Grant M Hatch

List of Publications by Year
in descending order

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117	4,377	87888	123424
papers	citations	38 h-index	61 g-index

126	126	126	5957
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adiponectin deficiency induces hepatic steatosis during pregnancy and gestational diabetes in mice. Diabetologia, 2022, 65, 733-747.	6.3	11
2	Altered cardiolipin metabolism is associated with cardiac mitochondrial dysfunction in pulmonary vascular remodeled perinatal rat pups. PLoS ONE, 2022, 17, e0263520.	2.5	2
3	Impaired surface marker expression in stimulated Epstein-Barr virus transformed lymphoblasts from Barth Syndrome patients. Scientific Reports, 2022, 12, 6195.	3.3	2
4	Tafazzin deficiency in mouse mesenchymal stem cells promote reprogramming of activated B lymphocytes toward immunosuppressive phenotypes. FASEB Journal, 2022, 36, .	0.5	3
5	Supplemental Berberine in a High-Fat Diet Reduces Adiposity and Cardiac Dysfunction in Offspring of Mouse Dams with Gestational Diabetes Mellitus. Journal of Nutrition, 2021, 151, 892-901.	2.9	7
6	Tafazzin Deficiency Reduces Basal Insulin Secretion and Mitochondrial Function in Pancreatic Islets From Male Mice. Endocrinology, 2021, 162, .	2.8	10
7	Berberine elevates cardiolipin in heart of offspring from mouse dams with high fat diet-induced gestational diabetes mellitus. Scientific Reports, 2021, 11, 15770.	3.3	7
8	Barth syndrome: cardiolipin, cellular pathophysiology, management, and novel therapeutic targets. Molecular and Cellular Biochemistry, 2021, 476, 1605-1629.	3.1	34
9	The Phosphoenolpyruvate Carboxykinase Is a Key Metabolic Enzyme and Critical Virulence Factor of Leishmania major. Journal of Immunology, 2021, 206, 1013-1026.	0.8	3
10	Tafazzin deficiency impairs mitochondrial metabolism and function of lipopolysaccharide activated B lymphocytes in mice. FASEB Journal, 2021, 35, e22023.	0.5	8
11	Editorial: Mitochondrial Disorders: Biochemical and Molecular Basis of Disease. Frontiers in Genetics, 2021, 12, 769770.	2.3	0
12	Simvastatin increases temozolomideâ€induced cell death by targeting the fusion of autophagosomes and lysosomes. FEBS Journal, 2020, 287, 1005-1034.	4.7	84
13	Highly bioavailable Berberine formulation improves Glucocorticoid Receptor-mediated Insulin Resistance via reduction in association of the Glucocorticoid Receptor with phosphatidylinositol-3-kinase. International Journal of Biological Sciences, 2020, 16, 2527-2541.	6.4	9
14	Cardiolipin deficiency elevates susceptibility to a lipotoxic hypertrophic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2020, 144, 24-34.	1.9	25
15	Mitochondrial Respiration Correlates with Prognostic Markers in Chronic Lymphocytic Leukemia and Is Normalized by Ibrutinib Treatment. Cancers, 2020, 12, 650.	3.7	19
16	Misoprostol attenuates neonatal cardiomyocyte proliferation through Bnip3, perinuclear calcium signaling, and inhibition of glycolysis. Journal of Molecular and Cellular Cardiology, 2020, 146, 19-31.	1.9	11
17	A Phytosterolemic Mixture of Sterols Inhibits Cholesterol Synthesis, Esterification, and Lowâ€Ðensity Lipoprotein Receptor mRNA Abundance in HepG2 Cells. Lipids, 2020, 55, 193-198.	1.7	2
18	Gestational Diabetes Adversely Affects Pancreatic Islet Architecture and Function in the Male Rat Offspring. Endocrinology, 2019, 160, 1907-1925.	2.8	21

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19	Maternal resveratrol administration protects against gestational diabetesâ€induced glucose intolerance and islet dysfunction in the rat offspring. Journal of Physiology, 2019, 597, 4175-4192.	2.9	31
