Anming Meng

List of Publications by Year
in descending order

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100 papers	4,971 citations	101543 36 h-index	102487 66 g-index
106 all docs	106 docs citations	106 times ranked	8440 citing authors

#	Article	IF	Citations
1	Allelic reprogramming of the histone modification H3K4me3 in early mammalian development. Nature, 2016, 537, 553-557.	27.8	516
2	PPM1A Functions as a Smad Phosphatase to Terminate TGFÎ² Signaling. Cell, 2006, 125, 915-928.	28.9	422
3	Guidelines for morpholino use in zebrafish. PLoS Genetics, 2017, 13, e1007000.	3.5	255
4	RNA 5-Methylcytosine Facilitates the Maternal-to-Zygotic Transition by Preventing Maternal mRNA Decay. Molecular Cell, 2019, 75, 1188-1202.e11.	9.7	242
5	Smad7 Antagonizes Transforming Growth Factor Î² Signaling in the Nucleus by Interfering with Functional Smad-DNA Complex Formation. Molecular and Cellular Biology, 2007, 27, 4488-4499.	2.3	220
6	Endothelial Smad4 Maintains Cerebrovascular Integrity by Activating N-Cadherin through Cooperation with Notch. Developmental Cell, 2011, 20, 291-302.	7.0	209
7	Double-Stranded RNA Injection Produces Nonspecific Defects in Zebrafish. Developmental Biology, 2001, 229, 215-223.	2.0	130
8	Zebrafish Dpr2 Inhibits Mesoderm Induction by Promoting Degradation of Nodal Receptors. Science, 2004, 306, 114-117.	12.6	124
9	The Fused/Smurf Complex Controls the Fate of Drosophila Germline Stem Cells by Generating a Gradient BMP Response. Cell, 2010, 143, 978-990.	28.9	123
10	Migrasomes provide regional cues for organ morphogenesis during zebrafish gastrulation. Nature Cell Biology, 2019, 21, 966-977.	10.3	122
11	Sp1-like transcription factors are regulators of embryonic development in vertebrates. Development Growth and Differentiation, 2005, 47, 201-211.	1.5	114
12	Destabilizing LSD1 by Jade-2 Promotes Neurogenesis: An Antibraking System in Neural Development. Molecular Cell, 2014, 55, 482-494.	9.7	89
13	MicroRNA-92a Upholds Bmp Signaling by Targeting noggin3 during Pharyngeal Cartilage Formation. Developmental Cell, 2013, 24, 283-295.	7.0	78
14	Grhl2 deficiency impairs otic development and hearing ability in a zebrafish model of the progressive dominant hearing loss DFNA28. Human Molecular Genetics, 2011, 20, 3213-3226.	2.9	74
15	Angiomotin-like2 Gene (amotl2) Is Required for Migration and Proliferation of Endothelial Cells during Angiogenesis. Journal of Biological Chemistry, 2011, 286, 41095-41104.	3.4	72
16	Tob1 Controls Dorsal Development of Zebrafish Embryos by Antagonizing Maternal Î²-Catenin Transcriptional Activity. Developmental Cell, 2006, 11, 225-238.	7.0	67
17	Zebrafish sox9b is an early neural crest marker. Development Genes and Evolution, 2002, 212, 203-206.	0.9	64
18	fgf17b, a novel member of Fgf family, helps patterning zebrafish embryos. Developmental Biology, 2004, 271, 130-143.	2.0	58

