

# Barbara B Kahn

## List of Publications by Year in descending order

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78  
papers

19,843  
citations

47006

47  
h-index

71685

76  
g-index

80  
all docs

80  
docs citations

80  
times ranked

19739  
citing authors

#	ARTICLE	IF	CITATIONS
1	AMP-activated protein kinase: Ancient energy gauge provides clues to modern understanding of metabolism. <i>Cell Metabolism</i> , 2005, 1, 15-25.	16.2	2,541
2	Leptin stimulates fatty-acid oxidation by activating AMP-activated protein kinase. <i>Nature</i> , 2002, 415, 339-343.	27.8	1,823
3	Serum retinol binding protein 4 contributes to insulin resistance in obesity and type 2 diabetes. <i>Nature</i> , 2005, 436, 356-362.	27.8	1,809
4	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. <i>Nature</i> , 2004, 428, 569-574.	27.8	1,464
5	Retinol-Binding Protein 4 and Insulin Resistance in Lean, Obese, and Diabetic Subjects. <i>New England Journal of Medicine</i> , 2006, 354, 2552-2563.	27.0	1,182
6	Glucose Transporters and Insulin Action – Implications for Insulin Resistance and Diabetes Mellitus. <i>New England Journal of Medicine</i> , 1999, 341, 248-257.	27.0	1,123
7	Adipose-selective targeting of the GLUT4 gene impairs insulin action in muscle and liver. <i>Nature</i> , 2001, 409, 729-733.	27.8	1,058
8	Exercise, Glucose Transport, and Insulin Sensitivity. <i>Annual Review of Medicine</i> , 1998, 49, 235-261.	12.2	874
9	Discovery of a Class of Endogenous Mammalian Lipids with Anti-Diabetic and Anti-inflammatory Effects. <i>Cell</i> , 2014, 159, 318-332.	28.9	639
10	Targeted disruption of the glucose transporter 4 selectively in muscle causes insulin resistance and glucose intolerance. <i>Nature Medicine</i> , 2000, 6, 924-928.	30.7	624
11	A novel ChREBP isoform in adipose tissue regulates systemic glucose metabolism. <i>Nature</i> , 2012, 484, 333-338.	27.8	473
12	Metabolites as regulators of insulin sensitivity and metabolism. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 654-672.	37.0	369
13	Serum Retinol-Binding Protein Is More Highly Expressed in Visceral than in Subcutaneous Adipose Tissue and Is a Marker of Intra-abdominal Fat Mass. <i>Cell Metabolism</i> , 2007, 6, 79-87.	16.2	360
14	A high-fat, ketogenic diet induces a unique metabolic state in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E1724-E1739.	3.5	343
15	Adipose Tissue Branched Chain Amino Acid (BCAA) Metabolism Modulates Circulating BCAA Levels. <i>Journal of Biological Chemistry</i> , 2010, 285, 11348-11356.	3.4	321
16	AMPK integrates nutrient and hormonal signals to regulate food intake and energy balance through effects in the hypothalamus and peripheral tissues. <i>Journal of Physiology</i> , 2006, 574, 73-83.	2.9	284
17	Glucose transport and sensing in the maintenance of glucose homeostasis and metabolic harmony. <i>Journal of Clinical Investigation</i> , 2006, 116, 1767-1775.	8.2	274
18	Diet-induced Obesity Alters AMP Kinase Activity in Hypothalamus and Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2006, 281, 18933-18941.	3.4	246

