

Fumihiko Hakuno

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.

72
papers

1,381
citations

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 | Endogenous testosterone reduces hepatic lipid accumulation in protein-restricted male rats. <i>Nutrition</i> , 2021 , 85, 111130 | 4.8 | 2 |
| 71 | A novel amino acid signaling process governs glucose-6-phosphatase transcription. <i>IScience</i> , 2021 , 24, 102778 | 6.1 | 0 |
| 70 | Quercetin 3,5,7,3,4-pentamethyl ether from <i>Kaempferia parviflora</i> directly and effectively activates human SIRT1. <i>Communications Biology</i> , 2021 , 4, 209 | 6.7 | 5 |
| 69 | Rapid manipulation of mitochondrial morphology in a living cell with iCMM.. <i>Cell Reports Methods</i> , 2021 , 1, 100052 | | 1 |
| 68 | Rbfox2 mediates exon 11 inclusion in insulin receptor pre-mRNA splicing in hepatoma cells. <i>Biochimie</i> , 2021 , 187, 25-32 | 4.6 | 0 |
| 67 | Dietary lysine restriction induces lipid accumulation in skeletal muscle through an increase in serum threonine levels in rats. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101179 | 5.4 | 1 |
| 66 | Myoblasts With Higher IRS-1 Levels Are Eliminated From the Normal Cell Layer During Differentiation. <i>Frontiers in Endocrinology</i> , 2020 , 11, 96 | 5.7 | 1 |
| 65 | 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> , 2020 , 16, 1974-1988 | 10.2 | 11 |
| 64 | Alteration of serum amino acid profiles by dietary adenine supplementation inhibits fatty liver development in rats. <i>Scientific Reports</i> , 2020 , 10, 22110 | 4.9 | 1 |
| 63 | Elaidate, a trans fatty acid, suppresses insulin signaling for glucose uptake in a manner distinct from that of stearate. <i>Biochimie</i> , 2020 , 177, 98-107 | 4.6 | 2 |
| 62 | Low-arginine and low-protein diets induce hepatic lipid accumulation through different mechanisms in growing rats. <i>Nutrition and Metabolism</i> , 2020 , 17, 60 | 4.6 | 3 |
| 61 | Myelodysplastic Syndrome-Associated SRSF2 Mutations Cause Splicing Changes by Altering Binding Motif Sequences. <i>Frontiers in Genetics</i> , 2019 , 10, 338 | 4.5 | 10 |
| 60 | Importance of Serum Amino Acid Profile for Induction of Hepatic Steatosis under Protein Malnutrition. <i>Scientific Reports</i> , 2018 , 8, 5461 | 4.9 | 25 |
| 59 | Catch-Up Growth in Zebrafish Embryo Requires Neural Crest Cells Sustained by Irs1 Signaling. <i>Endocrinology</i> , 2018 , 159, 1547-1560 | 4.8 | 7 |
| 58 | IGF1 receptor signaling pathways. <i>Journal of Molecular Endocrinology</i> , 2018 , 61, T69-T86 | 4.5 | 136 |
| 57 | IRS-2 deubiquitination by USP9X maintains anchorage-independent cell growth via Erk1/2 activation in prostate carcinoma cell line. <i>Oncotarget</i> , 2018 , 9, 33871-33883 | 3.3 | 5 |
| 56 | IRS-1 acts as an endocytic regulator of IGF-I receptor to facilitate sustained IGF signaling. <i>ELife</i> , 2018 , 7, | 8.9 | 29 |

