Shinji Takada

List of Publications by Year
in descending order

120 papers	14,295 citations	28190 55 h-index	19690 117 g-index
133 all docs	133 docs citations	133 times ranked	14515 citing authors

#	Article	IF	Citations
1	Low-Density Lipoprotein Receptor-Related Protein-5 Binds to Axin and Regulates the Canonical Wnt Signaling Pathway. Molecular Cell, 2001, 7, 801-809.	4.5	756
2	Noggin-mediated antagonism of BMP signaling is required for growth and patterning of the neural tube andâ€‰somite. Genes and Development, 1998, 12, 1438-1452.	2.7	732
3	Wnt-3a regulates somite and tailbud formation in the mouse embryo.. Genes and Development, 1994, 8, 174-189.	2.7	725
4	Monounsaturated Fatty Acid Modification of Wnt Protein: Its Role in Wnt Secretion. Developmental Cell, 2006, 11, 791-801.	3.1	671
5	Wnt signalling required for expansion of neural crest and CNS progenitors. Nature, 1997, 389, 966-970.	13.7	655
6	The receptor tyrosine kinase Ror2 is involved in non-canonical Wnt5a/JNK signalling pathway. Genes To Cells, 2003, 8, 645-654.	0.5	651
7	T (Brachyury) is a direct target of Wnt3a during paraxial mesoderm specification. Genes and Development, 1999, 13, 3185-3190.	2.7	464
8	FGF18 is required for normal cell proliferation and differentiation during osteogenesis and chondrogenesis. Genes and Development, 2002, 16, 870-879.	2.7	424
9	A histone lysine methyltransferase activated by non-canonical Wnt signalling suppresses PPAR-Î³ transactivation. Nature Cell Biology, 2007, 9, 1273-1285.	4.6	400
10	JNK functions in the nonâ€canonical Wnt pathway to regulate convergent extension movements in vertebrates. EMBO Reports, 2002, 3, 69-75.	2.0	394
11	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, 229-234.	3.3	382
12	Phosphorylation of Axin, a Wnt Signal Negative Regulator, by Glycogen Synthase Kinase-3Î² Regulates Its Stability. Journal of Biological Chemistry, 1999, 274, 10681-10684.	1.6	331
13	The Expression of the MouseZic1, Zic2,andZic3Gene Suggests an Essential Role forZicGenes in Body Pattern Formation. Developmental Biology, 1997, 182, 299-313.	0.9	307
14	Induction of Melanocyte-specific Microphthalmia-associated Transcription Factor by Wnt-3a. Journal of Biological Chemistry, 2000, 275, 14013-14016.	1.6	289
15	Identification of a link between the tumour suppressor APC and the kinesin superfamily. Nature Cell Biology, 2002, 4, 323-327.	4.6	278
16	Evidence That Absence ofWnt-3aSignaling Promotes Neuralization Instead of Paraxial Mesoderm Development in the Mouse. Developmental Biology, 1997, 183, 234-242.	0.9	267
17	Regulation of Mammalian Tooth Cusp Patterning by Ectodin. Science, 2005, 309, 2067-2070.	6.0	256
18	Wnt signaling plays an essential role in neuronal specification of the dorsal spinal cord. Genes and Development, 2002, 16, 548-553.	2.7	251

