Shinji Takada

List of Publications by Citations

119 papers	12,307 citations	51 h-index	110 g-index
133 ext. papers	13,301 ext. citations	7 avg, IF	5.69 L-index

#	Paper	IF	Citations
119	Low-density lipoprotein receptor-related protein-5 binds to Axin and regulates the canonical Wnt signaling pathway. *Molecular Cell*, **2001**, 7, 801-9	17.6	665
118	Noggin-mediated antagonism of BMP signaling is required for growth and patterning of the neural tube and somite. *Genes and Development*, **1998**, 12, 1438-52	12.6	640
117	Wnt-3a regulates somite and tailbud formation in the mouse embryo. *Genes and Development*, **1994** , 8, 174-89	12.6	630
116	Wnt signalling required for expansion of neural crest and CNS progenitors. *Nature*, **1997**, 389, 966-70	50.4	595
115	The receptor tyrosine kinase Ror2 is involved in non-canonical Wnt5a/JNK signalling pathway. *Genes To Cells*, **2003**, 8, 645-54	2.3	559
114	Monounsaturated fatty acid modification of Wnt protein: its role in Wnt secretion. *Developmental Cell*, **2006**, 11, 791-801	10.2	558
113	T (Brachyury) is a direct target of Wnt3a during paraxial mesoderm specification. *Genes and Development*, **1999**, 13, 3185-90	12.6	397
112	A histone lysine methyltransferase activated by non-canonical Wnt signalling suppresses PPAR-gamma transactivation. *Nature Cell Biology*, **2007**, 9, 1273-85	23.4	370
111	FGF18 is required for normal cell proliferation and differentiation during osteogenesis and chondrogenesis. *Genes and Development*, **2002**, 16, 870-9	12.6	357
110	JNK functions in the non-canonical Wnt pathway to regulate convergent extension movements in vertebrates. *EMBO Reports*, **2002**, 3, 69-75	6.5	348
109	Low-density lipoprotein receptor-related protein 5 (LRP5) is essential for normal cholesterol metabolism and glucose-induced insulin secretion. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 229-34	11.5	338
108	The expression of the mouse Zic1, Zic2, and Zic3 gene suggests an essential role for Zic genes in body pattern formation. *Developmental Biology*, **1997**, 182, 299-313	3.1	287
107	Phosphorylation of axin, a Wnt signal negative regulator, by glycogen synthase kinase-3beta regulates its stability. *Journal of Biological Chemistry*, **1999**, 274, 10681-4	5.4	282
106	Induction of melanocyte-specific microphthalmia-associated transcription factor by Wnt-3a. *Journal of Biological Chemistry*, **2000**, 275, 14013-6	5.4	252
105	Identification of a link between the tumour suppressor APC and the kinesin superfamily. *Nature Cell Biology*, **2002**, 4, 323-7	23.4	247
104	Evidence that absence of Wnt-3a signaling promotes neuralization instead of paraxial mesoderm development in the mouse. *Developmental Biology*, **1997**, 183, 234-42	3.1	238
103	Regulation of mammalian tooth cusp patterning by ectodin. *Science*, **2005**, 309, 2067-70	33.3	234