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| 55 | Serine Phosphorylation by mTORC1 Promotes IRS-1 Degradation through SCF ^β TRCP E3 Ubiquitin Ligase. <i>IScience</i> , 2018 , 5, 1-18 | 6.1 | 36 |
| 54 | USP15 attenuates IGF-I signaling by antagonizing Nedd4-induced IRS-2 ubiquitination. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 484, 522-528 | 3.4 | 10 |
| 53 | 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> , 2017 , 14, 59 | 4.6 | 12 |
| 52 | Lysosomal targeting of SIDT2 via multiple Yxx motifs is required for SIDT2 function in the process of RNautophagy. <i>Journal of Cell Science</i> , 2017 , 130, 2843-2853 | 5.3 | 8 |
| 51 | 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> , 2017 , 8, 125 | 5.7 | 8 |
| 50 | A novel IRS-1-associated protein, DGK β regulates GLUT4 translocation in 3T3-L1 adipocytes. <i>Scientific Reports</i> , 2016 , 6, 35438 | 4.9 | 13 |
| 49 | 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> , 2016 , 7, 89 | 5.7 | 4 |
| 48 | Roles of chondroitin sulfate proteoglycan 4 in fibrogenic/adipogenic differentiation in skeletal muscle tissues. <i>Experimental Cell Research</i> , 2016 , 347, 367-77 | 4.2 | 13 |
| 47 | Tumor necrosis factor (TNF)- α 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> , 2015 , 290, 5881-92 | 5.4 | 19 |
| 46 | RNautophagy/DNautophagy possesses selectivity for RNA/DNA substrates. <i>Nucleic Acids Research</i> , 2015 , 43, 6439-49 | 20.1 | 26 |
| 45 | Analysis of insulin receptor substrate signaling dynamics on microstructured surfaces. <i>FEBS Journal</i> , 2015 , 282, 987-1005 | 5.7 | 15 |
| 44 | Rapid increase in fibroblast growth factor 21 in protein malnutrition and its impact on growth and lipid metabolism. <i>British Journal of Nutrition</i> , 2015 , 114, 1410-8 | 3.6 | 30 |
| 43 | 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> , 2015 , 6, 73 | 5.7 | 19 |
| 42 | The Inner Nuclear Membrane Protein Nemp1 Is a New Type of RanGTP-Binding Protein in Eukaryotes. <i>PLoS ONE</i> , 2015 , 10, e0127271 | 3.7 | 12 |
| 41 | Nedd4-induced monoubiquitination of IRS-2 enhances IGF signalling and mitogenic activity. <i>Nature Communications</i> , 2015 , 6, 6780 | 17.4 | 42 |
| 40 | Aspp2 negatively regulates body growth but not developmental timing by modulating IRS signaling in zebrafish embryos. <i>General and Comparative Endocrinology</i> , 2014 , 197, 82-91 | 3 | 11 |
| 39 | Tissue-specific effects of protein malnutrition on insulin signaling pathway and lipid accumulation in growing rats. <i>Endocrine Journal</i> , 2014 , 61, 499-512 | 2.9 | 18 |
| 38 | Insulin receptor substrate-1 associates with small nucleolar RNA which contributes to ribosome biogenesis. <i>Frontiers in Endocrinology</i> , 2014 , 5, 24 | 5.7 | 8 |

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| 37 | Acetylcholinesterase (AChE) inhibition aggravates fasting-induced triglyceride accumulation in the mouse liver. <i>FEBS Open Bio</i> , 2014 , 4, 905-14 | 2.7 | 12 |
| 36 | Familial short stature is associated with a novel dominant-negative heterozygous insulin-like growth factor 1 receptor (IGF1R) mutation. <i>Clinical Endocrinology</i> , 2014 , 81, 312-4 | 3.4 | 14 |
| 35 | 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> , 2014 , 78, 130-8 | 2.1 | 13 |
| 34 | Steroid hormones are novel nucleoside transport inhibitors by competition with nucleosides for their transporters. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 443, 505-10 | 3.4 | 3 |
| 33 | Insulin/insulin-like growth factor-like activity in the aqueous extracts of the rotifer <i>Brachionus plicatilis</i> . <i>Fisheries Science</i> , 2013 , 79, 47-53 | 1.9 | 8 |
| 32 | Insulin receptor substrate-1 (IRS-1) forms a ribonucleoprotein complex associated with polysomes. <i>FEBS Letters</i> , 2013 , 587, 2319-24 | 3.8 | 9 |
| 31 | 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> , 2013 , 33, 1991-2003 | 4.8 | 17 |
| 30 | Nexilin, a cardiomyopathy-associated F-actin binding protein, binds and regulates IRS1 signaling in skeletal muscle cells. <i>PLoS ONE</i> , 2013 , 8, e55634 | 3.7 | 14 |
| 29 | Novel missense mutation in the IGF-I receptor L2 domain results in intrauterine and postnatal growth retardation. <i>Clinical Endocrinology</i> , 2012 , 77, 246-54 | 3.4 | 24 |
| 28 | 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> , 2012 , 26, 1043-55 | | 19 |
| 27 | 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> , 2012 , 287, 29713-21 | 5.4 | 20 |
| 26 | 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> , 2012 , 423, 122-7 | 3.4 | 26 |
| 25 | Enhanced oxidative stress in GH-transgenic rat and acromegaly in humans. <i>Growth Hormone and IGF Research</i> , 2012 , 22, 64-8 | 2 | 26 |
| 24 | Novel repressor regulates insulin sensitivity through interaction with Foxo1. <i>EMBO Journal</i> , 2012 , 31, 2275-95 | 13 | 26 |
| 23 | 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> , 2011 , 404, 767-73 | 3.4 | 23 |
| 22 | 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> , 2011 , 344, 81-9 | 4.4 | 16 |
| 21 | Constitutive expression of insulin receptor substrate (IRS)-1 inhibits myogenic differentiation through nuclear exclusion of Foxo1 in L6 myoblasts. <i>PLoS ONE</i> , 2011 , 6, e25655 | 3.7 | 17 |
| 20 | KIBRA suppresses apical exocytosis through inhibition of aPKC kinase activity in epithelial cells. <i>Current Biology</i> , 2011 , 21, 705-11 | 6.3 | 56 |

