

# Barbara B 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.

73  
papers

16,472  
citations

42  
h-index

79  
g-index

79  
ext. papers

18,332  
ext. citations

16.8  
avg, IF

6.4  
L-index

#	Paper	IF	Citations
73	High-throughput mediation analysis of human proteome and metabolome identifies mediators of post-bariatric surgical diabetes control. <i>Nature Communications</i> , <b>2021</b> , 12, 6951	17.4	2
72	BCAA Supplementation in Mice with Diet-induced Obesity Alters the Metabolome Without Impairing Glucose Homeostasis. <i>Endocrinology</i> , <b>2021</b> , 162,	4.8	7
71	Insulin action in adipocytes, adipose remodeling, and systemic effects. <i>Cell Metabolism</i> , <b>2021</b> , 33, 748-757	4.6	11
70	Distinct biological activities of isomers from several families of branched fatty acid esters of hydroxy fatty acids (FAHFAs). <i>Journal of Lipid Research</i> , <b>2021</b> , 62, 100108	6.3	5
69	RBP4 increases lipolysis in human adipocytes and is associated with increased lipolysis and hepatic insulin resistance in obese women. <i>FASEB Journal</i> , <b>2020</b> , 34, 6099-6110	0.9	17
68	Obesity-Linked PPAR $\delta$ S273 Phosphorylation Promotes Insulin Resistance through Growth Differentiation Factor 3. <i>Cell Metabolism</i> , <b>2020</b> , 32, 665-675.e6	24.6	20
67	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> , <b>2020</b> , 117, 31309-31318	11.5	12
66	Discovery of FAHFA-Containing Triacylglycerols and Their Metabolic Regulation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 8798-8806	16.4	31
65	PAHSAs attenuate immune responses and promote T cell survival in autoimmune diabetic mice. <i>Journal of Clinical Investigation</i> , <b>2019</b> , 129, 3717-3731	15.9	28
64	PAHSAs enhance hepatic and systemic insulin sensitivity through direct and indirect mechanisms. <i>Journal of Clinical Investigation</i> , <b>2019</b> , 129, 4138-4150	15.9	36
63	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> , <b>2019</b> , 33, 214.1	0.9	
62	Adipose Tissue, Inter-Organ Communication, and the Path to Type 2 Diabetes: The 2016 Banting Medal for Scientific Achievement Lecture. <i>Diabetes</i> , <b>2019</b> , 68, 3-14	0.9	21
61	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> , <b>2018</b> , 22, 706-721	10.6	30
60	Palmitic Acid Hydroxystearic Acids Activate GPR40, Which Is Involved in Their Beneficial Effects on Glucose Homeostasis. <i>Cell Metabolism</i> , <b>2018</b> , 27, 419-427.e4	24.6	88
59	Faster Protocol for Endogenous Fatty Acid Esters of Hydroxy Fatty Acid (FAHFA) Measurements. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5358-5365	7.8	29
58	Brown Adipose Tissue Controls Skeletal Muscle Function via the Secretion of Myostatin. <i>Cell Metabolism</i> , <b>2018</b> , 28, 631-643.e3	24.6	87
57	Metabolites as regulators of insulin sensitivity and metabolism. <i>Nature Reviews Molecular Cell Biology</i> , <b>2018</b> , 19, 654-672	48.7	167

