Morris F White

List of Publications by Year
in descending order

108 papers	21,076 citations	25034 57 h-index	27406 106 g-index
114 all docs	114 docs citations	114 times ranked	17367 citing authors

#	Article	IF	Citations
1	The P300 acetyltransferase inhibitor C646 promotes membrane translocation of insulin receptor protein substrate and interaction with the insulin receptor. Journal of Biological Chemistry, 2022, 298, 101621.	3.4	6
2	From population to neuron: exploring common mediators for metabolic problems and mental illnesses. Molecular Psychiatry, 2021, 26, 3931-3942.	7.9	16
3	FoxO1 suppresses Fgf21 during hepatic insulin resistance to impair peripheral glucose utilization and acute cold tolerance. Cell Reports, 2021, 34, 108893.	6.4	14
4	Irs2 deficiency alters hippocampus-associated behaviors during young adulthood. Biochemical and Biophysical Research Communications, 2021, 559, 148-154.	2.1	6
5	Insulin action at a molecular level â€“ 100 years of progress. Molecular Metabolism, 2021, 52, 101304.	6.5	103
6	Insulin receptor substrate 1, but not IRS2, plays a dominant role in regulating pancreatic alpha cell function in mice. Journal of Biological Chemistry, 2021, 296, 100646.	3.4	9
7	TAZ inhibits glucocorticoid receptor and coordinates hepatic glucose homeostasis in normal physiological states. ELife, 2021, 10, .	6.0	6
8	Elevated circulating follistatin associates with an increased risk of type 2 diabetes. Nature Communications, 2021, 12, 6486.	12.8	31
9	Paraventricular, subparaventricular and periventricular hypothalamic IRS4-expressing neurons are required for normal energy balance. Scientific Reports, 2020, 10, 5546.	3.3	11
10	Insulin receptor substrates differentially exacerbate insulin-mediated left ventricular remodeling. JCI Insight, 2020, 5, .	5.0	19
11	Phosphorylation of Forkhead Protein FoxO1 at S253 Regulates Glucose Homeostasis in Mice. Endocrinology, 2019, 160, 1333-1347.	2.8	26
12	Hyperglycemia induces vascular smooth muscle cell dedifferentiation by suppressing insulin receptor substrate-1â€“mediated p53/KLF4 complex stabilization. Journal of Biological Chemistry, 2019, 294, 2407-2421.	3.4	28
13	Ablation of insulin receptor substrates 1 and 2 suppresses <i>Kras</i> -driven lung tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4228-4233.	7.1	22
14	Insulin signaling and reduced glucocorticoid receptor activity attenuate postprandial gene expression in liver. PLoS Biology, 2018, 16, e2006249.	5.6	45
15	Inactivating hepatic follistatin alleviates hyperglycemia. Nature Medicine, 2018, 24, 1058-1069.	30.7	71
16	Receptor Tyrosine Kinases and the Insulin Signaling System. Endocrinology, 2018, , 121-155.	0.1	0
17	Down-regulation of Insulin Receptor Substrate 1 during Hyperglycemia Induces Vascular Smooth Muscle Cell Dedifferentiation. Journal of Biological Chemistry, 2017, 292, 2009-2020.	3.4	21
18	Endotoxemia-mediated activation of acetyltransferase P300 impairs insulin signaling in obesity. Nature Communications, 2017, 8, 131.	12.8	59

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19	Receptor Tyrosine Kinases and the Insulin Signaling System. Endocrinology, 2017, , 1-34.	0.1	0
20	Serine 302 Phosphorylation of Mouse Insulin Receptor Substrate 1 (IRS1) Is Dispensable for Normal Insulin Signaling and Feedback Regulation by Hepatic S6 Kinase. Journal of Biological Chemistry, 2016, 291, 8602-8617.	3.4	28
