

Richard N Bergman

List of Publications by Citations

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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.

121
papers

12,277
citations

47
h-index

110
g-index

129
ext. papers

14,050
ext. citations

7.4
avg, IF

5.87
L-index

#	Paper	IF	Citations
121	Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. <i>Nature Genetics</i> , 2012 , 44, 981-90	36.3	1482
120	Assessment of insulin sensitivity in vivo. <i>Endocrine Reviews</i> , 1985 , 6, 45-86	27.2	932
119	Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. <i>Nature Genetics</i> , 2014 , 46, 234-44	36.3	784
118	Large-scale association analyses identify new loci influencing glycemic traits and provide insight into the underlying biological pathways. <i>Nature Genetics</i> , 2012 , 44, 991-1005	36.3	621
117	A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. <i>Nature Genetics</i> , 2012 , 44, 659-69	36.3	615
116	A better index of body adiposity. <i>Obesity</i> , 2011 , 19, 1083-9	8	553
115	MINMOD: a computer program to calculate insulin sensitivity and pancreatic responsivity from the frequently sampled intravenous glucose tolerance test. <i>Computer Methods and Programs in Biomedicine</i> , 1986 , 23, 113-22	6.9	530
114	An Expanded Genome-Wide Association Study of Type 2 Diabetes in Europeans. <i>Diabetes</i> , 2017 , 66, 2888-2902	29.0	414
113	Accurate assessment of beta-cell function: the hyperbolic correction. <i>Diabetes</i> , 2002 , 51 Suppl 1, S212-20.	20.9	396
112	Insulin sensitivity and B-cell responsiveness to glucose during late pregnancy in lean and moderately obese women with normal glucose tolerance or mild gestational diabetes. <i>American Journal of Obstetrics and Gynecology</i> , 1990 , 162, 1008-14	6.4	353
111	MINMOD Millennium: a computer program to calculate glucose effectiveness and insulin sensitivity from the frequently sampled intravenous glucose tolerance test. <i>Diabetes Technology and Therapeutics</i> , 2003 , 5, 1003-15	8.1	336
110	Genetic fine mapping and genomic annotation defines causal mechanisms at type 2 diabetes susceptibility loci. <i>Nature Genetics</i> , 2015 , 47, 1415-25	36.3	292
109	Why visceral fat is bad: mechanisms of the metabolic syndrome. <i>Obesity</i> , 2006 , 14 Suppl 1, 16S-19S	8	256
108	Impact of type 2 diabetes susceptibility variants on quantitative glycemic traits reveals mechanistic heterogeneity. <i>Diabetes</i> , 2014 , 63, 2158-71	0.9	235
107	The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study. <i>PLoS Genetics</i> , 2015 , 11, e1005378	6	220
106	Insulin resistance and associated compensatory responses in african-american and Hispanic children. <i>Diabetes Care</i> , 2002 , 25, 2184-90	14.6	200
105	Abdominal obesity: role in the pathophysiology of metabolic disease and cardiovascular risk. <i>American Journal of Medicine</i> , 2007 , 120, S3-8; discussion S29-32	2.4	187