102	Cytoskeletal reorganization by soluble Wnt-3a protein signalling. *Genes To Cells*, **1998**, 3, 659-70	2.3	231
101	Wnt signaling plays an essential role in neuronal specification of the dorsal spinal cord. *Genes and Development*, **2002**, 16, 548-53	12.6	220
100	Wnt-dependent regulation of inner ear morphogenesis is balanced by the opposing and supporting roles of Shh. *Genes and Development*, **2005**, 19, 1612-23	12.6	191
99	Analysis of the vestigial tail mutation demonstrates that Wnt-3a gene dosage regulates mouse axial development. *Genes and Development*, **1996**, 10, 313-24	12.6	189
98	Mouse Ror2 receptor tyrosine kinase is required for the heart development and limb formation. *Genes To Cells*, **2000**, 5, 71-8	2.3	177
97	Planar polarization of node cells determines the rotational axis of node cilia. *Nature Cell Biology*, **2010**, 12, 170-6	23.4	167
96	Filopodia formation mediated by receptor tyrosine kinase Ror2 is required for Wnt5a-induced cell migration. *Journal of Cell Biology*, **2006**, 175, 555-62	7.3	167
95	Wnt and BMP signaling govern lineage segregation of melanocytes in the avian embryo. *Developmental Biology*, **2001**, 233, 22-37	3.1	151
94	Stabilized beta-catenin functions through TCF/LEF proteins and the Notch/RBP-Jkappa complex to promote proliferation and suppress differentiation of neural precursor cells. *Molecular and Cellular Biology*, **2008**, 28, 7427-41	4.8	150
93	Integrinalpha5-dependent fibronectin accumulation for maintenance of somite boundaries in zebrafish embryos. *Developmental Cell*, **2005**, 8, 587-98	10.2	150
92	Wnt canonical pathway restricts graded Shh/Gli patterning activity through the regulation of Gli3 expression. *Development (Cambridge)*, **2008**, 135, 237-47	6.6	146
91	Wnt signaling controls the timing of oligodendrocyte development in the spinal cord. *Developmental Biology*, **2005**, 282, 397-410	3.1	131
90	Ror2/Frizzled complex mediates Wnt5a-induced AP-1 activation by regulating Dishevelled polymerization. *Molecular and Cellular Biology*, **2010**, 30, 3610-9	4.8	130
89	Wnt-3a is required for somite specification along the anteroposterior axis of the mouse embryo and for regulation of cdx-1 expression. *Mechanisms of Development*, **2001**, 103, 27-33	1.7	123
88	Wnt proteins promote neuronal differentiation in neural stem cell culture. *Biochemical and Biophysical Research Communications*, **2004**, 313, 915-21	3.4	118
87	Expression of the receptor tyrosine kinase genes, Ror1 and Ror2, during mouse development. *Mechanisms of Development*, **2001**, 105, 153-6	1.7	113
86	Axin prevents Wnt-3a-induced accumulation of beta-catenin. *Oncogene*, **1999**, 18, 979-85	9.2	113
85	Loss of mRor1 enhances the heart and skeletal abnormalities in mRor2-deficient mice: redundant and pleiotropic functions of mRor1 and mRor2 receptor tyrosine kinases. *Molecular and Cellular Biology*, **2001**, 21, 8329-35	4.8	108

84	Inhibition of the Wnt signaling pathway by Idax, a novel Dvl-binding protein. *Molecular and Cellular Biology*, **2001**, 21, 330-42	4.8	105
83	R-spondin, a novel gene with thrombospondin type 1 domain, was expressed in the dorsal neural tube and affected in Wnts mutants. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2004**, 1676, 51-62		104
82	Complex formation of adenomatous polyposis coli gene product and axin facilitates glycogen synthase kinase-3 beta-dependent phosphorylation of beta-catenin and down-regulates beta-catenin. *Journal of Biological Chemistry*, **2000**, 275, 34399-406	5.4	103
81	WilmsStumor 1-associating protein regulates G2/M transition through stabilization of cyclin A2 mRNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 17278-83	11.5	97
80	Zebrafish hairy/enhancer of split protein links FGF signaling to cyclic gene expression in the periodic segmentation of somites. *Genes and Development*, **2005**, 19, 1156-61	12.6	82
79	Laminar patterning in the developing neocortex by temporally coordinated fibroblast growth factor signaling. *Journal of Neuroscience*, **2004**, 24, 8711-9	6.6	82
78	A novel beta-catenin-binding protein inhibits beta-catenin-dependent Tcf activation and axis formation. *Journal of Biological Chemistry*, **2000**, 275, 32871-8	5.4	82
77	Motor neurons with axial muscle projections specified by Wnt4/5 signaling. *Neuron*, **2009**, 61, 708-20	13.9	76
76	Wnt signaling regulates hemopoiesis through stromal cells. *Journal of Immunology*, **2001**, 167, 765-72	5.3	75
75	Identification of a PDZ domain containing Golgi protein, GOPC, as an interaction partner of frizzled. *Biochemical and Biophysical Research Communications*, **2001**, 286, 771-8	3.4	71
74	Fgf18 is required for embryonic lung alveolar development. *Biochemical and Biophysical Research Communications*, **2004**, 322, 887-92	3.4	68
73	Groucho-associated transcriptional repressor ripply1 is required for proper transition from the presomitic mesoderm to somites. *Developmental Cell*, **2005**, 9, 735-44	10.2	66
72	Activation of canonical Wnt pathway promotes proliferation of retinal stem cells derived from adult mouse ciliary margin. *Stem Cells*, **2006**, 24, 95-104	5.8	64
71	Leucophores are similar to xanthophores in their specification and differentiation processes in medaka. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7343-8	11.5	59
70	Identification of the laminar-inducing factor: Wnt-signal from the anterior rim induces correct laminar formation of the neural retina in vitro. *Developmental Biology*, **2003**, 260, 414-25	3.1	56
69	Activator-to-repressor conversion of T-box transcription factors by the Ripply family of Groucho/TLE-associated mediators. *Molecular and Cellular Biology*, **2008**, 28, 3236-44	4.8	53
68	Probability that the commitment of murine erythroleukemia cell differentiation is determined by the c-myc level. *Journal of Molecular Biology*, **1988**, 202, 779-86	6.5	51
67	SHISA6 Confers Resistance to Differentiation-Promoting Wnt/Catenin Signaling in Mouse Spermatogenic Stem Cells. *Stem Cell Reports*, **2017**, 8, 561-575	8	50

