Makoto Asashima

List of Publications by Year
in descending order

106 papers	4,458 citations	147726 31 h-index	118793 62 g-index
106 all docs	106 docs citations	106 times ranked	7665 citing authors

#	Article	IF	Citations
1	Genome evolution in the allotetraploid frog Xenopus laevis. Nature, 2016, 538, 336-343.	13.7	849
2	Development of Defective and Persistent Sendai Virus Vector. Journal of Biological Chemistry, 2011, 286, 4760-4771.	1.6	312
3	IGFBP-4 is an inhibitor of canonical Wnt signalling required for cardiogenesis. Nature, 2008, 454, 345-349.	13.7	198
4	Glycome Diagnosis of Human Induced Pluripotent Stem Cells Using Lectin Microarray. Journal of Biological Chemistry, 2011, 286, 20345-20353.	1.6	185
5	The Conserved Rieske Oxygenase DAF-36/Neverland Is a Novel Cholesterol-metabolizing Enzyme. Journal of Biological Chemistry, 2011, 286, 25756-25762.	1.6	144
6	Intensely Fluorescent Azobenzenes: Synthesis, Crystal Structures, Effects of Substituents, and Application to Fluorescent Vital Stain. Chemistry - A European Journal, 2010, 16, 5026-5035.	1.7	100
7	Molecular links among the causative genes for ocular malformation: Otx2 and Sox2 coregulate Rax expression. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5408-5413.	3.3	95
8	Elimination of Tumorigenic Human Pluripotent Stem Cells by a Recombinant Lectin-Toxin Fusion Protein. Stem Cell Reports, 2015, 4, 811-820.	2.3	94
9	Generation of stomach tissue from mouse embryonic stem cells. Nature Cell Biology, 2015, 17, 984-993.	4.6	90
10	Structural and Quantitative Evidence for Dynamic Glycome Shift on Production of Induced Pluripotent Stem Cells. Molecular and Cellular Proteomics, 2012, 11, 1913-1923.	2.5	84
11	Xapelin and Xmsr are required for cardiovascular development in Xenopus laevis. Developmental Biology, 2006, 298, 188-200.	0.9	82
12	Dullard Promotes Degradation and Dephosphorylation of BMP Receptors and Is Required for Neural Induction. Developmental Cell, 2006, 11, 763-774.	3.1	78
13	Directed induction of anterior and posterior primitive streak by Wnt from embryonic stem cells cultured in a chemically defined serumâ€free medium. FASEB Journal, 2009, 23, 114-122.	0.2	78
14	A crucial role of a high mobility group protein HMGA2 in cardiogenesis. Nature Cell Biology, 2008, 10, 567-574.	4.6	76
15	Decreased expression of CXXC4 promotes a malignant phenotype in renal cell carcinoma by activating Wnt signaling. Oncogene, 2009, 28, 297-305.	2.6	76
16	Pdx1-transfected adipose tissue-derived stem cells differentiate into insulin-producing cells in vivo and reduce hyperglycemia in diabetic mice. International Journal of Developmental Biology, 2010, 54, 699-705.	0.3	75
17	Wnt Protein-mediated Satellite Cell Conversion in Adult and Aged Mice Following Voluntary Wheel Running. Journal of Biological Chemistry, 2014, 289, 7399-7412.	1.6	75
18	TIF1Î² regulates the pluripotency of embryonic stem cells in a phosphorylation-dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10926-10931.	3.3	73

#	Article	IF	Citations
19	Biosynthesis of Ribosomal RNA in Nucleoli Regulates Pluripotency and Differentiation Ability of Pluripotent Stem Cells. Stem Cells, 2014, 32, 3099-3111.	1.4	73
20	BMP4 induction of trophoblast from mouse embryonic stem cells in defined culture conditions on laminin. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 416-430.	0.7	70
21	Podocalyxin Is a Glycoprotein Ligand of the Human Pluripotent Stem Cell-Specific Probe rBC2LCN. Stem Cells Translational Medicine, 2013, 2, 265-273.	1.6	70