104	The modified minimal model: application to measurement of insulin sensitivity in children. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1990 , 70, 1644-50	5.6	152
103	FGF19 action in the brain induces insulin-independent glucose lowering. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4799-808	15.9	147
102	Metabolic dysregulation with atypical antipsychotics occurs in the absence of underlying disease: a placebo-controlled study of olanzapine and risperidone in dogs. <i>Diabetes</i> , 2005 , 54, 862-71	0.9	132
101	Genetic epidemiology of insulin resistance and visceral adiposity. The IRAS Family Study design and methods. <i>Annals of Epidemiology</i> , 2003 , 13, 211-7	6.4	128
100	Obesity, insulin resistance and comorbidities? Mechanisms of association. <i>Arquivos Brasileiros De Endocrinologia E Metabologia</i> , 2014 , 58, 600-9		125
99	Minimal model: perspective from 2005. <i>Hormone Research in Paediatrics</i> , 2005 , 64 Suppl 3, 8-15	3.3	122
98	Genome-wide meta-analysis of 241,258 adults accounting for smoking behaviour identifies novel loci for obesity traits. <i>Nature Communications</i> , 2017 , 8, 14977	17.4	105
97	Minimal model-based insulin sensitivity has greater heritability and a different genetic basis than homeostasis model assessment or fasting insulin. <i>Diabetes</i> , 2003 , 52, 2168-74	0.9	104
96	Genome-wide physical activity interactions in adiposity - A meta-analysis of 200,452 adults. <i>PLoS Genetics</i> , 2017 , 13, e1006528	6	103
95	Chronic mirabegron treatment increases human brown fat, HDL cholesterol, and insulin sensitivity. <i>Journal of Clinical Investigation</i> , 2020 , 130, 2209-2219	15.9	101
94	Acute enhancement of insulin secretion by FFA in humans is lost with prolonged FFA elevation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999 , 276, E1055-66	6	100
93	Disposition index, glucose effectiveness, and conversion to type 2 diabetes: the Insulin Resistance Atherosclerosis Study (IRAS). <i>Diabetes Care</i> , 2010 , 33, 2098-103	14.6	99
92	Atypical antipsychotics and glucose homeostasis. <i>Journal of Clinical Psychiatry</i> , 2005 , 66, 504-14	4.6	94
91	Treatment with a somatostatin analog decreases pancreatic B-cell and whole body sensitivity to glucose. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1990 , 71, 994-1002	5.6	89
90	Central injection of fibroblast growth factor 1 induces sustained remission of diabetic hyperglycemia in rodents. <i>Nature Medicine</i> , 2016 , 22, 800-6	50.5	89
89	Relative fat mass (RFM) as a new estimator of whole-body fat percentage - A cross-sectional study in American adult individuals. <i>Scientific Reports</i> , 2018 , 8, 10980	4.9	88
88	Influence of total vs. visceral fat on insulin action and secretion in African American and white children. <i>Obesity</i> , 2001 , 9, 423-31		87
87	Insulin clearance and the incidence of type 2 diabetes in Hispanics and African Americans: the IRAS Family Study. <i>Diabetes Care</i> , 2013 , 36, 901-7	14.6	74

86	Dietary restriction and glucose regulation in aging rhesus monkeys: a follow-up report at 8.5 yr. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 281, E757-65	6	73
85	Nocturnal free fatty acids are uniquely elevated in the longitudinal development of diet-induced insulin resistance and hyperinsulinemia. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 292, E1590-8	6	72
84	A Genome-Wide Association Study of IVGTT-Based Measures of First-Phase Insulin Secretion Refines the Underlying Physiology of Type 2 Diabetes Variants. <i>Diabetes</i> , 2017 , 66, 2296-2309	0.9	69
83	Inhibition of lipolysis causes suppression of endogenous glucose production independent of changes in insulin. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000 , 279, E630-7	6	63
82	Genetic Variants Associated With Quantitative Glucose Homeostasis Traits Translate to Type 2 Diabetes in Mexican Americans: The GUARDIAN (Genetics Underlying Diabetes in Hispanics) Consortium. <i>Diabetes</i> , 2015 , 64, 1853-66	0.9	62
81	Hepatic and Extrahepatic Insulin Clearance Are Differentially Regulated: Results From a Novel Model-Based Analysis of Intravenous Glucose Tolerance Data. <i>Diabetes</i> , 2016 , 65, 1556-64	0.9	61
80	Beta-cell "rest" accompanies reduced first-pass hepatic insulin extraction in the insulin-resistant, fat-fed canine model. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 292, E1581-9 ⁶		53
79	The role of liver glucosensors in the integrated sympathetic response induced by deep hypoglycemia in dogs. <i>Diabetes</i> , 1994 , 43, 1052-60	0.9	53
78	Hepatic but Not Extrahepatic Insulin Clearance Is Lower in African American Than in European American Women. <i>Diabetes</i> , 2017 , 66, 2564-2570	0.9	48
77	Identification of quantitative trait loci for glucose homeostasis: the Insulin Resistance Atherosclerosis Study (IRAS) Family Study. <i>Diabetes</i> , 2004 , 53, 1866-75	0.9	48
76	Genome-Wide Association Study of the Modified Stumvoll Insulin Sensitivity Index Identifies BCL2 and FAM19A2 as Novel Insulin Sensitivity Loci. <i>Diabetes</i> , 2016 , 65, 3200-11	0.9	47
75	A principal component meta-analysis on multiple anthropometric traits identifies novel loci for body shape. <i>Nature Communications</i> , 2016 , 7, 13357	17.4	46
74	The trans-ancestral genomic architecture of glycemic traits. <i>Nature Genetics</i> , 2021 , 53, 840-860	36.3	44
73	Hepatic insulin clearance is the primary determinant of insulin sensitivity in the normal dog. <i>Obesity</i> , 2014 , 22, 1238-45	8	41
72	Inverse association between altitude and obesity: A prevalence study among andean and low-altitude adult individuals of Peru. <i>Obesity</i> , 2016 , 24, 929-37	8	38
71	Simultaneous measurement of insulin sensitivity, insulin secretion, and the disposition index in conscious unhandled mice. <i>Obesity</i> , 2012 , 20, 1403-12	8	37
70	Novel canine models of obese prediabetes and mild type 2 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E38-48	6	37
69	Hypothesis: Role of Reduced Hepatic Insulin Clearance in the Pathogenesis of Type 2 Diabetes. <i>Diabetes</i> , 2019 , 68, 1709-1716	0.9	35

