

C Ronald Kahn

List of Publications by Year in Descending Order

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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.

555
papers

90,334
citations

151
h-index

289
g-index

586
ext. papers

99,506
ext. citations

14.3
avg, IF

7.99
L-index

#	Paper	IF	Citations
555	Tissue differences in the exosomal/small extracellular vesicle proteome and their potential as indicators of altered tissue metabolism.. <i>Cell Reports</i> , 2022 , 38, 110277	10.6	5
554	Transcriptomic Regulation of Muscle Mitochondria and Calcium Signaling by Insulin/IGF-1 Receptors Depends on FoxO Transcription Factors.. <i>Frontiers in Physiology</i> , 2021 , 12, 779121	4.6	0
553	MicroRNA sequence codes for small extracellular vesicle release and cellular retention.. <i>Nature</i> , 2021 ,	50.4	36
552	Defining the underlying defect in insulin action in type 2 diabetes. <i>Diabetologia</i> , 2021 , 64, 994-1006	10.3	28
551	miRNA-22 deletion limits white adipose expansion and activates brown fat to attenuate high-fat diet-induced fat mass accumulation. <i>Metabolism: Clinical and Experimental</i> , 2021 , 117, 154723	12.7	4
550	Distinct signaling by insulin and IGF-1 receptors and their extra- and intracellular domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
549	Peripheral Insulin Regulates a Broad Network of Gene Expression in Hypothalamus, Hippocampus, and Nucleus Accumbens. <i>Diabetes</i> , 2021 , 70, 1857-1873	0.9	3
548	Comprehensive Search for Novel Circulating miRNAs and Axon Guidance Pathway Proteins Associated with Risk of ESKD in Diabetes. <i>Journal of the American Society of Nephrology: JASN</i> , 2021 , 32, 2331-2351	12.7	3
547	Characterization of viral insulins reveals white adipose tissue-specific effects in mice. <i>Molecular Metabolism</i> , 2021 , 44, 101121	8.8	5
546	Insulin: A pacesetter for the shape of modern biomedical science and the Nobel Prize. <i>Molecular Metabolism</i> , 2021 , 52, 101194	8.8	7
545	Proximal tubular epithelial insulin receptor mediates high-fat diet-induced kidney injury. <i>JCI Insight</i> , 2021 , 6,	9.9	3
544	Insulin action at a molecular level - 100 years of progress. <i>Molecular Metabolism</i> , 2021 , 52, 101304	8.8	17
543	Extracellular miRNAs as mediators of obesity-associated disease. <i>Journal of Physiology</i> , 2021 ,	3.9	6
542	Signaling defects associated with insulin resistance in nondiabetic and diabetic individuals and modification by sex. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	2
541	Altered pattern of circulating miRNAs in HIV lipodystrophy perturbs key adipose differentiation and inflammation pathways. <i>JCI Insight</i> , 2021 , 6,	9.9	2
540	Differential roles of FOXO transcription factors on insulin action in brown and white adipose tissue. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	1
539	A viral insulin-like peptide is a natural competitive antagonist of the human IGF-1 receptor. <i>Molecular Metabolism</i> , 2021 , 53, 101316	8.8	2