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19	Analysis of the vestigial tail mutation demonstrates that Wnt-3a gene dosage regulates mouse axial development.. Genes and Development, 1996, 10, 313-324.	2.7	240
20	Cytoskeletal reorganization by soluble Wntâ€3a protein signalling. Genes To Cells, 1998, 3, 659-670.	0.5	240
21	Wnt-dependent regulation of inner ear morphogenesis is balanced by the opposing and supporting roles of Shh. Genes and Development, 2005, 19, 1612-1623.	2.7	224
22	Mouse Ror2 receptor tyrosine kinase is required for the heart development and limb formation. Genes To Cells, 2000, 5, 71-78.	0.5	197
23	Planar polarization of node cells determines the rotational axis of node cilia. Nature Cell Biology, 2010, 12, 170-176.	4.6	190
24	Filopodia formation mediated by receptor tyrosine kinase Ror2 is required for Wnt5a-induced cell migration. Journal of Cell Biology, 2006, 175, 555-562.	2.3	187
25	Wnt and BMP Signaling Govern Lineage Segregation of Melanocytes in the Avian Embryo. Developmental Biology, 2001, 233, 22-37.	0.9	174
26	Wnt canonical pathway restricts graded Shh/Gli patterning activity through the regulation of Gli3 expression. Development (Cambridge), 2008, 135, 237-247.	1.2	170
27	IntegrinÎ±5-Dependent Fibronectin Accumulation for Maintenance of Somite Boundaries in Zebrafish Embryos. Developmental Cell, 2005, 8, 587-598.	3.1	165
28	Stabilized Î²-Catenin Functions through TCF/LEF Proteins and the Notch/RBP-JÎº Complex To Promote Proliferation and Suppress Differentiation of Neural Precursor Cells. Molecular and Cellular Biology, 2008, 28, 7427-7441.	1.1	163
29	Ror2/Frizzled Complex Mediates Wnt5a-Induced AP-1 Activation by Regulating Dishevelled Polymerization. Molecular and Cellular Biology, 2010, 30, 3610-3619.	1.1	157
30	Wnt signaling controls the timing of oligodendrocyte development in the spinal cord. Developmental Biology, 2005, 282, 397-410.	0.9	144
31	Wilms' tumor 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, 17278-17283.	3.3	132
32	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	130
33	Expression of the receptor tyrosine kinase genes, Ror1 and Ror2, during mouse development. Mechanisms of Development, 2001, 105, 153-156.	1.7	130
34	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.	2.4	129
35	Wnt proteins promote neuronal differentiation in neural stem cell culture. Biochemical and Biophysical Research Communications, 2004, 313, 915-921.	1.0	129
36	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, 8329-8335.	1.1	122

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37	Axin prevents Wnt-3a-induced accumulation of Î²-catenin. Oncogene, 1999, 18, 979-985.	2.6	120
38	Complex Formation of Adenomatous Polyposis Coli Gene Product and Axin Facilitates Glycogen Synthase Kinase-3Î²-dependent Phosphorylation of Î²-Catenin and Down-regulates Î²-Catenin. Journal of Biological Chemistry, 2000, 275, 34399-34406.	1.6	116
39	Inhibition of the Wnt Signaling Pathway by Idax, a Novel Dvl-Binding Protein. Molecular and Cellular Biology, 2001, 21, 330-342.	1.1	114
40	Motor Neurons with Axial Muscle Projections Specified by Wnt4/5 Signaling. Neuron, 2009, 61, 708-720.	3.8	93
41	A Novel Î²-Catenin-binding Protein Inhibits Î²-Catenin-dependent Tcf Activation and Axis Formation. Journal of Biological Chemistry, 2000, 275, 32871-32878.	1.6	92
42	Zebrafish Hairy/Enhancer of split protein links FGF signaling to cyclic gene expression in the periodic segmentation of somites. Genes and Development, 2005, 19, 1156-1161.	2.7	90
43	Laminar Patterning in the Developing Neocortex by Temporally Coordinated Fibroblast Growth Factor Signaling. Journal of Neuroscience, 2004, 24, 8711-8719.	1.7	89
44	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, 7343-7348.	3.3	83
45	Wnt Signaling Regulates Hemopoiesis Through Stromal Cells. Journal of Immunology, 2001, 167, 765-772.	0.4	81
46	Groucho-Associated Transcriptional Repressor Ripply1 Is Required for Proper Transition from the Presomitic Mesoderm to Somites. Developmental Cell, 2005, 9, 735-744.	3.1	80
47	SHISA6 Confers Resistance to Differentiation-Promoting Wnt/Î²-Catenin Signaling in Mouse Spermatogenic Stem Cells. Stem Cell Reports, 2017, 8, 561-575.	2.3	79
48	Identification of a PDZ Domain Containing Golgi Protein, GOPC, as an Interaction Partner of Frizzled. Biochemical and Biophysical Research Communications, 2001, 286, 771-778.	1.0	78
49	Fgf18 is required for embryonic lung alveolar development. Biochemical and Biophysical Research Communications, 2004, 322, 887-892.	1.0	78
50	Activation of Canonical Wnt Pathway Promotes Proliferation of Retinal Stem Cells Derived from Adult Mouse Ciliary Margin. Stem Cells, 2006, 24, 95-104.	1.4	72
51	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, 414-425.	0.9	65
52	<i>Insm1</i> promotes endocrine cell differentiation by modulating the expression of a network of genes that includes <i>Neurog3</i> and <i>Ripply3</i>. Development (Cambridge), 2014, 141, 2939-2949.	1.2	63
53	Activator-to-Repressor Conversion of T-Box Transcription Factors by the Ripply Family of Groucho/TLE-Associated Mediators. Molecular and Cellular Biology, 2008, 28, 3236-3244.	1.1	60
54	Ripply3, a Tbx1 repressor, is required for development of the pharyngeal apparatus and its derivatives in mice. Development (Cambridge), 2011, 138, 339-348.	1.2	60

