

Barbara B Kahn

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.

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 | AMP-activated protein kinase: ancient energy gauge provides clues to modern understanding of metabolism. <i>Cell Metabolism</i> , 2005 , 1, 15-25 | 24.6 | 2257 |
| 72 | Leptin stimulates fatty-acid oxidation by activating AMP-activated protein kinase. <i>Nature</i> , 2002 , 415, 339-43 | 50.4 | 1614 |
| 71 | Serum retinol binding protein 4 contributes to insulin resistance in obesity and type 2 diabetes. <i>Nature</i> , 2005 , 436, 356-62 | 50.4 | 1571 |
| 70 | AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. <i>Nature</i> , 2004 , 428, 569-74 | 50.4 | 1295 |
| 69 | Retinol-binding protein 4 and insulin resistance in lean, obese, and diabetic subjects. <i>New England Journal of Medicine</i> , 2006 , 354, 2552-63 | 59.2 | 1035 |
| 68 | Glucose transporters and insulin action--implications for insulin resistance and diabetes mellitus. <i>New England Journal of Medicine</i> , 1999 , 341, 248-57 | 59.2 | 987 |
| 67 | Adipose-selective targeting of the GLUT4 gene impairs insulin action in muscle and liver. <i>Nature</i> , 2001 , 409, 729-33 | 50.4 | 923 |
| 66 | Exercise, glucose transport, and insulin sensitivity. <i>Annual Review of Medicine</i> , 1998 , 49, 235-61 | 17.4 | 767 |
| 65 | Targeted disruption of the glucose transporter 4 selectively in muscle causes insulin resistance and glucose intolerance. <i>Nature Medicine</i> , 2000 , 6, 924-8 | 50.5 | 546 |
| 64 | Discovery of a class of endogenous mammalian lipids with anti-diabetic and anti-inflammatory effects. <i>Cell</i> , 2014 , 159, 318-32 | 56.2 | 466 |
| 63 | A novel ChREBP isoform in adipose tissue regulates systemic glucose metabolism. <i>Nature</i> , 2012 , 484, 333-8 | 50.4 | 390 |
| 62 | 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 | 24.6 | 318 |
| 61 | A high-fat, ketogenic diet induces a unique metabolic state in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 292, E1724-39 | 6 | 282 |
| 60 | 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 | 3.9 | 245 |
| 59 | Adipose tissue branched chain amino acid (BCAA) metabolism modulates circulating BCAA levels. <i>Journal of Biological Chemistry</i> , 2010 , 285, 11348-56 | 5.4 | 243 |
| 58 | Glucose transport and sensing in the maintenance of glucose homeostasis and metabolic harmony. <i>Journal of Clinical Investigation</i> , 2006 , 116, 1767-75 | 15.9 | 239 |
| 57 | Diet-induced obesity alters AMP kinase activity in hypothalamus and skeletal muscle. <i>Journal of Biological Chemistry</i> , 2006 , 281, 18933-41 | 5.4 | 216 |