22	rBC2LCN, a new probe for live cell imaging of human pluripotent stem cells. Biochemical and Biophysical Research Communications, 2013, 431, 524-529.	1.0	63
23	Activin plays a key role in the maintenance of long-term memory and late-LTP. Learning and Memory, 2010, 17, 176-185.	0.5	52
24	MicroRNAs and Epigenetics in Adult Neurogenesis. Advances in Genetics, 2014, 86, 27-44.	0.8	49
25	Reduction of N-Glycolylneuraminic Acid in Human Induced Pluripotent Stem Cells Generated or Cultured under Feeder- and Serum-Free Defined Conditions. PLoS ONE, 2010, 5, e14099.	1.1	48
26	Occupancy of tissue-specific cis-regulatory modules by Otx2 and TLE/Groucho for embryonic head specification. Nature Communications, 2014, 5, 4322.	5.8	45
27	A Novel Therapeutic Strategy for Pancreatic Cancer: Targeting Cell Surface Glycan Using rBC2LC-N Lectinâ€“Drug Conjugate (LDC). Molecular Cancer Therapeutics, 2018, 17, 183-195.	1.9	45
28	Microfluidic perfusion culture of human induced pluripotent stem cells under fully defined culture conditions. Biotechnology and Bioengineering, 2014, 111, 937-947.	1.7	41
29	The requirement of histone modification by PRDM12 and Kdm4a for the development of pre-placodal ectoderm and neural crest in Xenopus. Developmental Biology, 2015, 399, 164-176.	0.9	38
30	Ripply2is essential for precise somite formation during mouse early development. FEBS Letters, 2007, 581, 2691-2696.	1.3	36
31	A medium hyperglycosylated podocalyxin enables noninvasive and quantitative detection of tumorigenic human pluripotent stem cells. Scientific Reports, 2014, 4, 4069.	1.6	32
32	Prohibitin 2 Regulates the Proliferation and Lineage-Specific Differentiation of Mouse Embryonic Stem Cells in Mitochondria. PLoS ONE, 2014, 9, e81552.	1.1	31
33	Enzyme-free Passage of Human Pluripotent Stem Cells by Controlling Divalent Cations. Scientific Reports, 2014, 4, 4646.	1.6	31
34	Induction of neural crest cells from mouse embryonic stem cells in a serum-free monolayer culture. International Journal of Developmental Biology, 2010, 54, 1287-1294.	0.3	30
35	N-Cadherin is a prospective cell surface marker of human mesenchymal stem cells that have high ability for cardiomyocyte differentiation. Biochemical and Biophysical Research Communications, 2013, 438, 753-759.	1.0	30
36	Mitf contributes to melanosome distribution and melanophore dendricity. Pigment Cell and Melanoma Research, 2008, 21, 56-62.	1.5	28

#	Article	IF	Citations
37	Induction of differentiation of undifferentiated cells into pancreatic beta cells in vertebrates. International Journal of Developmental Biology, 2012, 56, 313-323.	0.3	28
38	Induction of intermediate mesoderm by retinoic acid receptor signaling from differentiating mouse embryonic stem cells. International Journal of Developmental Biology, 2013, 57, 383-389.	0.3	28
39	Nucleoredoxin regulates the Wnt/planar cell polarity pathway in Xenopus. Genes To Cells, 2008, 13, 965-975.	0.5	27
40	Diabetes and Stem Cell Function. BioMed Research International, 2015, 2015, 1-16.	0.9	26
41	N-cadherin is a useful marker for the progenitor of cardiomyocytes differentiated from mouse ES cells in serum-free condition. Biochemical and Biophysical Research Communications, 2006, 351, 877-882.	1.0	25
42	Proteomic analysis of membrane proteins expressed specifically in pluripotent murine embryonic stem cells. Proteomics, 2009, 9, 126-137.	1.3	25
43	Dullard/Ctdnep1 Modulates WNT Signalling Activity for the Formation of Primordial Germ Cells in the Mouse Embryo. PLoS ONE, 2013, 8, e57428.	1.1	25