66	Insm1 promotes endocrine cell differentiation by modulating the expression of a network of genes that includes Neurog3 and Ripply3. *Development (Cambridge)*, **2014**, 141, 2939-49	6.6	50
65	Grainyhead-related transcription factor is required for duct maturation in the salivary gland and the kidney of the mouse. *Development (Cambridge)*, **2006**, 133, 4737-48	6.6	49
64	Analysis of combinatorial effects of Wnts and Frizzleds on beta-catenin/armadillo stabilization and Dishevelled phosphorylation. *Genes To Cells*, **2005**, 10, 919-28	2.3	49
63	Anteriorization of neural fate by inhibitor of beta-catenin and T cell factor (ICAT), a negative regulator of Wnt signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 8017-21	11.5	49
62	Analysis of Ripply1/2-deficient mouse embryos reveals a mechanism underlying the rostro-caudal patterning within a somite. *Developmental Biology*, **2010**, 342, 134-45	3.1	48
61	Ripply3, a Tbx1 repressor, is required for development of the pharyngeal apparatus and its derivatives in mice. *Development (Cambridge)*, **2011**, 138, 339-48	6.6	44
60	Determinative role of Wnt signals in dorsal iris-derived lens regeneration in newt eye. *Mechanisms of Development*, **2006**, 123, 793-800	1.7	44
59	Cellular FLIP inhibits beta-catenin ubiquitylation and enhances Wnt signaling. *Molecular and Cellular Biology*, **2004**, 24, 8418-27	4.8	39
58	Paf1 complex homologues are required for Notch-regulated transcription during somite segmentation. *EMBO Reports*, **2007**, 8, 858-63	6.5	38
57	Antisense RNA of the latent period gene (MER5) inhibits the differentiation of murine erythroleukemia cells. *Gene*, **1990**, 91, 261-5	3.8	38
56	Different populations of Wnt-containing vesicles are individually released from polarized epithelial cells. *Scientific Reports*, **2016**, 6, 35562	4.9	37
55	Wnt10a is involved in AER formation during chick limb development. *Developmental Dynamics*, **2005**, 233, 282-7	2.9	33
54	Differences in the secretion and transport of Wnt proteins. *Journal of Biochemistry*, **2017**, 161, 1-7	3.1	30
53	Wnt/beta-catenin signaling suppresses apoptosis in low serum medium and induces morphologic change in rodent fibroblasts. *International Journal of Cancer*, **2002**, 99, 681-8	7.5	30
52	Mesogenin causes embryonic mesoderm progenitors to differentiate during development of zebrafish tail somites. *Developmental Biology*, **2012**, 370, 213-22	3.1	28
51	Inhibitory effect of a presenilin 1 mutation on the Wnt signalling pathway by enhancement of beta-catenin phosphorylation. *FEBS Journal*, **2001**, 268, 3036-41		27
50	Wnt3a promotes hippocampal neurogenesis by shortening cell cycle duration of neural progenitor cells. *Cellular and Molecular Neurobiology*, **2010**, 30, 1049-58	4.6	26
49	Posttranscriptional regulation of alpha-catenin expression is required for Wnt signaling in L cells. *Biochemical and Biophysical Research Communications*, **2000**, 277, 691-8	3.4	26

