

# Shinji Takada

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Optogenetic relaxation of actomyosin contractility uncovers mechanistic roles of cortical tension during cytokinesis. <i>Nature Communications</i> , <b>2021</b> , 12, 7145	17.4	5
118	Quantitative analyses reveal extracellular dynamics of Wnt ligands in embryos. <i>ELife</i> , <b>2021</b> , 10,	8.9	9
117	Regulation of Wnt/PCP signaling through p97/VCP-KBTBD7-mediated Vangl ubiquitination and endoplasmic reticulum-associated degradation. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	4
116	Effect of retinoic acid signaling on Ripply3 expression and pharyngeal arch morphogenesis in mouse embryos. <i>Developmental Dynamics</i> , <b>2021</b> , 250, 1036-1050	2.9	2
115	PKN1 promotes synapse maturation by inhibiting mGluR-dependent silencing through neuronal glutamate transporter activation. <i>Communications Biology</i> , <b>2020</b> , 3, 710	6.7	2
114	Improvement of Phycocyanobilin Synthesis for Genetically Encoded Phytochrome-Based Optogenetics. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 2896-2906	4.9	9
113	Heparan Sulfate Proteoglycan Clustering in Wnt Signaling and Dispersal. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 631	5.7	10
112	The second pharyngeal pouch is generated by dynamic remodeling of endodermal epithelium in zebrafish. <i>Development (Cambridge)</i> , <b>2020</b> , 147,	6.6	1
111	Transcriptional autoregulation of zebrafish is required for somite segmentation. <i>Development (Cambridge)</i> , <b>2019</b> , 146,	6.6	2
110	Wnt produced by stretched roof-plate cells is required for the promotion of cell proliferation around the central canal of the spinal cord. <i>Development (Cambridge)</i> , <b>2019</b> , 146,	6.6	14
109	Novel components of germline sex determination acting downstream of foxl3 in medaka. <i>Developmental Biology</i> , <b>2019</b> , 445, 80-89	3.1	7
108	Ripply3 is required for the maintenance of epithelial sheets in the morphogenesis of pharyngeal pouches. <i>Development Growth and Differentiation</i> , <b>2018</b> , 60, 87-96	3	1
107	Assembly of protein complexes restricts diffusion of Wnt3a proteins. <i>Communications Biology</i> , <b>2018</b> , 1, 165	6.7	13
106	Functional roles of the Ripply-mediated suppression of segmentation gene expression at the anterior presomitic mesoderm in zebrafish. <i>Mechanisms of Development</i> , <b>2018</b> , 152, 21-31	1.7	3
105	SHISA6 Confers Resistance to Differentiation-Promoting Wnt/ $\beta$ Catenin Signaling in Mouse Spermatogenic Stem Cells. <i>Stem Cell Reports</i> , <b>2017</b> , 8, 561-575	8	50
104	Roles of two types of heparan sulfate clusters in Wnt distribution and signaling in <i>Xenopus</i> . <i>Nature Communications</i> , <b>2017</b> , 8, 1973	17.4	24
103	Differences in the secretion and transport of Wnt proteins. <i>Journal of Biochemistry</i> , <b>2017</b> , 161, 1-7	3.1	30

102	Different populations of Wnt-containing vesicles are individually released from polarized epithelial cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 35562	4.9	37
101	Reiterative expression of pax1 directs pharyngeal pouch segmentation in medaka. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 1800-10	6.6	9
100	Posterior-anterior gradient of zebrafish hes6 expression in the presomitic mesoderm is established by the combinatorial functions of the downstream enhancer and 3'UTR. <i>Developmental Biology</i> , <b>2016</b> , 409, 543-54	3.1	3
99	Quadruple zebrafish mutant reveals different roles of Mesp genes in somite segmentation between mouse and zebrafish. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 2842-52	6.6	26
98	Axial level-dependent molecular and cellular mechanisms underlying the genesis of the embryonic neural plate. <i>Development Growth and Differentiation</i> , <b>2016</b> , 58, 427-36	3	11
97	Nontrivial Effect of the Color-Exchange of a Donor/Acceptor Pair in the Engineering of Förster Resonance Energy Transfer (FRET)-Based Indicators. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 1816-22	4.9	18
