

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	The rise of developmental biology in China. <i>Development Growth and Differentiation</i> , 2022, 64, 106-115.	1.5	3
2	The second polar body contributes to the fate asymmetry in the mouse embryo. <i>National Science Review</i> , 2022, 9, .	9.5	4
3	Maternal Factors and Nodal Autoregulation Orchestrate Nodal Gene Expression for Embryonic Mesendoderm Induction in the Zebrafish. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, .	3.7	4
4	TGF β family signaling and development. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	39
5	A Golgi-derived vesicle potentiates PtdIns4P to PtdIns3P conversion for endosome fission. <i>Nature Cell Biology</i> , 2021, 23, 782-795.	10.3	13
6	Half of specific tRNAs feeds back to promote corresponding tRNA gene transcription in vertebrate embryos. <i>Science Advances</i> , 2021, 7, eabh0494.	10.3	18
7	Methylome inheritance and enhancer dememorization reset an epigenetic gate safeguarding embryonic programs. <i>Science Advances</i> , 2021, 7, eabl3858.	10.3	12
8	Systematic genome editing of the genes on zebrafish Chromosome 1 by CRISPR/Cas9. <i>Genome Research</i> , 2020, 30, 118-126.	5.5	32
9	Mini-III RNase-based dual-color system for <i>in vivo</i> mRNA tracking. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	1
10	Efficient and risk-reduced genome editing using double nicks enhanced by bacterial recombination factors in multiple species. <i>Nucleic Acids Research</i> , 2020, 48, e57-e57.	14.5	2
11	Migrasomes provide regional cues for organ morphogenesis during zebrafish gastrulation. <i>Nature Cell Biology</i> , 2019, 21, 966-977.	10.3	122
12	RNA 5-Methylcytosine Facilitates the Maternal-to-Zygotic Transition by Preventing Maternal mRNA Decay. <i>Molecular Cell</i> , 2019, 75, 1188-1202.e11.	9.7	242
13	Sec14l3 potentiates VEGFR2 signaling to regulate zebrafish vasculogenesis. <i>Nature Communications</i> , 2019, 10, 1606.	12.8	17
14	A harlequin ichthyosis pig model with a novel ABCA12 mutation can be rescued by acitretin treatment. <i>Journal of Molecular Cell Biology</i> , 2019, 11, 1029-1041.	3.3	10
15	Maternal Huluwa dictates the embryonic body axis through β -catenin in vertebrates. <i>Science</i> , 2018, 362, .	12.6	52
16	Widespread Enhancer Dememorization and Promoter Priming during Parental-to-Zygotic Transition. <i>Molecular Cell</i> , 2018, 72, 673-686.e6.	9.7	57
17	The genetic program of oocytes can be modified <i>in vivo</i> in the zebrafish ovary. <i>Journal of Molecular Cell Biology</i> , 2018, 10, 479-493.	3.3	15
18	prpf4 is essential for cell survival and posterior lateral line primordium migration in zebrafish. <i>Journal of Genetics and Genomics</i> , 2018, 45, 443-453.	3.9	5

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19	Maternal Ybx1 safeguards zebrafish oocyte maturation and maternal-to-zygotic transition by repressing global translation. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	43
20	Impairment of Cargo Transportation Caused by gbf1 Mutation Disrupts Vascular Integrity and Causes Hemorrhage in Zebrafish Embryos. <i>Journal of Biological Chemistry</i> , 2017, 292, 2315-2327.	3.4	14
21	The signalling receptor MCAM coordinates apical-basal polarity and planar cell polarity during morphogenesis. <i>Nature Communications</i> , 2017, 8, 15279.	12.8	17
22	A 2-bp insertion (c.67_68insCC) in MC1R causes recessive white coat color in Bama miniature pigs. <i>Journal of Genetics and Genomics</i> , 2017, 44, 215-217.	3.9	20
23	Creation of miniature pig model of human Waardenburg syndrome type 2A by ENU mutagenesis. <i>Human Genetics</i> , 2017, 136, 1463-1475.	3.8	28
24	Thyroid hormone regulates hematopoiesis via the TR-KLF9 axis. <i>Blood</i> , 2017, 130, 2161-2170.	1.4	40
25	Zebrafish cdc6 hypomorphic mutation causes Meier-Gorlin syndrome-like phenotype. <i>Human Molecular Genetics</i> , 2017, 26, 4168-4180.	2.9	20
26	Alkbh4 and Atrn Act Maternally to Regulate Zebrafish Epiboly. <i>International Journal of Biological Sciences</i> , 2017, 13, 1051-1066.	6.4	11
