

Christopher R McMaster

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7574733/publications.pdf>

Version: 2024-02-01

95
papers

6,768
citations

94269

37
h-index

62479

80
g-index

99
all docs

99
docs citations

99
times ranked

13513
citing authors

#	ARTICLE	IF	CITATIONS
1	A mouse model of inherited choline kinase β -deficiency presents with specific cardiac abnormalities and a predisposition to arrhythmia. <i>Journal of Biological Chemistry</i> , 2022, 298, 101716.	1.6	4
2	Bi-allelic variants in <i>CHKA</i> cause a neurodevelopmental disorder with epilepsy and microcephaly. <i>Brain</i> , 2022, 145, 1916-1923.	3.7	3
3	Mechanism of action and therapeutic route for a muscular dystrophy caused by a genetic defect in lipid metabolism. <i>Nature Communications</i> , 2022, 13, 1559.	5.8	9
4	Choline kinase inhibition promotes ER-phagy. <i>Journal of Lipid Research</i> , 2022, 63, 100213.	2.0	0
5	Defective phosphatidylethanolamine biosynthesis leads to a broad ataxia-spasticity spectrum. <i>Brain</i> , 2021, 144, e30-e30.	3.7	12
6	Genetic analysis of <i>Pycr1</i> and <i>Pycr2</i> in mice. <i>Genetics</i> , 2021, 218, .	1.2	6
7	Genetic diseases of the Kennedy pathways for membrane synthesis. <i>Journal of Biological Chemistry</i> , 2020, 295, 17877-17886.	1.6	35
8	Barriers and Considerations for Diagnosing Rare Diseases in Indigenous Populations. <i>Frontiers in Pediatrics</i> , 2020, 8, 579924.	0.9	25
9	The Canadian Rare Diseases Models and Mechanisms (RDMM) Network: Connecting Understudied Genes to Model Organisms. <i>American Journal of Human Genetics</i> , 2020, 106, 143-152.	2.6	30
10	Frizzled 4 regulates ventral blood vessel remodeling in the zebrafish retina. <i>Developmental Dynamics</i> , 2019, 248, 1243-1256.	0.8	8
11	How Surrogate and Chemical Genetics in Model Organisms Can Suggest Therapies for Human Genetic Diseases. <i>Genetics</i> , 2018, 208, 833-851.	1.2	16
12	From yeast to humans – roles of the Kennedy pathway for phosphatidylcholine synthesis. <i>FEBS Letters</i> , 2018, 592, 1256-1272.	1.3	69
13	Optimized knock-in of point mutations in zebrafish using CRISPR/Cas9. <i>Nucleic Acids Research</i> , 2018, 46, e102-e102.	6.5	50
14	SLC25 Family Member Genetic Interactions Identify a Role for <i>HEM25</i> in Yeast Electron Transport Chain Stability. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 1861-1873.	0.8	5
15	A mutation of <i>EPT1 (SELENOI)</i> underlies a new disorder of Kennedy pathway phospholipid biosynthesis. <i>Brain</i> , 2017, 140, aww318.	3.7	58
16	Lipid synthesis and membrane contact sites: a crossroads for cellular physiology. <i>Journal of Lipid Research</i> , 2016, 57, 1789-1805.	2.0	31
17	Study of Glycine and Folic Acid Supplementation to Ameliorate Transfusion Dependence in Congenital SLC25A38 Mutated Sideroblastic Anemia. <i>Pediatric Blood and Cancer</i> , 2016, 63, 1307-1309.	0.8	15
18	Glycine and Folate Ameliorate Models of Congenital Sideroblastic Anemia. <i>PLoS Genetics</i> , 2016, 12, e1005783.	1.5	51

