

# Shin-Ichiro Takahashi

## List of Publications by Citations

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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.

83 papers	1,626 citations	22 h-index	36 g-index
87 ext. papers	1,985 ext. citations	4.8 avg, IF	4.71 L-index

#	Paper	IF	Citations
83	IGF1 receptor signaling pathways. <i>Journal of Molecular Endocrinology</i> , <b>2018</b> , 61, T69-T86	4.5	136
82	Something old, something new and something borrowed: emerging paradigm of insulin-like growth factor type 1 receptor (IGF-1R) signaling regulation. <i>Cellular and Molecular Life Sciences</i> , <b>2014</b> , 71, 2403-27	10.3	102
81	Short term feedback regulation of cAMP in FRTL-5 thyroid cells. Role of PDE4D3 phosphodiesterase activation. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 10831-7	5.4	90
80	Thyrotropin potentiation of insulin-like growth factor-I dependent deoxyribonucleic acid synthesis in FRTL-5 cells: mediation by an autocrine amplification factor(s). <i>Endocrinology</i> , <b>1990</b> , 126, 736-45	4.8	81
79	Insulin-like growth factor-I-dependent signal transduction pathways leading to the induction of cell growth and differentiation of human neuroblastoma cell line SH-SY5Y: the roles of MAP kinase pathway and PI 3-kinase pathway. <i>Endocrine Journal</i> , <b>2000</b> , 47, 739-51	2.9	67
78	Signalling pathways of insulin-like growth factor-I that are augmented by cAMP in FRTL-5 cells. <i>Biochemical Journal</i> , <b>2000</b> , 348, 409-416	3.8	53
77	In vivo regulation of glycogen synthase kinase 3 $\beta$ activity in neurons and brains. <i>Scientific Reports</i> , <b>2017</b> , 7, 8602	4.9	47
76	Dietary restriction of single essential amino acids reduces plasma insulin-like growth factor-I (IGF-I) but does not affect plasma IGF-binding protein-1 in rats. <i>Journal of Nutrition</i> , <b>2000</b> , 130, 2910-4	4.1	46
75	Nedd4-induced monoubiquitination of IRS-2 enhances IGF signalling and mitogenic activity. <i>Nature Communications</i> , <b>2015</b> , 6, 6780	17.4	42
74	Insulin receptor substrate-3 functions as transcriptional activator in the nucleus. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 6846-51	5.4	41
73	Serine Phosphorylation by mTORC1 Promotes IRS-1 Degradation through SCF $\beta$ TRCP E3 $\beta$ Ubiquitin Ligase. <i>IScience</i> , <b>2018</b> , 5, 1-18	6.1	36
72	Rapid increase in fibroblast growth factor 21 in protein malnutrition and its impact on growth and lipid metabolism. <i>British Journal of Nutrition</i> , <b>2015</b> , 114, 1410-8	3.6	30
71	Dietary protein deprivation upregulates insulin signaling and inhibits gluconeogenesis in rat liver. <i>Journal of Molecular Endocrinology</i> , <b>2010</b> , 45, 329-40	4.5	29
70	The novel roles of liver for compensation of insulin resistance in human growth hormone transgenic rats. <i>Endocrinology</i> , <b>2006</b> , 147, 5374-84	4.8	29
69	IRS-1 acts as an endocytic regulator of IGF-I receptor to facilitate sustained IGF signaling. <i>ELife</i> , <b>2018</b> , 7,	8.9	29
68	Tyrosine kinase and phosphatidylinositol 3-kinase activation are required for cyclic adenosine 3',5'-monophosphate-dependent potentiation of deoxyribonucleic acid synthesis induced by insulin-like growth factor-I in FRTL-5 cells. <i>Endocrinology</i> , <b>2000</b> , 141, 2429-38	4.8	28
67	RNAutophagy/DNAutophagy possesses selectivity for RNA/DNA substrates. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 6439-49	20.1	26