27	Pilot study of large-scale production of mutant pigs by ENU mutagenesis. <i>ELife</i> , 2017, 6, .	6.0	32
28	The Sec14-like phosphatidylinositol transfer proteins Sec14l3/SEC14L2 act as GTPase proteins to mediate Wnt/Ca ²⁺ signaling. <i>ELife</i> , 2017, 6, .	6.0	23
29	Guidelines for morpholino use in zebrafish. <i>PLoS Genetics</i> , 2017, 13, e1007000.	3.5	255
30	Coordinate involvement of Nodal-dependent inhibition and Wnt-dependent activation in the maintenance of organizer-specific bmp2b in zebrafish. <i>International Journal of Developmental Biology</i> , 2016, 60, 13-19.	0.6	3
31	Allelic reprogramming of the histone modification H3K4me3 in early mammalian development. <i>Nature</i> , 2016, 537, 553-557.	27.8	516
32	Fscn1 is required for the trafficking of TGF- β 2 family type I receptors during endoderm formation. <i>Nature Communications</i> , 2016, 7, 12603.	12.8	28
33	Embryonic hematopoiesis in vertebrate somites gives rise to definitive hematopoietic stem cells. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 288-301.	3.3	16
34	Eph-ephrin signaling maintains the boundary of dorsal forerunner cell cluster during morphogenesis of the zebrafish embryonic left-right organizer. <i>Development (Cambridge)</i> , 2016, 143, 2603-15.	2.5	24
35	A Genetic Mechanism for Convergent Skin Lightening during Recent Human Evolution. <i>Molecular Biology and Evolution</i> , 2016, 33, 1177-1187.	8.9	43
36	Detection of Smad Signaling in Zebrafish Embryos. <i>Methods in Molecular Biology</i> , 2016, 1344, 275-286.	0.9	1

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37	The Chromatin Remodeling Protein Bptf Promotes Posterior Neuroectodermal Fate by Enhancing Smad2-Activated <i>wnt8a</i> Expression. <i>Journal of Neuroscience</i> , 2015, 35, 8493-8506.	3.6	17
38	TGF β 1a regulates zebrafish posterior lateral line formation via Smad5 mediated pathway. <i>Journal of Molecular Cell Biology</i> , 2015, 7, 48-61.	3.3	14
39	The Kinase Activity-deficient Isoform of the Protein Araf Antagonizes Ras/Mitogen-activated Protein Kinase (Ras/MAPK) Signaling in the Zebrafish Embryo. <i>Journal of Biological Chemistry</i> , 2015, 290, 25512-25521.	3.4	8
40	Uracil-DNA Glycosylase Is Involved in DNA Demethylation and Required for Embryonic Development in the Zebrafish Embryo. <i>Journal of Biological Chemistry</i> , 2014, 289, 15463-15473.	3.4	23
41	Organizer-derived Bmp2 is required for the formation of a correct Bmp activity gradient during embryonic development. <i>Nature Communications</i> , 2014, 5, 3766.	12.8	30
42	Inhibition of endothelial ERK signalling by Smad1/5 is essential for haematopoietic stem cell emergence. <i>Nature Communications</i> , 2014, 5, 3431.	12.8	40
43	Destabilizing LSD1 by Jade-2 Promotes Neurogenesis: An Antibraking System in Neural Development. <i>Molecular Cell</i> , 2014, 55, 482-494.	9.7	89
44	Maternal Eomesodermin regulates zygotic nodal gene expression for mesendoderm induction in zebrafish embryos. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 272-285.	3.3	29
45	The Nuclear Pore Complex Function of Sec13 Protein Is Required for Cell Survival during Retinal Development. <i>Journal of Biological Chemistry</i> , 2014, 289, 11971-11985.	3.4	33
46	MicroRNA-92a Upholds Bmp Signaling by Targeting <i>noggin3</i> during Pharyngeal Cartilage Formation. <i>Developmental Cell</i> , 2013, 24, 283-295.	7.0	78
47	Araf kinase antagonizes Nodal-Smad2 activity in mesendoderm development by directly phosphorylating the Smad2 linker region. <i>Nature Communications</i> , 2013, 4, 1728.	12.8	28
48	β -Catenin 1 and β -catenin 2 play similar and distinct roles in left-right asymmetric development of zebrafish embryos. <i>Development (Cambridge)</i> , 2012, 139, 2009-2019.	2.5	46
49	The <i>Amotl2</i> Gene Inhibits Wnt/ β -Catenin Signaling and Regulates Embryonic Development in Zebrafish. <i>Journal of Biological Chemistry</i> , 2012, 287, 13005-13015.	3.4	42