56	Palmitic Acid Esters of Hydroxy Stearic Acids Are Hepatic Insulin Sensitizers in Chow and High-Fat Diet (HFD) Fed Mice. <i>Diabetes</i> , <b>2018</b> , 67, 1838-P	0.9	1
55	Adipose tissue dysfunction is associated with low levels of the novel Palmitic Acid Hydroxystearic Acids. <i>Scientific Reports</i> , <b>2018</b> , 8, 15757	4.9	19
54	Methodological Issues in Studying PAHSA Biology: Masking PAHSA Effects. <i>Cell Metabolism</i> , <b>2018</b> , 28, 543-546	24.6	25
53	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> , <b>2017</b> , 7, 43515	4.9	17
52	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> , <b>2017</b> , 139, 4943-4947	16.4	43
51	Absence of Carbohydrate Response Element Binding Protein in Adipocytes Causes Systemic Insulin Resistance and Impairs Glucose Transport. <i>Cell Reports</i> , <b>2017</b> , 21, 1021-1035	10.6	74
50	Brain GLUT4 Knockout Mice Have Impaired Glucose Tolerance, Decreased Insulin Sensitivity, and Impaired Hypoglycemic Counterregulation. <i>Diabetes</i> , <b>2017</b> , 66, 587-597	0.9	54
49	A Postsynaptic AMPK- $\alpha$ 21-Activated Kinase Pathway Drives Fasting-Induced Synaptic Plasticity in AgRP Neurons. <i>Neuron</i> , <b>2016</b> , 91, 25-33	13.9	41
48	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> , <b>2016</b> , 65, 1808-15	0.9	82
47	PKD1 Inhibits AMPK $\alpha$ through Phosphorylation of Serine 491 and Impairs Insulin Signaling in Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 5664-5675	5.4	36
46	A LC-MS-based workflow for measurement of branched fatty acid esters of hydroxy fatty acids. <i>Nature Protocols</i> , <b>2016</b> , 11, 747-63	18.8	49
45	Disruption of Adipose Rab10-Dependent Insulin Signaling Causes Hepatic Insulin Resistance. <i>Diabetes</i> , <b>2016</b> , 65, 1577-89	0.9	33
44	AIG1 and ADTRP are atypical integral membrane hydrolases that degrade bioactive FAHFAs. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 367-372	11.7	43
43	Antigen Presentation and T-Cell Activation Are Critical for RBP4-Induced Insulin Resistance. <i>Diabetes</i> , <b>2016</b> , 65, 1317-27	0.9	32
42	Adipocyte-specific overexpression of retinol-binding protein 4 causes hepatic steatosis in mice. <i>Hepatology</i> , <b>2016</b> , 64, 1534-1546	11.2	50
41	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> , <b>2016</b> , 291, 22207-22217	5.4	75
40	Branched Fatty Acid Esters of Hydroxy Fatty Acids Are Preferred Substrates of the MODY8 Protein Carboxyl Ester Lipase. <i>Biochemistry</i> , <b>2016</b> , 55, 4636-41	3.2	43
39	Novel role for retinol-binding protein 4 in the regulation of blood pressure. <i>FASEB Journal</i> , <b>2015</b> , 29, 3133-40	0.9	23

38	Transthyretin Antisense Oligonucleotides Lower Circulating RBP4 Levels and Improve Insulin Sensitivity in Obese Mice. <i>Diabetes</i> , <b>2015</b> , 64, 1603-14	0.9	32
37	RBP4 activates antigen-presenting cells, leading to adipose tissue inflammation and systemic insulin resistance. <i>Cell Metabolism</i> , <b>2014</b> , 19, 512-26	24.6	169
36	Discovery of a class of endogenous mammalian lipids with anti-diabetic and anti-inflammatory effects. <i>Cell</i> , <b>2014</b> , 159, 318-32	56.2	466
35	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> , <b>2014</b> , 34, 1170-86	4.8	26
34	Leptin, GABA, and glucose control. <i>Cell Metabolism</i> , <b>2013</b> , 18, 304-6	24.6	5
33	Plasma retinol-binding protein 4 (RBP4) levels and risk of coronary heart disease: a prospective analysis among women in the nursesRhealth study. <i>Circulation</i> , <b>2013</b> , 127, 1938-47	16.7	79
32	p70S6 kinase phosphorylates AMPK on serine 491 to mediate leptin's effect on food intake. <i>Cell Metabolism</i> , <b>2012</b> , 16, 104-12	24.6	182
31	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> , <b>2012</b> , 7, e36335	3.7	5
30	A novel ChREBP isoform in adipose tissue regulates systemic glucose metabolism. <i>Nature</i> , <b>2012</b> , 484, 333-8	50.4	390
29	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> , <b>2012</b> , 153, 1519-27	4.8	25
28	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> , <b>2012</b> , 32, 2010-9	4.8	170
27	Rosiglitazone, PPAR $\gamma$ and type 2 diabetes. <i>New England Journal of Medicine</i> , <b>2010</b> , 363, 2667-9	59.2	45
26	Adipose tissue branched chain amino acid (BCAA) metabolism modulates circulating BCAA levels. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 11348-56	5.4	243
25	Long-term Fenretinide treatment prevents high-fat diet-induced obesity, insulin resistance, and hepatic steatosis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E1420-9	6	80
24	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> , <b>2009</b> , 29, 4563-73	4.8	66
23	Retinol-binding protein 4 (RBP4): a biomarker for subclinical atherosclerosis?. <i>American Journal of Hypertension</i> , <b>2009</b> , 22, 948-9	2.3	11
22	The relationship of retinol binding protein 4 to changes in insulin resistance and cardiometabolic risk in overweight black adolescents. <i>Journal of Pediatrics</i> , <b>2009</b> , 154, 67-73.e1	3.6	28
21	Decreased clearance of serum retinol-binding protein and elevated levels of transthyretin in insulin-resistant ob/ob mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2008</b> , 294, E785-93	6	69