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|----|---|------|-----|
| 56 | In vivo administration of leptin activates signal transduction directly in insulin-sensitive tissues: overlapping but distinct pathways from insulin. <i>Endocrinology</i> , 2000 , 141, 2328-39 | 4.8 | 203 |
| 55 | 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, 1971-4 | 5.6 | 192 |
| 54 | p70S6 kinase phosphorylates AMPK on serine 491 to mediate leptin's effect on food intake. <i>Cell Metabolism</i> , 2012 , 16, 104-12 | 24.6 | 182 |
| 53 | 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, 2010-9 | 4.8 | 170 |
| 52 | RBP4 activates antigen-presenting cells, leading to adipose tissue inflammation and systemic insulin resistance. <i>Cell Metabolism</i> , 2014 , 19, 512-26 | 24.6 | 169 |
| 51 | Metabolites as regulators of insulin sensitivity and metabolism. <i>Nature Reviews Molecular Cell Biology</i> , 2018 , 19, 654-672 | 48.7 | 167 |
| 50 | 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, E551-61 | 6 | 167 |
| 49 | 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 | 24.6 | 88 |
| 48 | Brown Adipose Tissue Controls Skeletal Muscle Function via the Secretion of Myostatin. <i>Cell Metabolism</i> , 2018 , 28, 631-643.e3 | 24.6 | 87 |
| 47 | 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, 1808-15 | 0.9 | 82 |
| 46 | 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, E1420-9 | 6 | 80 |
| 45 | Plasma retinol-binding protein 4 (RBP4) levels and risk of coronary heart disease: a prospective analysis among women in the nurses'health study. <i>Circulation</i> , 2013 , 127, 1938-47 | 16.7 | 79 |
| 44 | 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 | 5.4 | 75 |
| 43 | 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 | 10.6 | 74 |
| 42 | Role of hypothalamic adenosine 5' monophosphate-activated protein kinase in the impaired counterregulatory response induced by repetitive neuroglucopenia. <i>Endocrinology</i> , 2007 , 148, 1367-75 | 4.8 | 73 |
| 41 | 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> , 2008 , 294, E785-93 | 6 | 69 |
| 40 | 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, 4563-73 | 4.8 | 66 |
| 39 | Brain GLUT4 Knockout Mice Have Impaired Glucose Tolerance, Decreased Insulin Sensitivity, and Impaired Hypoglycemic Counterregulation. <i>Diabetes</i> , 2017 , 66, 587-597 | 0.9 | 54 |

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|----|--|------|----|
| 38 | Adipocyte-specific overexpression of retinol-binding protein 4 causes hepatic steatosis in mice. <i>Hepatology</i> , 2016 , 64, 1534-1546 | 11.2 | 50 |
| 37 | A LC-MS-based workflow for measurement of branched fatty acid esters of hydroxy fatty acids. <i>Nature Protocols</i> , 2016 , 11, 747-63 | 18.8 | 49 |
| 36 | Rosiglitazone, PPAR γ and type 2 diabetes. <i>New England Journal of Medicine</i> , 2010 , 363, 2667-9 | 59.2 | 45 |
| 35 | 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 | 16.4 | 43 |
| 34 | AIG1 and ADTRP are atypical integral membrane hydrolases that degrade bioactive FAHFAs. <i>Nature Chemical Biology</i> , 2016 , 12, 367-372 | 11.7 | 43 |
| 33 | Branched Fatty Acid Esters of Hydroxy Fatty Acids Are Preferred Substrates of the MODY8 Protein Carboxyl Ester Lipase. <i>Biochemistry</i> , 2016 , 55, 4636-41 | 3.2 | 43 |
| 32 | A Postsynaptic AMPK- α 21-Activated Kinase Pathway Drives Fasting-Induced Synaptic Plasticity in AgRP Neurons. <i>Neuron</i> , 2016 , 91, 25-33 | 13.9 | 41 |
| 31 | PKD1 Inhibits AMPK α through Phosphorylation of Serine 491 and Impairs Insulin Signaling in Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 5664-5675 | 5.4 | 36 |
| 30 | PAHSAs enhance hepatic and systemic insulin sensitivity through direct and indirect mechanisms. <i>Journal of Clinical Investigation</i> , 2019 , 129, 4138-4150 | 15.9 | 36 |
| 29 | Disruption of Adipose Rab10-Dependent Insulin Signaling Causes Hepatic Insulin Resistance. <i>Diabetes</i> , 2016 , 65, 1577-89 | 0.9 | 33 |
| 28 | Alterations in glucose transporter expression and function in diabetes: mechanisms for insulin resistance. <i>Journal of Cellular Biochemistry</i> , 1992 , 48, 122-8 | 4.7 | 33 |
| 27 | Antigen Presentation and T-Cell Activation Are Critical for RBP4-Induced Insulin Resistance. <i>Diabetes</i> , 2016 , 65, 1317-27 | 0.9 | 32 |
| 26 | Transthyretin Antisense Oligonucleotides Lower Circulating RBP4 Levels and Improve Insulin Sensitivity in Obese Mice. <i>Diabetes</i> , 2015 , 64, 1603-14 | 0.9 | 32 |
| 25 | Discovery of FAHFA-Containing Triacylglycerols and Their Metabolic Regulation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8798-8806 | 16.4 | 31 |
| 24 | 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 | 10.6 | 30 |
| 23 | Faster Protocol for Endogenous Fatty Acid Esters of Hydroxy Fatty Acid (FAHFA) Measurements. <i>Analytical Chemistry</i> , 2018 , 90, 5358-5365 | 7.8 | 29 |
| 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> , 2009 , 154, 67-73.e1 | 3.6 | 28 |
| 21 | PAHSAs attenuate immune responses and promote T cell survival in autoimmune diabetic mice. <i>Journal of Clinical Investigation</i> , 2019 , 129, 3717-3731 | 15.9 | 28 |