21	Insulin receptor substrate-1 deficiency drives a proinflammatory phenotype in <i>KRAS</i> mutant lung adenocarcinoma. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8795-8800.	7.1	14
22	IRS proteins and diabetic complications. Diabetologia, 2016, 59, 2280-2291.	6.3	77
23	G protein-coupled receptors (GPCRs) That Signal via Protein Kinase A (PKA) Cross-talk at Insulin Receptor Substrate 1 (IRS1) to Activate the phosphatidylinositol 3-kinase (PI3K)/AKT Pathway. Journal of Biological Chemistry, 2016, 291, 27160-27169.	3.4	50
24	The Mechanisms of Insulin Action. , 2016, , 556-585.e13.		7
25	Trimeprazine increases IRS2 in human islets and promotes pancreatic Î² cell growth and function in mice. JCI Insight, 2016, 1, .	5.0	8
26	Mapping the path to a longer life. Nature, 2015, 524, 170-171.	27.8	1
27	Insulin Receptor Substrates Are Essential for the Bioenergetic and Hypertrophic Response of the Heart to Exercise Training. Molecular and Cellular Biology, 2014, 34, 3450-3460.	2.3	85
28	IRS1Ser307 phosphorylation does not mediate mTORC1-induced insulin resistance. Biochemical and Biophysical Research Communications, 2014, 443, 689-693.	2.1	7
29	Irs2 and Irs4 synergize in non-LepRb neurons to control energy balance and glucose homeostasis. Molecular Metabolism, 2014, 3, 55-63.	6.5	37
30	APPL1 Potentiates Insulin Sensitivity by Facilitating the Binding of IRS1/2 to the Insulin Receptor. Cell Reports, 2014, 7, 1227-1238.	6.4	107
31	Insulin and Metabolic Stress Stimulate Multisite Serine/Threonine Phosphorylation of Insulin Receptor Substrate 1 and Inhibit Tyrosine Phosphorylation. Journal of Biological Chemistry, 2014, 289, 12467-12484.	3.4	79
32	Nerve Growth Factor Receptor TrkA, a New Receptor in Insulin Signaling Pathway in PC12 Cells. Journal of Biological Chemistry, 2013, 288, 23807-23813.	3.4	23
33	Integrating Metabolism and Longevity Through Insulin and IGF1 Signaling. Endocrinology and Metabolism Clinics of North America, 2013, 42, 127-148.	3.2	30
34	Direct Autocrine Action of Insulin on Î²-Cells: Does It Make Physiological Sense?. Diabetes, 2013, 62, 2157-2163.	0.6	85
35	Inhibition of TNF-Î± Improves the Bladder Dysfunction That Is Associated With Type 2 Diabetes. Diabetes, 2012, 61, 2134-2145.	0.6	57
36	The AKTion in non-canonical insulin signaling. Nature Medicine, 2012, 18, 351-353.	30.7	31

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37	kNOXing on the Door of Selective Insulin Resistance. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1063-1065.	2.4	4
38	Regulation of insulin sensitivity by serine/threonine phosphorylation of insulin receptor substrate proteins IRS1 and IRS2. Diabetologia, 2012, 55, 2565-2582.	6.3	785
39	IRS2 Signaling in LepR-b Neurons Suppresses FoxO1 to Control Energy Balance Independently of Leptin Action. Cell Metabolism, 2012, 15, 703-712.	16.2	53
40	Targeting Forkhead Box O1 from the Concept to Metabolic Diseases: Lessons from Mouse Models. Antioxidants and Redox Signaling, 2011, 14, 649-661.	5.4	178
41	Insulin Receptor Substrates Irs1 and Irs2 Coordinate Skeletal Muscle Growth and Metabolism via the Akt and AMPK Pathways. Molecular and Cellular Biology, 2011, 31, 430-441.	2.3	147
42	Regulation of glucose homeostasis through a XBP-1â€“FoxO1 interaction. Nature Medicine, 2011, 17, 356-365.	30.7	249
43	IRS2 increases mitochondrial dysfunction and oxidative stress in a mouse model of Huntington disease. Journal of Clinical Investigation, 2011, 121, 4070-4081.	8.2	89