20	The relationship between phospholipids and insulin resistance: From clinical to experimental studies. Journal of Cellular and Molecular Medicine, 2019, 23, 702-710.	3.6	66
21	<scp>HMGA</scp>2 as a functional antagonist of <scp>PARP</scp>1 inhibitors in tumor cells. Molecular Oncology, 2019, 13, 153-170.	4.6	19
22	The natural history of phytosterolemia: Observations on its homeostasis. Atherosclerosis, 2018, 269, 122-128.	0.8	13
23	MiR27a Promotes the Development of Macrophage-like Characteristics in 3T3-L1 Preadipocytes. International Journal of Biological Sciences, 2018, 14, 1599-1609.	6.4	5
24	Statins: A New Approach to Combat Temozolomide Chemoresistance in Glioblastoma. Journal of Investigative Medicine, 2018, 66, 1083-1087.	1.6	27
25	Increased Bioavailable Berberine Protects Against Myocardial Ischemia Reperfusion Injury Through Attenuation of NFÎºB and JNK Signaling Pathways. International Heart Journal, 2018, 59, 1378-1388.	1.0	27
26	Expression of human monolysocardiolipin acyltransferase-1 improves mitochondrial function in Barth syndrome lymphoblasts. Journal of Biological Chemistry, 2018, 293, 7564-7577.	3.4	29
27	Adipocyte-Derived Exosomal MiR-27a Induces Insulin Resistance in Skeletal Muscle Through Repression of PPARÎ³. Theranostics, 2018, 8, 2171-2188.	10.0	198
28	Aberrant cardiolipin metabolism is associated with cognitive deficiency and hippocampal alteration in tafazzin knockdown mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3353-3367.	3.8	24
29	Phosphokinome Analysis of Barth Syndrome Lymphoblasts Identify Novel Targets in the Pathophysiology of the Disease. International Journal of Molecular Sciences, 2018, 19, 2026.	4.1	3
30	TAPP Adaptors Control B Cell Metabolism by Modulating the Phosphatidylinositol 3-Kinase Signaling Pathway: A Novel Regulatory Circuit Preventing Autoimmunity. Journal of Immunology, 2018, 201, 406-416.	0.8	43
31	Disentangling oxidation/hydrolysis reactions of brain mitochondrial cardiolipins in pathogenesis of traumatic injury. JCI Insight, 2018, 3, .	5.0	31
32	Inhibition of Autophagy by Mevalonate Pathway Inhibitors, a New Therapeutic Approach to sensitize Glioblastoma Cells to Temozolomide Induced Apoptosis. FASEB Journal, 2018, 32, 533.41.	0.5	2
33	Glucose Uptake and Triacylglycerol Synthesis Are Increased in Barth Syndrome Lymphoblasts. Lipids, 2017, 52, 161-165.	1.7	11
34	Mevalonate Cascade Inhibition by Simvastatin Induces the Intrinsic Apoptosis Pathway via Depletion of Isoprenoids in Tumor Cells. Scientific Reports, 2017, 7, 44841.	3.3	105
35	Berberine Inhibits Oxygen Consumption Rate Independent of Alteration in Cardiolipin Levels in H9c2 Cells. Lipids, 2017, 52, 961-967.	1.7	9
36	EWS-FLI1 confers exquisite sensitivity to NAMPT inhibition in Ewing sarcoma cells. Oncotarget, 2017, 8, 24679-24693.	1.8	20

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37	HNF-4Î± regulated miR-122 contributes to development of gluconeogenesis and lipid metabolism disorders in Type 2 diabetic mice and in palmitate-treated HepG2 cells. European Journal of Pharmacology, 2016, 791, 254-263.	3.5	35
38	Diacylglycerol kinase epsilon suppresses expression of p53 and glycerol kinase in mouse embryo fibroblasts. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1993-1999.	2.4	6
39	Reduction in cardiolipin decreases mitochondrial spare respiratory capacity and increases glucose transport into and across human brain cerebral microvascular endothelial cells. Journal of Neurochemistry, 2016, 139, 68-80.	3.9	19