96	R26-WntVis reporter mice showing graded response to Wnt signal levels. <i>Genes To Cells</i> , <b>2016</b> , 21, 661-92.3		7
95	Molecular mechanism for cyclic generation of somites: Lessons from mice and zebrafish. <i>Development Growth and Differentiation</i> , <b>2016</b> , 58, 31-42	3	23
94	Genome Editing in Zebrafish and Medaka <b>2015</b> , 119-131		1
93	Notch signaling regulates venous arterialization during zebrafish fin regeneration. <i>Genes To Cells</i> , <b>2015</b> , 20, 427-38	2.3	12
92	Pharyngeal arch deficiencies affect taste bud development in the circumvallate papilla with aberrant glossopharyngeal nerve formation. <i>Developmental Dynamics</i> , <b>2015</b> , 244, 874-87	2.9	6
91	Tbx protein level critical for clock-mediated somite positioning is regulated through interaction between Tbx and Ripply. <i>PLoS ONE</i> , <b>2014</b> , 9, e107928	3.7	18
90	Leucophores are similar to xanthophores in their specification and differentiation processes in medaka. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7343-8	11.5	59
89	Insm1 promotes endocrine cell differentiation by modulating the expression of a network of genes that includes Neurog3 and Ripply3. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 2939-49	6.6	50
88	Metameric pattern of intervertebral disc/vertebral body is generated independently of Mesp2/Ripply-mediated rostro-caudal patterning of somites in the mouse embryo. <i>Developmental Biology</i> , <b>2013</b> , 380, 172-84	3.1	16
87	Functional cooperation of spns2 and fibronectin in cardiac and lower jaw development. <i>Biology Open</i> , <b>2013</b> , 2, 789-94	2.2	18
86	Mesogenin causes embryonic mesoderm progenitors to differentiate during development of zebrafish tail somites. <i>Developmental Biology</i> , <b>2012</b> , 370, 213-22	3.1	28
85	Loss of Porcupine impairs convergent extension during gastrulation in zebrafish. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 2224-34	5.3	20

84	Development and fibronectin signaling requirements of the zebrafish interrenal vessel. <i>PLoS ONE</i> , <b>2012</b> , 7, e43040	3.7	19
83	Loss of Porcupine impairs convergent extension during gastrulation in zebrafish. <i>Development (Cambridge)</i> , <b>2012</b> , 139, e1-e1	6.6	1
82	Ripply3, a Tbx1 repressor, is required for development of the pharyngeal apparatus and its derivatives in mice. <i>Development (Cambridge)</i> , <b>2011</b> , 138, 339-48	6.6	44
81	Planar polarization of node cells determines the rotational axis of node cilia. <i>Nature Cell Biology</i> , <b>2010</b> , 12, 170-6	23.4	167
80	Ror2/Frizzled complex mediates Wnt5a-induced AP-1 activation by regulating Dishevelled polymerization. <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 3610-9	4.8	130
79	Modulation of Wnt signaling by the nuclear localization of cellular FLIP-L. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 23-8	5.3	22
78	A novel regulatory mechanism for Fgf18 signaling involving cysteine-rich FGF receptor (Cfr) and delta-like protein (Dlk). <i>Development (Cambridge)</i> , <b>2010</b> , 137, 159-67	6.6	21
77	Analysis of Ripply1/2-deficient mouse embryos reveals a mechanism underlying the rostro-caudal patterning within a somite. <i>Developmental Biology</i> , <b>2010</b> , 342, 134-45	3.1	48
76	Wnt3a promotes hippocampal neurogenesis by shortening cell cycle duration of neural progenitor cells. <i>Cellular and Molecular Neurobiology</i> , <b>2010</b> , 30, 1049-58	4.6	26
75	Motor neurons with axial muscle projections specified by Wnt4/5 signaling. <i>Neuron</i> , <b>2009</b> , 61, 708-20	13.9	76
74	Activator-to-repressor conversion of T-box transcription factors by the Ripply family of Groucho/TLE-associated mediators. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 3236-44	4.8	53
73	Wnt canonical pathway restricts graded Shh/Gli patterning activity through the regulation of Gli3 expression. <i>Development (Cambridge)</i> , <b>2008</b> , 135, 237-47	6.6	146
