Rachel J Perry

List of Publications by Year
in descending order

71 papers	6,363 citations	87888 38 h-index	82547 72 g-index
77 all docs	77 docs citations	77 times ranked	10629 citing authors

#	Article	IF	Citations
1	Multimodal analysis suggests differential immuno-metabolic crosstalk in lung squamous cell carcinoma and adenocarcinoma. Npj Precision Oncology, 2022, 6, 8.	5.4	10
2	Brown adipose TRX2 deficiency activates mtDNA-NLRP3 to impair thermogenesis and protect against diet-induced insulin resistance. Journal of Clinical Investigation, 2022, 132, .	8.2	28
3	An optimized method for tissue glycogen quantification. Physiological Reports, 2022, 10, e15195.	1.7	6
4	Diabetes medications and risk of HCC. Hepatology, 2022, 76, 1880-1897.	7.3	39
5	Insulin and cancer: a tangled web. Biochemical Journal, 2022, 479, 583-607.	3.7	22
6	Patient preferences using telehealth during the <scp>COVID</scp>â€19 pandemic in four Victorian tertiary hospital services. Internal Medicine Journal, 2022, 52, 763-769.	0.8	16
7	Comprehensive Analysis of Metabolic Isozyme Targets in Cancer. Cancer Research, 2022, 82, 1698-1711.	0.9	4
8	A precision medicine approach to metabolic therapy for breast cancer in mice. Communications Biology, 2022, 5, .	4.4	9
9	Imeglimin: Current Development and Future Potential in Type 2 Diabetes. Drugs, 2021, 81, 185-190.	10.9	11
10	Short-term overnutrition induces white adipose tissue insulin resistance through sn-1,2-diacylglycerol â€" PKCÎµ â€" insulin receptorT1160 phosphorylation. JCI Insight, 2021, 6, .	5.0	13
11	Deletion of the diabetes candidate gene Slc16a13 in mice attenuates diet-induced ectopic lipid accumulation and insulin resistance. Communications Biology, 2021, 4, 826.	4.4	6
12	Mitophagy-mediated adipose inflammation contributes to type 2 diabetes with hepatic insulin resistance. Journal of Experimental Medicine, 2021, 218, .	8.5	66
13	A feed-forward regulatory loop in adipose tissue promotes signaling by the hepatokine FGF21. Genes and Development, 2021, 35, 133-146.	5.9	26
14	IL-27 signalling promotes adipocyte thermogenesis and energy expenditure. Nature, 2021, 600, 314-318.	27.8	70
15	Dissociation of Muscle Insulin Resistance from Alterations in Mitochondrial Substrate Preference. Cell Metabolism, 2020, 32, 726-735.e5.	16.2	27
16	A MicroRNA Linking Human Positive Selection and Metabolic Disorders. Cell, 2020, 183, 684-701.e14.	28.9	46
17	Current mechanisms in obesity and tumor progression. Current Opinion in Clinical Nutrition and Metabolic Care, 2020, 23, 395-403.	2.5	6
18	Sodium-glucose cotransporter-2 inhibitors: Understanding the mechanisms for therapeutic promise and persisting risks. Journal of Biological Chemistry, 2020, 295, 14379-14390.	3.4	54