68	Greater omentectomy improves insulin sensitivity in nonobese dogs. <i>Obesity</i> , 2009 , 17, 674-80	8	35
67	Insulin sensitivity and insulin clearance are heritable and have strong genetic correlation in Mexican Americans. <i>Obesity</i> , 2014 , 22, 1157-64	8	32
66	Exenatide sensitizes insulin-mediated whole-body glucose disposal and promotes uptake of exogenous glucose by the liver. <i>Diabetes</i> , 2009 , 58, 352-9	0.9	32
65	Sex-dimorphic genetic effects and novel loci for fasting glucose and insulin variability. <i>Nature Communications</i> , 2021 , 12, 24	17.4	30
64	A Low-Frequency Inactivating Variant Enriched in the Finnish Population Is Associated With Fasting Insulin Levels and Type 2 Diabetes Risk. <i>Diabetes</i> , 2017 , 66, 2019-2032	0.9	29
63	Evidence That the Sympathetic Nervous System Elicits Rapid, Coordinated, and Reciprocal Adjustments of Insulin Secretion and Insulin Sensitivity During Cold Exposure. <i>Diabetes</i> , 2017 , 66, 823-834	0.9	28
62	Insulin secretion, obesity, and potential behavioral influences: results from the Insulin Resistance Atherosclerosis Study (IRAS). <i>Diabetes/Metabolism Research and Reviews</i> , 2001 , 17, 137-45	7.5	28
61	Consistency of the disposition index in the face of diet induced insulin resistance: potential role of FFA. <i>PLoS ONE</i> , 2011 , 6, e18134	3.7	26
60	Peripheral Mechanisms Mediating the Sustained Antidiabetic Action of FGF1 in the Brain. <i>Diabetes</i> , 2019 , 68, 654-664	0.9	26
59	Indirect Regulation of Endogenous Glucose Production by Insulin: The Single Gateway Hypothesis Revisited. <i>Diabetes</i> , 2017 , 66, 1742-1747	0.9	24
58	Failure of homeostatic model assessment of insulin resistance to detect marked diet-induced insulin resistance in dogs. <i>Diabetes</i> , 2014 , 63, 1914-9	0.9	24
57	Diets high in protein or saturated fat do not affect insulin sensitivity or plasma concentrations of lipids and lipoproteins in overweight and obese adults. <i>Journal of Nutrition</i> , 2014 , 144, 1753-9	4.1	24
56	Large size cells in the visceral adipose depot predict insulin resistance in the canine model. <i>Obesity</i> , 2011 , 19, 2121-9	8	24
55	Rimonabant prevents additional accumulation of visceral and subcutaneous fat during high-fat feeding in dogs. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 296, E1311-8	6	24
54	OOPSEG: a data smoothing program for quantitation and isolation of random measurement error. <i>Computer Methods and Programs in Biomedicine</i> , 1995 , 46, 67-77	6.9	24
53	Pathogenesis and prediction of diabetes mellitus: lessons from integrative physiology. <i>Mount Sinai Journal of Medicine</i> , 2002 , 69, 280-90		23
52	Glucose intolerance induced by blockade of central FGF receptors is linked to an acute stress response. <i>Molecular Metabolism</i> , 2015 , 4, 561-8	8.8	22
51	Mortality Attributed to COVID-19 in High-Altitude Populations. <i>High Altitude Medicine and Biology</i> , 2020 , 21, 409-416	1.9	21

