Fumihiko Hakuno

List of Publications by Year
in descending order

74 papers	1,891 citations	257357 24 h-index	315616 38 g-index
74 all docs	74 docs citations	74 times ranked	4899 citing authors

#	Article	IF	Citations
1	40 YEARS OF IGF1: IGF1 receptor signaling pathways. Journal of Molecular Endocrinology, 2018, 61, T69-T86.	1.1	257
2	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.. Endocrine Journal, 2000, 47, 739-751.	0.7	71
3	KIBRA Suppresses Apical Exocytosis through Inhibition of aPKC Kinase Activity in Epithelial Cells. Current Biology, 2011, 21, 705-711.	1.8	71
4	Nedd4-induced monoubiquitination of IRS-2 enhances IGF signalling and mitogenic activity. Nature Communications, 2015, 6, 6780.	5.8	64
5	Serine Phosphorylation by mTORC1 Promotes IRS-1 Degradation through SCFÎ²-TRCP E3ÂUbiquitin Ligase. IScience, 2018, 5, 1-18.	1.9	63
6	Signalling pathways of insulin-like growth factor-I that are augmented by cAMP in FRTL-5 cells. Biochemical Journal, 2000, 348, 409-416.	1.7	57
7	Motility Response to Insulin-like Growth Factor-I (IGF-I) in MCF-7 Cells is Associated with IRS-2 Activation and Integrin Expression. Breast Cancer Research and Treatment, 2004, 83, 161-170.	1.1	48
8	Insulin Receptor Substrate-3 Functions as Transcriptional Activator in the Nucleus. Journal of Biological Chemistry, 2002, 277, 6846-6851.	1.6	44
9	IRS-1 acts as an endocytic regulator of IGF-I receptor to facilitate sustained IGF signaling. ELife, 2018, 7, .	2.8	43
10	Rapid increase in fibroblast growth factor 21 in protein malnutrition and its impact on growth and lipid metabolism. British Journal of Nutrition, 2015, 114, 1410-1418.	1.2	41
11	RNautophagy/DNautophagy possesses selectivity for RNA/DNA substrates. Nucleic Acids Research, 2015, 43, 6439-6449.	6.5	37
12	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. Frontiers in Endocrinology, 2015, 6, 73.	1.5	35
13	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. Autophagy, 2020, 16, 1974-1988.	4.3	35
14	The Novel Roles of Liver for Compensation of Insulin Resistance in Human Growth Hormone Transgenic Rats. Endocrinology, 2006, 147, 5374-5384.	1.4	34
15	Paraquat-induced Oxidative Stress Represses Phosphatidylinositol 3-Kinase Activities Leading to Impaired Glucose Uptake in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 2010, 285, 20915-20925.	1.6	34
16	Dietary protein deprivation upregulates insulin signaling and inhibits gluconeogenesis in rat liver. Journal of Molecular Endocrinology, 2010, 45, 329-340.	1.1	33
17	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. Biochemical and Biophysical Research Communications, 2012, 423, 122-127.	1.0	33
18	Importance of Serum Amino Acid Profile for Induction of Hepatic Steatosis under Protein Malnutrition. Scientific Reports, 2018, 8, 5461.	1.6	31