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19	Widespread Enhancer Dememorization and Promoter Priming during Parental-to-Zygotic Transition. Molecular Cell, 2018, 72, 673-686.e6.	9.7	57
20	The evolutionally conserved activity of Dapper2 in antagonizing TGFâ€ÃŸ signaling. FASEB Journal, 2007, 21, 682-690.	0.5	55
21	smad2 and smad3 Are Required for Mesendoderm Induction by Transforming Growth Factor-Î²/Nodal Signals in Zebrafish. Journal of Biological Chemistry, 2008, 283, 2418-2426.	3.4	53
22	Maternal Huluwa dictates the embryonic body axis through Î²-catenin in vertebrates. Science, 2018, 362, .	12.6	52
23	Dapper1 Is a Nucleocytoplasmic Shuttling Protein That Negatively Modulates Wnt Signaling in the Nucleus. Journal of Biological Chemistry, 2008, 283, 35679-35688.	3.4	51
24	Amotl2 is essential for cell movements in zebrafish embryo and regulates c-Src translocation. Development (Cambridge), 2007, 134, 979-988.	2.5	50
25	A Î²-Catenin-Independent Dorsalization Pathway Activated by Axin/JNK Signaling and Antagonized by Aida. Developmental Cell, 2007, 13, 268-282.	7.0	50
26	SCF^{FBXL15}regulates BMP signalling by directing the degradation of HECT-type ubiquitin ligase Smurf1. EMBO Journal, 2011, 30, 2675-2689.	7.8	50
27	Global Identification of SMAD2 Target Genes Reveals a Role for Multiple Co-regulatory Factors in Zebrafish Early Gastrulas. Journal of Biological Chemistry, 2011, 286, 28520-28532.	3.4	50
28	Tob genes in development and homeostasis. Developmental Dynamics, 2007, 236, 913-921.	1.8	49
29	Mta3-NuRD complex is a master regulator for initiation of primitive hematopoiesis in vertebrate embryos. Blood, 2009, 114, 5464-5472.	1.4	46
30	Î²-Catenin 1 and Î²-catenin 2 play similar and distinct roles in left-right asymmetric development of zebrafish embryos. Development (Cambridge), 2012, 139, 2009-2019.	2.5	46
31	Heart-specific isoform of tropomyosin4 is essential for heartbeat in zebrafish embryos. Cardiovascular Research, 2008, 80, 200-208.	3.8	43
32	A Genetic Mechanism for Convergent Skin Lightening during Recent Human Evolution. Molecular Biology and Evolution, 2016, 33, 1177-1187.	8.9	43
33	Maternal Ybx1 safeguards zebrafish oocyte maturation and maternal-to-zygotic transition by repressing global translation. Development (Cambridge), 2018, 145, .	2.5	43
34	The Amotl2 Gene Inhibits Wnt/Î²-Catenin Signaling and Regulates Embryonic Development in Zebrafish. Journal of Biological Chemistry, 2012, 287, 13005-13015.	3.4	42
35	Chapter 7 Transgenesis. Methods in Cell Biology, 1998, 60, 133-148.	1.1	41
36	An SP1-like transcription factor Spr2 acts downstream of Fgf signaling to mediate mesoderm induction. EMBO Journal, 2003, 22, 6078-6088.	7.8	40

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37	Activation and roles of ALK4/ALK7-mediated maternal TGFÎ² signals in zebrafish embryo. Biochemical and Biophysical Research Communications, 2006, 345, 694-703.	2.1	40
38	Inhibition of endothelial ERK signalling by Smad1/5 is essential for haematopoietic stem cell emergence. Nature Communications, 2014, 5, 3431.	12.8	40
39	Thyroid hormone regulates hematopoiesis via the TR-KLF9 axis. Blood, 2017, 130, 2161-2170.	1.4	40
40	TGFÎ² family signaling and development. Development (Cambridge), 2021, 148, .	2.5	39
41	Smad2/3 activities are required for induction and patterning of the neuroectoderm in zebrafish. Developmental Biology, 2009, 333, 273-284.	2.0	35
42	Midbrain-hindbrain boundary patterning and morphogenesis are regulated by diverse grainy head-like 2-dependent pathways. Development (Cambridge), 2012, 139, 525-536.	2.5	34
43	The Nuclear Pore Complex Function of Sec13 Protein Is Required for Cell Survival during Retinal Development. Journal of Biological Chemistry, 2014, 289, 11971-11985.	3.4	33
44	Pilot study of large-scale production of mutant pigs by ENU mutagenesis. ELife, 2017, 6, .	6.0	32
45	Systematic genome editing of the genes on zebrafish Chromosome 1 by CRISPR/Cas9. Genome Research, 2020, 30, 118-126.	5.5	32
46	Accelerated re-epithelialization inDpr2-deficient mice is associated with enhanced response to TGFÎ² signaling. Journal of Cell Science, 2008, 121, 2904-2912.	2.0	30
47	Rock2 controls TGFÎ² signaling and inhibits mesoderm induction in zebrafish embryos. Journal of Cell Science, 2009, 122, 2197-2207.	2.0	30
48	Organizer-derived Bmp2 is required for the formation of a correct Bmp activity gradient during embryonic development. Nature Communications, 2014, 5, 3766.	12.8	30
49	Both foxj1a and foxj1b are implicated in leftâ€“right asymmetric development in zebrafish embryos. Biochemical and Biophysical Research Communications, 2009, 380, 537-542.	2.1	29
50	Maternal Eomesodermin regulates zygotic nodal gene expression for mesendoderm induction in zebrafish embryos. Journal of Molecular Cell Biology, 2014, 6, 272-285.	3.3	29
51	Araf kinase antagonizes Nodal-Smad2 activity in mesendoderm development by directly phosphorylating the Smad2 linker region. Nature Communications, 2013, 4, 1728.	12.8	28
52	Fscn1 is required for the trafficking of TGF-Î² family type I receptors during endoderm formation. Nature Communications, 2016, 7, 12603.	12.8	28
53	Creation of miniature pig model of human Waardenburg syndrome type 2A by ENU mutagenesis. Human Genetics, 2017, 136, 1463-1475.	3.8	28
54	A zebrafish gene trap line expresses GFP recapturing expression pattern of foxj1b. Journal of Genetics and Genomics, 2009, 36, 581-589.	3.9	25

