Kimberly K Buhman

List of Publications by Year
in descending order

67	4,175	126907 33	155660 55
papers	citations	h-index	g-index

68	68	68	5564
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Triacylglycerol Synthesis Enzymes Mediate Lipid Droplet Growth by Relocalizing from the ER to Lipid Droplets. Developmental Cell, 2013, 24, 384-399.	7.0	623
2	Resistance to diet-induced hypercholesterolemia and gallstone formation in ACAT2-deficient mice. Nature Medicine, 2000, 6, 1341-1347.	30.7	335
3	Decreased Hepatic Triglyceride Accumulation and Altered Fatty Acid Uptake in Mice with Deletion of the Liver Fatty Acid-binding Protein Gene. Journal of Biological Chemistry, 2003, 278, 51664-51672.	3.4	244
4	DGAT1 Is Not Essential for Intestinal Triacylglycerol Absorption or Chylomicron Synthesis. Journal of Biological Chemistry, 2002, 277, 25474-25479.	3.4	207
5	Deficiency of acyl CoA:cholesterol acyltransferase 2 prevents atherosclerosis in apolipoprotein E-deficient mice. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1262-1267.	7.1	168
6	The Enzymes of Neutral Lipid Synthesis. Journal of Biological Chemistry, 2001, 276, 40369-40372.	3.4	143
7	1Î±,25-Dihydroxyvitamin D hydroxylase in adipocytes. Journal of Steroid Biochemistry and Molecular Biology, 2008, 112, 122-126.	2.5	141
8	Migration of MDA-MB-231 breast cancer cells depends on the availability of exogenous lipids and cholesterol esterification. Clinical and Experimental Metastasis, 2011, 28, 733-741.	3.3	135
9	A Critical Role for Eukaryotic Elongation Factor 1A-1 in Lipotoxic Cell Death. Molecular Biology of the Cell, 2006, 17, 770-778.	2.1	128
10	High ACAT1 expression in estrogen receptor negative basal-like breast cancer cells is associated with LDL-induced proliferation. Breast Cancer Research and Treatment, 2010, 122, 661-670.	2.5	127
11	A multimodal platform for nonlinear optical microscopy and microspectroscopy. Optics Express, 2009, 17, 1282.	3.4	126
12	A dynamic, cytoplasmic triacylglycerol pool in enterocytes revealed by ex vivo and in vivo coherent anti-Stokes Raman scattering imaging. Journal of Lipid Research, 2009, 50, 1080-1089.	4.2	122
13	Assessing Cholesterol Storage in Live Cells and C. elegans by Stimulated Raman Scattering Imaging of Phenyl-Diyne Cholesterol. Scientific Reports, 2015, 5, 7930.	3.3	122
14	Dissociation of Obesity and Impaired Glucose Disposal in Mice Overexpressing Acyl Coenzyme A:Diacylglycerol Acyltransferase 1 in White Adipose Tissue. Diabetes, 2002, 51, 3189-3195.	0.6	113
15	Recent discoveries on absorption of dietary fat: Presence, synthesis, and metabolism of cytoplasmic lipid droplets within enterocytes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 730-747.	2.4	105
16	ACAT2 deficiency limits cholesterol absorption in the cholesterol-fed mouse: Impact on hepatic cholesterol homeostasis. Hepatology, 2004, 40, 1088-1097.	7.3	103
17	A self referencing platinum nanoparticle decorated enzyme-based microbiosensor for real time measurement of physiological glucose transport. Biosensors and Bioelectronics, 2011, 26, 2237-2245.	10.1	79
18	Differential association of adipophilin and TIP47 proteins with cytoplasmic lipid droplets in mouse enterocytes during dietary fat absorption. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 1173-1180.	2.4	74

