

Makoto Asashima

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106
papers

3,458
citations

29
h-index

55
g-index

106
ext. papers

4,031
ext. citations

5.1
avg, IF

4.55
L-index

#	Paper	IF	Citations
106	Genome evolution in the allotetraploid frog <i>Xenopus laevis</i> . <i>Nature</i> , 2016 , 538, 336-343	50.4	510
105	Development of defective and persistent Sendai virus vector: a unique gene delivery/expression system ideal for cell reprogramming. <i>Journal of Biological Chemistry</i> , 2011 , 286, 4760-71	5.4	251
104	IGFBP-4 is an inhibitor of canonical Wnt signalling required for cardiogenesis. <i>Nature</i> , 2008 , 454, 345-9	50.4	171
103	Glycome diagnosis of human induced pluripotent stem cells using lectin microarray. <i>Journal of Biological Chemistry</i> , 2011 , 286, 20345-53	5.4	151
102	The conserved Rieske oxygenase DAF-36/Neverland is a novel cholesterol-metabolizing enzyme. <i>Journal of Biological Chemistry</i> , 2011 , 286, 25756-62	5.4	118
101	Intensely fluorescent azobenzenes: synthesis, crystal structures, effects of substituents, and application to fluorescent vital stain. <i>Chemistry - A European Journal</i> , 2010 , 16, 5026-35	4.8	85
100	Molecular links among the causative genes for ocular malformation: Otx2 and Sox2 coregulate Rax expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5408-13	11.5	82
99	Elimination of tumorigenic human pluripotent stem cells by a recombinant lectin-toxin fusion protein. <i>Stem Cell Reports</i> , 2015 , 4, 811-20	8	80
98	Generation of stomach tissue from mouse embryonic stem cells. <i>Nature Cell Biology</i> , 2015 , 17, 984-93	23.4	71
97	Xapelin and Xmsr are required for cardiovascular development in <i>Xenopus laevis</i> . <i>Developmental Biology</i> , 2006 , 298, 188-200	3.1	69
96	Directed induction of anterior and posterior primitive streak by Wnt from embryonic stem cells cultured in a chemically defined serum-free medium. <i>FASEB Journal</i> , 2009 , 23, 114-22	0.9	68
95	Structural and quantitative evidence for dynamic glycome shift on production of induced pluripotent stem cells. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, 1913-23	7.6	68
94	A crucial role of a high mobility group protein HMGA2 in cardiogenesis. <i>Nature Cell Biology</i> , 2008 , 10, 567-74	23.4	68
93	Decreased expression of CXXC4 promotes a malignant phenotype in renal cell carcinoma by activating Wnt signaling. <i>Oncogene</i> , 2009 , 28, 297-305	9.2	67
92	Dullard promotes degradation and dephosphorylation of BMP receptors and is required for neural induction. <i>Developmental Cell</i> , 2006 , 11, 763-74	10.2	65
91	Pdx1-transfected adipose tissue-derived stem cells differentiate into insulin-producing cells in vivo and reduce hyperglycemia in diabetic mice. <i>International Journal of Developmental Biology</i> , 2010 , 54, 699-705	1.9	61
90	TIF1beta regulates the pluripotency of embryonic stem cells in a phosphorylation-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10926-31	11.5	60

