

RenÃ© L Jacobs

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

5,581
citations

94269

37
h-index

85405

71
g-index

103
all docs

103
docs citations

103
times ranked

8036
citing authors

#	ARTICLE	IF	CITATIONS
1	Sex Differences Distinctly Impact High-Fat Diet-Induced Immune Dysfunction in Wistar Rats. <i>Journal of Nutrition</i> , 2022, 152, 1347-1357.	1.3	10
2	Egg-Phosphatidylcholine Attenuates T-Cell Dysfunction in High-Fat Diet Fed Male Wistar Rats. <i>Frontiers in Nutrition</i> , 2022, 9, 811469.	1.6	5
3	De novo phosphatidylcholine synthesis in the small intestinal epithelium is required for normal dietary lipid handling and maintenance of the mucosal barrier. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022, 1867, 159109.	1.2	1
4	Activation of Liver mTORC1 Protects Against NASH via Dual Regulation of VLDL-TAG Secretion and De Novo Lipogenesis. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2022, 13, 1625-1647.	2.3	15
5	Mild Choline Deficiency and MTHFD1 Synthetase Deficiency Interact to Increase Incidence of Developmental Delays and Defects in Mice. <i>Nutrients</i> , 2022, 14, 127.	1.7	2
6	Insufficient dietary choline aggravates disease severity in a mouse model of <i>Citrobacter rodentium</i> -induced colitis. <i>British Journal of Nutrition</i> , 2021, 125, 50-61.	1.2	9
7	Intestinal Phospholipid Disequilibrium Initiates an ER Stress Response That Drives Goblet Cell Necroptosis and Spontaneous Colitis in Mice. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 11, 999-1021.	2.3	20
8	Carboxylesterase 1d (Ces1d) does not contribute to cholesteryl ester hydrolysis in the liver. <i>Journal of Lipid Research</i> , 2021, 62, 100093.	2.0	7
9	Inhibition of Elongation Factor 1A1 Activity Decreases Lipid Droplet Accumulation. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
10	Dietary phosphatidylcholine supplementation reduces atherosclerosis in Ldlr male mice ² . <i>Journal of Nutritional Biochemistry</i> , 2021, 92, 108617.	1.9	13
11	Genetic screening reveals phospholipid metabolism as a key regulator of the biosynthesis of the redox-active lipid coenzyme Q. <i>Redox Biology</i> , 2021, 46, 102127.	3.9	8
12	Buttermilk: an important source of lipid soluble forms of choline that influences the immune system development in Sprague-Dawley rat offspring. <i>European Journal of Nutrition</i> , 2021, 60, 2807-2818.	1.8	10
13	Dietary Choline or Trimethylamine N-oxide Supplementation Does Not Influence Atherosclerosis Development in Ldlr ^{-/-} and Apoe ^{-/-} Male Mice. <i>Journal of Nutrition</i> , 2020, 150, 249-255.	1.3	66
14	Two-Week Isocaloric Time-Restricted Feeding Decreases Liver Inflammation without Significant Weight Loss in Obese Mice with Non-Alcoholic Fatty Liver Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9156.	1.8	11
15	The marine compound and elongation factor 1A1 inhibitor, didemnin B, provides benefit in western diet-induced non-alcoholic fatty liver disease. <i>Pharmacological Research</i> , 2020, 161, 105208.	3.1	8
16	Feeding Buttermilk-Derived Choline Forms During Gestation and Lactation Modulates Ex Vivo T-Cell Response in Rat Dams. <i>Journal of Nutrition</i> , 2020, 150, 1958-1965.	1.3	7
17	Hepatic PEMT activity mediates liver health, weight gain, and insulin resistance. <i>FASEB Journal</i> , 2019, 33, 10986-10995.	0.2	35
18	Late-onset megaconial myopathy in mice lacking group I Paks. <i>Skeletal Muscle</i> , 2019, 9, 5.	1.9	12