44	Human IL6 enhances leptin action in mice. Diabetologia, 2010, 53, 525-535.	6.3	143
45	Extreme makeover of pancreatic Î±-cells. Nature, 2010, 464, 1132-1133.	27.8	12
46	The IRS2 Gly1057Asp Variant Is Associated With Human Longevity. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2010, 65A, 282-286.	3.6	16
47	Foxo1 in hepatic lipid metabolism. Cell Cycle, 2010, 9, 219-220.	2.6	15
48	Irs1 Serine 307 Promotes Insulin Sensitivity in Mice. Cell Metabolism, 2010, 11, 84-92.	16.2	167
49	Insulin signaling meets mitochondria in metabolism. Trends in Endocrinology and Metabolism, 2010, 21, 589-598.	7.1	383
50	The Mechanisms of Insulin Action. , 2010, , 636-659.		3
51	Insulin Receptor Substrate-2 in Î²-Cells Decreases Diabetes in Nonobese Diabetic Mice. Endocrinology, 2009, 150, 4531-4540.	2.8	19
52	The Irs1 Branch of the Insulin Signaling Cascade Plays a Dominant Role in Hepatic Nutrient Homeostasis. Molecular and Cellular Biology, 2009, 29, 5070-5083.	2.3	132
53	Foxo1 integrates insulin signaling with mitochondrial function in the liver. Nature Medicine, 2009, 15, 1307-1311.	30.7	273
54	Metformin and Insulin Meet in a Most Atypical Way. Cell Metabolism, 2009, 9, 485-487.	16.2	14

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55	The Role of Insulinâ€like Signaling for the Central and Peripheral Regulation of Nutrient Homeostasis and Life Span. FASEB Journal, 2009, 23, 329.2.	0.5	0
56	Insulin-Like Signaling, Nutrient Homeostasis, and Life Span. Annual Review of Physiology, 2008, 70, 191-212.	13.1	286
57	Inactivation of Hepatic Foxo1 by Insulin Signaling Is Required for Adaptive Nutrient Homeostasis and Endocrine Growth Regulation. Cell Metabolism, 2008, 8, 65-76.	16.2	400
58	Genetic Deficiency of Glycogen Synthase Kinase-3Î² Corrects Diabetes in Mouse Models of Insulin Resistance. PLoS Biology, 2008, 6, e37.	5.6	96
59	Phosphorylation of Irs1 at SER-522 Inhibits Insulin Signaling. Molecular Endocrinology, 2007, 21, 2294-2302.	3.7	37
60	Brain IRS2 Signaling Coordinates Life Span and Nutrient Homeostasis. Science, 2007, 317, 369-372.	12.6	483
61	Regulating insulin signaling and Î²-cell function through IRS proteinsThis paper is one of a selection of papers published in this Special Issue, entitled Second Messengers and Phosphoproteinsâ€"12th International Conference.. Canadian Journal of Physiology and Pharmacology, 2006, 84, 725-737.	1.4	144
62	Exendin-4 Uses Irs2 Signaling to Mediate Pancreatic Î² Cell Growth and Function. Journal of Biological Chemistry, 2006, 281, 1159-1168.	3.4	189
63	Irs1 and Irs2 signaling is essential for hepatic glucose homeostasis and systemic growth. Journal of Clinical Investigation, 2006, 116, 101-114.	8.2	186
64	RIP-Cre Revisited, Evidence for Impairments of Pancreatic Î²-Cell Function. Journal of Biological Chemistry, 2006, 281, 2649-2653.	3.4	222
65	Attenuation of Accumulation of Neointimal Lipid by Pioglitazone in Mice Genetically Deficient in Insulin Receptor Substrate-2 and Apolipoprotein E. Journal of Histochemistry and Cytochemistry, 2005, 53, 603-610.	2.5	23
66	Islet-Sparing Effects of Protein Tyrosine Phosphatase-1b Deficiency Delays Onset of Diabetes in IRS2 Knockout Mice. Diabetes, 2004, 53, 61-66.	0.6	69
67	Nutrient-dependent and Insulin-stimulated Phosphorylation of Insulin Receptor Substrate-1 on Serine 302 Correlates with Increased Insulin Signaling. Journal of Biological Chemistry, 2004, 279, 3447-3454.	3.4	88