72	Stabilized beta-catenin functions through TCF/LEF proteins and the Notch/RBP-Jkappa complex to promote proliferation and suppress differentiation of neural precursor cells. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 7427-41	4.8	150
71	Impairment of the ubiquitin-proteasome system by cellular FLIP. <i>Genes To Cells</i> , <b>2007</b> , 12, 735-44	2.3	18
70	A histone lysine methyltransferase activated by non-canonical Wnt signalling suppresses PPAR-gamma transactivation. <i>Nature Cell Biology</i> , <b>2007</b> , 9, 1273-85	23.4	370
69	Paf1 complex homologues are required for Notch-regulated transcription during somite segmentation. <i>EMBO Reports</i> , <b>2007</b> , 8, 858-63	6.5	38
68	Grainyhead-related transcription factor is required for duct maturation in the salivary gland and the kidney of the mouse. <i>Development (Cambridge)</i> , <b>2006</b> , 133, 4737-48	6.6	49
67	WilmsTumor 1-associating protein regulates G2/M transition through stabilization of cyclin A2 mRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 17278-83	11.5	97

66	Filopodia formation mediated by receptor tyrosine kinase Ror2 is required for Wnt5a-induced cell migration. <i>Journal of Cell Biology</i> , <b>2006</b> , 175, 555-62	7.3	167
65	Determinative role of Wnt signals in dorsal iris-derived lens regeneration in newt eye. <i>Mechanisms of Development</i> , <b>2006</b> , 123, 793-800	1.7	44
64	Monounsaturated fatty acid modification of Wnt protein: its role in Wnt secretion. <i>Developmental Cell</i> , <b>2006</b> , 11, 791-801	10.2	558
63	Activation of canonical Wnt pathway promotes proliferation of retinal stem cells derived from adult mouse ciliary margin. <i>Stem Cells</i> , <b>2006</b> , 24, 95-104	5.8	64
62	Analysis of combinatorial effects of Wnts and Frizzleds on beta-catenin/armadillo stabilization and Dishevelled phosphorylation. <i>Genes To Cells</i> , <b>2005</b> , 10, 919-28	2.3	49
61	Zebrafish hairy/enhancer of split protein links FGF signaling to cyclic gene expression in the periodic segmentation of somites. <i>Genes and Development</i> , <b>2005</b> , 19, 1156-61	12.6	82
60	Integrin $\alpha$ 5-dependent fibronectin accumulation for maintenance of somite boundaries in zebrafish embryos. <i>Developmental Cell</i> , <b>2005</b> , 8, 587-98	10.2	150
59	Groucho-associated transcriptional repressor ripply1 is required for proper transition from the presomitic mesoderm to somites. <i>Developmental Cell</i> , <b>2005</b> , 9, 735-44	10.2	66
58	Wnt signaling controls the timing of oligodendrocyte development in the spinal cord. <i>Developmental Biology</i> , <b>2005</b> , 282, 397-410	3.1	131
57	Wnt10a is involved in AER formation during chick limb development. <i>Developmental Dynamics</i> , <b>2005</b> , 233, 282-7	2.9	33
56	Gene trap screening as an effective approach for identification of Wnt-responsive genes in the mouse embryo. <i>Developmental Dynamics</i> , <b>2005</b> , 233, 484-95	2.9	11
55	Viral FLIP enhances Wnt signaling downstream of stabilized beta-catenin, leading to control of cell growth. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 9249-58	4.8	22
54	Regulation of mammalian tooth cusp patterning by ectodin. <i>Science</i> , <b>2005</b> , 309, 2067-70	33.3	234
53	Wnt-dependent regulation of inner ear morphogenesis is balanced by the opposing and supporting roles of Shh. <i>Genes and Development</i> , <b>2005</b> , 19, 1612-23	12.6	191
52	Cellular FLIP inhibits beta-catenin ubiquitylation and enhances Wnt signaling. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 8418-27	4.8	39
51	Laminar patterning in the developing neocortex by temporally coordinated fibroblast growth factor signaling. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 8711-9	6.6	82
50	Anteriorization of neural fate by inhibitor of beta-catenin and T cell factor (ICAT), a negative regulator of Wnt signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 8017-21	11.5	49
49	R-spondin, a novel gene with thrombospondin type 1 domain, was expressed in the dorsal neural tube and affected in Wnts mutants. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>2004</b> , 1676, 51-62		104

