

Shin Takasawa

List of Publications by Year in descending order

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109
papers

6,915
citations

66234

42
h-index

60497

81
g-index

109
all docs

109
docs citations

109
times ranked

5540
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel splice variants of the receptor for advanced glycation end-products expressed in human vascular endothelial cells and pericytes, and their putative roles in diabetes-induced vascular injury. <i>Biochemical Journal</i> , 2003, 370, 1097-1109.	1.7	656
2	CD38 is critical for social behaviour by regulating oxytocin secretion. <i>Nature</i> , 2007, 446, 41-45.	13.7	614
3	Development and prevention of advanced diabetic nephropathy in RAGE-overexpressing mice. <i>Journal of Clinical Investigation</i> , 2001, 108, 261-268.	3.9	430
4	RAGE Control of Diabetic Nephropathy in a Mouse Model. <i>Diabetes</i> , 2006, 55, 2510-2522.	0.3	228
5	Altered Stoichiometry of FKBP12.6 Versus Ryanodine Receptor as a Cause of Abnormal Ca ²⁺ Leak Through Ryanodine Receptor in Heart Failure. <i>Circulation</i> , 2000, 102, 2131-2136.	1.6	215
6	CD38 Disruption Impairs Glucose-induced Increases in Cyclic ADP-ribose, [Ca ²⁺], and Insulin Secretion. <i>Journal of Biological Chemistry</i> , 1999, 274, 1869-1872.	1.6	200
7	Cyclic ADP-ribose Binds to FK506-binding Protein 12.6 to Release Ca ²⁺ from Islet Microsomes. <i>Journal of Biological Chemistry</i> , 1997, 272, 3133-3136.	1.6	187
8	Septic Shock Is Associated with Receptor for Advanced Glycation End Products Ligation of LPS. <i>Journal of Immunology</i> , 2011, 186, 3248-3257.	0.4	174
9	Identification of a Receptor for Reg (Regenerating Gene) Protein, a Pancreatic β -Cell Regeneration Factor. <i>Journal of Biological Chemistry</i> , 2000, 275, 10723-10726.	1.6	156
10	Cyclic ADP-ribose modulates Ca ²⁺ release channels for activation by physiological Ca ²⁺ entry in bullfrog sympathetic neurons. <i>Neuron</i> , 1994, 12, 1073-1079.	3.8	155
11	ADP ribosyl cyclase activity of a novel bone marrow stromal cell surface molecule, BST-1. <i>FEBS Letters</i> , 1994, 356, 244-248.	1.3	147
12	Increased Expression of HIP/PAP and Regenerating Gene III in Human Inflammatory Bowel Disease and a Murine Bacterial Reconstitution Model. <i>Inflammatory Bowel Diseases</i> , 2003, 9, 162-170.	0.9	143
13	Recent Advances in the Okamoto Model: The CD38-Cyclic ADP-Ribose Signal System and the Regenerating Gene Protein (Reg)-Reg Receptor System in β -Cells. <i>Diabetes</i> , 2002, 51, S462-S473.	0.3	137
14	Generation of Nicotinic Acid Adenine Dinucleotide Phosphate and Cyclic ADP-Ribose by Glucagon-Like Peptide-1 Evokes Ca ²⁺ Signal That Is Essential for Insulin Secretion in Mouse Pancreatic Islets. <i>Diabetes</i> , 2008, 57, 868-878.	0.3	123
15	Cyclic ADP-ribose and Inositol 1,4,5-Trisphosphate as Alternate Second Messengers for Intracellular Ca ²⁺ Mobilization in Normal and Diabetic β -Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 2497-2500.	1.6	116
16	Structure, chromosomal localization and expression of mouse genes encoding type III Reg, RegIII ¹ , RegIII ² , RegIII ³ . <i>Gene</i> , 1997, 185, 159-168.	1.0	110
17	Production and Characterization of Reg Knockout Mice: Reduced Proliferation of Pancreatic β -Cells in Reg Knockout Mice. <i>Diabetes</i> , 2002, 51, S478-S483.	0.3	106
18	Regulatory Role of CD38 (ADP-ribosyl Cyclase/Cyclic ADP-ribose Hydrolase) in Insulin Secretion by Glucose in Pancreatic β -Cells. <i>Journal of Biological Chemistry</i> , 1995, 270, 30045-30050.	1.6	103