538	Adipocyte Microenvironment: Everybody in the Neighborhood Talks about the Temperature. <i>Cell Metabolism</i> , 2021 , 33, 4-6	24.6	4
537	Non-invasive monitoring of chronic liver disease via near-infrared and shortwave-infrared imaging of endogenous lipofuscin. <i>Nature Biomedical Engineering</i> , 2020 , 4, 801-813	19	14
536	FGF6 and FGF9 regulate UCP1 expression independent of brown adipogenesis. <i>Nature Communications</i> , 2020 , 11, 1421	17.4	36
535	Arrestin domain-containing 3 (<i>Arrdc3</i>) modulates insulin action and glucose metabolism in liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 6733-6740	11.5	14
534	3-Hydroxyisobutyrate, A Strong Marker of Insulin Resistance in Type 2 Diabetes and Obesity That Modulates White and Brown Adipocyte Metabolism. <i>Diabetes</i> , 2020 , 69, 1903-1916	0.9	20
533	Fructose and hepatic insulin resistance. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2020 , 57, 308-322	9.4	36
532	Single-cell transcriptional networks in differentiating preadipocytes suggest drivers associated with tissue heterogeneity. <i>Nature Communications</i> , 2020 , 11, 2117	17.4	19
531	1733-P: Phosphoproteomic Analysis of Insulin Action Using Human IPS-Derived Myoblasts Reveals Important Interactions between Differences Based on Insulin Sensitivity and Sex. <i>Diabetes</i> , 2020 , 69, 1733-P	0.9	
530	1725-P: Viral Insulins as Agonists and Antagonists on Insulin/IGF-1 Receptors. <i>Diabetes</i> , 2020 , 69, 1725-P	0.9	1
529	1737-P: Defining Distinct Actions of Insulin and IGF1 Receptors and Their Extra and Intracellular Domains at the Level of the Phosphoproteome. <i>Diabetes</i> , 2020 , 69, 1737-P	0.9	
528	207-OR: Liver-Preadipocyte Cross Talk Reverses Lipodystrophy-Induced Insulin Resistance. <i>Diabetes</i> , 2020 , 69, 207-OR	0.9	
527	Hepatocyte Stress Increases Expression of Yes-Associated Protein and Transcriptional Coactivator With PDZ-Binding Motif in Hepatocytes to Promote Parenchymal Inflammation and Fibrosis. <i>Hepatology</i> , 2020 , 71, 1813-1830	11.2	41
526	Inhibition of the PI 3-kinase pathway disrupts the unfolded protein response and reduces sensitivity to ER stress-dependent apoptosis. <i>FASEB Journal</i> , 2020 , 34, 12521-12532	0.9	3
525	Muscle-Specific Insulin Receptor Overexpression Protects Mice From Diet-Induced Glucose Intolerance but Leads to Postreceptor Insulin Resistance. <i>Diabetes</i> , 2020 , 69, 2294-2309	0.9	6
524	A Cell-Autonomous Signature of Dysregulated Protein Phosphorylation Underlies Muscle Insulin Resistance in Type 2 Diabetes. <i>Cell Metabolism</i> , 2020 , 32, 844-859.e5	24.6	21
523	Diabetes in ageing: pathways for developing the evidence base for clinical guidance. <i>Lancet Diabetes and Endocrinology</i> , 2020 , 8, 855-867	18.1	11
522	Dynamic changes in DICER levels in adipose tissue control metabolic adaptations to exercise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 23932-23941	11.5	9
521	Viral Hormones: Expanding Dimensions in Endocrinology. <i>Endocrinology</i> , 2019 , 160, 2165-2179	4.8	14

520	Homozygous receptors for insulin and not IGF-1 accelerate intimal hyperplasia in insulin resistance and diabetes. <i>Nature Communications</i> , 2019 , 10, 4427	17.4	10
519	Dietary Sugars Alter Hepatic Fatty Acid Oxidation via Transcriptional and Post-translational Modifications of Mitochondrial Proteins. <i>Cell Metabolism</i> , 2019 , 30, 735-753.e4	24.6	66
518	Insulin action in the brain regulates mitochondrial stress responses and reduces diet-induced weight gain. <i>Molecular Metabolism</i> , 2019 , 21, 68-81	8.8	27
517	The insulin receptor goes nuclear. <i>Cell Research</i> , 2019 , 29, 509-511	24.7	4
516	Regulation of UCP1 and Mitochondrial Metabolism in Brown Adipose Tissue by Reversible Succinylation. <i>Molecular Cell</i> , 2019 , 74, 844-857.e7	17.6	58
515	Multi-dimensional Transcriptional Remodeling by Physiological Insulin In Vivo. <i>Cell Reports</i> , 2019 , 26, 3429-3443.e3	10.6	39
514	Insulin/IGF1 signalling mediates the effects of β adrenergic agonist on muscle proteostasis and growth. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019 , 10, 455-475	10.3	19
513	FoxK1 and FoxK2 in insulin regulation of cellular and mitochondrial metabolism. <i>Nature Communications</i> , 2019 , 10, 1582	17.4	29
512	TGF- β is an exercise-induced adipokine that regulates glucose and fatty acid metabolism. <i>Nature Metabolism</i> , 2019 , 1, 291-303	14.6	66
511	Identification of two microRNA nodes as potential cooperative modulators of liver metabolism. <i>Hepatology Research</i> , 2019 , 49, 1451-1465	5.1	8
510	Extracellular miRNAs: From Biomarkers to Mediators of Physiology and Disease. <i>Cell Metabolism</i> , 2019 , 30, 656-673	24.6	203
509	Role of p110a subunit of PI3-kinase in skeletal muscle mitochondrial homeostasis and metabolism. <i>Nature Communications</i> , 2019 , 10, 3412	17.4	14
508	Brown adipose tissue-specific insulin receptor knockout shows diabetic phenotype without insulin resistance. <i>Journal of Clinical Investigation</i> , 2019 , 129, 437	15.9	2
507	291-OR: Exercise Modulates Glucose Metabolism in Part through Changes in the Gut Microbiome. <i>Diabetes</i> , 2019 , 68, 291-OR	0.9	
506	1785-P: Mice with Muscle-Specific Insulin Receptor Overexpression Are Protected from Diet-Induced Obesity and Glucose Intolerance but Develop Post-Receptor Insulin Resistance. <i>Diabetes</i> , 2019 , 68, 1785-P	0.9	
505	35-OR: Physiological Insulin Regulates Alternative mRNA Splicing in Liver and Muscle at Multiple Levels. <i>Diabetes</i> , 2019 , 68, 35-OR	0.9	0
504	1805-P: Insulin Regulates a Broad Network of Gene Expression in the Brain to Regulated Brain Metabolism and Neurotransmission. <i>Diabetes</i> , 2019 , 68, 1805-P	0.9	
503	187-OR: Gut Microbiota Regulate Pancreatic Growth, Exocrine Function, and Gut Hormones. <i>Diabetes</i> , 2019 , 68, 187-OR	0.9	

