tau Tubulin Kinase 2 Controls the Initiation of Ciliogenesis. Cell, 2012, 151, 847-858.	13.5	230
33	Pten regulates collective cell migration during specification of the anteriorâ€"posterior axis of the mouse embryo. Developmental Biology, 2012, 364, 192-201.	0.9	31
34	SnapShot: Mouse Primitive Streak. Cell, 2011, 146, 488-488.e2.	13.5	30
35	The coiled-coil domain containing protein CCDC40 is essential for motile cilia function and left-right axis formation. Nature Genetics, 2011, 43, 79-84.	9.4	292
36	Complex interactions between genes controlling trafficking in primary cilia. Nature Genetics, 2011, 43, 547-553.	9.4	187

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37	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.	3.3	62
38	Rac1 mediates morphogenetic responses to intercellular signals in the gastrulating mouse embryo. Development (Cambridge), 2011, 138, 3011-3020.	1.2	52
39	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.	1.4	71
40	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.	3.3	49
41	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.	1.2	167
42	Ror2 Enhances Polarity and Directional Migration of Primordial Germ Cells. PLoS Genetics, 2011, 7, e1002428.	1.5	70
43	The primary cilium: a signalling centre during vertebrate development. Nature Reviews Genetics, 2010, 11, 331-344.	7.7	1,624
44	<i>Drosophila</i>Rel proteins are central regulators of a robust, multi-organ immune network. Journal of Cell Science, 2010, 123, 627-633.	1.2	21
45	Rac1-Dependent Collective Cell Migration Is Required for Specification of the Anterior-Posterior Body Axis of the Mouse. PLoS Biology, 2010, 8, e1000442.	2.6	97
46	Global Control of Motor Neuron Topography Mediated by the Repressive Actions of a Single Hox Gene. Neuron, 2010, 67, 781-796.	3.8	125
47	Development of head organizer of the mouse embryo depends on a high level of mitochondrial metabolism. Developmental Biology, 2010, 344, 185-195.	0.9	14
48	Leftâ€“right patterning in the mouse requires Epb4.1l5-dependent morphogenesis of the node and midline. Developmental Biology, 2010, 346, 237-246.	0.9	28
49	Cilia and Hedgehog Signaling in the Mouse Embryo. , 2010, 102, 103-115.		9
50	Protein Transport in and out of the Endoplasmic Reticulum. , 2010, 102, 51-72.		0
51	Tracking the Road from Inflammation to Cancer: the Critical Role of IÎºB Kinase (IKK). , 2010, 102, 133-151.		8
52	Signaling Networks that Control Synapse Development and Cognitive Function. , 2010, 102, 73-102.		1
53	Derivation of Adult Stem Cells during Embryogenesis. , 2010, 102, 117-132.		0
54	Basal Bodies: Their Roles in Generating Asymmetry. , 2010, 102, 17-50.		1

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55	The Primary Cilium as a Hedgehog Signal Transduction Machine. Methods in Cell Biology, 2009, 94, 199-222.	0.5	151
56	A mouse model for Meckel syndrome reveals Mks1 is required for ciliogenesis and Hedgehog signaling. Human Molecular Genetics, 2009, 18, 4565-4575.	1.4	141
57	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.	3.3	253
58	Developmental biology moves forward in the 21st century. Current Opinion in Genetics and Development, 2009, 19, 299-301.	1.5	0
59	Primary Cilia Are Not Required for Normal Canonical Wnt Signaling in the Mouse Embryo. PLoS ONE, 2009, 4, e6839.	1.1	137
60	Intraflagellar transport, cilia, and mammalian Hedgehog signaling: Analysis in mouse embryonic fibroblasts. Developmental Dynamics, 2008, 237, 2030-2038.	0.8	187
61	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.	0.8	110
62	Nuclear Pore Composition Regulates Neural Stem/Progenitor Cell Differentiation in the Mouse Embryo. Developmental Cell, 2008, 14, 831-842.	3.1	160
63	Chato, a KRAB zinc-finger protein, regulates convergent extension in the mouse embryo. Development (Cambridge), 2008, 135, 3053-3062.	1.2	42
64	Cilia and Developmental Signaling. Annual Review of Cell and Developmental Biology, 2007, 23, 345-373.	4.0	490
65	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.	1.2	70
66	The Hectd1 ubiquitin ligase is required for development of the head mesenchyme and neural tube closure. Developmental Biology, 2007, 306, 208-221.	0.9	63
67	The Graded Response to Sonic Hedgehog Depends on Cilia Architecture. Developmental Cell, 2007, 12, 767-778.	3.1	650
68	Phactr4 Regulates Neural Tube and Optic Fissure Closure by Controlling PP1-, Rb-, and E2F1-Regulated Cell-Cycle Progression. Developmental Cell, 2007, 13, 87-102.	3.1	92
69	Psidin Is Required in Drosophila Blood Cells for Both Phagocytic Degradation and Immune Activation of the Fat Body. Current Biology, 2007, 17, 67-72.	1.8	90
70	LDL-receptor-related protein 4 is crucial for formation of the neuromuscular junction. Development (Cambridge), 2006, 133, 4993-5000.	1.2	282
71	Signaling from Smo to Ci/Gli: conservation and divergence of Hedgehog pathways from Drosophila to vertebrates. Development (Cambridge), 2006, 133, 3-14.	1.2	431
72	p38 and a p38-Interacting Protein Are Critical for Downregulation of E-Cadherin during Mouse Gastrulation. Cell, 2006, 125, 957-969.	13.5	217