89	Podocalyxin is a glycoprotein ligand of the human pluripotent stem cell-specific probe rBC2LCN. <i>Stem Cells Translational Medicine</i> , 2013 , 2, 265-73	6.9	57
88	BMP4 induction of trophoblast from mouse embryonic stem cells in defined culture conditions on laminin. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2010 , 46, 416-30	2.6	57
87	Biosynthesis of ribosomal RNA in nucleoli regulates pluripotency and differentiation ability of pluripotent stem cells. <i>Stem Cells</i> , 2014 , 32, 3099-111	5.8	53
86	rBC2LCN, a new probe for live cell imaging of human pluripotent stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 431, 524-9	3.4	53
85	Wnt protein-mediated satellite cell conversion in adult and aged mice following voluntary wheel running. <i>Journal of Biological Chemistry</i> , 2014 , 289, 7399-412	5.4	49
84	Activin plays a key role in the maintenance of long-term memory and late-LTP. <i>Learning and Memory</i> , 2010 , 17, 176-85	2.8	43
83	Reduction of N-glycolylneuraminic acid in human induced pluripotent stem cells generated or cultured under feeder- and serum-free defined conditions. <i>PLoS ONE</i> , 2010 , 5, e14099	3.7	41
82	MicroRNAs and epigenetics in adult neurogenesis. <i>Advances in Genetics</i> , 2014 , 86, 27-44	3.3	39
81	Occupancy of tissue-specific cis-regulatory modules by Otx2 and TLE/Groucho for embryonic head specification. <i>Nature Communications</i> , 2014 , 5, 4322	17.4	38
80	Microfluidic perfusion culture of human induced pluripotent stem cells under fully defined culture conditions. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 937-47	4.9	33
79	A Novel Therapeutic Strategy for Pancreatic Cancer: Targeting Cell Surface Glycan Using rBC2LC-N Lectin-Drug Conjugate (LDC). <i>Molecular Cancer Therapeutics</i> , 2018 , 17, 183-195	6.1	30
78	Ripply2 is essential for precise somite formation during mouse early development. <i>FEBS Letters</i> , 2007 , 581, 2691-6	3.8	30
77	The requirement of histone modification by PRDM12 and Kdm4a for the development of pre-placodal ectoderm and neural crest in <i>Xenopus</i> . <i>Developmental Biology</i> , 2015 , 399, 164-176	3.1	29
76	Prohibitin 2 regulates the proliferation and lineage-specific differentiation of mouse embryonic stem cells in mitochondria. <i>PLoS ONE</i> , 2014 , 9, e81552	3.7	27
75	N-Cadherin is a prospective cell surface marker of human mesenchymal stem cells that have high ability for cardiomyocyte differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 438, 753-9	3.4	26
74	Induction of differentiation of undifferentiated cells into pancreatic beta cells in vertebrates. <i>International Journal of Developmental Biology</i> , 2012 , 56, 313-23	1.9	25
73	Induction of neural crest cells from mouse embryonic stem cells in a serum-free monolayer culture. <i>International Journal of Developmental Biology</i> , 2010 , 54, 1287-94	1.9	24
72	Nucleoredoxin regulates the Wnt/planar cell polarity pathway in <i>Xenopus</i> . <i>Genes To Cells</i> , 2008 , 13, 965-75		24