20	Role of hypothalamic adenosine 5Rmonophosphate-activated protein kinase in the impaired counterregulatory response induced by repetitive neuroglucopenia. <i>Endocrinology</i> , <b>2007</b> , 148, 1367-75	4.8	73
19	A high-fat, ketogenic diet induces a unique metabolic state in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 292, E1724-39	6	282
18	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> , <b>2007</b> , 92, 1971-4	5.6	192
17	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> , <b>2007</b> , 6, 79-87	24.6	318
16	Acute exercise increases serum retinol binding protein 4 concentrations. <i>FASEB Journal</i> , <b>2007</b> , 21, A928	0.9	
15	Diet-induced obesity alters AMP kinase activity in hypothalamus and skeletal muscle. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 18933-41	5.4	216
14	Retinol-binding protein 4 and insulin resistance in lean, obese, and diabetic subjects. <i>New England Journal of Medicine</i> , <b>2006</b> , 354, 2552-63	59.2	1035
13	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> , <b>2006</b> , 574, 73-83	3.9	245
12	Glucose transport and sensing in the maintenance of glucose homeostasis and metabolic harmony. <i>Journal of Clinical Investigation</i> , <b>2006</b> , 116, 1767-75	15.9	239
11	AMP-activated protein kinase: ancient energy gauge provides clues to modern understanding of metabolism. <i>Cell Metabolism</i> , <b>2005</b> , 1, 15-25	24.6	2257
10	Serum retinol binding protein 4 contributes to insulin resistance in obesity and type 2 diabetes. <i>Nature</i> , <b>2005</b> , 436, 356-62	50.4	1571
9	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> , <b>2005</b> , 289, E551-61	6	167
8	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. <i>Nature</i> , <b>2004</b> , 428, 569-74	50.4	1295
7	Leptin stimulates fatty-acid oxidation by activating AMP-activated protein kinase. <i>Nature</i> , <b>2002</b> , 415, 339-43	50.4	1614
6	Adipose-selective targeting of the GLUT4 gene impairs insulin action in muscle and liver. <i>Nature</i> , <b>2001</b> , 409, 729-33	50.4	923
5	Targeted disruption of the glucose transporter 4 selectively in muscle causes insulin resistance and glucose intolerance. <i>Nature Medicine</i> , <b>2000</b> , 6, 924-8	50.5	546
4	In vivo administration of leptin activates signal transduction directly in insulin-sensitive tissues: overlapping but distinct pathways from insulin. <i>Endocrinology</i> , <b>2000</b> , 141, 2328-39	4.8	203
3	Glucose transporters and insulin action--implications for insulin resistance and diabetes mellitus. <i>New England Journal of Medicine</i> , <b>1999</b> , 341, 248-57	59.2	987

- 2 Exercise, glucose transport, and insulin sensitivity. *Annual Review of Medicine*, **1998**, 49, 235-61 17.4 767
- 1 Alterations in glucose transporter expression and function in diabetes: mechanisms for insulin resistance. *Journal of Cellular Biochemistry*, **1992**, 48, 122-8 4.7 33