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19	p70S6 Kinase Phosphorylates AMPK on Serine 491 to Mediate Leptin's Effect on Food Intake. <i>Cell Metabolism</i> , 2012, 16, 104-112.	16.2	236
20	In Vivo Administration of Leptin Activates Signal Transduction Directly in Insulin-Sensitive Tissues: Overlapping but Distinct Pathways from Insulin*. <i>Endocrinology</i> , 2000, 141, 2328-2339.	2.8	215
21	RBP4 Activates Antigen-Presenting Cells, Leading to Adipose Tissue Inflammation and Systemic Insulin Resistance. <i>Cell Metabolism</i> , 2014, 19, 512-526.	16.2	215
22	Reduction of Elevated Serum Retinol Binding Protein in Obese Children by Lifestyle Intervention: Association with Subclinical Inflammation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 1971-1974.	3.6	209
23	Retinol-Binding Protein 4 Inhibits Insulin Signaling in Adipocytes by Inducing Proinflammatory Cytokines in Macrophages through a c-Jun N-Terminal Kinase- and Toll-Like Receptor 4-Dependent and Retinol-Independent Mechanism. <i>Molecular and Cellular Biology</i> , 2012, 32, 2010-2019.	2.3	207
24	Adipose-specific overexpression of GLUT4 reverses insulin resistance and diabetes in mice lacking GLUT4 selectively in muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 289, E551-E561.	3.5	196
25	Brown Adipose Tissue Controls Skeletal Muscle Function via the Secretion of Myostatin. <i>Cell Metabolism</i> , 2018, 28, 631-643.e3.	16.2	147
26	Palmitic Acid Hydroxystearic Acids Activate GPR40, Which Is Involved in Their Beneficial Effects on Glucose Homeostasis. <i>Cell Metabolism</i> , 2018, 27, 419-427.e4.	16.2	127
27	GLUT4 Expression in Adipocytes Regulates De Novo Lipogenesis and Levels of a Novel Class of Lipids With Antidiabetic and Anti-inflammatory Effects. <i>Diabetes</i> , 2016, 65, 1808-1815.	0.6	107
28	Absence of Carbohydrate Response Element Binding Protein in Adipocytes Causes Systemic Insulin Resistance and Impairs Glucose Transport. <i>Cell Reports</i> , 2017, 21, 1021-1035.	6.4	103
29	Branched Fatty Acid Esters of Hydroxy Fatty Acids (FAHFAs) Protect against Colitis by Regulating Gut Innate and Adaptive Immune Responses. <i>Journal of Biological Chemistry</i> , 2016, 291, 22207-22217.	3.4	102
30	Plasma Retinol-Binding Protein 4 (RBP4) Levels and Risk of Coronary Heart Disease. <i>Circulation</i> , 2013, 127, 1938-1947.	1.6	97
31	Long-term Fenretinide treatment prevents high-fat diet-induced obesity, insulin resistance, and hepatic steatosis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E1420-E1429.	3.5	96
32	In Vivo Administration of Leptin Activates Signal Transduction Directly in Insulin-Sensitive Tissues: Overlapping but Distinct Pathways from Insulin. <i>Endocrinology</i> , 2000, 141, 2328-2339.	2.8	81
33	Role of Hypothalamic Adenosine 5â€²-Monophosphate-Activated Protein Kinase in the Impaired Counterregulatory Response Induced by Repetitive Neuroglucopenia. <i>Endocrinology</i> , 2007, 148, 1367-1375.	2.8	80
34	Adipocyte-specific overexpression of retinol-binding protein 4 causes hepatic steatosis in mice. <i>Hepatology</i> , 2016, 64, 1534-1546.	7.3	80
35	Decreased clearance of serum retinol-binding protein and elevated levels of transthyretin in insulin-resistant <i>ob/ob</i> mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 294, E785-E793.	3.5	79
36	Brain GLUT4 Knockout Mice Have Impaired Glucose Tolerance, Decreased Insulin Sensitivity, and Impaired Hypoglycemic Counterregulation. <i>Diabetes</i> , 2017, 66, 587-597.	0.6	76