71	Enzyme-free passage of human pluripotent stem cells by controlling divalent cations. <i>Scientific Reports</i> , 2014 , 4, 4646	4.9	23
70	Bowline mediates association of the transcriptional corepressor XGrg-4 with Tbx6 during somitogenesis in <i>Xenopus</i> . <i>Biochemical and Biophysical Research Communications</i> , 2007 , 359, 959-64	3.4	23
69	Mitf contributes to melanosome distribution and melanophore dendricity. <i>Pigment Cell and Melanoma Research</i> , 2008 , 21, 56-62	4.5	23
68	A medium hyperglycosylated podocalyxin enables noninvasive and quantitative detection of tumorigenic human pluripotent stem cells. <i>Scientific Reports</i> , 2014 , 4, 4069	4.9	22
67	Proteomic analysis of membrane proteins expressed specifically in pluripotent murine embryonic stem cells. <i>Proteomics</i> , 2009 , 9, 126-37	4.8	22
66	N-cadherin is a useful marker for the progenitor of cardiomyocytes differentiated from mouse ES cells in serum-free condition. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 351, 877-82	3.4	22
65	Diabetes and stem cell function. <i>BioMed Research International</i> , 2015 , 2015, 592915	3	21
64	Induction of intermediate mesoderm by retinoic acid receptor signaling from differentiating mouse embryonic stem cells. <i>International Journal of Developmental Biology</i> , 2013 , 57, 383-9	1.9	21
63	Separation with zwitterionic hydrophilic interaction liquid chromatography improves protein identification by matrix-assisted laser desorption/ionization-based proteomic analysis. <i>Biomedical Chromatography</i> , 2009 , 23, 607-14	1.7	21
62	The <i>Xenopus</i> Bowline/Ripply family proteins negatively regulate the transcriptional activity of T-box transcription factors. <i>International Journal of Developmental Biology</i> , 2009 , 53, 631-9	1.9	21
61	Dullard/Ctdnep1 modulates WNT signalling activity for the formation of primordial germ cells in the mouse embryo. <i>PLoS ONE</i> , 2013 , 8, e57428	3.7	19
60	Possible linkages between the inner and outer cellular states of human induced pluripotent stem cells. <i>BMC Systems Biology</i> , 2011 , 5 Suppl 1, S17	3.5	19
59	Zygotic VegT is required for <i>Xenopus</i> paraxial mesoderm formation and is regulated by Nodal signaling and Eomesodermin. <i>International Journal of Developmental Biology</i> , 2010 , 54, 81-92	1.9	19
58	Tbx6, Thylacine1, and E47 synergistically activate bowline expression in <i>Xenopus</i> somitogenesis. <i>Developmental Biology</i> , 2008 , 313, 816-28	3.1	19
57	Improved efficiency of definitive endoderm induction from human induced pluripotent stem cells in feeder and serum-free culture system. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2015 , 51, 1-8	2.6	18
56	Recombinant Tol2 transposase with activity in <i>Xenopus</i> embryos. <i>FEBS Letters</i> , 2007 , 581, 4333-6	3.8	17
55	Retinoic acid metabolizing factor xCyp26c is specifically expressed in neuroectoderm and regulates anterior neural patterning in <i>Xenopus laevis</i> . <i>International Journal of Developmental Biology</i> , 2008 , 52, 893-901	1.9	17
54	Intrinsic ability of adult stem cell in skeletal muscle: an effective and replenishable resource to the establishment of pluripotent stem cells. <i>Stem Cells International</i> , 2013 , 2013, 420164	5	16

53	Elucidation of the role of activin in organogenesis using a multiple organ induction system with amphibian and mouse undifferentiated cells in vitro. <i>Development Growth and Differentiation</i> , 2008 , 50 Suppl 1, S35-45	3	16
52	The phosphatase Dullard negatively regulates BMP signalling and is essential for nephron maintenance after birth. <i>Nature Communications</i> , 2013 , 4, 1398	17.4	15
51	Translocon-associated protein subunit Trap-1/Ssr3 is required for vascular network formation in the mouse placenta. <i>Developmental Dynamics</i> , 2011 , 240, 394-403	2.9	15
50	Enhanced bone-forming activity of side population cells in the periodontal ligament. <i>Cell Transplantation</i> , 2014 , 23, 691-701	4	14
49	The RNA-binding protein Mex3b has a fine-tuning system for mRNA regulation in early Xenopus development. <i>Development (Cambridge)</i> , 2009 , 136, 2413-22	6.6	14
48	Lipase member H is a novel secreted protein selectively upregulated in human lung adenocarcinomas and bronchioloalveolar carcinomas. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 443, 1141-7	3.4	13
47	XSUMO-1 is required for normal mesoderm induction and axis elongation during early Xenopus development. <i>Developmental Dynamics</i> , 2007 , 236, 2757-66	2.9	13
46	Functional Overload Enhances Satellite Cell Properties in Skeletal Muscle. <i>Stem Cells International</i> , 2016 , 2016, 7619418	5	13
45	Dullard/Ctdnep1 regulates endochondral ossification via suppression of TGF- β signaling. <i>Journal of Bone and Mineral Research</i> , 2015 , 30, 318-29	6.3	12
44	Hippo signaling components, Mst1 and Mst2, act as a switch between self-renewal and differentiation in Xenopus hematopoietic and endothelial progenitors. <i>International Journal of Developmental Biology</i> , 2013 , 57, 407-14	1.9	12
43	The transcriptional coactivators Yap and TAZ are expressed during early Xenopus development. <i>International Journal of Developmental Biology</i> , 2011 , 55, 121-6	1.9	12
42	Ubc9 negatively regulates BMP-mediated osteoblastic differentiation in cultured cells. <i>Bone</i> , 2012 , 50, 1092-9	4.7	11
41	Inhibitory Smad proteins promote the differentiation of mouse embryonic stem cells into ependymal-like ciliated cells. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 401, 1-6	3.4	11
40	Cloning of noggin gene from hydra and analysis of its functional conservation using Xenopus laevis embryos. <i>Evolution & Development</i> , 2010 , 12, 267-74	2.6	11
39	Rapamycin treatment causes developmental delay, pigmentation defects, and gastrointestinal malformation on Xenopus embryogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 404, 974-8	3.4	10
38	XRASGRP2 is essential for blood vessel formation during Xenopus development. <i>International Journal of Developmental Biology</i> , 2010 , 54, 609-15	1.9	10
37	Xenopus furry contributes to release of microRNA gene silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19344-9	11.5	10
36	A stable chimeric fibroblast growth factor (FGF) can successfully replace basic FGF in human pluripotent stem cell culture. <i>PLoS ONE</i> , 2015 , 10, e0118931	3.7	10