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19	Cloning and characterization of cDNA encoding rat ADP-ribosyl cyclase / cyclic ADP-ribose hydrolase (homologue to human CD38) from islets of Langerhans. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1994, 1223, 160-162.	1.9	101
20	Requirement of Calmodulin-dependent Protein Kinase II in Cyclic ADP-ribose-mediated Intracellular Ca ²⁺ Mobilization. <i>Journal of Biological Chemistry</i> , 1995, 270, 30257-30259.	1.6	99
21	Muscarinic Receptor-mediated Dual Regulation of ADP-ribosyl Cyclase in NG108-15 Neuronal Cell Membranes. <i>Journal of Biological Chemistry</i> , 1997, 272, 31272-31277.	1.6	97
22	REG I \pm protein may function as a trophic and/or anti-apoptotic factor in the development of gastric cancer. <i>Gastroenterology</i> , 2005, 128, 642-653.	0.6	94
23	Human gene encoding CD38 (ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase): organization, nucleotide sequence and alternative splicing. <i>Gene</i> , 1997, 186, 285-292.	1.0	81
24	Identification of Cyclic ADP-ribose-dependent Mechanisms in Pancreatic Muscarinic Ca ²⁺ Signaling Using CD38 Knockout Mice. <i>Journal of Biological Chemistry</i> , 2001, 276, 649-655.	1.6	78
25	Important role of heparan sulfate in postnatal islet growth and insulin secretion. <i>Biochemical and Biophysical Research Communications</i> , 2009, 383, 113-118.	1.0	77
26	Identification of a novel Reg family gene, Reg III \hat{I} , and mapping of all three types of Reg family gene in a 75 kilobase mouse genomic region. <i>Gene</i> , 2000, 246, 111-122.	1.0	73
27	CD38 is the major enzyme responsible for synthesis of nicotinic acid-adenine dinucleotide phosphate in mammalian tissues. <i>Biochemical Journal</i> , 2002, 362, 125-130.	1.7	73
28	Cyclin D1 activation through ATF-2 in Reg-induced pancreatic \hat{I}^2 -cell regeneration. <i>FEBS Letters</i> , 2006, 580, 585-591.	1.3	71
29	Transgenic overexpression of Reg protein caused gastric cell proliferation and differentiation along parietal cell and chief cell lineages. <i>Oncogene</i> , 2004, 23, 3572-3579.	2.6	67
30	Molecular cloning, expression and chromosomal localization of a novel human REG family gene, REG III. <i>Gene</i> , 2004, 340, 161-170.	1.0	66
31	Attenuation of glucose-induced insulin secretion by intermittent hypoxia via down-regulation of CD38. <i>Life Sciences</i> , 2012, 90, 206-211.	2.0	66
32	Neutrophil chemoattractant \hat{I}^2 regulates expression of the Reg gene in injured gastric mucosa in rats. <i>Gastroenterology</i> , 2000, 119, 1610-1622.	0.6	61
33	Human REG I gene is up-regulated in intrahepatic cholangiocarcinoma and its precursor lesions. <i>Hepatology</i> , 2001, 33, 1036-1042.	3.6	59
34	Lysine 129 of CD38 (ADP-ribosyl Cyclase/Cyclic ADP-ribose Hydrolase) Participates in the Binding of ATP to Inhibit the Cyclic ADP-ribose Hydrolase. <i>Journal of Biological Chemistry</i> , 1997, 272, 3879-3882.	1.6	57
35	CD38 is the major enzyme responsible for synthesis of nicotinic acid-adenine dinucleotide phosphate in mammalian tissues. <i>Biochemical Journal</i> , 2002, 362, 125.	1.7	57
36	Identification of mouse orthologue of endogenous secretory receptor for advanced glycation end-products: structure, function and expression. <i>Biochemical Journal</i> , 2006, 396, 109-115.	1.7	57