66	Insulin/insulin-like growth factor (IGF) stimulation abrogates an association between a deubiquitinating enzyme USP7 and insulin receptor substrates (IRSs) followed by proteasomal degradation of IRSs. <i>Biochemical and Biophysical Research Communications</i> , <b>2012</b> , 423, 122-7	3.4	26
65	Importance of Serum Amino Acid Profile for Induction of Hepatic Steatosis under Protein Malnutrition. <i>Scientific Reports</i> , <b>2018</b> , 8, 5461	4.9	25
64	Pin1 associates with and induces translocation of CRTC2 to the cytosol, thereby suppressing cAMP-responsive element transcriptional activity. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 33018-33027	5.4	25
63	Insulin receptor substrates form high-molecular-mass complexes that modulate their availability to insulin/insulin-like growth factor-I receptor tyrosine kinases. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 404, 767-73	3.4	23
62	Prolyl isomerase Pin1 negatively regulates AMP-activated protein kinase (AMPK) by associating with the CBS domain in the $\beta$ subunit. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 24255-66	5.4	22
61	53BP2S, interacting with insulin receptor substrates, modulates insulin signaling. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 37747-58	5.4	22
60	Phosphatidylinositol 3-kinase (PI3K) activity bound to insulin-like growth factor-I (IGF-I) receptor, which is continuously sustained by IGF-I stimulation, is required for IGF-I-induced cell proliferation. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 29713-21	5.4	20
59	Tumor necrosis factor (TNF)- $\beta$ -induced repression of GKAP42 protein levels through cGMP-dependent kinase (cGK)-I causes insulin resistance in 3T3-L1 adipocytes. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 5881-92	5.4	19
58	The Novel Functions of High-Molecular-Mass Complexes Containing Insulin Receptor Substrates in Mediation and Modulation of Insulin-Like Activities: Emerging Concept of Diverse Functions by IRS-Associated Proteins. <i>Frontiers in Endocrinology</i> , <b>2015</b> , 6, 73	5.7	19
57	LUBAC Formation Is Impaired in the Livers of Mice with MCD-Dependent Nonalcoholic Steatohepatitis. <i>Mediators of Inflammation</i> , <b>2015</b> , 2015, 125380	4.3	19
56	Phosphatidylinositol 3-kinase-binding protein, PI3KAP/XB130, is required for cAMP-induced amplification of IGF mitogenic activity in FRTL-5 thyroid cells. <i>Molecular Endocrinology</i> , <b>2012</b> , 26, 1043-55		19
55	Signalling pathways of insulin-like growth factor-I that are augmented by cAMP in FRTL-5 cells. <i>Biochemical Journal</i> , <b>2000</b> , 348, 409	3.8	19
54	Long-term hormonal regulation of the cAMP-specific phosphodiesterases in cultured FRTL-5 thyroid cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2001</b> , 1540, 68-81	4.9	19
53	Tissue-specific effects of protein malnutrition on insulin signaling pathway and lipid accumulation in growing rats. <i>Endocrine Journal</i> , <b>2014</b> , 61, 499-512	2.9	18
52	The AP-1 complex regulates intracellular localization of insulin receptor substrate 1, which is required for insulin-like growth factor I-dependent cell proliferation. <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 1991-2003	4.8	17
51	Constitutive expression of insulin receptor substrate (IRS)-1 inhibits myogenic differentiation through nuclear exclusion of Foxo1 in L6 myoblasts. <i>PLoS ONE</i> , <b>2011</b> , 6, e25655	3.7	17
50	HSP90 interacting with IRS-2 is involved in cAMP-dependent potentiation of IGF-I signals in FRTL-5 cells. <i>Molecular and Cellular Endocrinology</i> , <b>2011</b> , 344, 81-9	4.4	16
49	Production of insulin-like growth factors and their binding proteins in primary cultures of rat liver parenchymal and nonparenchymal cells. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1995</b> , 59, 1503-15	2.1	16