40	Impaired Cardiolipin Biosynthesis Prevents Hepatic Steatosis and Diet-Induced Obesity. Diabetes, 2016, 65, 3289-3300.	0.6	50
41	Is There Enhanced Risk of Cerebral Ischemic Stroke by Sulfonylureas in Type 2 Diabetes?. Diabetes, 2016, 65, 2479-2481.	0.6	7
42	Mitochondrial phospholipids: role in mitochondrial function. Journal of Bioenergetics and Biomembranes, 2016, 48, 99-112.	2.3	130
43	Reduced cardiolipin content decreases respiratory chain capacities and increases ATP synthesis yield in the human HepaRG cells. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 443-453.	1.0	33
44	Berberine treatment attenuates the palmitate-mediated inhibition of glucose uptake and consumption through increased 1,2,3-triacyl-sn-glycerol synthesis and accumulation in H9c2 cardiomyocytes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 352-362.	2.4	28
45	Pretreatment of rats with increased bioavailable berberine attenuates cerebral ischemia-reperfusion injury via down regulation of adenosine-5â€²monophosphate kinase activity. European Journal of Pharmacology, 2016, 779, 80-90.	3.5	24
46	Berberine Pretreatment Confers Cardioprotection Against Ischemiaâ€“Reperfusion Injury in a Rat Model of Type 2 Diabetes. Journal of Cardiovascular Pharmacology and Therapeutics, 2016, 21, 486-494.	2.0	55
47	Reduced Mitochondrial Function in Human Huntington Disease Lymphoblasts is Not Due to Alterations in Cardiolipin Metabolism or Mitochondrial Supercomplex Assembly. Lipids, 2016, 51, 561-569.	1.7	17
48	Cardiac mitochondrial energy metabolism in heart failure: Role of cardiolipin and sirtuins. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1544-1554.	2.4	62
49	Generation of Bioactive Oxylipins from Exogenously Added Arachidonic, Eicosapentaenoic and Docosahexaenoic Acid in Primary Human Brain Microvessel Endothelial Cells. Lipids, 2016, 51, 591-599.	1.7	39
50	Berberine Attenuates Development of the Hepatic Gluconeogenesis and Lipid Metabolism Disorder in Type 2 Diabetic Mice and in Palmitate-Incubated HepG2 Cells through Suppression of the HNF-4Î± miR122 Pathway. PLoS ONE, 2016, 11, e0152097.	2.5	67
51	Differential reduction in cardiac and liver monolysocardiolipin acyltransferase-1 and reduction in cardiac and liver tetralinoleoyl-cardiolipin in the Î±-subunit of trifunctional protein heterozygous knockout mice. Biochemical Journal, 2015, 471, 123-129.	3.7	14
52	Maternal obesity characterized by gestational diabetes increases the susceptibility of rat offspring to hepatic steatosis via a disrupted liver metabolome. Journal of Physiology, 2015, 593, 3181-3197.	2.9	77
53	Exogenous arachidonic acid mediates permeability of human brain microvessel endothelial cells through prostaglandin E₂ activation of <scp>EP</scp>₃ and <scp>EP</scp>₄ receptors. Journal of Neurochemistry, 2015, 135, 867-879.	3.9	23
54	Fatty Liver and Fatty Heartâ€”Where do They Stand in the AMIS Syndrome?. Healthcare (Switzerland), 2015, 3, 666-682.	2.0	0

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55	Sirtuin-3 (SIRT3) Protein Attenuates Doxorubicin-induced Oxidative Stress and Improves Mitochondrial Respiration in H9c2 Cardiomyocytes. Journal of Biological Chemistry, 2015, 290, 10981-10993.	3.4	142
56	Berberine treatment prevents cardiac dysfunction and remodeling through activation of 5â€²-adenosine monophosphate-activated protein kinase in type 2 diabetic rats and in palmitate-induced hypertrophic H9c2 cells. European Journal of Pharmacology, 2015, 769, 55-63.	3.5	67
