Aimin Liu

List of Publications by Year
in descending order

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37 papers	3,593 citations	331259 21 h-index	377514 34 g-index
42 all docs	42 docs citations	42 times ranked	4286 citing authors

#	Article	IF	Citations
1	Hedgehog signalling in the mouse requires intraflagellar transport proteins. Nature, 2003, 426, 83-87.	13.7	1,260
2	Mouse intraflagellar transport proteins regulate both the activator and repressor functions of Gli transcription factors. Development (Cambridge), 2005, 132, 3103-3111.	1.2	472
3	Bone morphogenetic protein signalling and vertebrate nervous system development. Nature Reviews Neuroscience, 2005, 6, 945-954.	4.9	285
4	Early Anterior/Posterior Patterning of the Midbrain and Cerebellum. Annual Review of Neuroscience, 2001, 24, 869-896.	5.0	219
5	C2cd3 is critical for centriolar distal appendage assembly and ciliary vesicle docking in mammals. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2164-2169.	3.3	146
6	Grainyhead-like 2 regulates neural tube closure and adhesion molecule expression during neural fold fusion. Developmental Biology, 2011, 353, 38-49.	0.9	129
7	Modeling microcephaly with cerebral organoids reveals a WDR62â€“CEP170â€“KIF2A pathway promoting cilium disassembly in neural progenitors. Nature Communications, 2019, 10, 2612.	5.8	125
8	Suppressor of Fused inhibits mammalian Hedgehog signaling in the absence of cilia. Developmental Biology, 2009, 330, 452-460.	0.9	121
9	Alteration of limb and brain patterning in early mouse embryos by ultrasound-guided injection of Shh-expressing cells. Mechanisms of Development, 1998, 75, 107-115.	1.7	104
10	PCP effector gene Inturned is an important regulator of cilia formation and embryonic development in mammals. Developmental Biology, 2010, 339, 418-428.	0.9	93
11	C2cd3 is required for cilia formation and Hedgehog signaling in mouse. Development (Cambridge), 2008, 135, 4049-4058.	1.2	84
12	Planar cell polarity effector gene Fuzzy regulates cilia formation and Hedgehog signal transduction in mouse. Developmental Dynamics, 2009, 238, 3035-3042.	0.8	83
13	Coordinated Translocation of Mammalian Gli Proteins and Suppressor of Fused to the Primary Cilium. PLoS ONE, 2010, 5, e15900.	1.1	66
14	Spop promotes skeletal development and homeostasis by positively regulating Ihh signaling. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14751-14756.	3.3	52
15	Centrosomal Protein DZIP1 Regulates Hedgehog Signaling by Promoting Cytoplasmic Retention of Transcription Factor GLI3 and Affecting Ciliogenesis. Journal of Biological Chemistry, 2013, 288, 29518-29529.	1.6	47
16	Hedgehog-Activated Fat4 and PCP Pathways Mediate Mesenchymal Cell Clustering and Villus Formation in Gut Development. Developmental Cell, 2020, 52, 647-658.e6.	3.1	39
17	Dual function of suppressor of fused in Hh pathway activation and mouse spinal cord patterning. Developmental Biology, 2012, 362, 141-153.	0.9	31
18	PCP effector proteins inturned and fuzzy play nonredundant roles in the patterning but not convergent extension of mammalian neural tube. Developmental Dynamics, 2011, 240, 1938-1948.	0.8	29

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19	INTU is essential for oncogenic Hh signaling through regulating primary cilia formation in basal cell carcinoma. Oncogene, 2017, 36, 4997-5005.	2.6	28
20	Proteostasis in the Hedgehog signaling pathway. Seminars in Cell and Developmental Biology, 2019, 93, 153-163.	2.3	28
21	The small GTPase RSG1 controls a final step in primary cilia initiation. Journal of Cell Biology, 2018, 217, 413-427.	2.3	26
22	Spop regulates Gli3 activity and Shh signaling in dorsoventral patterning of the mouse spinal cord. Developmental Biology, 2017, 432, 72-85.	0.9	23
23	Planar cell polarity effector gene Intu regulates cell fate-specific differentiation of keratinocytes through the primary cilia. Cell Death and Differentiation, 2013, 20, 130-138.	5.0	19
24	The CPLANE protein Intu protects kidneys from ischemia-reperfusion injury by targeting STAT1 for degradation. Nature Communications, 2018, 9, 1234.	5.8	18
25	The loss of Hh responsiveness by a non-ciliary Gli2 variant. Development (Cambridge), 2015, 142, 1651-60.	1.2	16
26	A hypomorphic allele reveals an important role of inturned in mouse skeletal development. Developmental Dynamics, 2015, 244, 736-747.	0.8	14
27	Analysis of Hedgehog Signaling in Mouse Intraflagellar Transport Mutants. Methods in Cell Biology, 2009, 93, 347-369.	0.5	9
28	Efficient multiplexed genome engineering with a polycistronic tRNA and CRISPR guide-RNA reveals an important role of detonator in reproduction of Drosophila melanogaster. PLoS ONE, 2021, 16, e0245454.	1.1	7
29	Immunohistochemistry and RNA In Situ Hybridization in Mouse Brain Development. Methods in Molecular Biology, 2014, 1082, 269-283.	0.4	5
30	Distinct Activities of Gli1 and Gli2 in the Absence of Ift88 and the Primary Cilia. Journal of Developmental Biology, 2019, 7, 5.	0.9	4
31	Identifying Essential Genes in Mouse Development via an ENU-Based Forward Genetic Approach. Methods in Molecular Biology, 2014, 1092, 95-118.	0.4	4
32	Differential expression of the Tmem132 family genes in the developing mouse nervous system. Gene Expression Patterns, 2022, 45, 119257.	0.3	4
33	Hedgehog signaling: mechanisms and evolution. Frontiers in Biology, 2011, 6, 504-521.	0.7	2
34	Immunohistochemistry and RNA In Situ Hybridization in Mouse Brain Development. Methods in Molecular Biology, 2020, 2047, 475-489.	0.4	1
35	The antagonistic functions of the activator and repressor forms of Gli proteins underlie the dorsoventral patterning of the wild type and mutant spinal cords. Developmental Biology, 2011, 356, 160.	0.9	0
36	Fluorescent and Electron Microscopy Revealed Critical Roles of C2cd3 in Centriolar Distal Appendage Assembly and Cilia Biogenesis. Microscopy and Microanalysis, 2014, 20, 1378-1379.	0.2	0

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37	The Cilium-Dependent Hedgehog Signaling in Mammals. Cell & Developmental Biology, 2012, 01, .	0.3	0