48	Wnt proteins promote neuronal differentiation in neural stem cell culture. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 313, 915-21	3.4	118
47	Fgf18 is required for embryonic lung alveolar development. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 322, 887-92	3.4	68
46	The receptor tyrosine kinase Ror2 is involved in non-canonical Wnt5a/JNK signalling pathway. <i>Genes To Cells</i> , <b>2003</b> , 8, 645-54	2.3	559
45	Identification of the laminar-inducing factor: Wnt-signal from the anterior rim induces correct laminar formation of the neural retina in vitro. <i>Developmental Biology</i> , <b>2003</b> , 260, 414-25	3.1	56
44	Low-density lipoprotein receptor-related protein 5 (LRP5) is essential for normal cholesterol metabolism and glucose-induced insulin secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 229-34	11.5	338
43	Wnt/beta-catenin signaling suppresses apoptosis in low serum medium and induces morphologic change in rodent fibroblasts. <i>International Journal of Cancer</i> , <b>2002</b> , 99, 681-8	7.5	30
42	Identification of a link between the tumour suppressor APC and the kinesin superfamily. <i>Nature Cell Biology</i> , <b>2002</b> , 4, 323-7	23.4	247
41	Wnt signaling plays an essential role in neuronal specification of the dorsal spinal cord. <i>Genes and Development</i> , <b>2002</b> , 16, 548-53	12.6	220
40	FGF18 is required for normal cell proliferation and differentiation during osteogenesis and chondrogenesis. <i>Genes and Development</i> , <b>2002</b> , 16, 870-9	12.6	357
39	JNK functions in the non-canonical Wnt pathway to regulate convergent extension movements in vertebrates. <i>EMBO Reports</i> , <b>2002</b> , 3, 69-75	6.5	348
38	Inhibitory effect of a presenilin 1 mutation on the Wnt signalling pathway by enhancement of beta-catenin phosphorylation. <i>FEBS Journal</i> , <b>2001</b> , 268, 3036-41		27
37	Inhibition of the Wnt signaling pathway by Idax, a novel Dvl-binding protein. <i>Molecular and Cellular Biology</i> , <b>2001</b> , 21, 330-42	4.8	105
36	Wnt signaling regulates hemopoiesis through stromal cells. <i>Journal of Immunology</i> , <b>2001</b> , 167, 765-72	5.3	75
35	Loss of mRor1 enhances the heart and skeletal abnormalities in mRor2-deficient mice: redundant and pleiotropic functions of mRor1 and mRor2 receptor tyrosine kinases. <i>Molecular and Cellular Biology</i> , <b>2001</b> , 21, 8329-35	4.8	108
34	p73beta, a variant of p73, enhances Wnt/beta-catenin signaling in Saos-2 cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 283, 327-33	3.4	19
33	Genomic organization of the Shc-related phosphotyrosine adapters and characterization of the full-length Sck/ShcB: specific association of p68-Sck/ShcB with pp135. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 284, 1039-47	3.4	18
32	Identification of a PDZ domain containing Golgi protein, GOPC, as an interaction partner of frizzled. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 286, 771-8	3.4	71
31	Wnt and BMP signaling govern lineage segregation of melanocytes in the avian embryo. <i>Developmental Biology</i> , <b>2001</b> , 233, 22-37	3.1	151

30	Wnt-3a is required for somite specification along the anteroposterior axis of the mouse embryo and for regulation of cdx-1 expression. <i>Mechanisms of Development</i> , <b>2001</b> , 103, 27-33	1.7	123
29	Expression of the receptor tyrosine kinase genes, Ror1 and Ror2, during mouse development. <i>Mechanisms of Development</i> , <b>2001</b> , 105, 153-6	1.7	113
28	Expression of vinexin alpha in the dorsal half of the eye and in the cardiac outflow tract and atrioventricular canal. <i>Mechanisms of Development</i> , <b>2001</b> , 106, 147-50	1.7	19
27	Low-density lipoprotein receptor-related protein-5 binds to Axin and regulates the canonical Wnt signaling pathway. <i>Molecular Cell</i> , <b>2001</b> , 7, 801-9	17.6	665
26	Mouse Ror2 receptor tyrosine kinase is required for the heart development and limb formation. <i>Genes To Cells</i> , <b>2000</b> , 5, 71-8	2.3	177