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37	Neuronal Protein Tyrosine Phosphatase 1B Deficiency Results in Inhibition of Hypothalamic AMPK and Isoform-Specific Activation of AMPK in Peripheral Tissues. <i>Molecular and Cellular Biology</i> , 2009, 29, 4563-4573.	2.3	72
38	Nutrient sensor links obesity with diabetes risk. <i>Nature Medicine</i> , 2004, 10, 1049-1050.	30.7	63
39	AIG1 and ADTRP are atypical integral membrane hydrolases that degrade bioactive FAHFAs. <i>Nature Chemical Biology</i> , 2016, 12, 367-372.	8.0	62
40	PAHSAs enhance hepatic and systemic insulin sensitivity through direct and indirect mechanisms. <i>Journal of Clinical Investigation</i> , 2019, 129, 4138-4150.	8.2	62
41	A Postsynaptic AMPK $\hat{+}$ p21-Activated Kinase Pathway Drives Fasting-Induced Synaptic Plasticity in AgRP Neurons. <i>Neuron</i> , 2016, 91, 25-33.	8.1	60
42	A LC-MS $\hat{+}$ -based workflow for measurement of branched fatty acid esters of hydroxy fatty acids. <i>Nature Protocols</i> , 2016, 11, 747-763.	12.0	58
43	Discovery of FAHFA-Containing Triacylglycerols and Their Metabolic Regulation. <i>Journal of the American Chemical Society</i> , 2019, 141, 8798-8806.	13.7	57
44	ATGL is a biosynthetic enzyme for fatty acid esters of hydroxy fatty acids. <i>Nature</i> , 2022, 606, 968-975.	27.8	57
45	PAHSAs attenuate immune responses and promote $\hat{+}$ cell survival in autoimmune diabetic mice. <i>Journal of Clinical Investigation</i> , 2019, 129, 3717-3731.	8.2	55
46	Rosiglitazone, PPAR $\hat{+}$ , and Type 2 Diabetes. <i>New England Journal of Medicine</i> , 2010, 363, 2667-2669.	27.0	54
47	Branched Fatty Acid Esters of Hydroxy Fatty Acids Are Preferred Substrates of the MODY8 Protein Carboxyl Ester Lipase. <i>Biochemistry</i> , 2016, 55, 4636-4641.	2.5	54
48	Stereochemistry of Endogenous Palmitic Acid Ester of 9-Hydroxystearic Acid and Relevance of Absolute Configuration to Regulation. <i>Journal of the American Chemical Society</i> , 2017, 139, 4943-4947.	13.7	53
49	Obesity-Linked PPAR $\hat{+}$ S273 Phosphorylation Promotes Insulin Resistance through Growth Differentiation Factor 3. <i>Cell Metabolism</i> , 2020, 32, 665-675.e6.	16.2	53
50	Insulin action in adipocytes, adipose remodeling, and systemic effects. <i>Cell Metabolism</i> , 2021, 33, 748-757.	16.2	51
51	Activation of AMPK-Regulated CRH Neurons in the PVH is Sufficient and Necessary to Induce Dietary Preference for Carbohydrate over Fat. <i>Cell Reports</i> , 2018, 22, 706-721.	6.4	50
52	Antigen Presentation and T-Cell Activation Are Critical for RBP4-Induced Insulin Resistance. <i>Diabetes</i> , 2016, 65, 1317-1327.	0.6	49
53	Retinol binding protein 4 primes the NLRP3 inflammasome by signaling through Toll-like receptors 2 and 4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31309-31318.	7.1	49
54	Transthyretin Antisense Oligonucleotides Lower Circulating RBP4 Levels and Improve Insulin Sensitivity in Obese Mice. <i>Diabetes</i> , 2015, 64, 1603-1614.	0.6	47