57	Regulation of hepatic cardiolipin metabolism by TNFÎ±: Implication in cancer cachexia. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1490-1500.	2.4	28
58	Berberine as a therapy for type 2 diabetes and its complications: From mechanism of action to clinical studies. Biochemistry and Cell Biology, 2015, 93, 479-486.	2.0	123
59	Knockdown of Cardiolipin Synthase in Human Brain Microvessel Endothelial Cells Modulates Blood Brain Barrier Transport Properties. FASEB Journal, 2015, 29, 715.27.	0.5	0
60	Exogenous Arachidonic Acid Mediates Permeability of Human Brain Microvessel Endothelial Cells through Prostaglandin E 2 Activation of EP 3 and EP 4 Receptors. FASEB Journal, 2015, 29, 715.32.	0.5	0
61	Amorphous solid dispersion of berberine with absorption enhancer demonstrates a remarkable hypoglycemic effect via improving its bioavailability. International Journal of Pharmaceutics, 2014, 467, 50-59.	5.2	61
62	Mammalian cardiolipin biosynthesis. Chemistry and Physics of Lipids, 2014, 179, 11-16.	3.2	63
63	The Epigenetic Drug 5-Azacytidine Interferes with Cholesterol and Lipid Metabolism. Journal of Biological Chemistry, 2014, 289, 18736-18751.	3.4	35
64	Compound K protects pancreatic islet cells against apoptosis through inhibition of the AMPK/JNK pathway in type 2 diabetic mice and in MIN6 Î²-cells. Life Sciences, 2014, 107, 42-49.	4.3	46
65	Cardiolipin Metabolism and the Role it Plays in Heart Failure and Mitochondrial Supercomplex Formation. Cardiovascular & Hematological Disorders Drug Targets, 2014, 14, 98-106.	0.7	41
66	Berberine improves insulin resistance in cardiomyocytes via activation of 5â€²-adenosine monophosphate-activated protein kinase. Metabolism: Clinical and Experimental, 2013, 62, 1159-1167.	3.4	87
67	Regulation of Cardiolipin Remodeling in Human Lymphoblasts. FASEB Journal, 2013, 27, 672.1.	0.5	0
68	Dietary linoleate preserves cardiolipin and attenuates mitochondrial dysfunction in the failing rat heart. Cardiovascular Research, 2012, 94, 460-468.	3.8	51
69	Delineating the role of alterations in lipid metabolism to the pathogenesis of inherited skeletal and cardiac muscle disorders. Journal of Lipid Research, 2012, 53, 4-27.	4.2	43
70	Berberine Attenuates Ischemia-Reperfusion Injury Via Regulation of Adenosine-5â€²-monophosphate Kinase Activity in Both Non-ischemic and Ischemic Areas of the Rat Heart. Cardiovascular Drugs and Therapy, 2012, 26, 467-478.	2.6	49
71	Human Trifunctional Protein Alpha Links Cardiolipin Remodeling to Beta-Oxidation. PLoS ONE, 2012, 7, e48628.	2.5	66
72	Fatty acid transport into the brain: Of fatty acid fables and lipid tails. Prostaglandins Leukotrienes and Essential Fatty Acids, 2011, 85, 293-302.	2.2	122

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73	Fatty acid transport protein expression in human brain and potential role in fatty acid transport across human brain microvessel endothelial cells. Journal of Neurochemistry, 2011, 117, no-no.	3.9	203
74	Cardiolipin Synthase-1 mRNA Expression Does Not Correlate with Endogenous Cardiolipin Synthase Enzyme Activity In Vitro and In Vivo in Mammalian Lipopolysaccharide Models of Inflammation. Inflammation, 2011, 34, 247-254.	3.8	7
75	Mifepristone Treatment Results in Differential Regulation of Glycerolipid Biosynthesis in Baby Hamster Kidney Cells Expressing a Mifepristoneâ€inducible ABCA1. Lipids, 2011, 46, 795-804.	1.7	2