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55	Grainyhead-related transcription factor is required for duct maturation in the salivary gland and the kidney of the mouse. Development (Cambridge), 2006, 133, 4737-4748.	1.2	58
56	Probability that the commitment of murine erythroleukemia cell differentiation is determined by the c-myc level. Journal of Molecular Biology, 1988, 202, 779-786.	2.0	57
57	Analysis of Ripply1/2-deficient mouse embryos reveals a mechanism underlying the rostro-caudal patterning within a somite. Developmental Biology, 2010, 342, 134-145.	0.9	55
58	Anteriorization of neural fate by inhibitor of Â-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, 8017-8021.	3.3	54
59	Paf1 complex homologues are required for Notchâ€regulated transcription during somite segmentation. EMBO Reports, 2007, 8, 858-863.	2.0	53
60	Analysis of combinatorial effects of Wnts and Frizzleds on beta-catenin/armadillo stabilization and Dishevelled phosphorylation. Genes To Cells, 2005, 10, 919-928.	0.5	52
61	Different populations of Wnt-containing vesicles are individually released from polarized epithelial cells. Scientific Reports, 2016, 6, 35562.	1.6	52
62	Determinative role of Wnt signals in dorsal iris-derived lens regeneration in newt eye. Mechanisms of Development, 2006, 123, 793-800.	1.7	49
63	Cellular FLIP Inhibits Î²-Catenin Ubiquitylation and Enhances Wnt Signaling. Molecular and Cellular Biology, 2004, 24, 8418-8427.	1.1	47
64	Mesogenin causes embryonic mesoderm progenitors to differentiate during development of zebrafish tail somites. Developmental Biology, 2012, 370, 213-222.	0.9	42
65	Antisense RNA of the latent period gene (MER5) inhibits the differentiation of murine erythroleukemia cells. Gene, 1990, 91, 261-265.	1.0	41
66	Differences in the secretion and transport of Wnt proteins. Journal of Biochemistry, 2017, 161, 1-7.	0.9	39
67	Roles of two types of heparan sulfate clusters in Wnt distribution and signaling in Xenopus. Nature Communications, 2017, 8, 1973.	5.8	38
68	<i>Mesp</i> quadruple zebrafish mutant reveals different roles of <i>mesp</i> genes in somite segmentation between mouse and zebrafish. Development (Cambridge), 2016, 143, 2842-52.	1.2	37
69	Posttranscriptional Regulation of Î±-Catenin Expression Is Required for Wnt Signaling in L Cells. Biochemical and Biophysical Research Communications, 2000, 277, 691-698.	1.0	34
70	Wnt10a is involved in AER formation during chick limb development. Developmental Dynamics, 2005, 233, 282-287.	0.8	34
71	Viral FLIP Enhances Wnt Signaling Downstream of Stabilized Î²-Catenin, Leading to Control of Cell Growth. Molecular and Cellular Biology, 2005, 25, 9249-9258.	1.1	32
72	Wnt3a Promotes Hippocampal Neurogenesis by Shortening Cell Cycle Duration of Neural Progenitor Cells. Cellular and Molecular Neurobiology, 2010, 30, 1049-1058.	1.7	32