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|----|---|------|----|
| 20 | 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, 1170-86 | 4.8 | 26 |
| 19 | 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, 1519-27 | 4.8 | 25 |
| 18 | Methodological Issues in Studying PAHSA Biology: Masking PAHSA Effects. <i>Cell Metabolism</i> , 2018 , 28, 543-546 | 24.6 | 25 |
| 17 | Novel role for retinol-binding protein 4 in the regulation of blood pressure. <i>FASEB Journal</i> , 2015 , 29, 3133-40 | 0.9 | 23 |
| 16 | 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 | 0.9 | 21 |
| 15 | Obesity-Linked PPAR δ S273 Phosphorylation Promotes Insulin Resistance through Growth Differentiation Factor 3. <i>Cell Metabolism</i> , 2020 , 32, 665-675.e6 | 24.6 | 20 |
| 14 | Adipose tissue dysfunction is associated with low levels of the novel Palmitic Acid Hydroxystearic Acids. <i>Scientific Reports</i> , 2018 , 8, 15757 | 4.9 | 19 |
| 13 | 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 | 4.9 | 17 |
| 12 | 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 | 0.9 | 17 |
| 11 | 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 | 11.5 | 12 |
| 10 | Retinol-binding protein 4 (RBP4): a biomarker for subclinical atherosclerosis?. <i>American Journal of Hypertension</i> , 2009 , 22, 948-9 | 2.3 | 11 |
| 9 | Insulin action in adipocytes, adipose remodeling, and systemic effects. <i>Cell Metabolism</i> , 2021 , 33, 748-757 | 24.6 | 11 |
| 8 | BCAA Supplementation in Mice with Diet-induced Obesity Alters the Metabolome Without Impairing Glucose Homeostasis. <i>Endocrinology</i> , 2021 , 162, | 4.8 | 7 |
| 7 | Leptin, GABA, and glucose control. <i>Cell Metabolism</i> , 2013 , 18, 304-6 | 24.6 | 5 |
| 6 | Ca ²⁺ /calmodulin-dependent protein kinase kinase is not involved in hypothalamic AMP-activated protein kinase activation by neuroglucopenia. <i>PLoS ONE</i> , 2012 , 7, e36335 | 3.7 | 5 |
| 5 | 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 | 6.3 | 5 |
| 4 | High-throughput mediation analysis of human proteome and metabolome identifies mediators of post-bariatric surgical diabetes control. <i>Nature Communications</i> , 2021 , 12, 6951 | 17.4 | 2 |
| 3 | 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 | 0.9 | 1 |

2 Acute exercise increases serum retinol binding protein 4 concentrations. *FASEB Journal*, **2007**, 21, A928 0.9

1 De novo Lipogenesis in Adipocytes Results in the Production of Structurally Novel Signaling Lipids with Beneficial Metabolic and Anti-inflammatory Effects. *FASEB Journal*, **2019**, 33, 214.1 0.9