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37	Reg protein is overexpressed in gastric cancer cells, where it activates a signal transduction pathway that converges on ERK1/2 to stimulate growth. <i>FEBS Letters</i> , 2002, 530, 59-64.	1.3	52
38	Pancreatic β cell proliferation by intermittent hypoxia via up-regulation of Reg family genes and HGF gene. <i>Life Sciences</i> , 2013, 93, 664-672.	2.0	52
39	Expression of regenerating gene I in gastric adenocarcinomas. <i>Cancer</i> , 2004, 100, 1130-1136.	2.0	51
40	Expression of Reg/PAP family members during motor nerve regeneration in rat. <i>Biochemical and Biophysical Research Communications</i> , 2005, 332, 126-134.	1.0	50
41	REG gene expression is associated with the infiltrating growth of gastric carcinoma. <i>Cancer</i> , 2003, 98, 1394-1400.	2.0	49
42	FKBP12.6 disruption impairs glucose-induced insulin secretion. <i>Biochemical and Biophysical Research Communications</i> , 2008, 371, 735-740.	1.0	43
43	A novel ryanodine receptor expressed in pancreatic islets by alternative splicing from type 2 ryanodine receptor gene. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 140-145.	1.0	42
44	NAD ⁺ -glycohydrolase from <i>Streptococcus pyogenes</i> shows cyclic ADP-ribose forming activity. <i>FEMS Microbiology Letters</i> , 1995, 130, 201-204.	0.7	40
45	Intermittent hypoxia induces the proliferation of rat vascular smooth muscle cell with the increases in epidermal growth factor family and erbB2 receptor. <i>Experimental Cell Research</i> , 2013, 319, 3042-3050.	1.2	39
46	Regenerating gene (REG) product and its potential clinical usage. <i>Expert Opinion on Therapeutic Targets</i> , 2016, 20, 541-550.	1.5	38
47	Expression of REG family genes in human inflammatory bowel diseases and its regulation. <i>Biochemistry and Biophysics Reports</i> , 2017, 12, 198-205.	0.7	38
48	Intermittent Hypoxia Up-Regulates CCL2, RETN, and TNF α mRNAs in Adipocytes via Down-regulation of miR-452. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1960.	1.8	38
49	Pancreatic β -Cell Death, Regeneration and Insulin Secretion: Roles of Poly(ADP-Ribose) Polymerase and Cyclic ADP-Ribose. <i>International Journal of Experimental Diabetes Research</i> , 2002, 3, 79-96.	1.0	37
50	The structure of the <i>Aplysia kurodai</i> gene encoding ADP-ribosyl cyclase, a second-messenger enzyme. <i>Gene</i> , 1995, 158, 213-218.	1.0	34
51	Biomarkers for Diagnosis and Monitoring of Celiac Disease. <i>Journal of Clinical Gastroenterology</i> , 2013, 47, 308-313.	1.1	34
52	Relationship Between Intermittent Hypoxia and Type 2 Diabetes in Sleep Apnea Syndrome. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4756.	1.8	34
53	Deficit of CD38/cyclic ADP-ribose is differentially compensated in hearts by gender. <i>Biochemical and Biophysical Research Communications</i> , 2003, 312, 434-440.	1.0	33
54	Expression Profile of the <i>REG</i> Gene Family in Colorectal Carcinoma. <i>Journal of Histochemistry and Cytochemistry</i> , 2011, 59, 106-115.	1.3	33

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55	Effects of Intermittent Hypoxia on Pulmonary Vascular and Systemic Diseases. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3101.	1.2	32
56	Activation of regenerating gene Reg in rat and human hearts in response to acute stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H277-H284.	1.5	31
57	Prevention of Reg I-induced β -cell apoptosis by IL-6/dexamethasone through activation of HGF gene regulation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 2988-2995.	1.9	31
58	Up-regulation of selenoprotein P and HIP/PAP mRNAs in hepatocytes by intermittent hypoxia via down-regulation of miR-203. <i>Biochemistry and Biophysics Reports</i> , 2017, 11, 130-137.	0.7	30
59	Overexpression of Reg3 β increases cell growth and the levels of cyclin D1 and CDK4 in insulinoma cells. <i>Growth Factors</i> , 2009, 27, 195-202.	0.5	29
60	Role of Cyclic ADP-Ribose in ATP-activated Potassium Currents in Alveolar Macrophages. <i>Journal of Biological Chemistry</i> , 1997, 272, 16023-16029.	1.6	28
61	Cloning of a cDNA encoding rat bone marrow stromal cell antigen 1 (BST-1) from the islets of Langerhans. <i>Gene</i> , 1995, 165, 329-330.	1.0	27
62	[28] Synthesis and hydrolysis of cyclic ADP-ribose by human leukocyte antigen CD38: Inhibition of hydrolysis by ATP and physiological significance. <i>Methods in Enzymology</i> , 1997, 280, 306-318.	0.4	27
63	Synergistic Activations of <i>REG Iβ</i> and <i>REG Iγ</i> Promoters by IL-6 and Glucocorticoids through JAK/STAT Pathway in Human Pancreatic β -Cells. <i>Journal of Diabetes Research</i> , 2015, 2015, 1-12.	1.0	27
64	REG I enhances chemo- and radiosensitivity in squamous cell esophageal cancer cells. <i>Cancer Science</i> , 2008, 99, 2491-2495.	1.7	26
65	Effects of Tooth Loss and the Apolipoprotein E ϵ 4 Allele on Mild Memory Impairment in the Fujiwara-kyo Study of Japan: A Nested Case-Control Study. <i>Journal of Alzheimer's Disease</i> , 2016, 55, 575-583.	1.2	26
66	CD38 Gene Disruption Inhibits the Contraction Induced by α -Adrenoceptor Stimulation in Mouse Aorta. <i>Journal of Veterinary Medical Science</i> , 2003, 65, 1325-1330.	0.3	24
67	Distinct Cell Clusters Touching Islet Cells Induce Islet Cell Replication in Association with Over-Expression of Regenerating Gene (REG) Protein in Fulminant Type 1 Diabetes. <i>PLoS ONE</i> , 2014, 9, e95110.	1.1	24
68	Human retinal pigment epithelial cell proliferation by the combined stimulation of hydroquinone and advanced glycation end-products via up-regulation of VEGF gene. <i>Biochemistry and Biophysics Reports</i> , 2015, 2, 123-131.	0.7	22
69	Cyclic ADP-ribose, a putative Ca ²⁺ -mobilizing second messenger, operates in submucosal gland acinar cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 287, L69-L78.	1.3	20
70	Up-regulation of POMC and CART mRNAs by intermittent hypoxia via GATA transcription factors in human neuronal cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 95, 100-107.	1.2	20
71	Involvement of Receptor for Advanced Glycation Endproducts in Hypertensive Disorders of Pregnancy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5462.	1.8	20
72	Interleukin-6/STAT pathway is responsible for the induction of gene expression of REG β , a new auto-antigen in Sjögren's syndrome patients, in salivary duct epithelial cells. <i>Biochemistry and Biophysics Reports</i> , 2015, 2, 69-74.	0.7	19

