

# Fumihiko Hakuno

## List of Publications by Citations

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72  
papers

1,381  
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22  
h-index

32  
g-index

73  
ext. papers

1,656  
ext. citations

4.9  
avg, IF

4.5  
L-index

#	Paper	IF	Citations
72	IGF1 receptor signaling pathways. <i>Journal of Molecular Endocrinology</i> , <b>2018</b> , 61, T69-T86	4.5	136
71	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
70	KIBRA suppresses apical exocytosis through inhibition of aPKC kinase activity in epithelial cells. <i>Current Biology</i> , <b>2011</b> , 21, 705-11	6.3	56
69	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
68	Motility response to insulin-like growth factor-I (IGF-I) in MCF-7 cells is associated with IRS-2 activation and integrin expression. <i>Breast Cancer Research and Treatment</i> , <b>2004</b> , 83, 161-70	4.4	48
67	Nedd4-induced monoubiquitination of IRS-2 enhances IGF signalling and mitogenic activity. <i>Nature Communications</i> , <b>2015</b> , 6, 6780	17.4	42
66	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
65	Serine Phosphorylation by mTORC1 Promotes IRS-1 Degradation through SCF <sup>TRCP</sup> E3 Ubiquitin Ligase. <i>IScience</i> , <b>2018</b> , 5, 1-18	6.1	36
64	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
63	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
62	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
61	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
60	Paraquat-induced oxidative stress represses phosphatidylinositol 3-kinase activities leading to impaired glucose uptake in 3T3-L1 adipocytes. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 20915-25	5.4	28
59	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
58	RNAutophagy/DNAutophagy possesses selectivity for RNA/DNA substrates. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 6439-49	20.1	26
57	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
56	Enhanced oxidative stress in GH-transgenic rat and acromegaly in humans. <i>Growth Hormone and IGF Research</i> , <b>2012</b> , 22, 64-8	2	26

55	Novel repressor regulates insulin sensitivity through interaction with Foxo1. <i>EMBO Journal</i> , <b>2012</b> , 31, 2275-95	13	26
54	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
53	Novel missense mutation in the IGF-I receptor L2 domain results in intrauterine and postnatal growth retardation. <i>Clinical Endocrinology</i> , <b>2012</b> , 77, 246-54	3.4	24
52	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
51	53BP2S, interacting with insulin receptor substrates, modulates insulin signaling. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 37747-58	5.4	22
50	Growth hormone inhibition of glucose uptake in adipocytes occurs without affecting GLUT4 translocation through an insulin receptor substrate-2-phosphatidylinositol 3-kinase-dependent pathway. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 6061-70	5.4	21
49	Identification of Bombyx mori Akt and its phosphorylation by bombyxin stimulation. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2008</b> , 151, 355-60	2.3	21
48	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
47	Tumor necrosis factor (TNF)- $\alpha$ -induced repression of GKAP42 protein levels through cGMP-dependent kinase (cGK)-II causes insulin resistance in 3T3-L1 adipocytes. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 5881-92	5.4	19
46	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
45	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
44	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
43	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
42	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
41	Interaction between cAMP-dependent and insulin-dependent signal pathways in tyrosine phosphorylation in primary cultures of rat hepatocytes. <i>Biochemical Journal</i> , <b>1997</b> , 324 ( Pt 2), 379-88	3.8	18
40	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
39	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
38	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

37	Analysis of insulin receptor substrate signaling dynamics on microstructured surfaces. <i>FEBS Journal</i> , <b>2015</b> , 282, 987-1005	5.7	15
36	Familial short stature is associated with a novel dominant-negative heterozygous insulin-like growth factor 1 receptor (IGF1R) mutation. <i>Clinical Endocrinology</i> , <b>2014</b> , 81, 312-4	3.4	14
35	Nexilin, a cardiomyopathy-associated F-actin binding protein, binds and regulates IRS1 signaling in skeletal muscle cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e55634	3.7	14
34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	Growth hormone (GH) or insulin-like growth factor (IGF)-I represses 11beta-hydroxysteroid dehydrogenase type 1 (HSD1) mRNA expression in 3T3-L1 cells and its activity in their homogenates. <i>Endocrine Journal</i> , <b>2009</b> , 56, 561-70	2.9	10
21	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
20	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

19	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
18	The Short-Stature Homeobox-Containing Gene ( <i>Shc</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
17	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
16	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
15	Effect of paraquat-induced oxidative stress on insulin regulation of insulin-like growth factor-binding protein-1 gene expression. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2010</b> , 46, 157-67 <sup>3-1</sup>		8
14	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
13	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
12	Quercetin 3,5,7,3,4,6-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
11	Phosphatidylinositol 3-Kinase-Associated Protein (PI3KAP)/XB130 Crosslinks Actin Filaments through Its Actin Binding and Multimerization Properties In Vitro and Enhances Endocytosis in HEK293 Cells. <i>Frontiers in Endocrinology</i> , <b>2016</b> , 7, 89	5.7	4
10	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
9	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
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.  
*Biochimie*, **2021**, 187, 25-32

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