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19	Both low- and regular-fat cheeses mediate improved insulin sensitivity and modulate serum phospholipid profiles in insulin-resistant rats. <i>Journal of Nutritional Biochemistry</i> , 2019, 64, 144-151.	1.9	6
20	A role for phosphatidylcholine and phosphatidylethanolamine in hepatic insulin signaling. <i>FASEB Journal</i> , 2019, 33, 5045-5057.	0.2	40
21	Impaired Hepatic Phosphatidylcholine Synthesis Leads to Cholestasis in Mice Challenged With a High-Fat Diet. <i>Hepatology Communications</i> , 2019, 3, 262-276.	2.0	10
22	Vitamin E alleviates non-alcoholic fatty liver disease in phosphatidylethanolamine N-methyltransferase deficient mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 14-25.	1.8	42
23	Response to the Letter to the Editor From Dr. Spence, "Egg Consumption and Cardiovascular Risk". <i>Canadian Journal of Diabetes</i> , 2018, 42, 223.	0.4	0
24	Liver and plasma lipid changes induced by cyclic fatty acid monomers from heated vegetable oil in the rat. <i>Food Science and Nutrition</i> , 2018, 6, 2092-2103.	1.5	3
25	Hepatic Expression of PEMT, but Not Dietary Choline Supplementation, Reverses the Protection against Atherosclerosis in <i>Pemt/Ldlr</i> Mice. <i>Journal of Nutrition</i> , 2018, 148, 1513-1520.	1.3	6
26	Novel protein-lipid composite nanoparticles with an inner aqueous compartment as delivery systems of hydrophilic nutraceutical compounds. <i>Nanoscale</i> , 2018, 10, 10629-10640.	2.8	29
27	Intestinal de novo phosphatidylcholine synthesis is required for dietary lipid absorption and metabolic homeostasis. <i>Journal of Lipid Research</i> , 2018, 59, 1695-1708.	2.0	29
28	Riboflavin Deficiency in Rats Decreases de novo Formate Production but Does Not Affect Plasma Formate Concentration. <i>Journal of Nutrition</i> , 2017, 147, 346-352.	1.3	6
29	Fenofibrate, but not ezetimibe, prevents fatty liver disease in mice lacking phosphatidylethanolamine N-methyltransferase. <i>Journal of Lipid Research</i> , 2017, 58, 656-667.	2.0	18
30	Cystathionine beta-synthase deficiency alters hepatic phospholipid and choline metabolism: Post-translational repression of phosphatidylethanolamine N-methyltransferase is a consequence rather than a cause of liver injury in homocystinuria. <i>Molecular Genetics and Metabolism</i> , 2017, 120, 325-336.	0.5	13
31	The critical role of phosphatidylcholine and phosphatidylethanolamine metabolism in health and disease. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1558-1572.	1.4	804
32	Simultaneous determination of trimethylamine and trimethylamine oxide in mouse plasma samples by hydrophilic interaction liquid chromatography coupled to tandem mass spectrometry. <i>Journal of Separation Science</i> , 2017, 40, 688-696.	1.3	12
33	Impact of Egg Consumption on Cardiovascular Risk Factors in Individuals with Type 2 Diabetes and at Risk for Developing Diabetes: A Systematic Review of Randomized Nutritional Intervention Studies. <i>Canadian Journal of Diabetes</i> , 2017, 41, 453-463.	0.4	38
34	Dietary creatine supplementation lowers hepatic triacylglycerol by increasing lipoprotein secretion in rats fed high-fat diet. <i>Journal of Nutritional Biochemistry</i> , 2017, 50, 46-53.	1.9	19
35	The development of a choline rich cereal based functional food: Effect of processing and storage. <i>LWT - Food Science and Technology</i> , 2017, 75, 447-452.	2.5	7
36	Feeding a Mixture of Choline Forms to Lactating Dams Improves the Development of the Immune System in Sprague-Dawley Rat Offspring. <i>Nutrients</i> , 2017, 9, 567.	1.7	12