502	Membrane metallo-endopeptidase (Neprilysin) regulates inflammatory response and insulin signaling in white preadipocytes. <i>Molecular Metabolism</i> , 2019 , 22, 21-36	8.8	9
501	Insulin signaling in the hippocampus and amygdala regulates metabolism and neurobehavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6379-6384	11.5	60
500	Fatty liver disease: is it nonalcoholic fatty liver disease or obesity-associated fatty liver disease?. <i>European Journal of Gastroenterology and Hepatology</i> , 2019 , 31, 143	2.2	9
499	Altered adipose tissue and adipocyte function in the pathogenesis of metabolic syndrome. <i>Journal of Clinical Investigation</i> , 2019 , 129, 3990-4000	15.9	169
498	Insulin receptor plays a central role in skin carcinogenesis by regulating cytoskeleton assembly. <i>FASEB Journal</i> , 2019 , 33, 2241-2251	0.9	1
497	Developmental and functional heterogeneity of white adipocytes within a single fat depot. <i>EMBO Journal</i> , 2019 , 38,	13	53
496	FoxO Transcription Factors Are Critical Regulators of Diabetes-Related Muscle Atrophy. <i>Diabetes</i> , 2019 , 68, 556-570	0.9	61
495	Viral insulin-like peptides activate human insulin and IGF-1 receptor signaling: A paradigm shift for host-microbe interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2461-2466	11.5	37
494	Pyruvate induces torpor in obese mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 810-815	11.5	11
493	Mice Carrying a Dominant-Negative Human PI3K Mutation Are Protected From Obesity and Hepatic Steatosis but Not Diabetes. <i>Diabetes</i> , 2018 , 67, 1297-1309	0.9	10
492	Regional differences in brain glucose metabolism determined by imaging mass spectrometry. <i>Molecular Metabolism</i> , 2018 , 12, 113-121	8.8	26
491	Distinct signalling properties of insulin receptor substrate (IRS)-1 and IRS-2 in mediating insulin/IGF-1 action. <i>Cellular Signalling</i> , 2018 , 47, 1-15	4.9	31
490	Diet, Genetics, and the Gut Microbiome Drive Dynamic Changes in Plasma Metabolites. <i>Cell Reports</i> , 2018 , 22, 3072-3086	10.6	99
489	Mucosal absorption of therapeutic peptides by harnessing the endogenous sorting of glycosphingolipids. <i>ELife</i> , 2018 , 7,	8.9	14
488	Gut microbiota modulate neurobehavior through changes in brain insulin sensitivity and metabolism. <i>Molecular Psychiatry</i> , 2018 , 23, 2287-2301	15.1	109
487	Insulin regulates astrocyte gliotransmission and modulates behavior. <i>Journal of Clinical Investigation</i> , 2018 , 128, 2914-2926	15.9	81
486	Sirt5 Plays a Critical Role in Mitochondrial Protein Acylation and Mitochondrial Metabolic Homeostasis in Brown Fat. <i>Diabetes</i> , 2018 , 67, 274-OR	0.9	2
485	Identification of Cross Reactive Insulin Immunogenic Epitopes from Commensal Gut Microbes. <i>Diabetes</i> , 2018 , 67, 95-OR	0.9	1

