

Richard N Bergman

List of Publications by Year in descending order

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123
papers

15,633
citations

34105
52
h-index

18130
120
g-index

129
all docs

129
docs citations

129
times ranked

20528
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. <i>Nature Genetics</i> , 2012, 44, 981-990.	21.4	1,748
2	Assessment of Insulin Sensitivity <i>in Vivo</i> *. <i>Endocrine Reviews</i> , 1985, 6, 45-86.	20.1	1,045
3	Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. <i>Nature Genetics</i> , 2014, 46, 234-244.	21.4	959
4	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, 659-669.	21.4	762
5	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.	21.4	746
6	A Better Index of Body Adiposity. <i>Obesity</i> , 2011, 19, 1083-1089.	3.0	743
7	MINMOD: a computer program to calculate insulin sensitivity and pancreatic responsiveness from the frequently sampled intravenous glucose tolerance test. <i>Computer Methods and Programs in Biomedicine</i> , 1986, 23, 113-122.	4.7	622
8	An Expanded Genome-Wide Association Study of Type 2 Diabetes in Europeans. <i>Diabetes</i> , 2017, 66, 2888-2902.	0.6	615
9	Accurate Assessment of β -Cell Function. <i>Diabetes</i> , 2002, 51, S212-S220.	0.6	452
10	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, 1008-1014.	1.3	399
11	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, 1003-1015.	4.4	372
12	Genetic fine mapping and genomic annotation defines causal mechanisms at type 2 diabetes susceptibility loci. <i>Nature Genetics</i> , 2015, 47, 1415-1425.	21.4	365
13	The trans-ancestral genomic architecture of glycemic traits. <i>Nature Genetics</i> , 2021, 53, 840-860.	21.4	341
14	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.	3.5	331
15	Why Visceral Fat is Bad: Mechanisms of the Metabolic Syndrome. <i>Obesity</i> , 2006, 14, 16S-19S.	3.0	300
16	Impact of Type 2 Diabetes Susceptibility Variants on Quantitative Glycemic Traits Reveals Mechanistic Heterogeneity. <i>Diabetes</i> , 2014, 63, 2158-2171.	0.6	297
17	Insulin Resistance and Associated Compensatory Responses in African-American and Hispanic Children. <i>Diabetes Care</i> , 2002, 25, 2184-2190.	8.6	224
18	Abdominal Obesity: Role in the Pathophysiology of Metabolic Disease and Cardiovascular Risk. <i>American Journal of Medicine</i> , 2007, 120, S3-S8.	1.5	222

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19	Chronic mirabegron treatment increases human brown fat, HDL cholesterol, and insulin sensitivity. <i>Journal of Clinical Investigation</i> , 2020, 130, 2209-2219.	8.2	214
20	FGF19 action in the brain induces insulin-independent glucose lowering. <i>Journal of Clinical Investigation</i> , 2013, 123, 4799-4808.	8.2	183
21	Obesity, insulin resistance and comorbidities ? Mechanisms of association. <i>Arquivos Brasileiros De Endocrinologia E Metabologia</i> , 2014, 58, 600-609.	1.3	169
22	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.	12.8	169
23	The Modified Minimal Model: Application to Measurement of Insulin Sensitivity in Children*. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1990, 70, 1644-1650.	3.6	165
24	Relative fat mass (RFM) as a new estimator of whole-body fat percentage â”€ A cross-sectional study in American adult individuals. <i>Scientific Reports</i> , 2018, 8, 10980.	3.3	162
25	Genome-wide physical activity interactions in adiposity â”€ A meta-analysis of 200,452 adults. <i>PLoS Genetics</i> , 2017, 13, e1006528.	3.5	158
26	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, 862-871.	0.6	150
27	Minimal Model: Perspective from 2005. <i>Hormone Research in Paediatrics</i> , 2005, 64, 8-15.	1.8	148
28	Genetic Epidemiology of Insulin Resistance and Visceral Adiposity The IRAS Family Study Design and Methods. <i>Annals of Epidemiology</i> , 2003, 13, 211-217.	1.9	138
29	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-E1066.	3.5	131
30	Disposition Index, Glucose Effectiveness, and Conversion to Type 2 Diabetes. <i>Diabetes Care</i> , 2010, 33, 2098-2103.	8.6	124
31	Central injection of fibroblast growth factor 1 induces sustained remission of diabetic hyperglycemia in rodents. <i>Nature Medicine</i> , 2016, 22, 800-806.	30.7	119
32	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, 2168-2174.	0.6	118
33	Atypical Antipsychotics and Glucose Homeostasis. <i>Journal of Clinical Psychiatry</i> , 2005, 66, 504-514.	2.2	114
34	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.	0.6	102
35	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.	3.6	99
36	Influence of Total vs. Visceral Fat on Insulin Action and Secretion in African American and White Children. <i>Obesity</i> , 2001, 9, 423-431.	4.0	99