#	ARTICLE	IF	CITATIONS
19	Fzd4 Haploinsufficiency Delays Retinal Revascularization in the Mouse Model of Oxygen Induced Retinopathy. PLoS ONE, 2016, 11, e0158320.	1.1	7
20	Stability of Attitudes to the Ethical Issues Raised by the Return of Incidental Genomic Research Findings in Children: A Follow-Up Study. Public Health Genomics, 2015, 18, 299-308.	0.6	11
21	The Mitochondrial Quality Control Protein Yme1 Is Necessary to Prevent Defective Mitophagy in a Yeast Model of Barth Syndrome. Journal of Biological Chemistry, 2015, 290, 9284-9298.	1.6	23
22	Cardiolipin metabolism and its causal role in the etiology of the inherited cardiomyopathy Barth syndrome. Chemistry and Physics of Lipids, 2015, 193, 1-10.	1.5	56
23	Germline Mutations in MAP3K6 Are Associated with Familial Gastric Cancer. PLoS Genetics, 2014, 10, e1004669.	1.5	57
24	Attitudes of parents toward the return of targeted and incidental genomic research findings in children. Genetics in Medicine, 2014, 16, 633-640.	1.1	82
25	Mitochondrial damage and cholesterol storage in human hepatocellular carcinoma cells with silencing of UBIAD1 gene expression. Molecular Genetics and Metabolism Reports, 2014, 1, 407-411.	0.4	9
26	Phenotypic Overlap Between Familial Exudative Vitreoretinopathy and Microcephaly, Lymphedema, and Chorioretinal Dysplasia Caused by <i>KIF11</i> Mutations. JAMA Ophthalmology, 2014, 132, 1393.	1.4	95
27	A novel rearrangement of occludin causes brain calcification and renal dysfunction. Human Genetics, 2013, 132, 1223-1234.	1.8	24
28	Drug Uptake, Lipid Rafts, and Vesicle Trafficking Modulate Resistance to an Anticancer Lysophosphatidylcholine Analogue in Yeast. Journal of Biological Chemistry, 2013, 288, 8405-8418.	1.6	41
29	Alteration of Plasma Membrane Organization by an Anticancer Lysophosphatidylcholine Analogue Induces Intracellular Acidification and Internalization of Plasma Membrane Transporters in Yeast. Journal of Biological Chemistry, 2013, 288, 8419-8432.	1.6	32
30	Choline Transport Activity Regulates Phosphatidylcholine Synthesis through Choline Transporter Hnm1 Stability. Journal of Biological Chemistry, 2013, 288, 36106-36115.	1.6	11
31	Localization of Lipid Raft Proteins to the Plasma Membrane Is a Major Function of the Phospholipid Transfer Protein Sec14. PLoS ONE, 2013, 8, e55388.	1.1	12
32	The Yeast Oxysterol Binding Protein Kes1 Maintains Sphingolipid Levels. PLoS ONE, 2013, 8, e60485.	1.1	14
33	A Detour for Yeast Oxysterol Binding Proteins. Journal of Biological Chemistry, 2012, 287, 11481-11488.	1.6	64
34	A generalizable pre-clinical research approach for orphan disease therapy. Orphanet Journal of Rare Diseases, 2012, 7, 39.	1.2	32
35	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
36	Glycine Supplementation â€œ A Novel Therapeutic Strategy for Congenital Sideroblastic Anemia.. Blood, 2012, 120, 2087-2087.	0.6	2