76	Persistent pulmonary hypertension results in reduced tetralinoleoyl-cardiolipin and mitochondrial complex II + III during the development of right ventricular hypertrophy in the neonatal pig heart. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1415-H1424.	3.2	23
77	Reduction in cholesterol synthesis in response to serum starvation in lymphoblasts of a patient with Barth syndromeThis paper is one of a selection of papers published in this special issue entitled â€œSecond International Symposium on Recent Advances in Basic, Clinical, and Social Medicineâ€•and has undergone the Journal's usual peer review process.. Biochemistry and Cell Biology, 2010, 88, 595-602.	2.0	13
78	The dynamics of cardiolipin synthesis post-mitochondrial fusion. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1577-1585.	2.6	23
79	THE LINKING OF BETAâ€OXIDATION TO CARDIOLIPIN REMODELING. FASEB Journal, 2010, 24, 694.9.	0.5	0
80	Identification of the Human Mitochondrial Linoleoyl-coenzyme A Monolysocardiolipin Acyltransferase (MLCL AT-1). Journal of Biological Chemistry, 2009, 284, 30360-30371.	3.4	86
81	Cardiolipin biosynthesis and remodeling enzymes are altered during development of heart failure. Journal of Lipid Research, 2009, 50, 1600-1608.	4.2	104
82	Cardiolipin synthesis is required to support human cholesterol biosynthesis from palmitate upon serum removal in Hela cellsThis article is one of a selection of papers published in a special issue celebrating the 125th anniversary of the Faculty of Medicine at the University of Manitoba.. Canadian Journal of Physiology and Pharmacology, 2009, 87, 813-820.	1.4	4
83	Mechanism of the elevation in cardiolipin during HeLa cell entry into the S-phase of the human cell cycle. Biochemical Journal, 2009, 417, 573-582.	3.7	9
84	Characterization of Fatty Acid Transport across Human Brain Microvessel Endothelial Cells (HBMECs). FASEB Journal, 2009, 23, 521.7.	0.5	0
85	Mitochondrial monolysocardiolipin acyltransferase is elevated in the surviving population of H9c2 cardiac myoblast cells exposed to 2-deoxyglucose-induced apoptosis. Biochemistry and Cell Biology, 2008, 86, 11-20.	2.0	18
86	Phospholipid scramblase-3 regulates cardiolipin de novo biosynthesis and its resynthesis in growing HeLa cells. Biochemical Journal, 2007, 401, 103-109.	3.7	58
87	Fatty Acid Transport across Rat Brain Microvessel Endothelial Cells (RBMEC) Requires a Fatty Acid Acceptor. FASEB Journal, 2007, 21, .	0.5	0
88	Cardiolipin metabolism and Barth Syndrome. Progress in Lipid Research, 2006, 45, 91-101.	11.6	136
89	Cloning and characterization of a cDNA encoding human cardiolipin synthase (hCLS1). Journal of Lipid Research, 2006, 47, 1140-1145.	4.2	59
90	On the mechanism of the increase in cardiolipin biosynthesis and resynthesis in hepatocytes during rat liver regeneration. Biochemical Journal, 2005, 386, 137-143.	3.7	9

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91	Complex expression pattern of the Barth syndrome gene product tafazzin in human cell lines and murine tissues. Biochemistry and Cell Biology, 2004, 82, 569-576.	2.0	25
92	Activation of Raf/MEK/ERK/cPLA2 Signaling Pathway Is Essential for Chlamydial Acquisition of Host Glycerophospholipids. Journal of Biological Chemistry, 2004, 279, 9409-9416.	3.4	137
93	Stimulation of cardiac cardiolipin biosynthesis by PPARÎ± activation. Journal of Lipid Research, 2004, 45, 244-252.	4.2	27
94	C. trachomatis-infection accelerates metabolism of phosphatidylcholine derived from low density lipoprotein but does not affect phosphatidylcholine secretion from hepatocytes. BMC Microbiology, 2004, 4, 8.	3.3	6