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37	Sex-dimorphic genetic effects and novel loci for fasting glucose and insulin variability. <i>Nature Communications</i> , 2021, 12, 24.	12.8	87
38	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-E765.	3.5	85
39	Insulin Clearance and the Incidence of Type 2 Diabetes in Hispanics and African Americans. <i>Diabetes Care</i> , 2013, 36, 901-907.	8.6	85
40	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-E1598.	3.5	82
41	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, 1556-1564.	0.6	80
42	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, 1853-1866.	0.6	77
43	A principal component meta-analysis on multiple anthropometric traits identifies novel loci for body shape. <i>Nature Communications</i> , 2016, 7, 13357.	12.8	74
44	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-E637.	3.5	70
45	Î²-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-E1589.	3.5	70
46	Genome-Wide Association Study of the Modified Stumvoll Insulin Sensitivity Index Identifies <i>BCL2</i> and <i>FAM19A2</i> as Novel Insulin Sensitivity Loci. <i>Diabetes</i> , 2016, 65, 3200-3211.	0.6	67
47	The Role of Liver Glucosensors in the Integrated Sympathetic Response Induced by Deep Hypoglycemia in Dogs. <i>Diabetes</i> , 1994, 43, 1052-1060.	0.6	61
48	Inverse association between altitude and obesity: A prevalence study among andean and low altitude adult individuals of Peru. <i>Obesity</i> , 2016, 24, 929-937.	3.0	61
49	Hepatic but Not Extrahepatic Insulin Clearance Is Lower in African American Than in European American Women. <i>Diabetes</i> , 2017, 66, 2564-2570.	0.6	60
50	Hypothesis: Role of Reduced Hepatic Insulin Clearance in the Pathogenesis of Type 2 Diabetes. <i>Diabetes</i> , 2019, 68, 1709-1716.	0.6	56
51	Identification of Quantitative Trait Loci for Glucose Homeostasis: The Insulin Resistance Atherosclerosis Study (IRAS) Family Study. <i>Diabetes</i> , 2004, 53, 1866-1875.	0.6	55
52	Hepatic insulin clearance is the primary determinant of insulin sensitivity in the normal dog. <i>Obesity</i> , 2014, 22, 1238-1245.	3.0	51
53	Mortality Attributed to COVID-19 in High-Altitude Populations. <i>High Altitude Medicine and Biology</i> , 2020, 21, 409-416.	0.9	48
54	A Low-Frequency Inactivating <i>AKT2</i> Variant Enriched in the Finnish Population Is Associated With Fasting Insulin Levels and Type 2 Diabetes Risk. <i>Diabetes</i> , 2017, 66, 2019-2032.	0.6	47