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19	Acyl CoA synthetase 5 (ACSL5) ablation in mice increases energy expenditure and insulin sensitivity and delays fat absorption. Molecular Metabolism, 2016, 5, 210-220.	6.5	73
20	Intestine-specific expression of acyl CoA:diacylglycerol acyltransferase 1 reverses resistance to diet-induced hepatic steatosis and obesity in Dgat1 mice. Journal of Lipid Research, 2010, 51, 1770-1780.	4.2	72
21	Dietary Psyllium Increases Fecal Bile Acid Excretion, Total Steroid Excretion and Bile Acid Biosynthesis in Rats. Journal of Nutrition, 1998, 128, 1199-1203.	2.9	63
22	Recent Advances in Triacylglycerol Mobilization by the Gut. Trends in Endocrinology and Metabolism, 2018, 29, 151-163.	7.1	60
23	Dgat1 and Dgat2 regulate enterocyte triacylglycerol distribution and alter proteins associated with cytoplasmic lipid droplets in response to dietary fat. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 600-614.	2.4	55
24	Altered Transport and Metabolism of Phenolic Compounds in Obesity and Diabetes: Implications for Functional Food Development and Assessment. Advances in Nutrition, 2016, 7, 1090-1104.	6.4	52
25	Select 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase Inhibitors Vary in Their Ability to Reduce Egg Yolk Cholesterol Levels in Laying Hens through Alteration of Hepatic Cholesterol Biosynthesis and Plasma VLDL Composition. Journal of Nutrition, 1999, 129, 1010-1019.	2.9	48
26	Reduced Triglyceride Secretion in Response to an Acute Dietary Fat Challenge in Obese Compared to Lean Mice. Frontiers in Physiology, 2012, 3, 26.	2.8	47
27	Fenofibrate, a peroxisome proliferator-activated receptor Î± agonist, alters triglyceride metabolism in enterocytes of mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 170-176.	2.4	46
28	Hypocholesterolemic effect of Eubacterium coprostanoligenes ATCC 51222 in rabbits. Letters in Applied Microbiology, 1995, 20, 137-140.	2.2	45
29	Characterization of the Proteome of Cytoplasmic Lipid Droplets in Mouse Enterocytes after a Dietary Fat Challenge. PLoS ONE, 2015, 10, e0126823.	2.5	39
30	Intestinal lipoprotein assembly in apobec-1^{â€“}[/]^{â€“}mice reveals subtle alterations in triglyceride secretion coupled with a shift to larger lipoproteins. American Journal of Physiology - Renal Physiology, 2003, 285, G735-G746.	3.4	38
31	Dietary intervention with vitamin D, calcium, and whey protein reduced fat mass and increased lean mass in rats. Nutrition Research, 2008, 28, 783-790.	2.9	37
32	Oral Glucose Mobilizes Triglyceride Stores From the HumanÂIntestine. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 313-337.	4.5	35
33	Dietary Fiber and Bile Acid Metabolism â€" An Update. Advances in Experimental Medicine and Biology, 1997, 427, 259-266.	1.6	33
34	Diet Induced Obesity Alters Intestinal Cytoplasmic Lipid Droplet Morphology and Proteome in the Postprandial Response to Dietary Fat. Frontiers in Physiology, 2019, 10, 180.	2.8	30
35	1Î±,25-dihydroxyvitamin D inhibits de novo fatty acid synthesis and lipid accumulation in metastatic breast cancer cells through down-regulation of pyruvate carboxylase. Journal of Nutritional Biochemistry, 2017, 40, 194-200.	4.2	28
36	Inhibition of Hedgehog Signaling Protects Adult Mice from Diet-Induced Weight Gain. Journal of Nutrition, 2004, 134, 2979-2984.	2.9	25