25	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. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 34399-406	5.4	103
24	A novel beta-catenin-binding protein inhibits beta-catenin-dependent Tcf activation and axis formation. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 32871-8	5.4	82
23	Posttranscriptional regulation of alpha-catenin expression is required for Wnt signaling in L cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 277, 691-8	3.4	26
22	Induction of melanocyte-specific microphthalmia-associated transcription factor by Wnt-3a. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 14013-6	5.4	252
21	Phosphorylation of axin, a Wnt signal negative regulator, by glycogen synthase kinase-3beta regulates its stability. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 10681-4	5.4	282
20	Axin prevents Wnt-3a-induced accumulation of beta-catenin. <i>Oncogene</i> , <b>1999</b> , 18, 979-85	9.2	113
19	T (Brachyury) is a direct target of Wnt3a during paraxial mesoderm specification. <i>Genes and Development</i> , <b>1999</b> , 13, 3185-90	12.6	397
18	Cytoskeletal reorganization by soluble Wnt-3a protein signalling. <i>Genes To Cells</i> , <b>1998</b> , 3, 659-70	2.3	231
17	Noggin-mediated antagonism of BMP signaling is required for growth and patterning of the neural tube and somite. <i>Genes and Development</i> , <b>1998</b> , 12, 1438-52	12.6	640
16	The expression of the mouse Zic1, Zic2, and Zic3 gene suggests an essential role for Zic genes in body pattern formation. <i>Developmental Biology</i> , <b>1997</b> , 182, 299-313	3.1	287
15	Evidence that absence of Wnt-3a signaling promotes neuralization instead of paraxial mesoderm development in the mouse. <i>Developmental Biology</i> , <b>1997</b> , 183, 234-42	3.1	238
14	Wnt signalling required for expansion of neural crest and CNS progenitors. <i>Nature</i> , <b>1997</b> , 389, 966-70	50.4	595
13	Analysis of the vestigial tail mutation demonstrates that Wnt-3a gene dosage regulates mouse axial development. <i>Genes and Development</i> , <b>1996</b> , 10, 313-24	12.6	189



12	Function of c-myc on erythroid differentiation and heme synthesis. <i>Stem Cells</i> , <b>1994</b> , 12, 55-63	5.8	8
11	Wnt-3a regulates somite and tailbud formation in the mouse embryo. <i>Genes and Development</i> , <b>1994</b> , 8, 174-89	12.6	630
10	Role of c-Myc on erythroid differentiation. <i>Tohoku Journal of Experimental Medicine</i> , <b>1992</b> , 168, 203-10	2.4	
9	c-Myc interferes with the commitment to differentiation of murine erythroleukemia cells at a reversible point. <i>Japanese Journal of Cancer Research</i> , <b>1992</b> , 83, 61-5		6
8	Overexpression of c-Myc inhibits the appearance of a specific DNase I hypersensitive site in the beta-globin chromatin in murine erythroleukemia cells. <i>Japanese Journal of Cancer Research</i> , <b>1991</b> , 82, 376-9		4
7	Antisense RNA of the latent period gene (MER5) inhibits the differentiation of murine erythroleukemia cells. <i>Gene</i> , <b>1990</b> , 91, 261-5	3.8	38
6	Selective suppression of endogenous beta-globin gene expression by transferred beta-globin/TK chimeric gene in murine erythroleukemia cells. <i>Cell Differentiation and Development</i> , <b>1989</b> , 27, 9-18		
5	A balance between self-renewal and commitment in the murine erythroleukemia cells with the transferred c-myc gene; an in vitro stochastic model. <i>Cell Differentiation and Development</i> , <b>1989</b> , 28, 129-33		6
4	Probability that the commitment of murine erythroleukemia cell differentiation is determined by the c-myc level. <i>Journal of Molecular Biology</i> , <b>1988</b> , 202, 779-86	6.5	51
3	Modulation of the transferred mouse 26K casein gene in mouse L cells by glucocorticoid hormone. <i>Journal of Biochemistry</i> , <b>1987</b> , 101, 103-10	3.1	7
2	Characterization of trans-acting factor(s) regulating beta-globin gene expression by in vivo competition. <i>Cell Differentiation</i> , <b>1987</b> , 21, 111-8		2
1	Quantitative analyses reveal extracellular dynamics of Wnt ligands in <i>Xenopus</i> embryos		5