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37	Feeding a Mixture of Choline Forms during Lactation Improves Offspring Growth and Maternal Lymphocyte Response to Ex Vivo Immune Challenges. <i>Nutrients</i> , 2017, 9, 713.	1.7	8
38	The Form of Choline in the Maternal Diet Affects Immune Development in Suckled Rat Offspring. <i>Journal of Nutrition</i> , 2016, 146, 823-830.	1.3	36
39	Excess Folic Acid Increases Lipid Storage, Weight Gain, and Adipose Tissue Inflammation in High Fat Diet-Fed Rats. <i>Nutrients</i> , 2016, 8, 594.	1.7	39
40	Pioglitazone attenuates hepatic inflammation and fibrosis in phosphatidylethanolamine N-methyltransferase-deficient mice. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, G526-G538.	1.6	32
41	Androgens Modulate Intestinal Absorption and Synthesis of Lipids Contributing to Impaired Lipid Metabolism in a Rodent Model of Polycystic Ovary Syndrome and Metabolic Syndrome. <i>Canadian Journal of Diabetes</i> , 2016, 40, S32.	0.4	1
42	Feeding a diet devoid of choline to lactating rodents restricts growth and lymphocyte development in offspring. <i>British Journal of Nutrition</i> , 2016, 116, 1001-1012.	1.2	12
43	Treatment with didemnin B, an elongation factor 1A inhibitor, improves hepatic lipotoxicity in obese mice. <i>Physiological Reports</i> , 2016, 4, e12963.	0.7	11
44	Lack of phosphatidylethanolamine N-methyltransferase in mice does not promote fatty acid oxidation in skeletal muscle. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 119-129.	1.2	5
45	Tissue Specific Effects of Dietary Carbohydrates and Obesity on ChREBP ¹ and ChREBP ² Expression. <i>Lipids</i> , 2016, 51, 95-104.	0.7	16
46	Measurement of the total choline content in 48 commercial dairy products or dairy alternatives. <i>Journal of Food Composition and Analysis</i> , 2016, 45, 1-8.	1.9	15
47	Choline is required in the diet of lactating dams to maintain maternal immune function. <i>British Journal of Nutrition</i> , 2015, 113, 1723-1731.	1.2	21
48	Should the forms of dietary choline also be considered when estimating dietary intake and the implications for health?. <i>Lipid Technology</i> , 2015, 27, 227-230.	0.3	18
49	Choline deficiency impairs intestinal lipid metabolism in the lactating rat. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 1077-1083.	1.9	38
50	Vagus nerve contributes to the development of steatohepatitis and obesity in phosphatidylethanolamine N-methyltransferase deficient mice. <i>Journal of Hepatology</i> , 2015, 62, 913-920.	1.8	15
51	Betaine supplementation prevents fatty liver induced by a high-fat diet: effects on one-carbon metabolism. <i>Amino Acids</i> , 2015, 47, 839-846.	1.2	74
52	Functional characterization of enzymes catalyzing ceramide phosphoethanolamine biosynthesis in mice. <i>Journal of Lipid Research</i> , 2015, 56, 821-835.	2.0	39
53	Lack of phosphatidylethanolamine N-methyltransferase alters hepatic phospholipid composition and induces endoplasmic reticulum stress. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 2689-2699.	1.8	38
54	Measurement of the abundance of choline and the distribution of choline-containing moieties in meat. <i>International Journal of Food Sciences and Nutrition</i> , 2015, 66, 743-748.	1.3	11