50	Variability of Directly Measured First-Pass Hepatic Insulin Extraction and Its Association With Insulin Sensitivity and Plasma Insulin. <i>Diabetes</i> , 2018 , 67, 1495-1503	0.9	19
49	CB1R antagonist increases hepatic insulin clearance in fat-fed dogs likely via upregulation of liver adiponectin receptors. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E747-58	6	19
48	Estimating hepatic glucokinase activity using a simple model of lactate kinetics. <i>Diabetes Care</i> , 2012 , 35, 1015-20	14.6	18
47	Diet-induced obesity prevents interstitial dispersion of insulin in skeletal muscle. <i>Diabetes</i> , 2010 , 59, 619-26	0.9	18
46	Metabolic effects of eradicating breath methane using antibiotics in prediabetic subjects with obesity. <i>Obesity</i> , 2016 , 24, 576-82	8	18
45	Insulin access to skeletal muscle is impaired during the early stages of diet-induced obesity. <i>Obesity</i> , 2016 , 24, 1922-8	8	17
44	The Measurement of Insulin Clearance. <i>Diabetes Care</i> , 2020 , 43, 2296-2302	14.6	17
43	CDKN2B expression and subcutaneous adipose tissue expandability: possible influence of the 9p21 atherosclerosis locus. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 446, 1126-31	3.4	16
42	Renal Denervation Reverses Hepatic Insulin Resistance Induced by High-Fat Diet. <i>Diabetes</i> , 2016 , 65, 3453-3463	0.9	16
41	On insulin action in vivo: the single gateway hypothesis. <i>Advances in Experimental Medicine and Biology</i> , 1993 , 334, 181-98	3.6	16
40	Systems analysis and the prediction and prevention of Type 2 diabetes mellitus. <i>Current Opinion in Biotechnology</i> , 2014 , 28, 165-70	11.4	15
39	CB(1) antagonism restores hepatic insulin sensitivity without normalization of adiposity in diet-induced obese dogs. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012 , 302, E1261-8	6	15
38	Dissection of hepatic versus extra-hepatic insulin clearance: Ethnic differences in childhood. <i>Diabetes, Obesity and Metabolism</i> , 2018 , 20, 2869-2875	6.7	15
37	The minimal model of glucose regulation: a biography. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 537, 1-19	3.6	14
36	Elevated nocturnal NEFA are an early signal for hyperinsulinaemic compensation during diet-induced insulin resistance in dogs. <i>Diabetologia</i> , 2015 , 58, 2663-70	10.3	13
35	Simplified method to isolate highly pure canine pancreatic islets. <i>Pancreas</i> , 2012 , 41, 31-8	2.6	13
34	Defining cutoffs to diagnose obesity using the relative fat mass (RFM): Association with mortality in NHANES 1999-2014. <i>International Journal of Obesity</i> , 2020 , 44, 1301-1310	5.5	13
33	Rapid development of cardiac dysfunction in a canine model of insulin resistance and moderate obesity. <i>Diabetologia</i> , 2016 , 59, 197-207	10.3	12