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55	Greater Omentectomy Improves Insulin Sensitivity in Nonobese Dogs. <i>Obesity</i> , 2009, 17, 674-680.	3.0	43
56	Novel canine models of obese prediabetes and mild type 2 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E38-E48.	3.5	43
57	Exenatide Sensitizes Insulin-Mediated Whole-Body Glucose Disposal and Promotes Uptake of Exogenous Glucose by the Liver. <i>Diabetes</i> , 2009, 58, 352-359.	0.6	42
58	Simultaneous Measurement of Insulin Sensitivity, Insulin Secretion, and the Disposition Index in Conscious Unhandled Mice. <i>Obesity</i> , 2012, 20, 1403-1412.	3.0	41
59	The Measurement of Insulin Clearance. <i>Diabetes Care</i> , 2020, 43, 2296-2302.	8.6	40
60	Peripheral Mechanisms Mediating the Sustained Antidiabetic Action of FGF1 in the Brain. <i>Diabetes</i> , 2019, 68, 654-664.	0.6	38
61	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.	3.4	35
62	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.	0.6	34
63	Indirect Regulation of Endogenous Glucose Production by Insulin: The Single Gateway Hypothesis Revisited. <i>Diabetes</i> , 2017, 66, 1742-1747.	0.6	34
64	Insulin Sensitivity and Insulin Clearance Are Heritable and Have Strong Genetic Correlation in Mexican Americans. <i>Obesity</i> , 2014, 22, 1157-1164.	3.0	33
65	Insulin secretion, obesity, and potential behavioral influences: results from the Insulin Resistance Atherosclerosis Study (IRAS). <i>Diabetes/Metabolism Research and Reviews</i> , 2001, 17, 137-145.	4.0	30
66	Large Size Cells in the Visceral Adipose Depot Predict Insulin Resistance in the Canine Model. <i>Obesity</i> , 2011, 19, 2121-2129.	3.0	30
67	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.	3.3	30
68	Consistency of the Disposition Index in the Face of Diet Induced Insulin Resistance: Potential Role of FFA. <i>PLoS ONE</i> , 2011, 6, e18134.	2.5	29
69	Failure of Homeostatic Model Assessment of Insulin Resistance to Detect Marked Diet-Induced Insulin Resistance in Dogs. <i>Diabetes</i> , 2014, 63, 1914-1919.	0.6	29
70	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, 1753-1759.	2.9	29
71	Origins and History of the Minimal Model of Glucose Regulation. <i>Frontiers in Endocrinology</i> , 2020, 11, 583016.	3.5	28
72	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.	4.7	27

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73	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-E1318.	3.5	26
74	Metabolic effects of eradicating breath methane using antibiotics in prediabetic subjects with obesity. <i>Obesity</i> , 2016, 24, 576-582.	3.0	26
75	Glucose intolerance induced by blockade of central FGF receptors is linked to an acute stress response. <i>Molecular Metabolism</i> , 2015, 4, 561-568.	6.5	25
76	Pathogenesis and prediction of diabetes mellitus: lessons from integrative physiology. <i>Mount Sinai Journal of Medicine</i> , 2002, 69, 280-90.	1.9	25
77	Diet-Induced Obesity Prevents Interstitial Dispersion of Insulin in Skeletal Muscle. <i>Diabetes</i> , 2010, 59, 619-626.	0.6	24
78	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.	0.6	23
79	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-E758.	3.5	22
80	Insulin access to skeletal muscle is impaired during the early stages of diet-induced obesity. <i>Obesity</i> , 2016, 24, 1922-1928.	3.0	21
81	CB ₁ antagonist 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-E1268.	3.5	20
82	CDKN2B expression and subcutaneous adipose tissue expandability: Possible influence of the 9p21 atherosclerosis locus. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 1126-1131.	2.1	20
83	Dissection of hepatic versus extrahepatic insulin clearance: Ethnic differences in childhood. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 2869-2875.	4.4	20
84	Estimating Hepatic Glucokinase Activity Using a Simple Model of Lactate Kinetics. <i>Diabetes Care</i> , 2012, 35, 1015-1020.	8.6	19
85	The Minimal Model of Glucose Regulation: A Biography. <i>Advances in Experimental Medicine and Biology</i> , 2003, 537, 1-19.	1.6	18
86	Systems analysis and the prediction and prevention of Type 2 diabetes mellitus. <i>Current Opinion in Biotechnology</i> , 2014, 28, 165-170.	6.6	18
87	On Insulin Action in Vivo: The Single Gateway Hypothesis. <i>Advances in Experimental Medicine and Biology</i> , 1993, 334, 181-198.	1.6	18
88	Renal Denervation Reverses Hepatic Insulin Resistance Induced by High-Fat Diet. <i>Diabetes</i> , 2016, 65, 3453-3463.	0.6	17
89	Elevated nocturnal NEFA are an early signal for hyperinsulinaemic compensation during diet-induced insulin resistance in dogs. <i>Diabetologia</i> , 2015, 58, 2663-2670.	6.3	16
90	Transwomen and the Metabolic Syndrome: Is Orchiectomy Protective?. <i>Transgender Health</i> , 2016, 1, 165-171.	2.5	16