#	Article	IF	Citations
19	Mechanisms by which adiponectin reverses high fat diet-induced insulin resistance in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32584-32593.	7.1	82
20	The Impact of Obesity on Tumor Glucose Uptake in Breast and Lung Cancer. JNCI Cancer Spectrum, 2020, 4, pkaa007.	2.9	9
21	Regulation of adipose tissue inflammation by interleukin 6. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2751-2760.	7.1	216
22	Glucagon stimulates gluconeogenesis by INSP3R1-mediated hepatic lipolysis. Nature, 2020, 579, 279-283.	27.8	110
23	OGT suppresses S6K1-mediated macrophage inflammation and metabolic disturbance. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16616-16625.	7.1	42
24	Mechanistic Links between Obesity, Insulin, and Cancer. Trends in Cancer, 2020, 6, 75-78.	7.4	44
25	Metabolic control analysis of hepatic glycogen synthesis in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8166-8176.	7.1	51
26	Leptin mediates postprandial increases in body temperature through hypothalamusâ€“adrenal medullaâ€“adipose tissue crosstalk. Journal of Clinical Investigation, 2020, 130, 2001-2016.	8.2	25
27	Novel Strategies to Treat Hepatic Steatosis and Steatohepatitis. Obesity, 2019, 27, 1385-1387.	3.0	4
28	Adipsin preserves beta cells in diabetic mice and associates with protection from type 2 diabetes in humans. Nature Medicine, 2019, 25, 1739-1747.	30.7	100
29	Controlled-release mitochondrial protonophore (CRMP) reverses dyslipidemia and hepatic steatosis in dysmetabolic nonhuman primates. Science Translational Medicine, 2019, 11, .	12.4	44
30	Dehydration and insulinopenia are necessary and sufficient forÂeuglycemic ketoacidosis in SGLT2 inhibitor-treated rats. Nature Communications, 2019, 10, 548.	12.8	73
31	Leptinâ€™s hunger-suppressing effects are mediated by the hypothalamicâ€“pituitaryâ€“adrenocortical axis in rodents. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13670-13679.	7.1	64
32	Obesity-associated, but not obesity-independent, tumors respond to insulin by increasing mitochondrial glucose oxidation. PLoS ONE, 2019, 14, e0218126.	2.5	24
33	SGLT2 inhibition slows tumor growth in mice by reversing hyperinsulinemia. Cancer & Metabolism, 2019, 7, 10.	5.0	63
34	Emerging Pharmacological Targets for the Treatment of Nonalcoholic Fatty Liver Disease, Insulin Resistance, and Type 2 Diabetes. Annual Review of Pharmacology and Toxicology, 2019, 59, 65-87.	9.4	58
35	<i>In vivo</i> studies on the mechanism of methylene cyclopropyl acetic acid and methylene cyclopropyl glycine-induced hypoglycemia. Biochemical Journal, 2018, 475, 1063-1074.	3.7	8
36	Leptin Mediates a Glucose-Fatty Acid Cycle to Maintain Glucose Homeostasis in Starvation. Cell, 2018, 172, 234-248.e17.	28.9	125

#	Article	IF	Citations
37	Adipocyte JAK2 Regulates Hepatic Insulin Sensitivity Independently of Body Composition, Liver Lipid Content, and Hepatic Insulin Signaling. Diabetes, 2018, 67, 208-221.	0.6	19
38	Mechanisms by which a Very-Low-Calorie Diet Reverses Hyperglycemia in a Rat Model of Type 2 Diabetes. Cell Metabolism, 2018, 27, 210-217.e3.	16.2	71
39	The Role of Leptin in Maintaining Plasma Glucose During Starvation. Postdoc Journal, 2018, 6, 3-19.	0.4	9
40	Acetylâ€CoA Carboxylase Inhibition Reverses NAFLD and Hepatic Insulin Resistance but Promotes Hypertriglyceridemia in Rodents. Hepatology, 2018, 68, 2197-2211.	7.3	172
41	Uncoupling Hepatic Oxidative Phosphorylation Reduces Tumor Growth in Two Murine Models of Colon Cancer. Cell Reports, 2018, 24, 47-55.	6.4	48
42	Leptin revisited: The role of leptin in starvation. Molecular and Cellular Oncology, 2018, 5, e1435185.	0.7	6
43	Metformin inhibits gluconeogenesis via a redox-dependent mechanism in vivo. Nature Medicine, 2018, 24, 1384-1394.	30.7	200
44	Loss of astrocyte cholesterol synthesis disrupts neuronal function and alters whole-body metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1189-1194.	7.1	143
45	A Non-invasive Method to Assess Hepatic Acetyl-CoA InÂVivo. Cell Metabolism, 2017, 25, 749-756.	16.2	30
46	Adolescent Obesity and Insulin Resistance: Roles of Ectopic Fat Accumulation and Adipose Inflammation. Gastroenterology, 2017, 152, 1638-1646.	1.3	105
47	Selective Chemical Inhibition of PGC-1Î± Gluconeogenic Activity Ameliorates Type 2 Diabetes. Cell, 2017, 169, 148-160.e15.	28.9	153
48	A controlledâ€release mitochondrial protonophore reverses hypertriglyceridemia, nonalcoholic steatohepatitis, and diabetes in lipodystrophic mice. FASEB Journal, 2017, 31, 2916-2924.	0.5	35
49	Absence of Carbohydrate Response Element Binding Protein in Adipocytes Causes Systemic Insulin Resistance and Impairs Glucose Transport. Cell Reports, 2017, 21, 1021-1035.	6.4	103
50	Non-invasive assessment of hepatic mitochondrial metabolism by positional isotopomer NMR tracer analysis (PINTA). Nature Communications, 2017, 8, 798.	12.8	45
51	Pathogenesis of hypothyroidism-induced NAFLD is driven by intra- and extrahepatic mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9172-E9180.	7.1	52
52	Mechanism for leptinâ€™s acute insulin-independent effect to reverse diabetic ketoacidosis. Journal of Clinical Investigation, 2017, 127, 657-669.	8.2	58
53	Pleotropic Acute and Chronic Effects of Leptin to Reverse Type 1 Diabetes. Postdoc Journal, 2017, 5, 3-11.	0.4	2
54	Imeglimin lowers glucose primarily by amplifying glucose-stimulated insulin secretion in high-fat-fed rodents. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E461-E470.	3.5	42