32	Novel aspects of the role of the liver in carbohydrate metabolism. <i>Metabolism: Clinical and Experimental</i> , 2019 , 99, 119-125	12.7	11
31	Hepatic portal vein denervation impairs oral glucose tolerance but not exenatide's effect on glycemia. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 307, E644-52	6	11
30	Dynamic control of hepatic glucose metabolism: Studies by experiment and computer simulation. <i>Annals of Biomedical Engineering</i> , 1975 , 3, 411-32	4.7	10
29	Relative Fat Mass as an estimator of whole-body fat percentage among children and adolescents: A cross-sectional study using NHANES. <i>Scientific Reports</i> , 2019 , 9, 15279	4.9	9
28	Lipid-induced insulin resistance does not impair insulin access to skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 308, E1001-9	6	8
27	Transwomen and the Metabolic Syndrome: Is Orchiectomy Protective?. <i>Transgender Health</i> , 2016 , 1, 165-171	4.7	8
26	Improved estimation of anaerobiosis in heart using ¹³ C NMR. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1997 , 273, E1228-42	6	8
25	Assessment of hepatic insulin extraction from in vivo surrogate methods of insulin clearance measurement. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 315, E605-E612	6	8
24	Dietary Fat Intake Modulates Effects of a Frequent ACE Gene Variant on Glucose Tolerance with association to Type 2 Diabetes. <i>Scientific Reports</i> , 2017 , 7, 9234	4.9	7
23	AKA-Glucose: a program for kinetic and epidemiological analysis of frequently sampled intravenous glucose tolerance test data using database technology. <i>Diabetes Technology and Therapeutics</i> , 2005 , 7, 298-307	8.1	7
22	Increase in visceral fat per se does not induce insulin resistance in the canine model. <i>Obesity</i> , 2015 , 23, 105-11	8	6
21	Origins and History of the Minimal Model of Glucose Regulation. <i>Frontiers in Endocrinology</i> , 2020 , 11, 583016	5.7	6
20	Failure of acute hyperinsulinemia to alter blood pressure is not due to baroreceptor feedback. <i>American Journal of Hypertension</i> , 1999 , 12, 405-13	2.3	5
19	A Peripheral CB1R Antagonist Increases Lipolysis, Oxygen Consumption Rate, and Markers of Beiging in 3T3-L1 Adipocytes Similar to RIM, Suggesting that Central Effects Can Be Avoided. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
18	Insulin Access to Skeletal Muscle is Preserved in Obesity Induced by Polyunsaturated Diet. <i>Obesity</i> , 2018 , 26, 119-125	8	5
17	Exaggerated glucagon responses to hypoglycemia in women with polycystic ovary syndrome. <i>Metabolism: Clinical and Experimental</i> , 2017 , 71, 125-131	12.7	4
16	High-fat diet-induced insulin resistance does not increase plasma anandamide levels or potentiate anandamide insulinotropic effect in isolated canine islets. <i>PLoS ONE</i> , 2015 , 10, e0123558	3.7	4
15	The genetic basis of glucose homeostasis. <i>Current Diabetes Reviews</i> , 2005 , 1, 221-6	2.7	4

14	Activation of NPRs and UCP1-independent pathway following CB1R antagonist treatment is associated with adipose tissue beiging in fat-fed male dogs. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019 , 317, E535-E547	6	3
13	Modest hyperglycemia prevents interstitial dispersion of insulin in skeletal muscle. <i>Metabolism: Clinical and Experimental</i> , 2015 , 64, 330-7	12.7	3
12	Mechanisms of improved glucose handling after metabolic surgery: the big 6. <i>Surgery for Obesity and Related Diseases</i> , 2016 , 12, 1192-8	3	3
11	Improved Performance of Dynamic Measures of Insulin Response Over Surrogate Indices to Identify Genetic Contributors of Type 2 Diabetes: The GUARDIAN Consortium. <i>Diabetes</i> , 2016 , 65, 2072-80	0.9	3
10	Glucoregulatory responses to hypothalamic preoptic area cooling. <i>Brain Research</i> , 2019 , 1710, 136-145	3.7	3
9	Abdominal obesity, fatty acids and insulin resistance. <i>FASEB Journal</i> , 2011 , 25, 196.3	0.9	2
8	Exenatide Treatment Alone Improves β Cell Function in a Canine Model of Pre-Diabetes. <i>PLoS ONE</i> , 2016 , 11, e0158703	3.7	2
7	Quantitative path to deep phenotyping: Possible importance of reduced hepatic insulin degradation to type 2 diabetes mellitus pathogenesis. <i>Journal of Diabetes</i> , 2018 , 10, 778-783	3.8	2
6	Measures of glucose homeostasis during and after duodenal exclusion using a duodenal-jejunal bypass liner in a normoglycemic, nonobese canine model.. <i>Surgery for Obesity and Related Diseases</i> , 2022 ,	3	1
5	Impact of sleep deprivation and high-fat feeding on insulin sensitivity and beta cell function in dogs. <i>Diabetologia</i> , 2020 , 63, 875-884	10.3	0
4	Intermittent hypoxia (IH) causes greater insulin resistance than chronic hypoxia (CH) in lean mice. <i>FASEB Journal</i> , 2009 , 23, 993.5	0.9	
3	Severe left ventricular dysfunction following short-term high fat feeding in a canine model. <i>FASEB Journal</i> , 2013 , 27, 1153.10	0.9	
2	Response to Zubieta-Calleja et al., Re: "Mortality Attributed to COVID-19 in High-Altitude Populations". <i>High Altitude Medicine and Biology</i> , 2021 , 22, 109	1.9	
1	Response to Comment on Piccinini and Bergman The Measurement of Insulin Clearance. <i>Diabetes Care</i> 2020;43:2296-2302. <i>Diabetes Care</i> , 2021 , 44, e100-e101	14.6	