#	ARTICLE	IF	CITATIONS
37	Lipid Binding Requirements for Oxysterol-binding Protein Kes1 Inhibition of Autophagy and Endosome-trans-Golgi Trafficking Pathways*. <i>Journal of Biological Chemistry</i> , 2010, 285, 33875-33884.	1.6	29
38	Surprising roles for phospholipid binding proteins revealed by high throughput geneticsThis paper is one of a selection of papers published in this special issue entitled "Second International Symposium on Recent Advances in Basic, Clinical, and Social Medicine" and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2010, 88, 565-574.	0.9	9
39	NTE1-encoded Phosphatidylcholine Phospholipase B Regulates Transcription of Phospholipid Biosynthetic Genes. <i>Journal of Biological Chemistry</i> , 2009, 284, 36034-36046.	1.6	35
40	Phospholipid Transfer Protein Sec14 Is Required for Trafficking from Endosomes and Regulates Distinct trans-Golgi Export Pathways. <i>Journal of Biological Chemistry</i> , 2009, 284, 7364-7375.	1.6	60
41	The Kap60-Kap95 Karyopherin Complex Directly Regulates Phosphatidylcholine Synthesis. <i>Journal of Biological Chemistry</i> , 2009, 284, 7376-7384.	1.6	17
42	Emerging roles of the oxysterol-binding protein family in metabolism, transport, and signaling. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 228-236.	2.4	67
43	Tryptophan fluorescence reveals induced folding of <i>Vibrio harveyi</i> acyl carrier protein upon interaction with partner enzymes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1835-1843.	1.1	7
44	Structure and function of the enigmatic Sec14 domain-containing proteins and the etiology of human disease. <i>Future Lipidology</i> , 2008, 3, 399-410.	0.5	19
45	Neutralization of Acidic Residues in Helix II Stabilizes the Folded Conformation of Acyl Carrier Protein and Variably Alters Its Function with Different Enzymes. <i>Journal of Biological Chemistry</i> , 2007, 282, 4494-4503.	1.6	31
46	A Chemogenomic Screen in <i>Saccharomyces cerevisiae</i> Uncovers a Primary Role for the Mitochondria in Farnesol Toxicity and Its Regulation by the Pkc1 Pathway. <i>Journal of Biological Chemistry</i> , 2007, 282, 4868-4874.	1.6	60
47	Regulation of Phosphoinositide Levels by the Phospholipid Transfer Protein Sec14p Controls Cdc42p/p21-Activated Kinase-Mediated Cell Cycle Progression at Cytokinesis. <i>Eukaryotic Cell</i> , 2007, 6, 1814-1823.	3.4	10
48	The oxysterol binding protein Kes1p regulates Golgi apparatus phosphatidylinositol-4-phosphate function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15352-15357.	3.3	95
49	Phosphatidylcholine synthesis and its catabolism by yeast neuropathy target esterase 1. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007, 1771, 331-336.	1.2	31
50	Identification of novel phospholipid binding proteins in <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2006, 580, 82-86.	1.3	9
51	Regulation of phosphatidylcholine homeostasis by Sec14This paper is one of a selection of papers published in this Special Issue, entitled Young Investigator's Forum.. <i>Canadian Journal of Physiology and Pharmacology</i> , 2006, 84, 29-38.	0.7	25
52	Synthetic Genetic Array (SGA) analysis of sec14 cki1 identifies a downstream role for the Golgi specific TRAPP II-Rab/Ypt31 signaling cascade.. <i>FASEB Journal</i> , 2006, 20, A951.	0.2	0
53	Identification and assessment of the role of a nominal phospholipid binding region of ORP1S (oxysterol-binding-protein-related protein 1 short) in the regulation of vesicular transport. <i>Biochemical Journal</i> , 2005, 387, 889-896.	1.7	30
54	Enhanced apoptosis through farnesol inhibition of phospholipase C β signal transduction. <i>FEBS Journal</i> , 2005, 272, 5056-5063.	2.2	17