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73	Expression of <i>Reg</i> family genes in the gastrointestinal tract of mice treated with indomethacin. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, G736-G744.	1.6	19
74	Thiazolidinediones inhibit REG β gene transcription in gastrointestinal cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2009, 379, 743-748.	1.0	18
75	Expression of REG III and prognosis in head and neck cancer. <i>Oncology Reports</i> , 2013, 30, 573-578.	1.2	18
76	Significance of Interleukin-6/STAT Pathway for the Gene Expression of REG β , a New Autoantigen in Sjögren's Syndrome Patients, in Salivary Duct Epithelial Cells. <i>Clinical Reviews in Allergy and Immunology</i> , 2017, 52, 351-363.	2.9	18
77	Proliferative Pathways of Vascular Smooth Muscle Cells in Response to Intermittent Hypoxia. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2706.	1.8	18
78	Intermittent Hypoxia Up-Regulates Gene Expressions of Peptide YY (PYY), Glucagon-like Peptide-1 (GLP-1), and Neurotensin (NTS) in Enteroendocrine Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1849.	1.8	18
79	Role of regenerating gene I in claudin expression and barrier function in the small intestine. <i>Translational Research</i> , 2016, 173, 92-100.	2.2	17
80	Expression of human REG family genes in inflammatory bowel disease and their molecular mechanism. <i>Immunologic Research</i> , 2018, 66, 800-805.	1.3	16
81	<i>Reg3G</i> gene expression in regenerating skeletal muscle and corresponding nerve. <i>Muscle and Nerve</i> , 2014, 49, 61-68.	1.0	14
82	Reg Gene Expression in Periosteum after Fracture and Its In Vitro Induction Triggered by IL-6. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2257.	1.8	14
83	Intermittent hypoxia-induced epiregulin expression by IL-6 production in human coronary artery smooth muscle cells. <i>FEBS Open Bio</i> , 2018, 8, 868-876.	1.0	14
84	Enhancement of Cell Viability in Cryopreserved Rat Vascular Grafts by Administration of Regenerating Gene (<i>Reg</i>) Inducers. <i>Journal of Vascular Research</i> , 2003, 40, 132-139.	0.6	13
85	Genomic organization, chromosomal localization, and promoter of human gene for FK506-binding protein 12.6. <i>Gene</i> , 2005, 360, 55-64.	1.0	13
86	REG β gene expression is linked with the poor prognosis of lung adenocarcinoma and squamous cell carcinoma patients via discrete mechanisms. <i>Oncology Reports</i> , 2013, 30, 2625-2631.	1.2	13
87	The CD38-Cyclic ADP-Ribose System in Mammals: Historical Background, Pathophysiology and Perspective. <i>Messenger (Los Angeles, Calif: Print)</i> , 2014, 3, 27-34.	0.3	13
88	CD38 "Cyclic ADP-Ribose Signal System in Physiology, Biochemistry, and Pathophysiology. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4306.	1.8	13
89	Intermittent Hypoxia Upregulates the Renin and Cd38 mRNAs in Renin-Producing Cells via the Downregulation of miR-203. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10127.	1.8	12
90	Expression of <i>Ins1</i> and <i>Ins2</i> genes in mouse fetal liver. <i>Cell and Tissue Research</i> , 2014, 355, 303-314.	1.5	11