484	Dissection of Insulin-Dependent Pathways in Skeletal Muscle under Physiological and Diabetic Conditions. <i>Diabetes</i> , 2018 , 67, 1785-P	0.9	
483	Serum Exosomal Proteins: A New Component of Intercellular Communication in Metabolism. <i>Diabetes</i> , 2018 , 67, 354-OR	0.9	
482	Modeling the Spectrum of Human Insulin Resistance Using Induced Pluripotent Stem Cells. <i>Diabetes</i> , 2018 , 67, 1784-P	0.9	
481	Attenuation of PKC δ Enhances metabolic activity and promotes expansion of blood progenitors. <i>EMBO Journal</i> , 2018 , 37,	13	3
480	Temporal dynamics of liver mitochondrial protein acetylation and succinylation and metabolites due to high fat diet and/or excess glucose or fructose. <i>PLoS ONE</i> , 2018 , 13, e0208973	3.7	26
479	TRPV1 neurons regulate β cell function in a sex-dependent manner. <i>Molecular Metabolism</i> , 2018 , 18, 60-67	8.8	14
478	Loss of astrocyte cholesterol synthesis disrupts neuronal function and alters whole-body metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1189-1194	11.5	77
477	Regulation of Glucose Uptake and Enteroendocrine Function by the Intestinal Epithelial Insulin Receptor. <i>Diabetes</i> , 2017 , 66, 886-896	0.9	25
476	Adipocyte Dynamics and Reversible Metabolic Syndrome in Mice with an Inducible Adipocyte-Specific Deletion of the Insulin Receptor. <i>Cell Metabolism</i> , 2017 , 25, 448-462	24.6	63
475	Adipose-derived circulating miRNAs regulate gene expression in other tissues. <i>Nature</i> , 2017 , 542, 450-455	50.4	770
474	Metabolic control of primed human pluripotent stem cell fate and function by the miR-200c-SIRT2 axis. <i>Nature Cell Biology</i> , 2017 , 19, 445-456	23.4	90
473	Response to Comment on Ussar et al. Regulation of Glucose Uptake and Enteroendocrine Function by the Intestinal Epithelial Insulin Receptor. <i>Diabetes</i> 2017;66:886-896. <i>Diabetes</i> , 2017 , 66, e6	0.9	1
472	Impairment of insulin signalling in peripheral tissue fails to extend murine lifespan. <i>Aging Cell</i> , 2017 , 16, 761-772	9.9	14
471	Thermoneutral housing exacerbates nonalcoholic fatty liver disease in mice and allows for sex-independent disease modeling. <i>Nature Medicine</i> , 2017 , 23, 829-838	50.5	106
470	Domain-dependent effects of insulin and IGF-1 receptors on signalling and gene expression. <i>Nature Communications</i> , 2017 , 8, 14892	17.4	62
469	Positive and negative roles of p85 β and p85 α regulatory subunits of phosphoinositide 3-kinase in insulin signaling. <i>Journal of Biological Chemistry</i> , 2017 , 292, 5608	5.4	5
468	Iris Malformation and Anterior Segment Dysgenesis in Mice and Humans With a Mutation in PI 3-Kinase 2017 , 58, 3100-3106		5
467	Defines a Glycolytic Subpopulation and White Adipocyte Heterogeneity. <i>Diabetes</i> , 2017 , 66, 2822-2829	0.9	26

