

Kimberly K Buhman

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

4,175
citations

145106

33
h-index

175968

55
g-index

68
all docs

68
docs citations

68
times ranked

6112
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Albumin knockout mice exhibit reduced plasma free fatty acid concentration and enhanced insulin sensitivity. <i>Physiological Reports</i> , 2022, 10, e15161. | 0.7 | 7 |
| 2 | Multi-Omics Approach Reveals Dysregulation of Protein Phosphorylation Correlated with Lipid Metabolism in Mouse Non-Alcoholic Fatty Liver. <i>Cells</i> , 2022, 11, 1172. | 1.8 | 11 |
| 3 | Proteome and phosphoproteome characterization of liver in the postprandial state from diet-induced obese and lean mice. <i>Journal of Proteomics</i> , 2021, 232, 104072. | 1.2 | 11 |
| 4 | Proteomic Characterization of Cytoplasmic Lipid Droplets in Human Metastatic Breast Cancer Cells. <i>Frontiers in Oncology</i> , 2021, 11, 576326. | 1.3 | 10 |
| 5 | The Roles of Cytoplasmic Lipid Droplets in Modulating Intestinal Uptake of Dietary Fat. <i>Annual Review of Nutrition</i> , 2021, 41, 79-104. | 4.3 | 4 |
| 6 | Characterization of cytoplasmic lipid droplets in each region of the small intestine of lean and diet-induced obese mice in response to dietary fat. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, G75-G86. | 1.6 | 12 |
| 7 | Regulation of intracellular lipid storage and utilization. , 2020, , 131-156. | | 1 |
| 8 | High-fat-diet induced obesity increases the proportion of linoleic acyl residues in dam serum and milk and in suckling neonate circulation. <i>Biology of Reproduction</i> , 2020, 103, 736-749. | 1.2 | 11 |
| 9 | Maternal high-fat diet exposure during gestation, lactation, or gestation and lactation differentially affects intestinal morphology and proteome of neonatal mice. <i>Nutrition Research</i> , 2019, 66, 48-60. | 1.3 | 11 |
| 10 | Diet Induced Obesity Alters Intestinal Cytoplasmic Lipid Droplet Morphology and Proteome in the Postprandial Response to Dietary Fat. <i>Frontiers in Physiology</i> , 2019, 10, 180. | 1.3 | 30 |
| 11 | Oral Glucose Mobilizes Triglyceride Stores From the Human Intestine. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019, 7, 313-337. | 2.3 | 35 |
| 12 | Absorption of Dietary Fat and Its Metabolism in Enterocytes. , 2019, , 33-48. | | 3 |
| 13 | DGAT1 deficiency disrupts lysosome function in enterocytes during dietary fat absorption. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 587-595. | 1.2 | 12 |
| 14 | Recent Advances in Triacylglycerol Mobilization by the Gut. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 151-163. | 3.1 | 60 |
| 15 | Dgat1 and Dgat2 regulate enterocyte triacylglycerol distribution and alter proteins associated with cytoplasmic lipid droplets in response to dietary fat. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 600-614. | 1.2 | 55 |
| 16 | 1,25-dihydroxyvitamin D inhibits de novo fatty acid synthesis and lipid accumulation in metastatic breast cancer cells through down-regulation of pyruvate carboxylase. <i>Journal of Nutritional Biochemistry</i> , 2017, 40, 194-200. | 1.9 | 28 |
| 17 | Recent discoveries on absorption of dietary fat: Presence, synthesis, and metabolism of cytoplasmic lipid droplets within enterocytes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 730-747. | 1.2 | 105 |
| 18 | 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. <i>Nutrition Research</i> , 2016, 36, 937-946. | 1.3 | 6 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | 1 α ,25-Dihydroxyvitamin D Inhibits the Metastatic Capability of MCF10CA1a and MDA-MB-231 Cells in an In Vitro Model of Breast to Bone Metastasis. <i>Nutrition and Cancer</i> , 2016, 68, 1202-1209. | 0.9 | 19 |
| 20 | Altered Transport and Metabolism of Phenolic Compounds in Obesity and Diabetes: Implications for Functional Food Development and Assessment. <i>Advances in Nutrition</i> , 2016, 7, 1090-1104. | 2.9 | 52 |
| 21 | Cholesterol Sulfonation Enzyme, SULT2B1b, Modulates AR and Cell Growth Properties in Prostate Cancer. <i>Molecular Cancer Research</i> , 2016, 14, 776-786. | 1.5 | 24 |
| 22 | Acyl CoA synthetase 5 (ACSL5) ablation in mice increases energy expenditure and insulin sensitivity and delays fat absorption. <i>Molecular Metabolism</i> , 2016, 5, 210-220. | 3.0 | 73 |