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91	Effect of resveratrol on cancer progression through the REG III expression pathway in head and neck cancer cells. <i>International Journal of Oncology</i> , 2016, 49, 1553-1560.	1.4	10
92	Statins decrease vascular epithelial growth factor expression via down-regulation of receptor for advanced glycation end-products. <i>Heliyon</i> , 2017, 3, e00401.	1.4	10
93	Crucial role of Reg I from acinar-like cell cluster touching with islets (ATLANTIS) on mitogenesis of beta cells in EMC virus-induced diabetic mice. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 963-969.	1.0	10
94	Resveratrol-induced REG III expression enhances chemo- and radiosensitivity in head and neck cancer in xenograft mice. <i>Oncology Reports</i> , 2019, 42, 436-442.	1.2	10
95	27-Hydroxycholesterol regulates human <i>SLC22A12</i> gene expression through estrogen receptor action. <i>FASEB Journal</i> , 2021, 35, e21262.	0.2	10
96	Effects of Intermittent Hypoxia on Cytokine Expression Involved in Insulin Resistance. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12898.	1.8	10
97	Recent advances in physiological and pathological significance of NAD ⁺ metabolites: roles of poly(ADP-ribose) and cyclic ADP-ribose in insulin secretion and diabetogenesis. <i>Nutrition Research Reviews</i> , 2003, 16, 253-266.	2.1	9
98	From insulin synthesis to secretion: Alternative splicing of type 2 ryanodine receptor gene is essential for insulin secretion in pancreatic β^2 cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 91, 176-183.	1.2	9
99	CD38-cyclic ADP-ribose signal system for intracellular Ca ²⁺ mobilization and Reg (⟩generating Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,422 Td (⟩regeneration. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2021, 97, 423-461.	1.6	9
100	Intermittent Hypoxia Increased the Expression of DBH and PNMT in Neuroblastoma Cells via MicroRNA-375-Mediated Mechanism. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5868.	1.8	6
101	Identification of a major enzyme for the synthesis and hydrolysis of cyclic ADP-ribose in amphibian cells and evolutionary conservation of the enzyme from human to invertebrate. <i>Molecular and Cellular Biochemistry</i> , 2012, 366, 69-80.	1.4	5
102	Anorexigenic Effects of Intermittent Hypoxia on the Gut-Brain Axis in Sleep Apnea Syndrome. <i>International Journal of Molecular Sciences</i> , 2022, 23, 364.	1.8	4
103	The CD38 genotype (rs1800561 (4693C>T): R140W) is associated with an increased risk of admission to the neonatal intensive care unit. <i>Early Human Development</i> , 2015, 91, 467-470.	0.8	3
104	1887-P: Intermittent Hypoxia Increased the Expressions of Interleukin (IL)-8, Osteonectin, and Myonectin via OCT1 and Nrf2 Binding to the Promoters in Muscle Cells. <i>Diabetes</i> , 2020, 69, 1887-P.	0.3	2
105	Regulators of Beta-Cell Death and Regeneration. <i>Pancreatic Islet Biology</i> , 2016, , 125-158.	0.1	1
106	378-P: Upregulation of Regenerating Gene IV and Hepatocyte Growth Factor in Cardiomyocytes by Intermittent Hypoxia and Its MicroRNA-Mediated Mechanism. <i>Diabetes</i> , 2021, 70, .	0.3	1
107	Regenerating Gene Protein as a Novel Autoantigen in the Pathogenesis of Sjögren's Syndrome. <i>Antibodies</i> , 2015, 4, 409-425.	1.2	0
108	Intermittent hypoxia-induced cell proliferation via upregulations of interleukin-6 and epiregulin. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO4-2-36.	0.0	0

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109	Editorial to Special Issue "Sleep Apnea and Intermittent Hypoxia 2.0". International Journal of Molecular Sciences, 2022, 23, 5299.	1.8	0