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73	Wnt/?-catenin signaling suppresses apoptosis in low serum medium and induces morphologic change in rodent fibroblasts. International Journal of Cancer, 2002, 99, 681-688.	2.3	31
74	Molecular mechanism for cyclic generation of somites: Lessons from mice and zebrafish. Development Growth and Differentiation, 2016, 58, 31-42.	0.6	31
75	Inhibitory effect of a presenilin 1 mutation on the Wnt signalling pathway by enhancement of Î²-catenin phosphorylation. FEBS Journal, 2001, 268, 3036-3041.	0.2	30
76	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, .	1.2	30
77	Optogenetic relaxation of actomyosin contractility uncovers mechanistic roles of cortical tension during cytokinesis. Nature Communications, 2021, 12, 7145.	5.8	30
78	Tbx Protein Level Critical for Clock-Mediated Somite Positioning Is Regulated through Interaction between Tbx and Ripply. PLoS ONE, 2014, 9, e107928.	1.1	27
79	Heparan Sulfate Proteoglycan Clustering in Wnt Signaling and Dispersal. Frontiers in Cell and Developmental Biology, 2020, 8, 631.	1.8	27
80	Modulation of Wnt signaling by the nuclear localization of cellular FLIP-L. Journal of Cell Science, 2010, 123, 23-28.	1.2	26
81	Deficiency of Porcupine, an O-acyltransferase gene, impairs convergent extension during gastrulation in zebrafish embryos and does not affect equivalently the trafficking of different Wnt proteins.. Journal of Cell Science, 2012, 125, 2224-34.	1.2	24
82	Functional cooperation of spns2 and fibronectin in cardiac and lower jaw development. Biology Open, 2013, 2, 789-794.	0.6	24
83	A novel regulatory mechanism for Fgf18 signaling involving cysteine-rich FGF receptor (Cfr) and delta-like protein (Dlk). Development (Cambridge), 2010, 137, 159-167.	1.2	23
84	Assembly of protein complexes restricts diffusion of Wnt3a proteins. Communications Biology, 2018, 1, 165.	2.0	23
85	Development and Fibronectin Signaling Requirements of the Zebrafish Interrenal Vessel. PLoS ONE, 2012, 7, e43040.	1.1	23
86	p73Î², a Variant of p73, Enhances Wnt/Î²-Catenin Signaling in Saos-2 Cells. Biochemical and Biophysical Research Communications, 2001, 283, 327-333.	1.0	22
87	Improvement of Phycocyanobilin Synthesis for Genetically Encoded Phytochrome-Based Optogenetics. ACS Chemical Biology, 2020, 15, 2896-2906.	1.6	22
88	Impairment of the ubiquitin-proteasome system by cellular FLIP. Genes To Cells, 2007, 12, 070606122915005-???.	0.5	21
89	Nontrivial Effect of the Color-Exchange of a Donor/Acceptor Pair in the Engineering of FÃ¶rster Resonance Energy Transfer (FRET)-Based Indicators. ACS Chemical Biology, 2016, 11, 1816-1822.	1.6	21
90	Regulation of Wnt/PCP signaling through p97/VCP-KBTBD7â€"mediated Vangl ubiquitination and endoplasmic reticulumâ€"associated degradation. Science Advances, 2021, 7, .	4.7	21