#	ARTICLE	IF	CITATIONS
55	CXCR3 is required for migration to dermal inflammation by normal and in vivo activated T _H 1 cells: differential requirements by CD4 and CD8 memory subsets. <i>European Journal of Immunology</i> , 2005, 35, 1702-1711.	1.6	49
56	Expression of MARCKS Effector Domain Mutants Alters Phospholipase D Activity and Cytoskeletal Morphology of SK-N-MC Neuroblastoma Cells. <i>Neurochemical Research</i> , 2005, 30, 1353-1364.	1.6	6
57	Membrane metabolism mediated by Sec14 family members influences Arf GTPase activating protein activity for transport from the trans-Golgi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12777-12782.	3.3	23
58	Glycerophosphocholine Catabolism as a New Route for Choline Formation for Phosphatidylcholine Synthesis by the Kennedy Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 38290-38296.	1.6	68
59	The roles of the human lipid-binding proteins ORP9S and ORP10S in vesicular transport. <i>Biochemistry and Cell Biology</i> , 2005, 83, 631-636.	0.9	20
60	Nte1p-mediated Deacylation of Phosphatidylcholine Functionally Interacts with Sec14p. <i>Journal of Biological Chemistry</i> , 2005, 280, 8544-8552.	1.6	43
61	Cytotoxicity of an Anti-cancer Lysophospholipid through Selective Modification of Lipid Raft Composition. <i>Journal of Biological Chemistry</i> , 2005, 280, 38047-38058.	1.6	78
62	The phospholipid scramblase PLSCR1 increases UV induced apoptosis primarily through the augmentation of the intrinsic apoptotic pathway and independent of direct phosphorylation by protein kinase C δ . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1733, 199-209.	1.2	21
63	Studying phospholipid metabolism using yeast systematic and chemical genetics. <i>Methods</i> , 2005, 36, 102-108.	1.9	9
64	Resistance to UV-induced apoptosis in Chinese-hamster ovary cells overexpressing phosphatidylserine synthases. <i>Biochemical Journal</i> , 2004, 381, 609-618.	1.7	16
65	Induction of protein kinase C substrates, Myristoylated alanine-rich C kinase substrate (MARCKS) and MARCKS-related protein (MRP), by amyloid β -protein in mouse BV-2 microglial cells. <i>Neuroscience Letters</i> , 2003, 347, 9-12.	1.0	10
66	Stimulation of Phosphatidylserine Biosynthesis and Facilitation of UV-induced Apoptosis in Chinese Hamster Ovary Cells Overexpressing Phospholipid Scramblase 1. <i>Journal of Biological Chemistry</i> , 2003, 278, 9706-9714.	1.6	46
67	Vesicle-associated Membrane Protein-associated Protein-A (VAP-A) Interacts with the Oxysterol-binding Protein to Modify Export from the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2002, 277, 29908-29918.	1.6	220
68	Cessation of Growth to Prevent Cell Death Due to Inhibition of Phosphatidylcholine Synthesis Is Impaired at 37 °C in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 44100-44107.	1.6	31
69	Differential Partitioning of Lipids Metabolized by Separate Yeast Glycerol-3-phosphate Acyltransferases Reveals That Phospholipase D Generation of Phosphatidic Acid Mediates Sensitivity to Choline-containing Lysolipids and Drugs. <i>Journal of Biological Chemistry</i> , 2002, 277, 39035-39044.	1.6	75
70	The Major Sites of Cellular Phospholipid Synthesis and Molecular Determinants of Fatty Acid and Lipid Head Group Specificity. <i>Molecular Biology of the Cell</i> , 2002, 13, 3148-3161.	0.9	184
71	Chapter 7 Fatty acid desaturation and chain elongation in eukaryotes. <i>New Comprehensive Biochemistry</i> , 2002, 36, 181-204.	0.1	71
72	PC and PE synthesis: Mixed micellar analysis of the cholinephosphotransferase and ethanolaminephosphotransferase activities of human choline/ethanolamine phosphotransferase 1 (CEPT1). <i>Lipids</i> , 2002, 37, 663-672.	0.7	46