| 23 | Dietary selenate attenuates adiposity and improves insulin sensitivity in high-fat diet-induced obese mice. <i>Journal of Functional Foods</i> , 2015, 17, 33-42. | 1.6 | 5 |
| 24 | Assessing Cholesterol Storage in Live Cells and <i>C. elegans</i> by Stimulated Raman Scattering Imaging of Phenyl-Diyne Cholesterol. <i>Scientific Reports</i> , 2015, 5, 7930. | 1.6 | 122 |
| 25 | Endurance exercise training programs intestinal lipid metabolism in a rat model of obesity and type 2 diabetes. <i>Physiological Reports</i> , 2015, 3, e12232. | 0.7 | 16 |
| 26 | Characterization of the Proteome of Cytoplasmic Lipid Droplets in Mouse Enterocytes after a Dietary Fat Challenge. <i>PLoS ONE</i> , 2015, 10, e0126823. | 1.1 | 39 |
| 27 | Excess pregnancy weight gain leads to early indications of metabolic syndrome in a swine model of fetal programming. <i>Nutrition Research</i> , 2014, 34, 241-249. | 1.3 | 16 |
| 28 | Imaging Cytoplasmic Lipid Droplets in Enterocytes and Assessing Dietary Fat Absorption. <i>Methods in Cell Biology</i> , 2013, 116, 151-166. | 0.5 | 11 |
| 29 | Triacylglycerol Synthesis Enzymes Mediate Lipid Droplet Growth by Relocalizing from the ER to Lipid Droplets. <i>Developmental Cell</i> , 2013, 24, 384-399. | 3.1 | 623 |
| 30 | Intestinal acyl-CoA:diacylglycerol acyltransferase 2 overexpression enhances postprandial triglyceridemic response and exacerbates high fat diet-induced hepatic triacylglycerol storage. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1377-1385. | 1.2 | 19 |
| 31 | Characterization of the proteome of cytoplasmic lipid droplets in enterocytes in response to dietary fat. <i>FASEB Journal</i> , 2013, 27, 1020.3. | 0.2 | 0 |
| 32 | Reduced Triglyceride Secretion in Response to an Acute Dietary Fat Challenge in Obese Compared to Lean Mice. <i>Frontiers in Physiology</i> , 2012, 3, 26. | 1.3 | 47 |
| 33 | Excess pregnancy weight gain and early energy-rich environment in swine program offspring for indications of metabolic syndrome. <i>FASEB Journal</i> , 2012, 26, 128.1. | 0.2 | 0 |
| 34 | Fenofibrate, a peroxisome proliferator-activated receptor α agonist, alters triglyceride metabolism in enterocytes of mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 170-176. | 1.2 | 46 |
| 35 | Migration of MDA-MB-231 breast cancer cells depends on the availability of exogenous lipids and cholesterol esterification. <i>Clinical and Experimental Metastasis</i> , 2011, 28, 733-741. | 1.7 | 135 |
| 36 | Novel anti-inflammatory role of SLPI in adipose tissue and its regulation by high fat diet. <i>Journal of Inflammation</i> , 2011, 8, 5. | 1.5 | 19 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | A self referencing platinum nanoparticle decorated enzyme-based microbiosensor for real time measurement of physiological glucose transport. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2237-2245. | 5.3 | 79 |
| 38 | High ACAT1 expression in estrogen receptor negative basal-like breast cancer cells is associated with LDL-induced proliferation. <i>Breast Cancer Research and Treatment</i> , 2010, 122, 661-670. | 1.1 | 127 |
| 39 | Intestine-specific expression of acyl CoA:diacylglycerol acyltransferase 1 reverses resistance to diet-induced hepatic steatosis and obesity in Dgat1 mice. <i>Journal of Lipid Research</i> , 2010, 51, 1770-1780. | 2.0 | 72 |
| 40 | LDL and free fatty acids increase proliferation and migration of estrogen receptor negative (ER ⁺) MDA-MB-231 breast cancer cells: involvement of ACAT1 and MAPK signaling. <i>FASEB Journal</i> , 2010, 24, 727.2. | 0.2 | 0 |
| 41 | Maternal fructose consumption programs gene expression pattern in intestine of male offspring. <i>FASEB Journal</i> , 2010, 24, 344.3. | 0.2 | 0 |
| 42 | A dynamic, cytoplasmic triacylglycerol pool in enterocytes revealed by ex vivo and in vivo coherent anti-Stokes Raman scattering imaging. <i>Journal of Lipid Research</i> , 2009, 50, 1080-1089. | 2.0 | 122 |
| 43 | Differential association of adipophilin and TIP47 proteins with cytoplasmic lipid droplets in mouse enterocytes during dietary fat absorption. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 1173-1180. | 1.2 | 74 |