48	Analysis of insulin receptor substrate signaling dynamics on microstructured surfaces. <i>FEBS Journal</i> , <b>2015</b> , 282, 987-1005	5.7	15
47	SM22[Smooth Muscle Protein 22-]Promoter-Driven IGF1R (Insulin-Like Growth Factor 1 Receptor) Deficiency Promotes Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2018</b> , 38, 2306-2317	9.4	15
46	In vivo loss of function study reveals the short stature homeobox-containing (shox) gene plays indispensable roles in early embryonic growth and bone formation in zebrafish. <i>Developmental Dynamics</i> , <b>2015</b> , 244, 146-56	2.9	14
45	Effect of protein restriction on the messenger RNA contents of bone-matrix proteins, insulin-like growth factors and insulin-like growth factor binding proteins in femur of ovariectomized rats. <i>British Journal of Nutrition</i> , <b>1996</b> , 75, 811-23	3.6	14
44	A novel IRS-1-associated protein, DGK $\beta$ regulates GLUT4 translocation in 3T3-L1 adipocytes. <i>Scientific Reports</i> , <b>2016</b> , 6, 35438	4.9	13
43	Insulin injection restored increased insulin receptor substrate (IRS)-2 protein during short-term protein restriction but did not affect reduced insulin-like growth factor (IGF)-I mRNA or increased triglyceride accumulation in the liver of rats. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2014</b> , 78, 130-8	2.1	13
42	Insulin receptor substrate-3, interacting with Bcl-3, enhances p50 NF-kappaB activity. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 394, 697-702	3.4	13
41	Roles of chondroitin sulfate proteoglycan 4 in fibrogenic/adipogenic differentiation in skeletal muscle tissues. <i>Experimental Cell Research</i> , <b>2016</b> , 347, 367-77	4.2	13
40	Branched-chain amino acid supplementation restores reduced insulinotropic activity of a low-protein diet through the vagus nerve in rats. <i>Nutrition and Metabolism</i> , <b>2017</b> , 14, 59	4.6	12
39	The Inner Nuclear Membrane Protein Nemp1 Is a New Type of RanGTP-Binding Protein in Eukaryotes. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127271	3.7	12
38	Acetylcholinesterase (AChE) inhibition aggravates fasting-induced triglyceride accumulation in the mouse liver. <i>FEBS Open Bio</i> , <b>2014</b> , 4, 905-14	2.7	12
37	Distinct modes of activation of phosphatidylinositol 3-kinase in response to cyclic adenosine 3',5'-monophosphate or insulin-like growth factor I play different roles in regulation of cyclin D1 and p27Kip1 in FRTL-5 cells. <i>Endocrinology</i> , <b>2008</b> , 149, 3729-42	4.8	12
36	Cytosolic domain of SIDT2 carries an arginine-rich motif that binds to RNA/DNA and is important for the direct transport of nucleic acids into lysosomes. <i>Autophagy</i> , <b>2020</b> , 16, 1974-1988	10.2	11
35	Aspp2 negatively regulates body growth but not developmental timing by modulating IRS signaling in zebrafish embryos. <i>General and Comparative Endocrinology</i> , <b>2014</b> , 197, 82-91	3	11
34	USP15 attenuates IGF-I signaling by antagonizing Nedd4-induced IRS-2 ubiquitination. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 484, 522-528	3.4	10
33	Myelodysplastic Syndrome-Associated SRSF2 Mutations Cause Splicing Changes by Altering Binding Motif Sequences. <i>Frontiers in Genetics</i> , <b>2019</b> , 10, 338	4.5	10
32	Prolyl isomerase Pin1 binds to and stabilizes acetyl CoA carboxylase 1 protein, thereby supporting cancer cell proliferation. <i>Oncotarget</i> , <b>2019</b> , 10, 1637-1648	3.3	10
31	Insulin receptor substrate-1 (IRS-1) forms a ribonucleoprotein complex associated with polysomes. <i>FEBS Letters</i> , <b>2013</b> , 587, 2319-24	3.8	9