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73	Intraflagellar Transport and Cilium-Based Signaling. Cell, 2006, 125, 439-442.	13.5	199
74	Mouse Rab23 regulates Hedgehog signaling from Smoothened to Gli proteins. Developmental Biology, 2006, 290, 1-12.	0.9	126
75	Cooperative control of Drosophila immune responses by the JNK and NF-Î°B signaling pathways. EMBO Journal, 2006, 25, 3068-3077.	3.5	158
76	Uncovering the uncharacterized and unexpected: Unbiased phenotype-driven screens in the mouse. Developmental Dynamics, 2006, 235, 2412-2423.	0.8	28
77	Drosophila Ik2, a member of the IÎ°B kinase family, is required for mRNA localization during oogenesis. Development (Cambridge), 2006, 133, 1467-1475.	1.2	36
78	Axis specification and morphogenesis in the mouse embryo require Nap1, a regulator of WAVE-mediated actin branching. Development (Cambridge), 2006, 133, 3075-3083.	1.2	90
79	Rel/NF-ÂB double mutants reveal that cellular immunity is central to Drosophila host defense. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16424-16429.	3.3	77
80	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
81	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.	3.3	53
82	Cilia and Hedgehog responsiveness in the mouse. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11325-11330.	3.3	745
83	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.	3.3	181
84	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.	3.3	130
85	Tcf3: a transcriptional regulator of axis induction in the early embryo. Development (Cambridge), 2004, 131, 263-274.	1.2	209
86	Drosophila: The Genetics of Innate Immune Recognition and Response. Annual Review of Immunology, 2004, 22, 457-483.	9.5	327
87	FKBP8 is a negative regulator of mouse sonic hedgehog signaling in neural tissues. Development (Cambridge), 2004, 131, 2149-2159.	1.2	107
88	Hedgehog signalling in the mouse requires intraflagellar transport proteins. Nature, 2003, 426, 83-87.	13.7	1,260
89	The transformation of the model organism: a decade of developmental genetics. Nature Genetics, 2003, 33, 285-293.	9.4	108
90	Dicer is essential for mouse development. Nature Genetics, 2003, 35, 215-217.	9.4	1,759

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91	Patterning cell types in the dorsal spinal cord: what the mouse mutants say. Nature Reviews Neuroscience, 2003, 4, 289-297.	4.9	158
92	Essential Role of Glycosaminoglycans in Fgf Signaling during Mouse Gastrulation. Cell, 2003, 114, 727-737.	13.5	111
93	Requirement for a Peptidoglycan Recognition Protein (PGRP) in Relish Activation and Antibacterial Immune Responses in Drosophila. Science, 2002, 296, 359-362.	6.0	548
94	Mouse Dispatched homolog1 Is Required for Long-Range, but Not Juxtacrine, Hh Signaling. Current Biology, 2002, 12, 1628-1632.	1.8	170
95	fusilli, an Essential Gene with a Maternal Role in Drosophila Embryonic Dorsalâ€"Ventral Patterning. Developmental Biology, 2001, 229, 44-54.	0.9	18
96	Rab23 is an essential negative regulator of the mouse Sonic hedgehog signalling pathway. Nature, 2001, 412, 194-198.	13.7	368
97	The antibacterial arm of the Drosophila innate immune response requires an IkappaB kinase. Genes and Development, 2001, 15, 104-110.	2.7	167
98	Drosophila Immunity: Genes on the Third Chromosome Required for the Response to Bacterial Infection. Genetics, 2001, 159, 189-199.	1.2	39
99	Toll signaling pathways in the innate immune response. Current Opinion in Immunology, 2000, 12, 13-19.	2.4	608
100	Finding the genes that direct mammalian development. Trends in Genetics, 2000, 16, 99-102.	2.9	54
101	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.	0.9	70
102	Regulated nuclear import of Rel proteins in the Drosophila immune response. Nature, 1998, 392, 93-97.	13.7	291
103	Altered patterns of gene expression inTribolium segmentation mutants. , 1998, 23, 56-64.		19
104	Pinning Down Positional Information. Cell, 1998, 95, 439-442.	13.5	101
105	A CONSERVED SIGNALING PATHWAY: TheDrosophilaToll-Dorsal Pathway. Annual Review of Cell and Developmental Biology, 1996, 12, 393-416.	4.0	770
106	Signaling Pathways that Establish the Dorsal-Ventral Pattern of the Drosophila Embryo. Annual Review of Genetics, 1995, 29, 371-399.	3.2	323
107	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.	13.5	313
108	Establishment of dorsal-ventral polarity in the Drosophila embryo: Genetic studies on the role of the Toll gene product. Cell, 1985, 42, 779-789.	13.5	612

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109	Information for the dorsalâ€“ventral pattern of the Drosophila embryo is stored as maternal mRNA. Nature, 1984, 311, 223-227.	13.7	330
110	Active Members. , 0, , 179-189.		0
111	Former Officers of the Harvey Society. , 0, , 153-168.		0