#	ARTICLE	IF	CITATIONS
73	Phospholipid synthesis, diacylglycerol compartmentation, and apoptosis. <i>Biological Research</i> , 2002, 35, 223-9.	1.5	24
74	Lipid metabolism and vesicle trafficking: More than just greasing the transport machinery. <i>Biochemistry and Cell Biology</i> , 2001, 79, 681-692.	0.9	72
75	Regulation of vesicle trafficking, transcription, and meiosis: lessons learned from yeast regarding the disparate biologies of phosphatidylcholine. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2001, 1534, 65-77.	1.2	28
76	Phosphatidylcholine Synthesis Influences the Diacylglycerol Homeostasis Required for Sec14p-dependent Golgi Function and Cell Growth. <i>Molecular Biology of the Cell</i> , 2001, 12, 511-520.	0.9	65
77	Novel Members of the Human Oxysterol-binding Protein Family Bind Phospholipids and Regulate Vesicle Transport. <i>Journal of Biological Chemistry</i> , 2001, 276, 18407-18414.	1.6	85
78	Uncoupling Farnesol-induced Apoptosis from Its Inhibition of Phosphatidylcholine Synthesis. <i>Journal of Biological Chemistry</i> , 2001, 276, 25254-25261.	1.6	49
79	Cloning, Genomic Organization, and Characterization of a Human Cholinephosphotransferase. <i>Journal of Biological Chemistry</i> , 2000, 275, 29808-29815.	1.6	101
80	Preferential externalization of newly synthesized phosphatidylserine in apoptotic U937 cells is dependent on caspase-mediated pathways. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2000, 1487, 296-308.	1.2	30
81	Cloning and expression of a human choline/ethanolaminephosphotransferase: synthesis of phosphatidylcholine and phosphatidylethanolamine. <i>Biochemical Journal</i> , 1999, 339, 291-298.	1.7	114
82	Cloning and expression of a human choline/ethanolaminephosphotransferase: synthesis of phosphatidylcholine and phosphatidylethanolamine. <i>Biochemical Journal</i> , 1999, 339, 291.	1.7	39
83	Lysophosphatidylcholine acyltransferase activity in <i>Saccharomyces cerevisiae</i> : Regulation by a high-affinity Zn ²⁺ binding site. <i>Lipids</i> , 1998, 33, 1229-1234.	0.7	23
84	Scanning Alanine Mutagenesis of the CDP-alcohol Phosphotransferase Motif of <i>Saccharomyces cerevisiae</i> Cholinephosphotransferase. <i>Journal of Biological Chemistry</i> , 1998, 273, 13482-13487.	1.6	80
85	CDP-choline:1,2-diacylglycerol cholinephosphotransferase. <i>Lipids and Lipid Metabolism</i> , 1997, 1348, 100-110.	2.6	73
86	CDP-ethanolamine:1,2-diacylglycerol ethanolaminephosphotransferase. <i>Lipids and Lipid Metabolism</i> , 1997, 1348, 117-123.	2.6	31
87	Phospholipid and cation activation of chimaeric choline/ethanolamine phosphotransferases. <i>Biochemical Journal</i> , 1996, 313, 729-735.	1.7	24
88	Activation of mouse sperm phosphatidylinositol-4,5 bisphosphate-phospholipase C by zona pellucida is modulated by tyrosine phosphorylation. <i>Molecular Reproduction and Development</i> , 1996, 43, 196-204.	1.0	88
89	Regulation of Phospholipid Biosynthesis in <i>Saccharomyces cerevisiae</i> by CTP. <i>Journal of Biological Chemistry</i> , 1995, 270, 18774-18780.	1.6	62
90	[9] 1-Alkyl- and 1-alkenylglycerophosphocholine acyltransferases. <i>Methods in Enzymology</i> , 1992, 209, 86-92.	0.4	6

#	ARTICLE	IF	CITATIONS
91	Newly imported ethanolamine is preferentially utilized for phosphatidylethanolamine biosynthesis in the hamster heart. <i>Lipids and Lipid Metabolism</i> , 1992, 1124, 13-16.	2.6	19
92	The existence of a soluble plasmalogenase in guinea pig tissues. <i>Lipids</i> , 1992, 27, 945-949.	0.7	9
93	The determination of tissue ethanolamine levels by reverse-phase high-performance liquid chromatography. <i>Lipids</i> , 1992, 27, 560-563.	0.7	0
94	Modulation of phosphatidylethanolamine biosynthesis by exogenous ethanolamine and analogues in the hamster heart. <i>Molecular and Cellular Biochemistry</i> , 1992, 116, 69-73.	1.4	6
95	The effect of methyl lidocaine on lysophospholipid metabolism in hamster heart. <i>Biochemistry and Cell Biology</i> , 1990, 68, 745-750.	0.9	9