44	Bowline mediates association of the transcriptional corepressor XGrg-4 with Tbx6 during somitogenesis in Xenopus. Biochemical and Biophysical Research Communications, 2007, 359, 959-964.	1.0	24
45	Possible linkages between the inner and outer cellular states of human induced pluripotent stem cells. BMC Systems Biology, 2011, 5, S17.	3.0	24
46	Separation with zwitterionic hydrophilic interaction liquid chromatography improves protein identification by matrixâ€assisted laser desorption/ionizationâ€based proteomic analysis. Biomedical Chromatography, 2009, 23, 607-614.	0.8	23
47	Zygotic VegT is required for Xenopus paraxial mesoderm formation and is regulated by Nodal signaling and Eomesodermin. International Journal of Developmental Biology, 2010, 54, 81-92.	0.3	23
48	The Xenopus Bowline/Ripply family proteins negatively regulate the transcriptional activity of T-box transcription factors. International Journal of Developmental Biology, 2009, 53, 631-639.	0.3	22
49	The RNA-binding protein Mex3b has a fine-tuning system for mRNA regulation in earlyXenopusdevelopment. Development (Cambridge), 2009, 136, 2413-2422.	1.2	21
50	The phosphatase Dullard negatively regulates BMP signalling and is essential for nephron maintenance after birth. Nature Communications, 2013, 4, 1398.	5.8	21
51	BMP signaling regulates the differentiation of mouse embryonic stem cells into lung epithelial cell lineages. In Vitro Cellular and Developmental Biology - Animal, 2013, 49, 230-237.	0.7	21
52	Improved efficiency of definitive endoderm induction from human induced pluripotent stem cells in feeder and serum-free culture system. In Vitro Cellular and Developmental Biology - Animal, 2015, 51, 1-8.	0.7	21
53	Recombinant Tol2 transposase with activity in Xenopus embryos. FEBS Letters, 2007, 581, 4333-4336.	1.3	20
54	Tbx6, Thylacine1, and E47 synergistically activate bowline expression in Xenopus somitogenesis. Developmental Biology, 2008, 313, 816-828.	0.9	20

#	Article	IF	Citations
55	Intrinsic Ability of Adult Stem Cell in Skeletal Muscle: An Effective and Replenishable Resource to the Establishment of Pluripotent Stem Cells. Stem Cells International, 2013, 2013, 1-18.	1.2	20
56	Retinoic acid metabolizing factor xCyp26c is specifically expressed in neuroectoderm and regulates anterior neural patterning in Xenopus laevis. International Journal of Developmental Biology, 2008, 52, 893-901.	0.3	20
57	Elucidation of the role of activin in organogenesis using a multiple organ induction system with amphibian and mouse undifferentiated cells in vitro. Development Growth and Differentiation, 2008, 50, S35-45.	0.6	18
58	Transloconâ€associated protein subunit Trapâ€Î³/Ssr3 is required for vascular network formation in the mouse placenta. Developmental Dynamics, 2011, 240, 394-403.	0.8	18
59	Dullard/Ctdnep1 Regulates Endochondral Ossification via Suppression of TGF-Î² Signaling. Journal of Bone and Mineral Research, 2015, 30, 318-329.	3.1	18
60	Enhanced Bone-Forming Activity of Side Population Cells in the Periodontal Ligament. Cell Transplantation, 2014, 23, 691-701.	1.2	17
61	Functional Overload Enhances Satellite Cell Properties in Skeletal Muscle. Stem Cells International, 2016, 2016, 1-11.	1.2	16
62	A Stable Chimeric Fibroblast Growth Factor (FGF) Can Successfully Replace Basic FGF in Human Pluripotent Stem Cell Culture. PLoS ONE, 2015, 10, e0118931.	1.1	16
63	Cloning of noggin gene from hydra and analysis of its functional conservation using Xenopus laevis embryos. Evolution & Development, 2010, 12, 267-274.	1.1	15
64	XSUMOâ€1 is required for normal mesoderm induction and axis elongation during early Xenopus development. Developmental Dynamics, 2007, 236, 2757-2766.	0.8	14