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37	Dietary Psyllium Increases Expression of Ileal Apical Sodium-Dependent Bile Acid Transporter mRNA Coordinately with Dose-Responsive Changes in Bile Acid Metabolism in Rats. Journal of Nutrition, 2000, 130, 2137-2142.	2.9	24
38	Cholesterol Sulfonation Enzyme, SULT2B1b, Modulates AR and Cell Growth Properties in Prostate Cancer. Molecular Cancer Research, 2016, 14, 776-786.	3.4	24
39	Novel anti-inflammatory role of SLPI in adipose tissue and its regulation by high fat diet. Journal of Inflammation, 2011, 8, 5.	3.4	19
40	Intestinal acyl-CoA:diacylglycerol acyltransferase 2 overexpression enhances postprandial triglyceridemic response and exacerbates high fat diet-induced hepatic triacylglycerol storage. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 1377-1385.	2.4	19
41	1Î±,25-Dihydroxyvitamin D Inhibits the Metastatic Capability of MCF10CA1a and MDA-MB-231 Cells in an In Vitro Model of Breast to Bone Metastasis. Nutrition and Cancer, 2016, 68, 1202-1209.	2.0	19
42	Excess pregnancy weight gain leads to early indications of metabolic syndrome in a swine model of fetal programming. Nutrition Research, 2014, 34, 241-249.	2.9	16
43	Endurance exercise training programs intestinal lipid metabolism in a rat model of obesity and type 2 diabetes. Physiological Reports, 2015, 3, e12232.	1.7	16
44	DGAT1 deficiency disrupts lysosome function in enterocytes during dietary fat absorption. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 587-595.	2.4	12
45	Characterization of cytoplasmic lipid droplets in each region of the small intestine of lean and diet-induced obese mice in response to dietary fat. American Journal of Physiology - Renal Physiology, 2021, 321, G75-G86.	3.4	12
46	Imaging Cytoplasmic Lipid Droplets in Enterocytes and Assessing Dietary Fat Absorption. Methods in Cell Biology, 2013, 116, 151-166.	1.1	11
47	Maternal high-fat diet exposure during gestation, lactation, or gestation and lactation differentially affects intestinal morphology and proteome of neonatal mice. Nutrition Research, 2019, 66, 48-60.	2.9	11
48	High-fat-diet induced obesity increases the proportion of linoleic acyl residues in dam serum and milk and in suckling neonate circulation. Biology of Reproduction, 2020, 103, 736-749.	2.7	11
49	Proteome and phosphoproteome characterization of liver in the postprandial state from diet-induced obese and lean mice. Journal of Proteomics, 2021, 232, 104072.	2.4	11
50	Multi-Omics Approach Reveals Dysregulation of Protein Phosphorylation Correlated with Lipid Metabolism in Mouse Non-Alcoholic Fatty Liver. Cells, 2022, 11, 1172.	4.1	11
51	Proteomic Characterization of Cytoplasmic Lipid Droplets in Human Metastatic Breast Cancer Cells. Frontiers in Oncology, 2021, 11, 576326.	2.8	10
52	Albumin knockout mice exhibit reduced plasma free fatty acid concentration and enhanced insulin sensitivity. Physiological Reports, 2022, 10, e15161.	1.7	7
53	Maternal high fructose and low protein consumption during pregnancy and lactation share some but not all effects on early-life growth and metabolic programming of rat offspring. Nutrition Research, 2016, 36, 937-946.	2.9	6
54	Dietary selenate attenuates adiposity and improves insulin sensitivity in high-fat diet-induced obese mice. Journal of Functional Foods, 2015, 17, 33-42.	3.4	5

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55	The Roles of Cytoplasmic Lipid Droplets in Modulating Intestinal Uptake of Dietary Fat. Annual Review of Nutrition, 2021, 41, 79-104.	10.1	4
56	Absorption of Dietary Fat and Its Metabolism in Enterocytes. , 2019, , 33-48.		3
57	Regulation of intracellular lipid storage and utilization. , 2020, , 131-156.		1
58	Lipid Activates mTORC1 and mTORC2 in the Absorption of Dietary Triglycerides. SSRN Electronic Journal, 0, , .	0.4	1
59	Expression of 1Î±â€Hydroxylase in Tissues Relevant to Energy Metabolism. FASEB Journal, 2007, 21, A1110.	0.5	0
60	Cytosolic Triglyceride Storage in Mouse Enterocytes during Dietary Fat Absorption Visualized by Coherent Antiâ€Stokes Raman Scattering Microscopy. FASEB Journal, 2008, 22, 147.4.	0.5	0
61	Acylâ€CoA:cholesterol acyl transferase (ACAT1) is highly expressed in human breast cancer cell lines and ACAT inhibition reduces proliferation. FASEB Journal, 2008, 22, 709-709.	0.5	0
62	Glycerol enhances intestinal aquaporin expression and improves glucose tolerance. FASEB Journal, 2009, 23, 541.7.	0.5	0
63	Changes in ECM proteins, decorin and biglycan, during adipogenesis in 3T3â€L1 cells and in adipose tissue of mice on a high fat diet. FASEB Journal, 2009, 23, 1022.12.	0.5	0
64	LDL and free fatty acids increase proliferation and migration of estrogen receptor negative (ERâ^') MDAâ€MBâ€231 breast cancer cells: involvement of ACAT1 and MAPK signaling. FASEB Journal, 2010, 24, 727.2.	0.5	0
65	Maternal fructose consumption programs gene expression pattern in intestine of male offspring. FASEB Journal, 2010, 24, 344.3.	0.5	0
66	Excess pregnancy weight gain and early energyâ€rich environment in swine program offspring for indications of metabolic syndrome. FASEB Journal, 2012, 26, 128.1.	0.5	0
67	Characterization of the proteome of cytoplamic lipid droplets in enterocytes in response to dietary fat. FASEB Journal, 2013, 27, 1020.3.	0.5	0