35	BMP signaling regulates the differentiation of mouse embryonic stem cells into lung epithelial cell lineages. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2013 , 49, 230-7	2.6	8
34	KDEL tagging: a method for generating dominant-negative inhibitors of the secretion of TGF-beta superfamily proteins. <i>International Journal of Developmental Biology</i> , 2012 , 56, 351-6	1.9	7
33	Activin A regulates growth of gastro-intestinal epithelial cells by mediating epithelial-mesenchymal interaction. <i>Development Growth and Differentiation</i> , 2013 , 55, 786-91	3	7
32	Claudin5 genes encoding tight junction proteins are required for <i>Xenopus</i> heart formation. <i>Development Growth and Differentiation</i> , 2010 , 52, 665-75	3	7
31	Molecular analyses of <i>Xenopus laevis</i> Mesp-related genes. <i>Integrative Zoology</i> , 2009 , 4, 387-94	1.9	7
30	Establishment and culture optimization of a new type of pituitary immortalized cell line. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 463, 1218-24	3.4	6
29	Identification of novel peptides from amphibian (<i>Xenopus tropicalis</i>) skin by direct tissue MALDI-MS analysis. <i>FEBS Journal</i> , 2015 , 282, 102-13	5.7	6
28	Monitoring neurodegeneration in diabetes using adult neural stem cells derived from the olfactory bulb. <i>Stem Cell Research and Therapy</i> , 2013 , 4, 51	8.3	6
27	A lectin-based glycomic approach to identify characteristic features of <i>Xenopus</i> embryogenesis. <i>PLoS ONE</i> , 2013 , 8, e56581	3.7	6
26	Directional migration of neuronal PC12 cells in a ratchet wheel shaped microchamber. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 108, 76-83	3.3	6
25	Physical interaction between Tbx6 and mespb is indispensable for the activation of bowline expression during <i>Xenopus</i> somitogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 372, 607-12	3.4	6
24	Creating frog heart as an organ: in vitro-induced heart functions as a circulatory organ in vivo. <i>International Journal of Developmental Biology</i> , 2010 , 54, 851-6	1.9	6
23	Development of a practical sandwich assay to detect human pluripotent stem cells using cell culture media. <i>Regenerative Therapy</i> , 2017 , 6, 1-8	3.7	5
22	mNanog possesses dorsal mesoderm-inducing ability by modulating both BMP and Activin/nodal signaling in <i>Xenopus</i> ectodermal cells. <i>PLoS ONE</i> , 2012 , 7, e46630	3.7	5
21	Development of Ca ²⁺ signaling mechanisms and cell motility in presumptive ectodermal cells during amphibian gastrulation. <i>Development Growth and Differentiation</i> , 2011 , 53, 37-47	3	5
20	In vitro organogenesis using multipotent cells. <i>Human Cell</i> , 2010 , 23, 1-14	4.5	5
19	TSC-box is essential for the nuclear localization and antiproliferative effect of XTSC-22. <i>Development Growth and Differentiation</i> , 2007 , 49, 197-204	3	5
18	Chemokine ligand <i>Xenopus</i> CXCLC (XCXCLC) regulates cell movements during early morphogenesis. <i>Development Growth and Differentiation</i> , 2011 , 53, 971-81	3	4