50	Midbrain-hindbrain boundary patterning and morphogenesis are regulated by diverse grainy head-like 2-dependent pathways. <i>Development (Cambridge)</i> , 2012, 139, 525-536.	2.5	34
51	Loss of Zygotic NUP107 Protein Causes Missing of Pharyngeal Skeleton and Other Tissue Defects with Impaired Nuclear Pore Function in Zebrafish Embryos. <i>Journal of Biological Chemistry</i> , 2012, 287, 38254-38264.	3.4	23
52	MicroRNA-206 Regulates Cell Movements during Zebrafish Gastrulation by Targeting <i>prickle1a</i> and Regulating c-Jun N-Terminal Kinase 2 Phosphorylation. <i>Molecular and Cellular Biology</i> , 2012, 32, 2934-2942.	2.3	23
53	Protein Phosphatase 4 Cooperates with Smads to Promote BMP Signaling in Dorsoventral Patterning of Zebrafish Embryos. <i>Developmental Cell</i> , 2012, 22, 1065-1078.	7.0	22
54	Endothelial Smad4 Maintains Cerebrovascular Integrity by Activating N-Cadherin through Cooperation with Notch. <i>Developmental Cell</i> , 2011, 20, 291-302.	7.0	209

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55	SCF ^{FBXL15} regulates BMP signalling by directing the degradation of HECT-type ubiquitin ligase Smurf1. <i>EMBO Journal</i> , 2011, 30, 2675-2689.	7.8	50
56	Angiotensin-like2 Gene (amotl2) Is Required for Migration and Proliferation of Endothelial Cells during Angiogenesis. <i>Journal of Biological Chemistry</i> , 2011, 286, 41095-41104.	3.4	72
57	Grhl2 deficiency impairs otic development and hearing ability in a zebrafish model of the progressive dominant hearing loss DFNA28. <i>Human Molecular Genetics</i> , 2011, 20, 3213-3226.	2.9	74
58	Global Identification of SMAD2 Target Genes Reveals a Role for Multiple Co-regulatory Factors in Zebrafish Early Gastrulas. <i>Journal of Biological Chemistry</i> , 2011, 286, 28520-28532.	3.4	50
59	Interruption of cenph Causes Mitotic Failure and Embryonic Death, and Its Haploinsufficiency Suppresses Cancer in Zebrafish. <i>Journal of Biological Chemistry</i> , 2010, 285, 27924-27934.	3.4	21
60	The Fused/Smurf Complex Controls the Fate of Drosophila Germline Stem Cells by Generating a Gradient BMP Response. <i>Cell</i> , 2010, 143, 978-990.	28.9	123
61	Rock2 controls TGF β 2 signaling and inhibits mesoderm induction in zebrafish embryos. <i>Journal of Cell Science</i> , 2009, 122, 2197-2207.	2.0	30
62	Both foxj1a and foxj1b are implicated in left-right asymmetric development in zebrafish embryos. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 537-542.	2.1	29
63	Smad2/3 activities are required for induction and patterning of the neuroectoderm in zebrafish. <i>Developmental Biology</i> , 2009, 333, 273-284.	2.0	35
64	A zebrafish gene trap line expresses GFP recapturing expression pattern of foxj1b. <i>Journal of Genetics and Genomics</i> , 2009, 36, 581-589.	3.9	25
65	Mta3-NuRD complex is a master regulator for initiation of primitive hematopoiesis in vertebrate embryos. <i>Blood</i> , 2009, 114, 5464-5472.	1.4	46
66	smad2 and smad3 Are Required for Mesendoderm Induction by Transforming Growth Factor- β 2/Nodal Signals in Zebrafish. <i>Journal of Biological Chemistry</i> , 2008, 283, 2418-2426.	3.4	53
67	Dapper1 Is a Nucleocytoplasmic Shuttling Protein That Negatively Modulates Wnt Signaling in the Nucleus. <i>Journal of Biological Chemistry</i> , 2008, 283, 35679-35688.	3.4	51
68	Accelerated re-epithelialization in <i>Dpr2</i> -deficient mice is associated with enhanced response to TGF β 2 signaling. <i>Journal of Cell Science</i> , 2008, 121, 2904-2912.	2.0	30
69	Heart-specific isoform of tropomyosin4 is essential for heartbeat in zebrafish embryos. <i>Cardiovascular Research</i> , 2008, 80, 200-208.	3.8	43
70	The evolutionally conserved activity of Dapper2 in antagonizing TGF β 1 signaling. <i>FASEB Journal</i> , 2007, 21, 682-690.	0.5	55
71	Smad7 Antagonizes Transforming Growth Factor β 2 Signaling in the Nucleus by Interfering with Functional Smad-DNA Complex Formation. <i>Molecular and Cellular Biology</i> , 2007, 27, 4488-4499.	2.3	220
72	Amotl2 is essential for cell movements in zebrafish embryo and regulates c-Src translocation. <i>Development (Cambridge)</i> , 2007, 134, 979-988.	2.5	50