| 44 | A multimodal platform for nonlinear optical microscopy and microspectroscopy. <i>Optics Express</i> , 2009, 17, 1282. | 1.7 | 126 |
| 45 | Glycerol enhances intestinal aquaporin expression and improves glucose tolerance. <i>FASEB Journal</i> , 2009, 23, 541.7. | 0.2 | 0 |
| 46 | Changes in ECM proteins, decorin and biglycan, during adipogenesis in 3T3-L1 cells and in adipose tissue of mice on a high fat diet. <i>FASEB Journal</i> , 2009, 23, 1022.12. | 0.2 | 0 |
| 47 | 1 α ,25-Dihydroxyvitamin D hydroxylase in adipocytes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2008, 112, 122-126. | 1.2 | 141 |
| 48 | Dietary intervention with vitamin D, calcium, and whey protein reduced fat mass and increased lean mass in rats. <i>Nutrition Research</i> , 2008, 28, 783-790. | 1.3 | 37 |
| 49 | Cytosolic Triglyceride Storage in Mouse Enterocytes during Dietary Fat Absorption Visualized by Coherent Anti-Stokes Raman Scattering Microscopy. <i>FASEB Journal</i> , 2008, 22, 147.4. | 0.2 | 0 |
| 50 | Acyl-CoA:cholesterol acyl transferase (ACAT1) is highly expressed in human breast cancer cell lines and ACAT inhibition reduces proliferation. <i>FASEB Journal</i> , 2008, 22, 709-709. | 0.2 | 0 |
| 51 | Expression of 1 α -Hydroxylase in Tissues Relevant to Energy Metabolism. <i>FASEB Journal</i> , 2007, 21, A1110. | 0.2 | 0 |
| 52 | A Critical Role for Eukaryotic Elongation Factor 1A-1 in Lipotoxic Cell Death. <i>Molecular Biology of the Cell</i> , 2006, 17, 770-778. | 0.9 | 128 |
| 53 | ACAT2 deficiency limits cholesterol absorption in the cholesterol-fed mouse: Impact on hepatic cholesterol homeostasis. <i>Hepatology</i> , 2004, 40, 1088-1097. | 3.6 | 103 |
| 54 | Inhibition of Hedgehog Signaling Protects Adult Mice from Diet-Induced Weight Gain. <i>Journal of Nutrition</i> , 2004, 134, 2979-2984. | 1.3 | 25 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Decreased Hepatic Triglyceride Accumulation and Altered Fatty Acid Uptake in Mice with Deletion of the Liver Fatty Acid-binding Protein Gene. <i>Journal of Biological Chemistry</i> , 2003, 278, 51664-51672. | 1.6 | 244 |
| 56 | Deficiency of acyl CoA:cholesterol acyltransferase 2 prevents atherosclerosis in apolipoprotein E-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1262-1267. | 3.3 | 168 |
| 57 | Intestinal lipoprotein assembly in apobec-1 ^{-/-} mice reveals subtle alterations in triglyceride secretion coupled with a shift to larger lipoproteins. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 285, G735-G746. | 1.6 | 38 |
| 58 | DGAT1 Is Not Essential for Intestinal Triacylglycerol Absorption or Chylomicron Synthesis. <i>Journal of Biological Chemistry</i> , 2002, 277, 25474-25479. | 1.6 | 207 |
| 59 | Dissociation of Obesity and Impaired Glucose Disposal in Mice Overexpressing Acyl Coenzyme A:Diacylglycerol Acyltransferase 1 in White Adipose Tissue. <i>Diabetes</i> , 2002, 51, 3189-3195. | 0.3 | 113 |
| 60 | The Enzymes of Neutral Lipid Synthesis. <i>Journal of Biological Chemistry</i> , 2001, 276, 40369-40372. | 1.6 | 143 |
| 61 | Dietary Psyllium Increases Expression of Ileal Apical Sodium-Dependent Bile Acid Transporter mRNA Coordinately with Dose-Responsive Changes in Bile Acid Metabolism in Rats. <i>Journal of Nutrition</i> , 2000, 130, 2137-2142. | 1.3 | 24 |
| 62 | Resistance to diet-induced hypercholesterolemia and gallstone formation in ACAT2-deficient mice. <i>Nature Medicine</i> , 2000, 6, 1341-1347. | 15.2 | 335 |
| 63 | 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. <i>Journal of Nutrition</i> , 1999, 129, 1010-1019. | 1.3 | 48 |
| 64 | Dietary Psyllium Increases Fecal Bile Acid Excretion, Total Steroid Excretion and Bile Acid Biosynthesis in Rats. <i>Journal of Nutrition</i> , 1998, 128, 1199-1203. | 1.3 | 63 |
| 65 | Dietary Fiber and Bile Acid Metabolism – An Update. <i>Advances in Experimental Medicine and Biology</i> , 1997, 427, 259-266. | 0.8 | 33 |
| 66 | Hypocholesterolemic effect of <i>Eubacterium coprostanoligenes</i> ATCC 51222 in rabbits. <i>Letters in Applied Microbiology</i> , 1995, 20, 137-140. | 1.0 | 45 |
| 67 | Lipid Activates mTORC1 and mTORC2 in the Absorption of Dietary Triglycerides. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 1 |