48	Quadruple zebrafish mutant reveals different roles of Mesp genes in somite segmentation between mouse and zebrafish. *Development (Cambridge)*, **2016**, 143, 2842-52	6.6	26
47	Roles of two types of heparan sulfate clusters in Wnt distribution and signaling in Xenopus. *Nature Communications*, **2017**, 8, 1973	17.4	24
46	Molecular mechanism for cyclic generation of somites: Lessons from mice and zebrafish. *Development Growth and Differentiation*, **2016**, 58, 31-42	3	23
45	Modulation of Wnt signaling by the nuclear localization of cellular FLIP-L. *Journal of Cell Science*, **2010**, 123, 23-8	5.3	22
44	Viral FLIP enhances Wnt signaling downstream of stabilized beta-catenin, leading to control of cell growth. *Molecular and Cellular Biology*, **2005**, 25, 9249-58	4.8	22
43	A novel regulatory mechanism for Fgf18 signaling involving cysteine-rich FGF receptor (Cfr) and delta-like protein (Dlk). *Development (Cambridge)*, **2010**, 137, 159-67	6.6	21
42	Loss of Porcupine impairs convergent extension during gastrulation in zebrafish. *Journal of Cell Science*, **2012**, 125, 2224-34	5.3	20
41	p73beta, a variant of p73, enhances Wnt/beta-catenin signaling in Saos-2 cells. *Biochemical and Biophysical Research Communications*, **2001**, 283, 327-33	3.4	19
40	Expression of vinexin alpha in the dorsal half of the eye and in the cardiac outflow tract and atrioventricular canal. *Mechanisms of Development*, **2001**, 106, 147-50	1.7	19
39	Development and fibronectin signaling requirements of the zebrafish interrenal vessel. *PLoS ONE*, **2012**, 7, e43040	3.7	19
38	Tbx protein level critical for clock-mediated somite positioning is regulated through interaction between Tbx and Ripply. *PLoS ONE*, **2014**, 9, e107928	3.7	18
37	Functional cooperation of spns2 and fibronectin in cardiac and lower jaw development. *Biology Open*, **2013**, 2, 789-94	2.2	18
36	Impairment of the ubiquitin-proteasome system by cellular FLIP. *Genes To Cells*, **2007**, 12, 735-44	2.3	18
35	Genomic organization of the Shc-related phosphotyrosine adapters and characterization of the full-length Sck/ShcB: specific association of p68-Sck/ShcB with pp135. *Biochemical and Biophysical Research Communications*, **2001**, 284, 1039-47	3.4	18
34	Nontrivial Effect of the Color-Exchange of a Donor/Acceptor Pair in the Engineering of F□ster Resonance Energy Transfer (FRET)-Based Indicators. *ACS Chemical Biology*, **2016**, 11, 1816-22	4.9	18
33	Metameric pattern of intervertebral disc/vertebral body is generated independently of Mesp2/Ripply-mediated rostro-caudal patterning of somites in the mouse embryo. *Developmental Biology*, **2013**, 380, 172-84	3.1	16
32	Wnt produced by stretched roof-plate cells is required for the promotion of cell proliferation around the central canal of the spinal cord. *Development (Cambridge)*, **2019**, 146,	6.6	14
31	Assembly of protein complexes restricts diffusion of Wnt3a proteins. *Communications Biology*, **2018** , 1, 165	6.7	13