65	Xenopus furry contributes to release of microRNA gene silencing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19344-19349.	3.3	14
66	Inhibitory Smad proteins promote the differentiation of mouse embryonic stem cells into ependymal-like ciliated cells. Biochemical and Biophysical Research Communications, 2010, 401, 1-6.	1.0	14
67	Lipase member H is a novel secreted protein selectively upregulated in human lung adenocarcinomas and bronchioloalveolar carcinomas. Biochemical and Biophysical Research Communications, 2014, 443, 1141-1147.	1.0	14
68	The transcriptional coactivators Yap and TAZ are expressed during early Xenopus development. International Journal of Developmental Biology, 2011, 55, 121-126.	0.3	13
69	Ubc9 negatively regulates BMP-mediated osteoblastic differentiation in cultured cells. Bone, 2012, 50, 1092-1099.	1.4	13
70	Hippo signaling components, Mst1 and Mst2, act as a switch between self-renewal and differentiation in Xenopus hematopoietic and endothelial progenitors. International Journal of Developmental Biology, 2013, 57, 407-414.	0.3	13
71	XRASGRP2 is essential for blood vessel formation during Xenopus development. International Journal of Developmental Biology, 2010, 54, 609-615.	0.3	12
72	Xenopus galectin-VIa shows highly specific expression in cement glands and is regulated by canonical Wnt signaling. Gene Expression Patterns, 2007, 7, 852-857.	0.3	11

#	Article	IF	Citations
73	In vitro organogenesis using multipotent cells. Human Cell, 2010, 23, no-no.	1.2	10
74	Rapamycin treatment causes developmental delay, pigmentation defects, and gastrointestinal malformation on Xenopus embryogenesis. Biochemical and Biophysical Research Communications, 2011, 404, 974-978.	1.0	10
75	KDEL tagging: a method for generating dominant-negative inhibitors of the secretion of TGF-beta superfamily proteins. International Journal of Developmental Biology, 2012, 56, 351-356.	0.3	10
76	Molecular analyses of Xenopus laevis Mespâ€related genes. Integrative Zoology, 2009, 4, 387-394.	1.3	8
77	Claudin5 genes encoding tight junction proteins are required for Xenopus heart formation. Development Growth and Differentiation, 2010, 52, 665-675.	0.6	8
78	Identification of novel peptides from amphibian (XenopusÂtropicalis) skin by direct tissue <scp>MALDI</scp>â€<scp>MS</scp> analysis. FEBS Journal, 2015, 282, 102-113.	2.2	8
79	Physical interaction between Tbx6 and mespb is indispensable for the activation of bowline expression during Xenopus somitogenesis. Biochemical and Biophysical Research Communications, 2008, 372, 607-612.	1.0	7
80	Directional migration of neuronal PC12 cells in a ratchet wheel shaped microchamber. Journal of Bioscience and Bioengineering, 2009, 108, 76-83.	1.1	7
81	Activin A regulates growth of gastroâ€intestinal epithelial cells by mediating epithelialâ€mesenchymal interaction. Development Growth and Differentiation, 2013, 55, 786-791.	0.6	7
82	Development of a practical sandwich assay to detect human pluripotent stem cells using cell culture media. Regenerative Therapy, 2017, 6, 1-8.	1.4	7
83	Gene expression profile of Xenopus A6 cells cultured under random positioning machine shows downregulation of ion transporter genes and inhibition of dome formation. Advances in Space Research, 2007, 40, 1694-1702.	1.2	6
84	Chemokine ligand Xenopus CXCLC (XCXCLC) regulates cell movements during early morphogenesis. Development Growth and Differentiation, 2011, 53, 971-981.	0.6	6