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19	Novel missense mutation in the <scp>IGF</scp>â€‹<scp>I</scp> receptor <scp>L</scp>2 domain results in intrauterine and postnatal growth retardation. Clinical Endocrinology, 2012, 77, 246-254.	1.2	29
20	Tyrosine Kinase and Phosphatidylinositol 3-Kinase Activation Are Required for Cyclic Adenosine 3â€²,5â€²-Monophosphate-Dependent Potentiation of Deoxyribonucleic Acid Synthesis Induced by Insulin-Like Growth Factor-I in FRTL-5 Cells. Endocrinology, 2000, 141, 2429-2438.	1.4	28
21	Novel repressor regulates insulin sensitivity through interaction with Foxo1. EMBO Journal, 2012, 31, 2275-2295.	3.5	28
22	Insulin receptor substrates form high-molecular-mass complexes that modulate their availability to insulin/insulin-like growth factor-I receptor tyrosine kinases. Biochemical and Biophysical Research Communications, 2011, 404, 767-773.	1.0	27
23	Enhanced oxidative stress in GH-transgenic rat and acromegaly in humans. Growth Hormone and IGF Research, 2012, 22, 64-68.	0.5	27
24	53BP2S, Interacting with Insulin Receptor Substrates, Modulates Insulin Signaling. Journal of Biological Chemistry, 2007, 282, 37747-37758.	1.6	26
25	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. Journal of Biological Chemistry, 2012, 287, 29713-29721.	1.6	26
26	Tumor Necrosis Factor (TNF)-Î±-induced Repression of GKAP42 Protein Levels through cGMP-dependent Kinase (cGK)-IÎ± Causes Insulin Resistance in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 2015, 290, 5881-5892.	1.6	25
27	Identification of Bombyx mori Akt and its phosphorylation by bombyxin stimulation. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2008, 151, 355-360.	0.7	24
28	Growth Hormone Inhibition of Glucose Uptake in Adipocytes Occurs without Affecting GLUT4 Translocation through an Insulin Receptor Substrate-2-Phosphatidylinositol 3-Kinase-dependent Pathway. Journal of Biological Chemistry, 2009, 284, 6061-6070.	1.6	22
29	The AP-1 Complex Regulates Intracellular Localization of Insulin Receptor Substrate 1, Which Is Required for Insulin-Like Growth Factor I-Dependent Cell Proliferation. Molecular and Cellular Biology, 2013, 33, 1991-2003.	1.1	22
30	Myelodysplastic Syndrome-Associated SRSF2 Mutations Cause Splicing Changes by Altering Binding Motif Sequences. Frontiers in Genetics, 2019, 10, 338.	1.1	22
31	Constitutive Expression of Insulin Receptor Substrate (IRS)-1 Inhibits Myogenic Differentiation through Nuclear Exclusion of Foxo1 in L6 Myoblasts. PLoS ONE, 2011, 6, e25655.	1.1	21
32	Phosphatidylinositol 3-Kinase-Binding Protein, PI3KAP/XB130, Is Required for cAMP-induced Amplification of IGF Mitogenic Activity in FRTL-5 Thyroid Cells. Molecular Endocrinology, 2012, 26, 1043-1055.	3.7	21
33	Tissue-specific effects of protein malnutrition on insulin signaling pathway and lipid accumulation in growing rats. Endocrine Journal, 2014, 61, 499-512.	0.7	21
34	Analysis of insulin receptor substrate signaling dynamics on microstructured surfaces. FEBS Journal, 2015, 282, 987-1005.	2.2	21
35	Interaction between cAMP-dependent and insulin-dependent signal pathways in tyrosine phosphorylation in primary cultures of rat hepatocytes. Biochemical Journal, 1997, 324, 379-388.	1.7	20
36	Long-term hormonal regulation of the cAMP-specific phosphodiesterases in cultured FRTL-5 thyroid cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2001, 1540, 68-81.	1.9	20

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37	HSP90 interacting with IRS-2 is involved in cAMP-dependent potentiation of IGF-I signals in FRTL-5 cells. Molecular and Cellular Endocrinology, 2011, 344, 81-89.	1.6	20
38	Roles of chondroitin sulfate proteoglycan 4 in fibrogenic/adipogenic differentiation in skeletal muscle tissues. Experimental Cell Research, 2016, 347, 367-377.	1.2	20
39	Branched-chain amino acid supplementation restores reduced insulinotropic activity of a low-protein diet through the vagus nerve in rats. Nutrition and Metabolism, 2017, 14, 59.	1.3	20
40	Signalling pathways of insulin-like growth factor-I that are augmented by cAMP in FRTL-5 cells. Biochemical Journal, 2000, 348, 409.	1.7	19
41	Nexilin, a Cardiomyopathy-Associated F-Actin Binding Protein, Binds and Regulates IRS1 Signaling in Skeletal Muscle Cells. PLoS ONE, 2013, 8, e55634.	1.1	19
42	The Inner Nuclear Membrane Protein Nemp1 Is a New Type of RanGTP-Binding Protein in Eukaryotes. PLoS ONE, 2015, 10, e0127271.	1.1	18
43	USP15 attenuates IGF-I signaling by antagonizing Nedd4-induced IRS-2 ubiquitination. Biochemical and Biophysical Research Communications, 2017, 484, 522-528.	1.0	17
44	Familial short stature is associated with a novel dominantâ€negative heterozygous insulinâ€like growth factor 1 receptor (<scp>IGF</scp>1<scp>R</scp>) mutation. Clinical Endocrinology, 2014, 81, 312-314.	1.2	16
45	A novel IRS-1-associated protein, DGKÎ¶ regulates GLUT4 translocation in 3T3-L1 adipocytes. Scientific Reports, 2016, 6, 35438.	1.6	16
46	Catch-Up Growth in Zebrafish Embryo Requires Neural Crest Cells Sustained by Irs1 Signaling. Endocrinology, 2018, 159, 1547-1560.	1.4	16
47	Acetylcholinesterase (AChE) inhibition aggravates fastingâ€induced triglyceride accumulation in the mouse liver. FEBS Open Bio, 2014, 4, 905-914.	1.0	15
48	Lysosomal targeting of SIDT2 via multiple YXXÎ¦ motifs is required for SIDT2 function in the process of RNautophagy. Journal of Cell Science, 2017, 130, 2843-2853.	1.2	15
49	Distinct Modes of Activation of Phosphatidylinositol 3-Kinase in Response to Cyclic Adenosine 3â€², 5â€²-Monophosphate or Insulin-Like Growth Factor I Play Different Roles in Regulation of Cyclin D1 and p27Kip1 in FRTL-5 Cells. Endocrinology, 2008, 149, 3729-3742.	1.4	14
50	Insulin receptor substrate-3, interacting with Bcl-3, enhances p50 NF-Îº B activity. Biochemical and Biophysical Research Communications, 2010, 394, 697-702.	1.0	14
51	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. Bioscience, Biotechnology and Biochemistry, 2014, 78, 130-138.	0.6	13
52	Aspp2 negatively regulates body growth but not developmental timing by modulating IRS signaling in zebrafish embryos. General and Comparative Endocrinology, 2014, 197, 82-91.	0.8	13
53	Quercetin 3,5,7,3â€²,4â€²-pentamethyl ether from Kaempferia parviflora directly and effectively activates human SIRT1. Communications Biology, 2021, 4, 209.	2.0	13
54	Insulin receptor substrateâ€1 (IRSâ€1) forms a ribonucleoprotein complex associated with polysomes. FEBS Letters, 2013, 587, 2319-2324.	1.3	11