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73	A $\hat{\nu}^2$ -Catenin-Independent Dorsalization Pathway Activated by Axin/JNK Signaling and Antagonized by Aida. <i>Developmental Cell</i> , 2007, 13, 268-282.	7.0	50
74	Surfactant protein A promoter directs the expression of Cre recombinase in brain microvascular endothelial cells of transgenic mice. <i>Matrix Biology</i> , 2007, 26, 54-57.	3.6	18
75	Tob genes in development and homeostasis. <i>Developmental Dynamics</i> , 2007, 236, 913-921.	1.8	49
76	PPM1A Functions as a Smad Phosphatase to Terminate TGF $\hat{\nu}^2$ Signaling. <i>Cell</i> , 2006, 125, 915-928.	28.9	422
77	Two GC-rich boxes in huC promoter play distinct roles in controlling its neuronal specific expression in zebrafish embryos. <i>Biochemical and Biophysical Research Communications</i> , 2006, 342, 214-220.	2.1	22
78	Activation and roles of ALK4/ALK7-mediated maternal TGF $\hat{\nu}^2$ signals in zebrafish embryo. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 694-703.	2.1	40
79	Tob1 Controls Dorsal Development of Zebrafish Embryos by Antagonizing Maternal $\hat{\nu}^2$ -Catenin Transcriptional Activity. <i>Developmental Cell</i> , 2006, 11, 225-238.	7.0	67
80	Sp5l is a mediator of Fgf signals in anteroposterior patterning of the neuroectoderm in zebrafish embryo. <i>Developmental Dynamics</i> , 2006, 235, 2999-3006.	1.8	8
81	The Role of Survivin in Angiogenesis during Zebrafish Embryonic Development.. <i>Blood</i> , 2006, 108, 1812-1812.	1.4	0
82	Sp1-like transcription factors are regulators of embryonic development in vertebrates. <i>Development Growth and Differentiation</i> , 2005, 47, 201-211.	1.5	114
83	Characterization and expression pattern of two zebrafishatf7 genes. <i>Developmental Dynamics</i> , 2005, 233, 1157-1162.	1.8	5
84	Zebrafish Dpr2 Inhibits Mesoderm Induction by Promoting Degradation of Nodal Receptors. <i>Science</i> , 2004, 306, 114-117.	12.6	124
85	Cloning and expression analysis of zebrafish tob1 gene. <i>Development Genes and Evolution</i> , 2004, 214, 309-11.	0.9	6
86	Generation of mutants with developmental defects in zebrafish by ENU mutagenesis. <i>Science Bulletin</i> , 2004, 49, 2154-2158.	1.7	3
87	fgf17b, a novel member of Fgf family, helps patterning zebrafish embryos. <i>Developmental Biology</i> , 2004, 271, 130-143.	2.0	58
88	Pur alpha and Sp8 as opposing regulators of neural gata2 expression. <i>Developmental Biology</i> , 2004, 275, 225-234.	2.0	22
89	An SP1-like transcription factor Spr2 acts downstream of Fgf signaling to mediate mesoderm induction. <i>EMBO Journal</i> , 2003, 22, 6078-6088.	7.8	40
90	Expression of zebrafish Lc3 synthase gene in embryonic lens requires hedgehog signaling. <i>Developmental Dynamics</i> , 2003, 228, 308-312.	1.8	3

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91	Somite-specific expression of a novel fibronectin variant FN3 is negatively regulated by SHH. Science Bulletin, 2002, 47, 1807-1811.	9.0	7
92	The expression of gbx-2 during zebrafish embryogenesis. Mechanisms of Development, 2002, 113, 107-110.	1.7	17
93	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
94	Zebrafish sox9b is an early neural crest marker. Development Genes and Evolution, 2002, 212, 203-206.	0.9	64
95	Double-Stranded RNA Injection Produces Nonspecific Defects in Zebrafish. Developmental Biology, 2001, 229, 215-223.	2.0	130
96	The nuclear localization signal of zebrafish <i>terra</i> is located within the DM domain. FEBS Letters, 2001, 503, 25-29.	2.8	10
97	The zygotic expression of zebrafish <i>trebf</i> during embryogenesis is restricted to the embryonic shield and its derivatives. Development Genes and Evolution, 2001, 211, 445-448.	0.9	4
98	Characterization and expression pattern of <i>fpou11</i> , a novel class II POU gene in zebrafish. Science Bulletin, 2001, 46, 1523-1527.	1.7	8
99	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
100	Chapter 7 Transgenesis. Methods in Cell Biology, 1998, 60, 133-148.	1.1	41