466	Endothelial insulin receptors differentially control insulin signaling kinetics in peripheral tissues and brain of mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8478-E8487	11.5	60
465	Integrating Extracellular Flux Measurements and Genome-Scale Modeling Reveals Differences between Brown and White Adipocytes. <i>Cell Reports</i> , 2017 , 21, 3040-3048	10.6	13
464	Divergent effects of glucose and fructose on hepatic lipogenesis and insulin signaling. <i>Journal of Clinical Investigation</i> , 2017 , 127, 4059-4074	15.9	143
463	Hepatic deletion of p110 α and p85 β results in insulin resistance despite sustained IRS1-associated phosphatidylinositol kinase activity. <i>F1000Research</i> , 2017 , 6, 1600	3.6	3
462	Hepatic deletion of p110 α and p85 β results in insulin resistance despite sustained IRS1-associated phosphatidylinositol kinase activity. <i>F1000Research</i> , 2017 , 6, 1600	3.6	1
461	White Adipose Tissue 2017 , 149-199		2
460	"White Paper" meeting summary and catalyst for future inquiry: Complex mechanisms linking neurocognitive dysfunction to insulin resistance and other metabolic dysfunction. <i>F1000Research</i> , 2016 , 5, 353	3.6	53
459	Interactions between host genetics and gut microbiome in diabetes and metabolic syndrome. <i>Molecular Metabolism</i> , 2016 , 5, 795-803	8.8	88
458	Dysfunctional Subcutaneous Fat With Reduced Dicer and Brown Adipose Tissue Gene Expression in HIV-Infected Patients. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 1225-34	5.6	34
457	Role of Dietary Fructose and Hepatic De Novo Lipogenesis in Fatty Liver Disease. <i>Digestive Diseases and Sciences</i> , 2016 , 61, 1282-93	4	306
456	Myotubes derived from human-induced pluripotent stem cells mirror in vivo insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1889-94	11.5	25
455	CDK4 is an essential insulin effector in adipocytes. <i>Journal of Clinical Investigation</i> , 2016 , 126, 335-48	15.9	47
454	PI3-kinase mutation linked to insulin and growth factor resistance in vivo. <i>Journal of Clinical Investigation</i> , 2016 , 126, 1401-12	15.9	37
453	Insulin and IGF-1 receptors regulate FoxO-mediated signaling in muscle proteostasis. <i>Journal of Clinical Investigation</i> , 2016 , 126, 3433-46	15.9	89
452	Antibiotic effects on gut microbiota and metabolism are host dependent. <i>Journal of Clinical Investigation</i> , 2016 , 126, 4430-4443	15.9	94
451	Complementary roles of IRS-1 and IRS-2 in the hepatic regulation of metabolism. <i>Journal of Clinical Investigation</i> , 2016 , 126, 4387	15.9	5
450	"White Paper" meeting summary and catalyst for future inquiry: Complex mechanisms linking neurocognitive dysfunction to insulin resistance and other metabolic dysfunction. <i>F1000Research</i> , 2016 , 5, 353	3.6	60
449	Fat-specific Dicer deficiency accelerates aging and mitigates several effects of dietary restriction in mice. <i>Aging</i> , 2016 , 8, 1201-22	5.6	38