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55	Differential expression of hypothalamic, metabolic and inflammatory genes in response to short-term calorie restriction in juvenile obese- and lean-prone JCR rats. <i>Nutrition and Diabetes</i> , 2015, 5, e178-e178.	1.5	6
56	Insufficient glucose supply is linked to hypothermia upon cold exposure in high-fat diet-fed mice lacking PEMT. <i>Journal of Lipid Research</i> , 2015, 56, 1701-1710.	2.0	11
57	Decreased lipogenesis in white adipose tissue contributes to the resistance to high fat diet-induced obesity in phosphatidylethanolamine N-methyltransferase-deficient mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 152-162.	1.2	26
58	Estimation of choline intake from 24 h dietary intake recalls and contribution of egg and milk consumption to intake among pregnant and lactating women in Alberta. <i>British Journal of Nutrition</i> , 2014, 112, 112-121.	1.2	69
59	Choline Supplementation Protects against Liver Damage by Normalizing Cholesterol Metabolism in Pemt/Ldlr Knockout Mice Fed a High-Fat Diet. <i>Journal of Nutrition</i> , 2014, 144, 252-257.	1.3	46
60	The Concentration of Phosphatidylethanolamine in Mitochondria Can Modulate ATP Production and Glucose Metabolism in Mice. <i>Diabetes</i> , 2014, 63, 2620-2630.	0.3	80
61	Diets enriched in trans-11 vaccenic acid alleviate ectopic lipid accumulation in a rat model of NAFLD and metabolic syndrome. <i>Journal of Nutritional Biochemistry</i> , 2014, 25, 692-701.	1.9	62
62	Folate, vitamin B ₁₂ , and vitamin B ₆ status of a group of high socioeconomic status women in the Alberta Pregnancy Outcomes and Nutrition (APrON) cohort. <i>Applied Physiology, Nutrition and Metabolism</i> , 2014, 39, 1402-1408.	0.9	34
63	Creatine reduces hepatic TG accumulation in hepatocytes by stimulating fatty acid oxidation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1639-1646.	1.2	35
64	Novel insights on interactions between folate and lipid metabolism. <i>BioFactors</i> , 2014, 40, 277-283.	2.6	149
65	Total Choline and Choline-Containing Moieties of Commercially Available Pulses. <i>Plant Foods for Human Nutrition</i> , 2014, 69, 115-121.	1.4	17
66	Increased hepatic CD36 expression with age is associated with enhanced susceptibility to nonalcoholic fatty liver disease. <i>Aging</i> , 2014, 6, 281-295.	1.4	93
67	Endoplasmic reticulum-localized hepatic lipase decreases triacylglycerol storage and VLDL secretion. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1113-1123.	1.2	12
68	Finding the balance: The role of S-adenosylmethionine and phosphatidylcholine metabolism in development of nonalcoholic fatty liver disease. <i>Hepatology</i> , 2013, 58, 1207-1209.	3.6	48
69	Choline Supplementation Promotes Hepatic Insulin Resistance in Phosphatidylethanolamine N-Methyltransferase-deficient Mice via Increased Glucagon Action. <i>Journal of Biological Chemistry</i> , 2013, 288, 837-847.	1.6	23
70	Impaired phosphatidylcholine biosynthesis does not attenuate liver regeneration after 70% partial hepatectomy in hepatic CTP:phosphocholine cytidyltransferase-deficient mice. <i>Canadian Journal of Physiology and Pharmacology</i> , 2012, 90, 1403-1412.	0.7	3
71	Antimicrobial activity in the egg wax of the tick <i>Amblyomma hebraeum</i> (Acari: Ixodidae) is associated with free fatty acids C16:1 and C18:2. <i>Experimental and Applied Acarology</i> , 2012, 58, 453-470.	0.7	15
72	Validation of an LC-MS/MS method for the quantification of choline-related compounds and phospholipids in foods and tissues. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 911, 170-179.	1.2	68