95	Cell biology of cardiac mitochondrial phospholipids. Biochemistry and Cell Biology, 2004, 82, 99-112.	2.0	105
96	Title is missing!. Molecular and Cellular Biochemistry, 2003, 246, 31-38.	3.1	44
97	Purification and Characterization of Monolysocardiolipin Acyltransferase from Pig Liver Mitochondria. Journal of Biological Chemistry, 2003, 278, 12716-12721.	3.4	69
98	FATP1 channels exogenous FA into 1,2,3-triacyl-sn-glycerol and down-regulates sphingomyelin and cholesterol metabolism in growing 293 cells. Journal of Lipid Research, 2002, 43, 1380-1389.	4.2	70
99	Expression of monolysocardiolipin acyltransferase activity is regulated in concert with the level of cardiolipin and cardiolipin biosynthesis in the mammalian heart. BMC Biochemistry, 2002, 3, 9.	4.4	34
100	AGI-1067. AtheroGenics. Current Opinion in Investigational Drugs, 2002, 3, 433-6.	2.3	1
101	Thyroxine regulation of monolysocardiolipin acyltransferase activity in rat heart. Biochemical Journal, 2000, 346, 403-406.	3.7	29
102	Effects of atorvastatin treatment on the oxidatively modified low density lipoprotein in hyperlipidemic patients. Molecular and Cellular Biochemistry, 2000, 207, 9-17.	3.1	16
103	The effect of fenofibrate treatment on endothelium-dependent relaxation induced by oxidative modified low density lipoprotein from hyperlipidemic patients. Molecular and Cellular Biochemistry, 2000, 207, 123-129.	3.1	13
104	Differential effects of chloroquine on cardiolipin biosynthesis in hepatocytes and H9c2 cardiac cells. Molecular and Cellular Biochemistry, 2000, 207, 115-122.	3.1	5
105	Incorporation of fatty acids into phosphatidylcholine is reduced during storage of human erythrocytes: evidence for distinct lysophosphatidylcholine acyltransferases. Molecular and Cellular Biochemistry, 2000, 213, 137-143.	3.1	15
106	N-Acetylsphingosine stimulates phosphatidylglycerolphosphate synthase activity in H9c2 cardiac cells. Biochemical Journal, 1999, 337, 483-490.	3.7	23
107	Acylation of monolysocardiolipin in rat heart. Journal of Lipid Research, 1999, 40, 1837-1845.	4.2	73
108	Title is missing!. Molecular and Cellular Biochemistry, 1998, 188, 217-223.	3.1	6

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109	Cardiolipin remodeling in a Chinese hamster lung fibroblast cell line deficient in oxidative energy production. Journal of Bioenergetics and Biomembranes, 1997, 29, 291-298.	2.3	12
110	Regulation of cardiolipin biosynthesis in the heart. Molecular and Cellular Biochemistry, 1996, 159, 139-148.	3.1	46
111	Regulation of Cardiolipin Biosynthesis in H9c2 Cardiac Myoblasts by Cytidine 5â€²-Triphosphate. Journal of Biological Chemistry, 1996, 271, 25810-25816.	3.4	86
112	Inhibition of cardiolipin biosynthesis in the hypoxic rat heart. Lipids, 1995, 30, 513-519.	1.7	24
113	Stimulation of phosphatidylglycerolphosphate phosphatase activity by unsaturated fatty acids in rat heart. Lipids, 1994, 29, 475-480.	1.7	16
114	Effects of okadaic acid on the activities of two distinct phosphatidate phosphohydrolases in rat hepatocytes. FEBS Letters, 1992, 301, 103-106.	2.8	50
115	The protein phosphatase inhibitor, okadaic acid, inhibits phosphatidylcholine biosynthesis in isolated rat hepatocytes. Lipids and Lipid Metabolism, 1991, 1081, 25-32.	2.6	32
116	Effect of diethyl ether on phosphatidylcholine biosynthesis in hamster organs. Lipids, 1988, 23, 656-659.	1.7	2
117	Phosphocholine phosphatase and alkaline phosphatase are different enzymes in hamster heart. Lipids, 1987, 22, 672-676.	1.7	16