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55	Insulin Receptor Substrate-1 Associates with Small Nucleolar RNA Which Contributes to Ribosome Biogenesis. Frontiers in Endocrinology, 2014, 5, 24.	1.5	11
56	Low-arginine and low-protein diets induce hepatic lipid accumulation through different mechanisms in growing rats. Nutrition and Metabolism, 2020, 17, 60.	1.3	11
57	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. Endocrinology, 2000, 141, 2429-2438.	1.4	11
58	IRS-2 deubiquitination by USP9X maintains anchorage-independent cell growth via Erk1/2 activation in prostate carcinoma cell line. Oncotarget, 2018, 9, 33871-33883.	0.8	11
59	Growth Hormone (GH) or Insulin-like Growth Factor (IGF)-I Represses 11.BETA.-Hydroxysteroid Dehydrogenase Type 1 (HSD1) mRNA Expression in 3T3-L1 Cells and Its Activity in Their Homogenates. Endocrine Journal, 2009, 56, 561-570.	0.7	10
60	The Short-Stature Homeobox-Containing Gene (shox/SHOX) Is Required for the Regulation of Cell Proliferation and Bone Differentiation in Zebrafish Embryo and Human Mesenchymal Stem Cells. Frontiers in Endocrinology, 2017, 8, 125.	1.5	10
61	Rapid manipulation of mitochondrial morphology in a living cell with iCMM. Cell Reports Methods, 2021, 1, 100052.	1.4	10
62	Effect of Paraquat-Induced Oxidative Stress on Insulin Regulation of Insulin-Like Growth Factor-Binding Protein-1 Gene Expression. Journal of Clinical Biochemistry and Nutrition, 2010, 46, 157-167.	0.6	10
63	Insulin/insulin-like growth factor-like activity in the aqueous extracts of the rotifer Brachionus plicatilis. Fisheries Science, 2013, 79, 47-53.	0.7	9
64	Differential subcellular localization of insulin receptor substrates depends on C-terminal regions and importin Î². Biochemical and Biophysical Research Communications, 2008, 377, 741-746.	1.0	8
65	Dietary lysine restriction induces lipid accumulation in skeletal muscle through an increase in serum threonine levels in rats. Journal of Biological Chemistry, 2021, 297, 101179.	1.6	8
66	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. Frontiers in Endocrinology, 2016, 7, 89.	1.5	7
67	Endogenous testosterone reduces hepatic lipid accumulation in protein-restricted male rats. Nutrition, 2021, 85, 111130.	1.1	4
68	A novel amino acid signaling process governs glucose-6-phosphatase transcription. IScience, 2021, 24, 102778.	1.9	4
69	Rbfox2 mediates exon 11 inclusion in insulin receptor pre-mRNA splicing in hepatoma cells. Biochimie, 2021, 187, 25-32.	1.3	4
70	Alteration of serum amino acid profiles by dietary adenine supplementation inhibits fatty liver development in rats. Scientific Reports, 2020, 10, 22110.	1.6	4
71	Steroid hormones are novel nucleoside transport inhibitors by competition with nucleosides for their transporters. Biochemical and Biophysical Research Communications, 2014, 443, 505-510.	1.0	3
72	Elaidate, a trans fatty acid, suppresses insulin signaling for glucose uptake in a manner distinct from that of stearate. Biochimie, 2020, 177, 98-107.	1.3	3

#	Article	IF	Citations
73	Essential Amino Acid Intake Is Required for Sustaining Serum Insulin-like Growth Factor-I Levels but Is Not Necessarily Needed for Body Growth. Cells, 2022, 11, 1523.	1.8	2
74	Myoblasts With Higher IRS-1 Levels Are Eliminated From the Normal Cell Layer During Differentiation. Frontiers in Endocrinology, 2020, 11, 96.	1.5	1