#	Article	IF	Citations
55	Acetate mediates a microbiomeâ€"brainâ€"Î²-cell axis to promote metabolic syndrome. Nature, 2016, 534, 213-217.	27.8	990
56	Propionate Increases Hepatic Pyruvate Cycling and Anaplerosis and Alters Mitochondrial Metabolism. Journal of Biological Chemistry, 2016, 291, 12161-12170.	3.4	58
57	Pleotropic effects of leptin to reverse insulin resistance and diabetic ketoacidosis. Diabetologia, 2016, 59, 933-937.	6.3	29
58	3,5 Diiodo-L-Thyronine (T2) Does Not Prevent Hepatic Steatosis or Insulin Resistance in Fat-Fed Sprague Dawley Rats. PLoS ONE, 2015, 10, e0140837.	2.5	23
59	Hepatic Acetyl CoA Links Adipose Tissue Inflammation to Hepatic Insulin Resistance and Type 2 Diabetes. Cell, 2015, 160, 745-758.	28.9	547
60	Controlled-release mitochondrial protonophore reverses diabetes and steatohepatitis in rats. Science, 2015, 347, 1253-1256.	12.6	229
61	Response to Burgess. Nature Medicine, 2015, 21, 109-110.	30.7	8
62	FGF1 and FGF19 reverse diabetes by suppression of the hypothalamicâ€"pituitaryâ€"adrenal axis. Nature Communications, 2015, 6, 6980.	12.8	106
63	Prevention of diet-induced hepatic steatosis and hepatic insulin resistance by second generation antisense oligonucleotides targeted to the longevity gene mIndy (Slc13a5). Aging, 2015, 7, 1086-1093.	3.1	34
64	Genetic activation of pyruvate dehydrogenase alters oxidative substrate selection to induce skeletal muscle insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16508-16513.	7.1	50
65	Direct assessment of hepatic mitochondrial oxidative and anaplerotic fluxes in humans using dynamic 13C magnetic resonance spectroscopy. Nature Medicine, 2014, 20, 98-102.	30.7	80
66	The Mammalian INDY Homolog Is Induced by CREB in a Rat Model of Type 2 Diabetes. Diabetes, 2014, 63, 1048-1057.	0.6	38
67	Leptin reverses diabetes by suppression of the hypothalamic-pituitary-adrenal axis. Nature Medicine, 2014, 20, 759-763.	30.7	178
68	The role of hepatic lipids in hepatic insulin resistance and type 2 diabetes. Nature, 2014, 510, 84-91.	27.8	898
69	Reversal of Hypertriglyceridemia, Fatty Liver Disease, and Insulin Resistance by a Liver-Targeted Mitochondrial Uncoupler. Cell Metabolism, 2013, 18, 740-748.	16.2	190
70	Treating fatty liver and insulin resistance. Aging, 2013, 5, 791-792.	3.1	6
71	Regulation of Hepatic Lipid and Glucose Metabolism by INSP3R1. Diabetes, 0, , .	0.6	2