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| 19 | Dietary protein deprivation upregulates insulin signaling and inhibits gluconeogenesis in rat liver. <i>Journal of Molecular Endocrinology</i> , 2010 , 45, 329-40 | 4.5 | 29 |
| 18 | Paraquat-induced oxidative stress represses phosphatidylinositol 3-kinase activities leading to impaired glucose uptake in 3T3-L1 adipocytes. <i>Journal of Biological Chemistry</i> , 2010 , 285, 20915-25 | 5.4 | 28 |
| 17 | Insulin receptor substrate-3, interacting with Bcl-3, enhances p50 NF-kappaB activity. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 394, 697-702 | 3.4 | 13 |
| 16 | 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> , 2010 , 46, 157-67 ^{3.1} | | 8 |
| 15 | 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> , 2009 , 284, 6061-70 | 5.4 | 21 |
| 14 | 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> , 2009 , 56, 561-70 | 2.9 | 10 |
| 13 | Differential subcellular localization of insulin receptor substrates depends on C-terminal regions and importin beta. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 377, 741-6 | 3.4 | 8 |
| 12 | Identification of Bombyx mori Akt and its phosphorylation by bombyxin stimulation. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008 , 151, 355-60 | 2.3 | 21 |
| 11 | 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> , 2008 , 149, 3729-42 | 4.8 | 12 |
| 10 | 53BP2S, interacting with insulin receptor substrates, modulates insulin signaling. <i>Journal of Biological Chemistry</i> , 2007 , 282, 37747-58 | 5.4 | 22 |
| 9 | The novel roles of liver for compensation of insulin resistance in human growth hormone transgenic rats. <i>Endocrinology</i> , 2006 , 147, 5374-84 | 4.8 | 29 |
| 8 | 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> , 2004 , 83, 161-70 | 4.4 | 48 |
| 7 | Insulin receptor substrate-3 functions as transcriptional activator in the nucleus. <i>Journal of Biological Chemistry</i> , 2002 , 277, 6846-51 | 5.4 | 41 |
| 6 | Long-term hormonal regulation of the cAMP-specific phosphodiesterases in cultured FRTL-5 thyroid cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2001 , 1540, 68-81 | 4.9 | 19 |
| 5 | 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> , 2000 , 47, 739-51 | 2.9 | 67 |
| 4 | Signalling pathways of insulin-like growth factor-I that are augmented by cAMP in FRTL-5 cells. <i>Biochemical Journal</i> , 2000 , 348, 409 | 3.8 | 19 |
| 3 | Signalling pathways of insulin-like growth factor-I that are augmented by cAMP in FRTL-5 cells. <i>Biochemical Journal</i> , 2000 , 348, 409-416 | 3.8 | 53 |
| 2 | 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> , 2000 , 141, 2429-38 | 4.8 | 28 |

- 1 Interaction between cAMP-dependent and insulin-dependent signal pathways in tyrosine phosphorylation in primary cultures of rat hepatocytes. *Biochemical Journal*, **1997**, 324 (Pt 2), 379-88 3.8 18