448	Bi-directional regulation of brown fat adipogenesis by the insulin receptor. <i>Journal of Biological Chemistry</i> , 2016 , 291, 27434	5.4	2
447	Insulin Resistance in Human iPS Cells Reduces Mitochondrial Size and Function. <i>Scientific Reports</i> , 2016 , 6, 22788	4.9	38
446	Unraveling the Paradox of Selective Insulin Resistance in the Liver: the Brain-Liver Connection. <i>Diabetes</i> , 2016 , 65, 1481-3	0.9	13
445	Differential Roles of Insulin and IGF-1 Receptors in Adipose Tissue Development and Function. <i>Diabetes</i> , 2016 , 65, 2201-13	0.9	73
444	Lipodystrophy Due to Adipose Tissue-Specific Insulin Receptor Knockout Results in Progressive NAFLD. <i>Diabetes</i> , 2016 , 65, 2187-200	0.9	65
443	Astrocytic Insulin Signaling Couples Brain Glucose Uptake with Nutrient Availability. <i>Cell</i> , 2016 , 166, 867-880	3.8	256
442	Diabetes primes neutrophils to undergo NETosis, which impairs wound healing. <i>Nature Medicine</i> , 2015 , 21, 815-9	50.5	540
441	FoxO1 integrates direct and indirect effects of insulin on hepatic glucose production and glucose utilization. <i>Nature Communications</i> , 2015 , 6, 7079	17.4	127
440	Severe insulin resistance alters metabolism in mesenchymal progenitor cells. <i>Endocrinology</i> , 2015 , 156, 2039-48	4.8	15
439	Insulin resistance in brain alters dopamine turnover and causes behavioral disorders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3463-8	11.5	219
438	Role of PKC δ in Insulin Sensitivity and Skeletal Muscle Metabolism. <i>Diabetes</i> , 2015 , 64, 4023-32	0.9	24
437	Tbx15 controls skeletal muscle fibre-type determination and muscle metabolism. <i>Nature Communications</i> , 2015 , 6, 8054	17.4	51
436	Interactions between Gut Microbiota, Host Genetics and Diet Modulate the Predisposition to Obesity and Metabolic Syndrome. <i>Cell Metabolism</i> , 2015 , 22, 516-530	24.6	325
435	Effect of cholesterol reduction on receptor signaling in neurons. <i>Journal of Biological Chemistry</i> , 2015 , 290, 26383-92	5.4	29
434	Type 2 diabetes mellitus. <i>Nature Reviews Disease Primers</i> , 2015 , 1, 15019	51.1	651
433	Differential Role of Insulin/IGF-1 Receptor Signaling in Muscle Growth and Glucose Homeostasis. <i>Cell Reports</i> , 2015 , 11, 1220-35	10.6	90
432	Differential effects of angiotensin-like 4 in brain and muscle on regulation of lipoprotein lipase activity. <i>Molecular Metabolism</i> , 2015 , 4, 144-50	8.8	20
431	Genetic insulin resistance is a potent regulator of gene expression and proliferation in human iPS cells. <i>Diabetes</i> , 2014 , 63, 4130-42	0.9	31

430	Adipose tissue mitochondrial dysfunction triggers a lipodystrophic syndrome with insulin resistance, hepatosteatorosis, and cardiovascular complications. <i>FASEB Journal</i> , 2014 , 28, 4408-19	0.9	95
429	Insulin and insulin-like growth factor 1 receptors are required for normal expression of imprinted genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14512-7	11.5	33
428	Insulin receptor signaling in normal and insulin-resistant states. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 6,	10.2	705
427	Insulin action in brain regulates systemic metabolism and brain function. <i>Diabetes</i> , 2014 , 63, 2232-43	0.9	349
426	Interplay between FGF21 and insulin action in the liver regulates metabolism. <i>Journal of Clinical Investigation</i> , 2014 , 124, 515-27	15.9	163
425	p53 deficiency protects cells from endoplasmic reticulum stress-induced apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1192-7	11.5	27
424	Signal transducer and activator of transcription 3 and the phosphatidylinositol 3-kinase regulatory subunits p50 and p55 regulate autophagy in vivo. <i>FEBS Journal</i> , 2014 , 281, 4557-67	5.7	17
423	ASC-1, PAT2, and P2RX5 are cell surface markers for white, beige, and brown adipocytes. <i>Science Translational Medicine</i> , 2014 , 6, 247ra103	17.5	130
422	Altered miRNA processing disrupts brown/white adipocyte determination and associates with lipodystrophy. <i>Journal of Clinical Investigation</i> , 2014 , 124, 3339-51	15.9	128
421	Loss of insulin receptor in osteoprogenitor cells impairs structural strength of bone. <i>Journal of Diabetes Research</i> , 2014 , 2014, 703589	3.9	31
420	Sirt3 regulates metabolic flexibility of skeletal muscle through reversible enzymatic deacetylation. <i>Diabetes</i> , 2013 , 62, 3404-17	0.9	182
419	A zebrafish embryo culture system defines factors that promote vertebrate myogenesis across species. <i>Cell</i> , 2013 , 155, 909-921	56.2	123
418	Measurement of human brown adipose tissue volume and activity using anatomic MR imaging and functional MR imaging. <i>Journal of Nuclear Medicine</i> , 2013 , 54, 1584-7	8.9	73
417	Lessons on conditional gene targeting in mouse adipose tissue. <i>Diabetes</i> , 2013 , 62, 864-74	0.9	245
416	Vascular endothelial growth factor is important for brown adipose tissue development and maintenance. <i>FASEB Journal</i> , 2013 , 27, 3257-71	0.9	64
415	SHORT syndrome with partial lipodystrophy due to impaired phosphatidylinositol 3 kinase signaling. <i>American Journal of Human Genetics</i> , 2013 , 93, 150-7	11	91
414	Reduction of the cholesterol sensor SCAP in the brains of mice causes impaired synaptic transmission and altered cognitive function. <i>PLoS Biology</i> , 2013 , 11, e1001532	9.7	42
413	Thioesterase superfamily member 2/Acyl-CoA thioesterase 13 (Them2/Acot13) regulates adaptive thermogenesis in mice. <i>Journal of Biological Chemistry</i> , 2013 , 288, 33376-86	5.4	26