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73	Choline Deficiency Attenuates Body Weight Gain and Improves Glucose Tolerance in ob/ob Mice. <i>Journal of Obesity</i> , 2012, 2012, 1-7.	1.1	31
74	Hepatic ratio of phosphatidylcholine to phosphatidylethanolamine predicts survival after partial hepatectomy in mice. <i>Hepatology</i> , 2012, 55, 1094-1102.	3.6	77
75	A Conserved SREBP-1/Phosphatidylcholine Feedback Circuit Regulates Lipogenesis in Metazoans. <i>Cell</i> , 2011, 147, 840-852.	13.5	373
76	Phosphatidylcholine protects against steatosis in mice but not non-alcoholic steatohepatitis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 1177-1185.	1.2	52
77	A systematic review on the effect of sweeteners on glycemic response and clinically relevant outcomes. <i>BMC Medicine</i> , 2011, 9, 123.	2.3	89
78	Increased CD36 expression in middle-aged mice contributes to obesity-related cardiac hypertrophy in the absence of cardiac dysfunction. <i>Journal of Molecular Medicine</i> , 2011, 89, 459-469.	1.7	55
79	Creatine Supplementation Prevents the Accumulation of Fat in the Livers of Rats Fed a High-Fat Diet. <i>Journal of Nutrition</i> , 2011, 141, 1799-1804.	1.3	56
80	Interactions between the consumption of a high-fat diet and fasting in the regulation of fatty acid oxidation enzyme gene expression: an evaluation of potential mechanisms. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R212-R221.	0.9	36
81	Tamoxifen induces triacylglycerol accumulation in the mouse liver by activation of fatty acid synthesis. <i>Hepatology</i> , 2010, 52, 1258-1265.	3.6	95
82	Alterations in Skeletal Muscle Fatty Acid Handling Predisposes Middle-Aged Mice to Diet-Induced Insulin Resistance. <i>Diabetes</i> , 2010, 59, 1366-1375.	0.3	60
83	Impaired de Novo Choline Synthesis Explains Why Phosphatidylethanolamine N-Methyltransferase-deficient Mice Are Protected from Diet-induced Obesity. <i>Journal of Biological Chemistry</i> , 2010, 285, 22403-22413.	1.6	168
84	Lack of Phosphatidylethanolamine N-Methyltransferase Alters Plasma VLDL Phospholipids and Attenuates Atherosclerosis in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1349-1355.	1.1	69
85	Hepatic CTP:Phosphocholine Cytidyltransferase-1 Is a Critical Predictor of Plasma High Density Lipoprotein and Very Low Density Lipoprotein. <i>Journal of Biological Chemistry</i> , 2008, 283, 2147-2155.	1.6	71
86	Adenovirus mediated alteration of phosphatidylethanolamine N-methyltransferase expression in vivo. <i>FASEB Journal</i> , 2008, 22, 807.25.	0.2	0
87	Inhibition of Hepatic Phosphatidylcholine Synthesis by 5-Aminoimidazole-4-carboxamide-1- β -D-ribofuranoside Is Independent of AMP-activated Protein Kinase Activation. <i>Journal of Biological Chemistry</i> , 2007, 282, 4516-4523.	1.6	51
88	Hepatic Phosphatidylethanolamine N-Methyltransferase, Unexpected Roles in Animal Biochemistry and Physiology. <i>Journal of Biological Chemistry</i> , 2007, 282, 33237-33241.	1.6	63
89	Increased Hepatic CD36 Expression Contributes to Dyslipidemia Associated With Diet-Induced Obesity. <i>Diabetes</i> , 2007, 56, 2863-2871.	0.3	395
90	Methyl balance and transmethylation fluxes in humans. <i>American Journal of Clinical Nutrition</i> , 2007, 85, 19-25.	2.2	161

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91	Hepatic Phosphatidylethanolamine N-Methyltransferase Expression Is Increased in Diabetic Rats. <i>Journal of Nutrition</i> , 2006, 136, 3005-3009.	1.3	27
92	Is it time to reevaluate methyl balance in humans?. <i>American Journal of Clinical Nutrition</i> , 2006, 83, 5-10.	2.2	247
93	Liver-specific phosphocholine cytidyltransferase \pm knockout mice develop insulin resistance despite having lower plasma lipid levels. <i>FASEB Journal</i> , 2006, 20, A87.	0.2	0
94	Inhibition of hepatic phosphatidylcholine synthesis by AICAR and phenformin is independent of AMP-activated protein kinase (AMPK) activation.. <i>FASEB Journal</i> , 2006, 20, A91.	0.2	0
95	Physiological Regulation of Phospholipid Methylation Alters Plasma Homocysteine in Mice. <i>Journal of Biological Chemistry</i> , 2005, 280, 28299-28305.	1.6	85
96	Targeted Deletion of Hepatic CTP:phosphocholine Cytidyltransferase \pm in Mice Decreases Plasma High Density and Very Low Density Lipoproteins. <i>Journal of Biological Chemistry</i> , 2004, 279, 47402-47410.	1.6	154
97	Methylation demand and homocysteine metabolism. <i>Advances in Enzyme Regulation</i> , 2004, 44, 321-333.	2.9	39
98	Hormonal Regulation of Cystathionine β -Synthase Expression in Liver. <i>Journal of Biological Chemistry</i> , 2002, 277, 42912-42918.	1.6	126
99	Methylation demand and homocysteine metabolism: effects of dietary provision of creatine and guanidinoacetate. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E1095-E1100.	1.8	149
100	Hyperglucagonemia in Rats Results in Decreased Plasma Homocysteine and Increased Flux through the Transsulfuration Pathway in Liver. <i>Journal of Biological Chemistry</i> , 2001, 276, 43740-43747.	1.6	53
101	Regulation of homocysteine metabolism. <i>Advances in Enzyme Regulation</i> , 1999, 39, 69-91.	2.9	70
102	Effects of streptozotocin-induced diabetes and of insulin treatment on homocysteine metabolism in the rat. <i>Diabetes</i> , 1998, 47, 1967-1970.	0.3	170