30	Notch signaling regulates venous arterialization during zebrafish fin regeneration. *Genes To Cells*, **2015**, 20, 427-38	2.3	12
29	Gene trap screening as an effective approach for identification of Wnt-responsive genes in the mouse embryo. *Developmental Dynamics*, **2005**, 233, 484-95	2.9	11
28	Axial level-dependent molecular and cellular mechanisms underlying the genesis of the embryonic neural plate. *Development Growth and Differentiation*, **2016**, 58, 427-36	3	11
27	Heparan Sulfate Proteoglycan Clustering in Wnt Signaling and Dispersal. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 631	5.7	10
26	Reiterative expression of pax1 directs pharyngeal pouch segmentation in medaka. *Development (Cambridge)*, **2016**, 143, 1800-10	6.6	9
25	Improvement of Phycocyanobilin Synthesis for Genetically Encoded Phytochrome-Based Optogenetics. *ACS Chemical Biology*, **2020**, 15, 2896-2906	4.9	9
24	Quantitative analyses reveal extracellular dynamics of Wnt ligands in embryos. *ELife*, **2021**, 10,	8.9	9
23	Function of c-myc on erythroid differentiation and heme synthesis. *Stem Cells*, **1994**, 12, 55-63	5.8	8
22	Modulation of the transferred mouse 26K casein gene in mouse L cells by glucocorticoid hormone. *Journal of Biochemistry*, **1987**, 101, 103-10	3.1	7
21	R26-WntVis reporter mice showing graded response to Wnt signal levels. *Genes To Cells*, **2016**, 21, 661-9	2.3	7
20	Novel components of germline sex determination acting downstream of foxl3 in medaka. *Developmental Biology*, **2019**, 445, 80-89	3.1	7
19	Pharyngeal arch deficiencies affect taste bud development in the circumvallate papilla with aberrant glossopharyngeal nerve formation. *Developmental Dynamics*, **2015**, 244, 874-87	2.9	6
18	c-Myc interferes with the commitment to differentiation of murine erythroleukemia cells at a reversible point. *Japanese Journal of Cancer Research*, **1992**, 83, 61-5		6
17	A balance between self-renewal and commitment in the murine erythroleukemia cells with the transferred c-myc gene; an in vitro stochastic model. *Cell Differentiation and Development*, **1989**, 28, 129-33		6
16	Optogenetic relaxation of actomyosin contractility uncovers mechanistic roles of cortical tension during cytokinesis. *Nature Communications*, **2021**, 12, 7145	17.4	5
15	Quantitative analyses reveal extracellular dynamics of Wnt ligands in Xenopus embryos		5
14	Overexpression of c-Myc inhibits the appearance of a specific DNase I hypersensitive site in the beta-globin chromatin in murine erythroleukemia cells. *Japanese Journal of Cancer Research*, **1991**, 82, 376-9		4
13	Regulation of Wnt/PCP signaling through p97/VCP-KBTBD7-mediated Vangl ubiquitination and endoplasmic reticulum-associated degradation. *Science Advances*, **2021**, 7,	14.3	4

12	Posterior-anterior gradient of zebrafish hes6 expression in the presomitic mesoderm is established by the combinatorial functions of the downstream enhancer and 3SUTR. *Developmental Biology*, **2016**, 409, 543-54	3.1	3
11	Functional roles of the Ripply-mediated suppression of segmentation gene expression at the anterior presomitic mesoderm in zebrafish. *Mechanisms of Development*, **2018**, 152, 21-31	1.7	3
10	Transcriptional autoregulation of zebrafish is required for somite segmentation. *Development (Cambridge)*, **2019**, 146,	6.6	2
9	Characterization of trans-acting factor(s) regulating beta-globin gene expression by in vivo competition. *Cell Differentiation*, **1987**, 21, 111-8		2
8	PKN1 promotes synapse maturation by inhibiting mGluR-dependent silencing through neuronal glutamate transporter activation. *Communications Biology*, **2020**, 3, 710	6.7	2
7	Effect of retinoic acid signaling on Ripply3 expression and pharyngeal arch morphogenesis in mouse embryos. *Developmental Dynamics*, **2021**, 250, 1036-1050	2.9	2
6	Genome Editing in Zebrafish and Medaka **2015**, 119-131		1
5	Ripply3 is required for the maintenance of epithelial sheets in the morphogenesis of pharyngeal pouches. *Development Growth and Differentiation*, **2018**, 60, 87-96	3	1
4	Loss of Porcupine impairs convergent extension during gastrulation in zebrafish. *Development (Cambridge)*, **2012**, 139, e1-e1	6.6	1
3	The second pharyngeal pouch is generated by dynamic remodeling of endodermal epithelium in zebrafish. *Development (Cambridge)*, **2020**, 147,	6.6	1
2	Role of c-Myc on erythroid differentiation. *Tohoku Journal of Experimental Medicine*, **1992**, 168, 203-10	2.4	
1	Selective suppression of endogenous beta-globin gene expression by transferred beta-globin/TK chimeric gene in murine erythroleukemia cells. *Cell Differentiation and Development*, **1989**, 27, 9-18		