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91	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, 1039-1047.	1.0	20
92	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, 172-184.	0.9	20
93	Expression of vinexin Î± in the dorsal half of the eye and in the cardiac outflow tract and atrioventricular canal. Mechanisms of Development, 2001, 106, 147-150.	1.7	19
94	Notch signaling regulates venous arterialization during zebrafish fin regeneration. Genes To Cells, 2015, 20, 427-438.	0.5	17
95	Novel components of germline sex determination acting downstream of foxl3 in medaka. Developmental Biology, 2019, 445, 80-89.	0.9	17
96	Axial levelâ€dependent molecular and cellular mechanisms underlying the genesis of the embryonic neural plate. Development Growth and Differentiation, 2016, 58, 427-436.	0.6	15
97	R26â€WntVis reporter mice showing graded response to Wnt signal levels. Genes To Cells, 2016, 21, 661-669.	0.5	14
98	Quantitative analyses reveal extracellular dynamics of Wnt ligands in Xenopus embryos. ELife, 2021, 10, .	2.8	14
99	Gene trap screening as an effective approach for identification of Wnt-responsive genes in the mouse embryo. Developmental Dynamics, 2005, 233, 484-495.	0.8	11
100	Reiterative expression of <i>pax1</i> directs pharyngeal pouch segmentation in medaka (<i>Oryzias) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	11
101	Function of c‐mycon erythroid differentiation and heme synthesis. Stem Cells, 1994, 12, 55-63.	1.4	9
102	Transcriptional autoregulation of zebrafish <i>tbx6</i> is required for somite segmentation. Development (Cambridge), 2019, 146, .	1.2	9
103	Morphological and Functional Changes of Roof Plate Cells in Spinal Cord Development. Journal of Developmental Biology, 2021, 9, 30.	0.9	9
104	Modulation of the Transferred Mouse 26K Casein Gene in Mouse L Cells by Glucocorticoid Hormone1. Journal of Biochemistry, 1987, 101, 103-110.	0.9	8
105	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	8
106	c-Myc Interferes with the Commitment to Differentiation of Murine Erythroleukemia Cells at a Reversible Point. Japanese Journal of Cancer Research, 1992, 83, 61-65.	1.7	7
107	Pharyngeal arch deficiencies affect taste bud development in the circumvallate papilla with aberrant glossopharyngeal nerve formation. Developmental Dynamics, 2015, 244, 874-887.	0.8	7
108	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, 129-133.	0.4	6

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109	Posteriorâ€"anterior gradient of zebrafish hes6 expression in the presomitic mesoderm is established by the combinatorial functions of the downstream enhancer and 3â€²UTR. Developmental Biology, 2016, 409, 543-554.	0.9	6
110	PKN1 promotes synapse maturation by inhibiting mGluR-dependent silencing through neuronal glutamate transporter activation. Communications Biology, 2020, 3, 710.	2.0	6
111	The second pharyngeal pouch is generated by dynamic remodeling of endodermal epithelium in zebrafish. Development (Cambridge), 2020, 147, .	1.2	6
112	Overexpression of c-Myc Inhibits the Appearance of a Specific DNase I Hypersensitive Site in the Î²-Globin Chromatin in Murine Erythroleukemia Cells. Japanese Journal of Cancer Research, 1991, 82, 376-379.	1.7	4
113	<i>Ripply3</i> is required for the maintenance of epithelial sheets in the morphogenesis of pharyngeal pouches. Development Growth and Differentiation, 2018, 60, 87-96.	0.6	3
114	Characterization of trans-acting factor(s) regulating Î²-globin gene expression by in vivo competition. Cell Differentiation, 1987, 21, 111-118.	1.3	2
115	Genome Editing in Zebrafish and Medaka. , 2015, , 119-131.		2
116	Effect of retinoic acid signaling on <i>Ripply3</i> expression and pharyngeal arch morphogenesis in mouse embryos. Developmental Dynamics, 2021, 250, 1036-1050.	0.8	2
117	Analysis of the expression of two phosphoglycerate kinase genes in a mouse cultured cell line during activation and inactivation of the c-myc gene.. Chemical and Pharmaceutical Bulletin, 1989, 37, 1103-1105.	0.6	1
118	Loss of Porcupine impairs convergent extension during gastrulation in zebrafish. Development (Cambridge), 2012, 139, e1-e1.	1.2	1
119	Selective suppression of endogenous Î²-globin gene expression by transferred Î²-globin/TK chimeric gene in murine erythroleukemia cells. Cell Differentiation and Development, 1989, 27, 9-18.	0.4	0
120	Role of c-Myc on Erythroid Differentiation.. Tohoku Journal of Experimental Medicine, 1992, 168, 203-210.	0.5	0