85	mNanog Possesses Dorsal Mesoderm-Inducing Ability by Modulating Both BMP and Activin/Nodal Signaling in Xenopus Ectodermal Cells. PLoS ONE, 2012, 7, e46630.	1.1	6
86	Monitoring neurodegeneration in diabetes using adult neural stem cells derived from the olfactory bulb. Stem Cell Research and Therapy, 2013, 4, 51.	2.4	6
87	A Lectin-Based Glycomic Approach to Identify Characteristic Features of Xenopus Embryogenesis. PLoS ONE, 2013, 8, e56581.	1.1	6
88	Establishment and culture optimization of a new type of pituitary immortalized cell line. Biochemical and Biophysical Research Communications, 2015, 463, 1218-1224.	1.0	6
89	Toward global standardization of conducting fair investigations of allegations of research misconduct. Accountability in Research, 2020, 27, 327-346.	1.6	6
90	Creating frog heart as an organ: in vitro-induced heart functions as a circulatory organ in vivo. International Journal of Developmental Biology, 2010, 54, 851-856.	0.3	6

#	Article	IF	Citations
91	TSCâ€box is essential for the nuclear localization and antiproliferative effect of XTSCâ€22. Development Growth and Differentiation, 2007, 49, 197-204.	0.6	5
92	TRIQK, a Novel Family of Small Proteins Localized to the Endoplasmic Reticulum Membrane, Is Conserved Across Vertebrates. Zoological Science, 2008, 25, 706-713.	0.3	5
93	Development of Ca²⁺ signaling mechanisms and cell motility in presumptive ectodermal cells during amphibian gastrulation. Development Growth and Differentiation, 2011, 53, 37-47.	0.6	5
94	xCOUP-TF-B regulates xCyp26 transcription and modulates retinoic acid signaling for anterior neural patterning in Xenopus. International Journal of Developmental Biology, 2012, 56, 239-244.	0.3	5
95	Global Expression of Simulated Microgravity-Responsive Genes in Xenopus Liver Cells. Zoological Science, 2008, 25, 828-837.	0.3	4
96	Serum protein isoform profiles indicate the progression of hepatitis C virus-induced liver diseases. International Journal of Molecular Medicine, 2013, 31, 943-950.	1.8	4
97	Xnr3 affects brain patterning via cell migration in the neural-epidermal tissue boundary during early Xenopus embryogenesis. International Journal of Developmental Biology, 2013, 57, 779-786.	0.3	4
98	Insulin-like factor regulates neural induction through an IGF1 receptor-independent mechanism. Scientific Reports, 2015, 5, 11603.	1.6	4
99	Physicochemical and biological characterizations of Pxt peptides from amphibian (Xenopus tropicalis) skin. Journal of Biochemistry, 2016, 159, 619-629.	0.9	4
100	Novel cell surface genes expressed in the stomach primordium during gastrointestinal morphogenesis of mouse embryos. Gene Expression Patterns, 2012, 12, 154-163.	0.3	3
101	Characterization of CXC-type chemokine molecules in early Xenopus laevis development. International Journal of Developmental Biology, 2013, 57, 41-47.	0.3	3
102	A novel gene, BENI is required for the convergent extension during Xenopus laevis gastrulation. Developmental Biology, 2007, 303, 270-280.	0.9	2
103	Bestrophin genes are expressed in Xenopus development. Biochemical and Biophysical Research Communications, 2009, 384, 290-295.	1.0	2
104	Complete mitochondrial genome of â€œXenopus tropicalisâ€•Asashima line (Anura: Pipidae), a possible undescribed species. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2016, 27, 3341-3343.	0.7	2
105	An in vitro reconstitution system for the assessment of chromatin protein fluidity during Xenopus development. Biochemical and Biophysical Research Communications, 2010, 400, 200-206.	1.0	0
106	Mechanobiology During Vertebrate Organ Development. , 2011, , 39-47.		0