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55	Eph-ephrin signaling maintains the boundary of dorsal forerunner cell cluster during morphogenesis of the zebrafish embryonic left-right organizer. Development (Cambridge), 2016, 143, 2603-15.	2.5	24
56	Loss of Zygotic NUP107 Protein Causes Missing of Pharyngeal Skeleton and Other Tissue Defects with Impaired Nuclear Pore Function in Zebrafish Embryos. Journal of Biological Chemistry, 2012, 287, 38254-38264.	3.4	23
57	MicroRNA-206 Regulates Cell Movements during Zebrafish Gastrulation by Targeting prickle1a and Regulating c-Jun N-Terminal Kinase 2 Phosphorylation. Molecular and Cellular Biology, 2012, 32, 2934-2942.	2.3	23
58	Uracil-DNA Glycosylase Is Involved in DNA Demethylation and Required for Embryonic Development in the Zebrafish Embryo. Journal of Biological Chemistry, 2014, 289, 15463-15473.	3.4	23
59	The Sec14-like phosphatidylinositol transfer proteins Sec14l3/SEC14L2 act as GTPase proteins to mediate Wnt/Ca2+ signaling. ELife, 2017, 6, .	6.0	23
60	Pur alpha and Sp8 as opposing regulators of neural gata2 expression. Developmental Biology, 2004, 275, 225-234.	2.0	22
61	Two GC-rich boxes in huC promoter play distinct roles in controlling its neuronal specific expression in zebrafish embryos. Biochemical and Biophysical Research Communications, 2006, 342, 214-220.	2.1	22
62	Protein Phosphatase 4 Cooperates with Smads to Promote BMP Signaling in Dorsoventral Patterning of Zebrafish Embryos. Developmental Cell, 2012, 22, 1065-1078.	7.0	22
63	Interruption of cenph Causes Mitotic Failure and Embryonic Death, and Its Haploinsufficiency Suppresses Cancer in Zebrafish. Journal of Biological Chemistry, 2010, 285, 27924-27934.	3.4	21
64	A 2-bp insertion (c.67_68insCC) in MC1R causes recessive white coat color in Bama miniature pigs. Journal of Genetics and Genomics, 2017, 44, 215-217.	3.9	20
65	Zebrafish cdc6 hypomorphic mutation causes Meier-Gorlin syndrome-like phenotype. Human Molecular Genetics, 2017, 26, 4168-4180.	2.9	20
66	Surfactant protein A promoter directs the expression of Cre recombinase in brain microvascular endothelial cells of transgenic mice. Matrix Biology, 2007, 26, 54-57.	3.6	18
67	5â€² Half of specific tRNAs feeds back to promote corresponding tRNA gene transcription in vertebrate embryos. Science Advances, 2021, 7, eabh0494.	10.3	18
68	The expression of gbx-2 during zebrafish embryogenesis. Mechanisms of Development, 2002, 113, 107-110.	1.7	17
69	The Chromatin Remodeling Protein Bptf Promotes Posterior Neuroectodermal Fate by Enhancing Smad2-Activatedwnt8aExpression. Journal of Neuroscience, 2015, 35, 8493-8506.	3.6	17
70	The signalling receptor MCAM coordinates apical-basal polarity and planar cell polarity during morphogenesis. Nature Communications, 2017, 8, 15279.	12.8	17
71	Sec14l3 potentiates VEGFR2 signaling to regulate zebrafish vasculogenesis. Nature Communications, 2019, 10, 1606.	12.8	17
72	Embryonic hematopoiesis in vertebrate somites gives rise to definitive hematopoietic stem cells. Journal of Molecular Cell Biology, 2016, 8, 288-301.	3.3	16