30	USP40 gene knockdown disrupts glomerular permeability in zebrafish. <i>American Journal of Physiology - Renal Physiology</i> , <b>2017</b> , 312, F702-F715	4.3	8
29	Insulin/insulin-like growth factor-like activity in the aqueous extracts of the rotifer <i>Brachionus plicatilis</i> . <i>Fisheries Science</i> , <b>2013</b> , 79, 47-53	1.9	8
28	Distribution of adipocyte-related cells in skeletal muscle of rainbow trout <i>Oncorhynchus mykiss</i> . <i>Fisheries Science</i> , <b>2013</b> , 79, 143-148	1.9	8
27	Lysosomal targeting of SIDT2 via multiple Yxx motifs is required for SIDT2 function in the process of RNautophagy. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 2843-2853	5.3	8
26	The Short-Stature Homeobox-Containing Gene ( <i>Shox2</i> ) Is Required for the Regulation of Cell Proliferation and Bone Differentiation in Zebrafish Embryo and Human Mesenchymal Stem Cells. <i>Frontiers in Endocrinology</i> , <b>2017</b> , 8, 125	5.7	8
25	Insulin receptor substrate-1 associates with small nucleolar RNA which contributes to ribosome biogenesis. <i>Frontiers in Endocrinology</i> , <b>2014</b> , 5, 24	5.7	8
24	Differential subcellular localization of insulin receptor substrates depends on C-terminal regions and importin beta. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 377, 741-6	3.4	8
23	Prolyl Isomerase Pin1 Suppresses Thermogenic Programs in Adipocytes by Promoting Degradation of Transcriptional Co-activator PRDM16. <i>Cell Reports</i> , <b>2019</b> , 26, 3221-3230.e3	10.6	7
22	Catch-Up Growth in Zebrafish Embryo Requires Neural Crest Cells Sustained by Irs1 Signaling. <i>Endocrinology</i> , <b>2018</b> , 159, 1547-1560	4.8	7
21	IGF research 2016-2018. <i>Growth Hormone and IGF Research</i> , <b>2019</b> , 48-49, 65-69	2	7
20	Transport Granules Bound with Nuclear Cap Binding Protein and Exon Junction Complex Are Associated with Microtubules and Spatially Separated from eIF4E Granules and P Bodies in Human Neuronal Processes. <i>Frontiers in Molecular Biosciences</i> , <b>2017</b> , 4, 93	5.6	7
19	Triglyceride synthesis in hepatocytes isolated from rats fed a low-protein diet is enhanced independently of upregulation of insulin signaling. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 490, 800-805	3.4	6
18	Effect of protein restriction on messenger RNA of insulin-like growth factor-I and insulin-like growth factor-binding proteins in liver of ovariectomized rats. <i>British Journal of Nutrition</i> , <b>1998</b> , 79, 447-53	3.6	6
17	IRS-2 deubiquitination by USP9X maintains anchorage-independent cell growth via Erk1/2 activation in prostate carcinoma cell line. <i>Oncotarget</i> , <b>2018</b> , 9, 33871-33883	3.3	5
16	Quercetin 3,5,7,3',4'-pentamethyl ether from <i>Kaempferia parviflora</i> directly and effectively activates human SIRT1. <i>Communications Biology</i> , <b>2021</b> , 4, 209	6.7	5
15	A translation repressor, 4E-BP1, regulates the triglyceride level in rat liver during protein deprivation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2020</b> , 318, E636-E645	6	4
14	Supplemental arginine above the requirement during suckling causes obesity and insulin resistance in rats. <i>Nutrition Research</i> , <b>2016</b> , 36, 575-85	4	3
13	Steroid hormones are novel nucleoside transport inhibitors by competition with nucleosides for their transporters. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 443, 505-10	3.4	3

12	Low-arginine and low-protein diets induce hepatic lipid accumulation through different mechanisms in growing rats. <i>Nutrition and Metabolism</i> , <b>2020</b> , 17, 60	4.6	3
11	Low-protein diet enhances adiponectin secretion in rats. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2019</b> , 83, 1774-1781	2.1	2
10	Identification and gene expression profile analysis of a major type of lipoprotein lipase in adult medaka <i>Oryzias latipes</i> . <i>Fisheries Science</i> , <b>2015</b> , 81, 163-173	1.9	2
9	LST8 level controls basal p70 S6 kinase and Akt phosphorylations, and mTORC1 and mTORC2 negatively regulate each other by competing for association with LST8. <i>Obesity Research and Clinical Practice</i> , <b>2012</b> , 6, e175-262	5.4	2
8	Elaidate, a trans fatty acid, suppresses insulin signaling for glucose uptake in a manner distinct from that of stearate. <i>Biochimie</i> , <b>2020</b> , 177, 98-107	4.6	2
7	Endogenous testosterone reduces hepatic lipid accumulation in protein-restricted male rats. <i>Nutrition</i> , <b>2021</b> , 85, 111130	4.8	2
6	Myoblasts With Higher IRS-1 Levels Are Eliminated From the Normal Cell Layer During Differentiation. <i>Frontiers in Endocrinology</i> , <b>2020</b> , 11, 96	5.7	1
5	Alteration of serum amino acid profiles by dietary adenine supplementation inhibits fatty liver development in rats. <i>Scientific Reports</i> , <b>2020</b> , 10, 22110	4.9	1
4	Rapid manipulation of mitochondrial morphology in a living cell with iCMM.. <i>Cell Reports Methods</i> , <b>2021</b> , 1, 100052		1
3	Dietary lysine restriction induces lipid accumulation in skeletal muscle through an increase in serum threonine levels in rats. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101179	5.4	1
2	A novel amino acid signaling process governs glucose-6-phosphatase transcription. <i>IScience</i> , <b>2021</b> , 24, 102778	6.1	0
1	Rbfox2 mediates exon 11 inclusion in insulin receptor pre-mRNA splicing in hepatoma cells. <i>Biochimie</i> , <b>2021</b> , 187, 25-32	4.6	0