68	Signaling Pathways: The Benefits of Good Communication. Current Biology, 2004, 14, R1005-R1007.	3.9	58
69	Mammalian target of rapamycin regulates IRS-1 serine 307 phosphorylation. Biochemical and Biophysical Research Communications, 2004, 316, 533-539.	2.1	136
70	cAMP promotes pancreatic Î²-cell survival via CREB-mediated induction of IRS2. Genes and Development, 2003, 17, 1575-1580.	5.9	491
71	Insulin Signaling in Health and Disease. Science, 2003, 302, 1710-1711.	12.6	616
72	c-Jun N-terminal Kinase (JNK) Mediates Feedback Inhibition of the Insulin Signaling Cascade. Journal of Biological Chemistry, 2003, 278, 2896-2902.	3.4	355

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73	Insulin Receptor Substrate-2 Deficiency Impairs Brain Growth and Promotes Tau Phosphorylation. Journal of Neuroscience, 2003, 23, 7084-7092.	3.6	434
74	Mechanism by Which Fatty Acids Inhibit Insulin Activation of Insulin Receptor Substrate-1 (IRS-1)-associated Phosphatidylinositol 3-Kinase Activity in Muscle. Journal of Biological Chemistry, 2002, 277, 50230-50236.	3.4	1,254
75	SOCS-1 and SOCS-3 Block Insulin Signaling by Ubiquitin-mediated Degradation of IRS1 and IRS2. Journal of Biological Chemistry, 2002, 277, 42394-42398.	3.4	744
76	IRS proteins and the common path to diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E413-E422.	3.5	757
77	The forkhead transcription factor Foxo1 links insulin signaling to Pdx1 regulation of pancreatic Î² cell growth. Journal of Clinical Investigation, 2002, 110, 1839-1847.	8.2	503
78	Association of Insulin Receptor Substrate 1 (IRS-1) Y895 with Grb-2 Mediates the Insulin Signaling Involved in IRS-1-Deficient Brown Adipocyte Mitogenesis. Molecular and Cellular Biology, 2001, 21, 2269-2280.	2.3	35
79	Regulation of Insulin/Insulin-like Growth Factor-1 Signaling by Proteasome-mediated Degradation of Insulin Receptor Substrate-2. Journal of Biological Chemistry, 2001, 276, 40362-40367.	3.4	191
80	Insulin/IGF-1 and TNF-Î± stimulate phosphorylation of IRS-1 at inhibitory Ser307 via distinct pathways. Journal of Clinical Investigation, 2001, 107, 181-189.	8.2	508
81	IRS-2 pathways integrate female reproduction and energy homeostasis. Nature, 2000, 407, 377-382.	27.8	425
82	The c-Jun NH2-terminal Kinase Promotes Insulin Resistance during Association with Insulin Receptor Substrate-1 and Phosphorylation of Ser307. Journal of Biological Chemistry, 2000, 275, 9047-9054.	3.4	1,216
83	Contrasting Effects of IRS-1 Versus IRS-2 Gene Disruption on Carbohydrate and Lipid Metabolism in Vivo. Journal of Biological Chemistry, 2000, 275, 38990-38994.	3.4	247
84	Tissue-specific insulin resistance in mice with mutations in the insulin receptor, IRS-1, and IRS-2. Journal of Clinical Investigation, 2000, 105, 199-205.	8.2	419
85	Irs-2 coordinates Igf-1 receptor-mediated Î²-cell development and peripheral insulin signalling. Nature Genetics, 1999, 23, 32-40.	21.4	486
86	Insulin action and type 2 diabetes: lessons from knockout mice. Current Opinion in Endocrinology, Diabetes and Obesity, 1999, 6, 141-145.	0.6	9
87	The IRS-signalling system: A network of docking proteins that mediate insulin action. Molecular and Cellular Biochemistry, 1998, 182, 3-11.	3.1	534
88	Disruption of IRS-2 causes type 2 diabetes in mice. Nature, 1998, 391, 900-904.	27.8	1,607