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73	The genetic program of oocytes can be modifiedin vivoin the zebrafish ovary. Journal of Molecular Cell Biology, 2018, 10, 479-493.	3.3	15
74	TGFÎ²1a regulates zebrafish posterior lateral line formation via Smad5 mediated pathway. Journal of Molecular Cell Biology, 2015, 7, 48-61.	3.3	14
75	Impairment of Cargo Transportation Caused by gbf1 Mutation Disrupts Vascular Integrity and Causes Hemorrhage in Zebrafish Embryos. Journal of Biological Chemistry, 2017, 292, 2315-2327.	3.4	14
76	A Golgi-derived vesicle potentiates PtdIns4P to PtdIns3P conversion for endosome fission. Nature Cell Biology, 2021, 23, 782-795.	10.3	13
77	Methylome inheritance and enhancer dememorization reset an epigenetic gate safeguarding embryonic programs. Science Advances, 2021, 7, eabl3858.	10.3	12
78	Alkbh4 and Atrn Act Maternally to Regulate Zebrafish Epiboly. International Journal of Biological Sciences, 2017, 13, 1051-1066.	6.4	11
79	The nuclear localization signal of zebrafish terra is located within the DM domain. FEBS Letters, 2001, 503, 25-29.	2.8	10
80	A harlequin ichthyosis pig model with a novel ABCA12 mutation can be rescued by acitretin treatment. Journal of Molecular Cell Biology, 2019, 11, 1029-1041.	3.3	10
81	Characterization and expression pattern ofpouII1, a novel class II POU gene in zebrafish. Science Bulletin, 2001, 46, 1523-1527.	1.7	8
82	Sp5l is a mediator of Fgf signals in anteroposterior patterning of the neuroectoderm in zebrafish embryo. Developmental Dynamics, 2006, 235, 2999-3006.	1.8	8
83	The Kinase Activity-deficient Isoform of the Protein Araf Antagonizes Ras/Mitogen-activated Protein Kinase (Ras/MAPK) Signaling in the Zebrafish Embryo. Journal of Biological Chemistry, 2015, 290, 25512-25521.	3.4	8
84	Somite-specific expression of a novel fibronectin variant FN3 is negatively regulated by SHH. Science Bulletin, 2002, 47, 1807-1811.	9.0	7
85	A novel zinc finger transcription factor resembles krox-20 in structure and in expression pattern in zebrafish. Mechanisms of Development, 2002, 114, 133-135.	1.7	6
86	Cloning and expression analysis of zebrafish tob1 gene. Development Genes and Evolution, 2004, 214, 309-11.	0.9	6
87	Tissue-specific expression of GFP reporter gene in germline driven by GATA-2 promoter and enhancers in zebrafish. Science Bulletin, 2000, 45, 31-34.	1.7	5
88	Characterization and expression pattern of two zebrafishatf7 genes. Developmental Dynamics, 2005, 233, 1157-1162.	1.8	5
89	prpf4 is essential for cell survival and posterior lateral line primordium migration in zebrafish. Journal of Genetics and Genomics, 2018, 45, 443-453.	3.9	5
90	The zygotic expression of zebrafish trebf during embryogenesis is restricted to the embryonic shield and its derivatives. Development Genes and Evolution, 2001, 211, 445-448.	0.9	4

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91	The second polar body contributes to the fate asymmetry in the mouse embryo. National Science Review, 2022, 9, .	9.5	4
92	Maternal Factors and Nodal Autoregulation Orchestrate Nodal Gene Expression for Embryonic Mesendoderm Induction in the Zebrafish. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	4
93	Expression of zebrafish Lc3 synthase gene in embryonic lens requires hedgehog signaling. Developmental Dynamics, 2003, 228, 308-312.	1.8	3
94	Generation of mutants with developmental defects in zebrafish by ENU mutagenesis. Science Bulletin, 2004, 49, 2154-2158.	1.7	3
95	Coordinate involvement of Nodal-dependent inhibition and Wnt-dependent activation in the maintenance of organizer-specific bmp2b in zebrafish. International Journal of Developmental Biology, 2016, 60, 13-19.	0.6	3
96	The rise of developmental biology in China. Development Growth and Differentiation, 2022, 64, 106-115.	1.5	3
97	Efficient and risk-reduced genome editing using double nicks enhanced by bacterial recombination factors in multiple species. Nucleic Acids Research, 2020, 48, e57-e57.	14.5	2
98	Mini-III RNase-based dual-color system for in vivo mRNA tracking. Development (Cambridge), 2020, 147, .	2.5	1
99	Detection of Smad Signaling in Zebrafish Embryos. Methods in Molecular Biology, 2016, 1344, 275-286.	0.9	1
100	The Role of Survivin in Angiogenesis during Zebrafish Embryonic Development.. Blood, 2006, 108, 1812-1812.	1.4	0