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55	Disruption of Adipose Rab10-Dependent Insulin Signaling Causes Hepatic Insulin Resistance. <i>Diabetes</i> , 2016, 65, 1577-1589.	0.6	46
56	PKD1 Inhibits AMPK $\alpha$ 2 through Phosphorylation of Serine 491 and Impairs Insulin Signaling in Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 5664-5675.	3.4	45
57	Methodological Issues in Studying PAHSA Biology: Masking PAHSA Effects. <i>Cell Metabolism</i> , 2018, 28, 543-546.	16.2	40
58	Faster Protocol for Endogenous Fatty Acid Esters of Hydroxy Fatty Acid (FAHFA) Measurements. <i>Analytical Chemistry</i> , 2018, 90, 5358-5365.	6.5	39
59	RBP4 increases lipolysis in human adipocytes and is associated with increased lipolysis and hepatic insulin resistance in obese women. <i>FASEB Journal</i> , 2020, 34, 6099-6110.	0.5	39
60	Alterations in glucose transporter expression and function in diabetes: Mechanisms for insulin resistance. <i>Journal of Cellular Biochemistry</i> , 1992, 48, 122-128.	2.6	35
61	Novel role for retinol-binding protein 4 in the regulation of blood pressure. <i>FASEB Journal</i> , 2015, 29, 3133-3140.	0.5	33
62	The Relationship of Retinol Binding Protein 4 to Changes in Insulin Resistance and Cardiometabolic Risk in Overweight Black Adolescents. <i>Journal of Pediatrics</i> , 2009, 154, 67-73.e1.	1.8	31
63	Distinct biological activities of isomers from several families of branched fatty acid esters of hydroxy fatty acids (FAHFAs). <i>Journal of Lipid Research</i> , 2021, 62, 100108.	4.2	31
64	mTOR tells the brain that the body is hungry. <i>Nature Medicine</i> , 2006, 12, 615-617.	30.7	30
65	Adipose Tissue, Inter-Organ Communication, and the Path to Type 2 Diabetes: The 2016 Banting Medal for Scientific Achievement Lecture. <i>Diabetes</i> , 2019, 68, 3-14.	0.6	30
66	Downregulation of STRA6 in Adipocytes and Adipose Stromovascular Fraction in Obesity and Effects of Adipocyte-Specific STRA6 Knockdown In Vivo. <i>Molecular and Cellular Biology</i> , 2014, 34, 1170-1186.	2.3	28
67	BCAA Supplementation in Mice with Diet-induced Obesity Alters the Metabolome Without Impairing Glucose Homeostasis. <i>Endocrinology</i> , 2021, 162, .	2.8	28
68	Quantitative Measurement of Full-Length and C-Terminal Proteolyzed RBP4 in Serum of Normal and Insulin-Resistant Humans using a Novel Mass Spectrometry Immunoassay. <i>Endocrinology</i> , 2012, 153, 1519-1527.	2.8	26
69	Adipose tissue dysfunction is associated with low levels of the novel Palmitic Acid Hydroxystearic Acids. <i>Scientific Reports</i> , 2018, 8, 15757.	3.3	26
70	Overexpressing the novel autocrine/endocrine adipokine WISP2 induces hyperplasia of the heart, white and brown adipose tissues and prevents insulin resistance. <i>Scientific Reports</i> , 2017, 7, 43515.	3.3	25
71	High-throughput mediation analysis of human proteome and metabolome identifies mediators of post-bariatric surgical diabetes control. <i>Nature Communications</i> , 2021, 12, 6951.	12.8	13
72	Retinol-Binding Protein 4 (RBP4): A Biomarker for Subclinical Atherosclerosis?. <i>American Journal of Hypertension</i> , 2009, 22, 948-949.	2.0	12

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73	Ca <sup>2+</sup> /Calmodulin-Dependent Protein Kinase Kinase Is Not Involved in Hypothalamic AMP-Activated Protein Kinase Activation by Neuroglucopenia. <i>PLoS ONE</i> , 2012, 7, e36335.	2.5	7
74	Leptin, GABA, and Glucose Control. <i>Cell Metabolism</i> , 2013, 18, 304-306.	16.2	7
75	Bioactive lipids and metabolic syndrome—a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2022, 1511, 87-106.	3.8	5
76	Palmitic Acid Esters of Hydroxy Stearic Acids Are Hepatic Insulin Sensitizers in Chow and High-Fat Diet (HFD) Fed Mice. <i>Diabetes</i> , 2018, 67, 1838-P.	0.6	1
77	Acute exercise increases serum retinol binding protein 4 concentrations. <i>FASEB Journal</i> , 2007, 21, A928.	0.5	0
78	De novo Lipogenesis in Adipocytes Results in the Production of Structurally Novel Signaling Lipids with Beneficial Metabolic and Anti-inflammatory Effects. <i>FASEB Journal</i> , 2019, 33, 214.1.	0.5	0