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91	Simplified Method to Isolate Highly Pure Canine Pancreatic Islets. <i>Pancreas</i> , 2012, 41, 31-38.	1.1	15
92	Rapid development of cardiac dysfunction in a canine model of insulin resistance and moderate obesity. <i>Diabetologia</i> , 2016, 59, 197-207.	6.3	15
93	Novel aspects of the role of the liver in carbohydrate metabolism. <i>Metabolism: Clinical and Experimental</i> , 2019, 99, 119-125.	3.4	15
94	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-E652.	3.5	12
95	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.	3.3	12
96	The Physiology of Insulin Clearance. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1826.	4.1	12
97	Dynamic control of hepatic glucose metabolism: Studies by experiment and computer simulation. <i>Annals of Biomedical Engineering</i> , 1975, 3, 411-432.	2.5	11
98	Lipid-induced insulin resistance does not impair insulin access to skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E1001-E1009.	3.5	11
99	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, 6639.	4.1	11
100	Improved estimation of anaplerosis in heart using ¹³ C NMR. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1997, 273, E1228-E1242.	3.5	10
101	Exaggerated glucagon responses to hypoglycemia in women with polycystic ovary syndrome. <i>Metabolism: Clinical and Experimental</i> , 2017, 71, 125-131.	3.4	9
102	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.	3.5	9
103	Impact of sleep deprivation and high-fat feeding on insulin sensitivity and beta cell function in dogs. <i>Diabetologia</i> , 2020, 63, 875-884.	6.3	9
104	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.	4.4	7
105	Increase in visceral fat does not induce insulin resistance in the canine model. <i>Obesity</i> , 2015, 23, 105-111.	3.0	7
106	Insulin Access to Skeletal Muscle is Preserved in Obesity Induced by Polyunsaturated Diet. <i>Obesity</i> , 2018, 26, 119-125.	3.0	7
107	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.	3.5	7
108	Modest hyperglycemia prevents interstitial dispersion of insulin in skeletal muscle. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 330-337.	3.4	6

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109	Failure of acute hyperinsulinemia to alter blood pressure is not due to baroreceptor feedback. American Journal of Hypertension, 1999, 12, 405-413.	2.0	5
110	High-Fat Diet-Induced Insulin Resistance Does Not Increase Plasma Anandamide Levels or Potentiate Anandamide Insulinotropic Effect in Isolated Canine Islets. PLoS ONE, 2015, 10, e0123558.	2.5	5
111	The Genetic Basis of Glucose Homeostasis. Current Diabetes Reviews, 2005, 1, 221-226.	1.3	4
112	Improved Performance of Dynamic Measures of Insulin Response Over Surrogate Indices to Identify Genetic Contributors of Type 2 Diabetes: The GUARDIAN Consortium. Diabetes, 2016, 65, 2072-2080.	0.6	4
113	Exenatide Treatment Alone Improves β -Cell Function in a Canine Model of Pre-Diabetes. PLoS ONE, 2016, 11, e0158703.	2.5	3
114	Mechanisms of improved glucose handling after metabolic surgery: the big 6. Surgery for Obesity and Related Diseases, 2016, 12, 1192-1198.	1.2	3
115	Quantitative path to deep phenotyping: Possible importance of reduced hepatic insulin degradation to type 2 diabetes mellitus pathogenesis. Journal of Diabetes, 2018, 10, 778-783.	1.8	3
116	Glucoregulatory responses to hypothalamic preoptic area cooling. Brain Research, 2019, 1710, 136-145.	2.2	3
117	Hyperinsulinemic Compensation for Insulin Resistance Occurs Independent of Elevated Glycemia in Male Dogs. Endocrinology, 2021, 162, .	2.8	2
118	Abdominal obesity, fatty acids and insulin resistance. FASEB Journal, 2011, 25, 196.3.	0.5	2
119	Measures of glucose homeostasis during and after duodenal exclusion using a duodenal-jejunal bypass liner in a normoglycemic, nonobese canine model. Surgery for Obesity and Related Diseases, 2022, , .	1.2	1
120	Response to Zubieta-Calleja et al., Re: "Mortality Attributed to COVID-19 in High-Altitude Populations" High Altitude Medicine and Biology, 2021, 22, 109-109.	0.9	0
121	Response to Comment on Piccinini and Bergman The Measurement of Insulin Clearance. Diabetes Care 2020;43:2296-2302. Diabetes Care, 2021, 44, e100-e101.	8.6	0
122	Intermittent hypoxia (IH) causes greater insulin resistance than chronic hypoxia (CH) in lean mice. FASEB Journal, 2009, 23, 993.5.	0.5	0
123	Severe left ventricular dysfunction following short-term high fat feeding in a canine model. FASEB Journal, 2013, 27, 1153.10.	0.5	0