17	TRIQQ, a novel family of small proteins localized to the endoplasmic reticulum membrane, is conserved across vertebrates. <i>Zoological Science</i> , 2008 , 25, 706-13	0.8	4
16	Global expression of simulated microgravity-responsive genes in <i>Xenopus</i> liver cells. <i>Zoological Science</i> , 2008 , 25, 828-37	0.8	4
15	Gene expression profile of <i>Xenopus</i> A6 cells cultured under random positioning machine shows downregulation of ion transporter genes and inhibition of dome formation. <i>Advances in Space Research</i> , 2007 , 40, 1694-1702	2.4	4
14	<i>Xenopus</i> galectin-VIa shows highly specific expression in cement glands and is regulated by canonical Wnt signaling. <i>Gene Expression Patterns</i> , 2007 , 7, 852-7	1.5	4
13	Insulin-like factor regulates neural induction through an IGF1 receptor-independent mechanism. <i>Scientific Reports</i> , 2015 , 5, 11603	4.9	3
12	Toward global standardization of conducting fair investigations of allegations of research misconduct. <i>Accountability in Research</i> , 2020 , 27, 327-346	1.9	3
11	Physicochemical and biological characterizations of Pxt peptides from amphibian (<i>Xenopus tropicalis</i>) skin. <i>Journal of Biochemistry</i> , 2016 , 159, 619-29	3.1	3
10	xCOUP-TF-B regulates xCyp26 transcription and modulates retinoic acid signaling for anterior neural patterning in <i>Xenopus</i> . <i>International Journal of Developmental Biology</i> , 2012 , 56, 239-44	1.9	3
9	Characterization of CXC-type chemokine molecules in early <i>Xenopus laevis</i> development. <i>International Journal of Developmental Biology</i> , 2013 , 57, 41-7	1.9	3
8	Complete mitochondrial genome of " <i>Xenopus tropicalis</i> " Asashima line (Anura: Pipidae), a possible undescribed species. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2016 , 27, 3341-3 ¹⁻³		2
7	Novel cell surface genes expressed in the stomach primordium during gastrointestinal morphogenesis of mouse embryos. <i>Gene Expression Patterns</i> , 2012 , 12, 154-63	1.5	2
6	Serum protein isoform profiles indicate the progression of hepatitis C virus-induced liver diseases. <i>International Journal of Molecular Medicine</i> , 2013 , 31, 943-50	4.4	2
5	Xnr3 affects brain patterning via cell migration in the neural-epidermal tissue boundary during early <i>Xenopus</i> embryogenesis. <i>International Journal of Developmental Biology</i> , 2013 , 57, 779-86	1.9	2
4	Bestrophin genes are expressed in <i>Xenopus</i> development. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 384, 290-5	3.4	2
3	A novel gene, BENI is required for the convergent extension during <i>Xenopus laevis</i> gastrulation. <i>Developmental Biology</i> , 2007 , 303, 270-80	3.1	2
2	Mechanobiology During Vertebrate Organ Development 2011 , 39-47		
1	An in vitro reconstitution system for the assessment of chromatin protein fluidity during <i>Xenopus</i> development. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 400, 200-6	3.4	