412	Label-free quantitative proteomics of the lysine acetylome in mitochondria identifies substrates of SIRT3 in metabolic pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6601-6	11.5	332
411	Shox2 is a molecular determinant of depot-specific adipocyte function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11409-14	11.5	33
410	Insulin and IGF-I inhibit GH synthesis and release in vitro and in vivo by separate mechanisms. <i>Endocrinology</i> , 2013 , 154, 2410-20	4.8	35
409	Leptin regulation of Hsp60 impacts hypothalamic insulin signaling. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4667-80	15.9	70
408	Absence of diabetes and pancreatic exocrine dysfunction in a transgenic model of carboxyl-ester lipase-MODY (maturity-onset diabetes of the young). <i>PLoS ONE</i> , 2013 , 8, e60229	3.7	14
407	Correction of metabolic abnormalities in a rodent model of obesity, metabolic syndrome, and type 2 diabetes mellitus by inhibitors of hepatic protein kinase C. <i>Metabolism: Clinical and Experimental</i> , 2012 , 61, 459-69	12.7	28
406	Tissue-specific insulin signaling, metabolic syndrome, and cardiovascular disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 2052-9	9.4	228
405	Adipose-specific deletion of TFAM increases mitochondrial oxidation and protects mice against obesity and insulin resistance. <i>Cell Metabolism</i> , 2012 , 16, 765-76	24.6	151
404	Glypican-4 enhances insulin signaling via interaction with the insulin receptor and serves as a novel adipokine. <i>Diabetes</i> , 2012 , 61, 2289-98	0.9	56
403	Role of microRNA processing in adipose tissue in stress defense and longevity. <i>Cell Metabolism</i> , 2012 , 16, 336-47	24.6	190
402	Anatomical and functional assessment of brown adipose tissue by magnetic resonance imaging. <i>Obesity</i> , 2012 , 20, 1519-26	8	70
401	Turning on brown fat and muscle metabolism: hedging your bets. <i>Cell</i> , 2012 , 151, 248-50	56.2	1
400	Retinaldehyde dehydrogenase 1 regulates a thermogenic program in white adipose tissue. <i>Nature Medicine</i> , 2012 , 18, 918-25	50.5	148
399	Insulin augmentation of glucose-stimulated insulin secretion is impaired in insulin-resistant humans. <i>Diabetes</i> , 2012 , 61, 301-9	0.9	41
398	Impaired insulin/IGF1 signaling extends life span by promoting mitochondrial L-proline catabolism to induce a transient ROS signal. <i>Cell Metabolism</i> , 2012 , 15, 451-65	24.6	311
397	Intrinsic differences in adipocyte precursor cells from different white fat depots. <i>Diabetes</i> , 2012 , 61, 1691-9	0.9	208
396	Cross-talk between insulin and Wnt signaling in preadipocytes: role of Wnt co-receptor low density lipoprotein receptor-related protein-5 (LRP5). <i>Journal of Biological Chemistry</i> , 2012 , 287, 12016-26	5.4	66
395	New mechanisms of glucocorticoid-induced insulin resistance: make no bones about it. <i>Journal of Clinical Investigation</i> , 2012 , 122, 3854-7	15.9	80

394	Insulin's discovery: new insights on its ninetieth birthday. <i>Diabetes/Metabolism Research and Reviews</i> , 2012 , 28, 293-304	7.5	31
393	Insulin regulates liver metabolism in vivo in the absence of hepatic Akt and Foxo1. <i>Nature Medicine</i> , 2012 , 18, 388-95	50.5	260
392	Impaired thermogenesis and adipose tissue development in mice with fat-specific disruption of insulin and IGF-1 signalling. <i>Nature Communications</i> , 2012 , 3, 902	17.4	90
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