89	IRS Pleckstrin Homology Domains Bind to Acidic Motifs in Proteins. Journal of Biological Chemistry, 1998, 273, 31061-31067.	3.4	71
90	Interaction of Insulin Receptor Substrate-1 (IRS-1) with Phosphatidylinositol 3-Kinase: Effect of Substitution of Serine for Alanine in Potential IRS-1 Serine Phosphorylation Sites. Endocrinology, 1998, 139, 4911-4919.	2.8	20

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91	The IRS-2 Gene on Murine Chromosome 8 Encodes a Unique Signaling Adapter for Insulin and Cytokine Action. Molecular Endocrinology, 1997, 11, 251-262.	3.7	133
92	Tyr624 and Tyr628 in Insulin Receptor Substrate-2 Mediate Its Association with the Insulin Receptor. Journal of Biological Chemistry, 1997, 272, 16414-16420.	3.4	65
93	The IRS-signalling system during insulin and cytokine action. BioEssays, 1997, 19, 491-500.	2.5	271
94	The IRS-2 Gene on Murine Chromosome 8 Encodes a Unique Signaling Adapter for Insulin and Cytokine Action. Molecular Endocrinology, 1997, 11, 251-262.	3.7	42
95	The Pleckstrin Homology Domain Is the Principle Link between the Insulin Receptor and IRS-1. Journal of Biological Chemistry, 1996, 271, 24300-24306.	3.4	156
96	Growth Hormone, Interferon-Î³, and Leukemia Inhibitory Factor Utilize Insulin Receptor Substrate-2 in Intracellular Signaling. Journal of Biological Chemistry, 1996, 271, 29415-29421.	3.4	116
97	Insulin Receptor Substrate-2 Binds to the Insulin Receptor through Its Phosphotyrosine-binding Domain and through a Newly Identified Domain Comprising Amino Acids 591â€“786. Journal of Biological Chemistry, 1996, 271, 5980-5983.	3.4	168
98	Interleukins 2, 4, 7, and 15 Stimulate Tyrosine Phosphorylation of Insulin Receptor Substrates 1 and 2 in T Cells POTENTIAL ROLE OF JAK KINASES. Journal of Biological Chemistry, 1995, 270, 28527-28530.	3.4	127
99	Molecular Mechanisms of Signal Transduction by Tyrosine Kinase Receptors. Journal of Animal Science, 1993, 71, 3-22.	0.5	2
100	Structure of the insulin receptor substrate IRS-1 defines a unique signal transduction protein. Nature, 1991, 352, 73-77.	27.8	1,516
101	Human Insulin Receptors Expressed in Insulin-Insensitive Mouse Fibroblasts Couple with Extant Cellular Effector Systems to Confer Insulin Sensitivity and Responsiveness*. Endocrinology, 1989, 124, 257-264.	2.8	26
102	Tyrosine-Kinase Defect of the Insulin Receptor in Cultured Fibroblasts from Patients with Lipoatropic Diabetes*. Journal of Clinical Endocrinology and Metabolism, 1989, 69, 142-150.	3.6	22
103	Cascade of autophosphorylation in the ?-subunit of the insulin receptor. Journal of Cellular Biochemistry, 1989, 39, 429-441.	2.6	38
104	Mutation of the insulin receptor at tyrosine 960 inhibits signal transmission but does not affect its tyrosine kinase activity. Cell, 1988, 54, 641-649.	28.9	382
105	Phosphorylation of glycolytic and gluconeogenic enzymes by the insulin receptor kinase. Journal of Cellular Biochemistry, 1987, 33, 15-26.	2.6	46
106	Insulin rapidly stimulates tyrosine phosphorylation of a Mr-185,000 protein in intact cells. Nature, 1985, 318, 183-186.	27.8	661
107	Interaction of the insulin receptor kinase with serine/threonine kinases in vitro. Journal of Cellular Biochemistry, 1985, 28, 171-182.	2.6	45
108	Phosphorylation of the solubilized insulin receptor by the gene product of the Rous sarcoma virus, pp60src. Journal of Cellular Biochemistry, 1984, 26, 169-179.	2.6	8