# Christopher R Mcmaster

List of Publications by Year
in descending order



| 95 | 6,768 | 94269 37 | 62479 80 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 99 | 99 | 99 | 13513 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544. | 4.3 | 3,122 |
| 2 | Vesicle-associated Membrane Protein-associated Protein-A (VAP-A) Interacts with the Oxysterol-binding Protein to Modify Export from the Endoplasmic Reticulum. Journal of Biological Chemistry, 2002, 277, 29908-29918. | 1.6 | 220 |
| 3 | The Major Sites of Cellular Phospholipid Synthesis and Molecular Determinants of Fatty Acid and Lipid Head Group Specificity. Molecular Biology of the Cell, 2002, 13, 3148-3161. | 0.9 | 184 |
| 4 | Cloning and expression of a human choline/ethanolaminephosphotransferase: synthesis of phosphatidylcholine and phosphatidylethanolamine. Biochemical Journal, 1999, 339, 291-298. | 1.7 | 114 |
| 5 | Cloning, Genomic Organization, and Characterization of a Human Cholinephosphotransferase. Journal of Biological Chemistry, 2000, 275, 29808-29815. | 1.6 | 101 |
| 6 | The oxysterol binding protein Kes1p regulates Golgi apparatus phosphatidylinositol-4-phosphate function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15352-15357. | 3.3 | 95 |
| 7 | Phenotypic Overlap Between Familial Exudative Vitreoretinopathy and Microcephaly, Lymphedema, and Chorioretinal Dysplasia Caused byKIF11Mutations. JAMA Ophthalmology, 2014, 132, 1393. | 1.4 | 95 |
| 8 | Activation of mouse sperm phosphatidylinositol-4,5 bisphosphate-phospholipase C by zona pellucida is modulated by tyrosine phosphorylation. Molecular Reproduction and Development, 1996, 43, 196-204. | 1.0 | 88 |
| 9 | Novel Members of the Human Oxysterol-binding Protein Family Bind Phospholipids and Regulate Vesicle Transport. Journal of Biological Chemistry, 2001, 276, 18407-18414. | 1.6 | 85 |
| 10 | 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 |
| 11 | Scanning Alanine Mutagenesis of the CDP-alcohol Phosphotransferase Motif of Saccharomyces cerevisiaeCholinephosphotransferase. Journal of Biological Chemistry, 1998, 273, 13482-13487. | 1.6 | 80 |
| 12 | Cytotoxicity of an Anti-cancer Lysophospholipid through Selective Modification of Lipid Raft Composition. Journal of Biological Chemistry, 2005, 280, 38047-38058. | 1.6 | 78 |
| 13 | 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. Journal of Biological Chemistry, 2002, 277, 39035-39044. | 1.6 | 75 |
| 14 | CDP-choline:1,2-diacylglycerol cholinephosphotransferase. Lipids and Lipid Metabolism, 1997, 1348, 100-110. | 2.6 | 73 |
| 15 | Lipid metabolism and vesicle trafficking: More than just greasing the transport machinery. Biochemistry and Cell Biology, 2001, 79, 681-692. | 0.9 | 72 |
| 16 | Chapter 7 Fatty acid desaturation and chain elongation in eukaryotes. New Comprehensive Biochemistry, 2002, 36, 181-204. | 0.1 | 71 |
| 17 | From yeast to humans â€“ roles of the Kennedy pathway for phosphatidylcholine synthesis. FEBS Letters, 2018, 592, 1256-1272. | 1.3 | 69 |
| 18 | Glycerophosphocholine Catabolism as a New Route for Choline Formation for Phosphatidylcholine Synthesis by the Kennedy Pathway. Journal of Biological Chemistry, 2005, 280, 38290-38296. | 1.6 | 68 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Emerging roles of the oxysterol-binding protein family in metabolism, transport, and signaling. Cellular and Molecular Life Sciences, 2008, 65, 228-236. | 2.4 | 67 |
| 20 | Phosphatidylcholine Synthesis Influences the Diacylglycerol Homeostasis Required for Sec14p-dependent Golgi Function and Cell Growth. Molecular Biology of the Cell, 2001, 12, 511-520. | 0.9 | 65 |
| 21 | A Detour for Yeast Oxysterol Binding Proteins. Journal of Biological Chemistry, 2012, 287, 11481-11488. | 1.6 | 64 |
| 22 | Regulation of Phospholipid Biosynthesis in Saccharomyces cerevisiae by CTP. Journal of Biological Chemistry, 1995, 270, 18774-18780. | 1.6 | 62 |
| 23 | A Chemogenomic Screen in Saccharomyces cerevisiae Uncovers a Primary Role for the Mitochondria in Farnesol Toxicity and Its Regulation by the Pkc1 Pathway. Journal of Biological Chemistry, 2007, 282, 4868-4874. | 1.6 | 60 |
| 24 | Phospholipid Transfer Protein Sec14 Is Required for Trafficking from Endosomes and Regulates Distinct trans-Golgi Export Pathways. Journal of Biological Chemistry, 2009, 284, 7364-7375. | 1.6 | 60 |
| 25 | A mutation ofEPT1 (SELENOI)underlies a new disorder of Kennedy pathway phospholipid biosynthesis. Brain, 2017, 140, aww318. | 3.7 | 58 |
| 26 | Germline Mutations in MAP3K6 Are Associated with Familial Gastric Cancer. PLoS Genetics, 2014, 10, e1004669. | 1.5 | 57 |
| 27 | 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 |
| 28 | Glycine and Folate Ameliorate Models of Congenital Sideroblastic Anemia. PLoS Genetics, 2016, 12, e1005783. | 1.5 | 51 |
| 29 | Optimized knock-in of point mutations in zebrafish using CRISPR/Cas9. Nucleic Acids Research, 2018, 46, e102-e102. | 6.5 | 50 |
| 30 | Uncoupling Farnesol-induced Apoptosis from Its Inhibition of Phosphatidylcholine Synthesis. Journal of Biological Chemistry, 2001, 276, 25254-25261. | 1.6 | 49 |
| 31 | CXCR3 is required for migration to dermal inflammation by normal andin vivo activated Tâ€„cells: differential requirements by CD4 and CD8 memory subsets. European Journal of Immunology, 2005, 35, 1702-1711. | 1.6 | 49 |
| 32 | PC and PE synthesis: Mixed micellar analysis of the cholinephosphotransferase and ethanolaminephosphotransferase activities of human choline/ethanolamine phosphotransferase 1 (CEPT1). Lipids, 2002, 37, 663-672. | 0.7 | 46 |
| 33 | Stimulation of Phosphatidylserine Biosynthesis and Facilitation of UV-induced Apoptosis in Chinese Hamster Ovary Cells Overexpressing Phospholipid Scramblase 1. Journal of Biological Chemistry, 2003, 278, 9706-9714. | 1.6 | 46 |
| 34 | Nte1p-mediated Deacylation of Phosphatidylcholine Functionally Interacts with Sec14p. Journal of Biological Chemistry, 2005, 280, 8544-8552. | 1.6 | 43 |
| 35 | 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 |
| 36 | Cloning and expression of a human choline/ethanolaminephosphotransferase: synthesis of phosphatidylcholine and phosphatidylethanolamine. Biochemical Journal, 1999, 339, 291. | 1.7 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | NTE1-encoded Phosphatidylcholine Phospholipase B Regulates Transcription of Phospholipid Biosynthetic Genes. Journal of Biological Chemistry, 2009, 284, 36034-36046. | 1.6 | 35 |
| 38 | Genetic diseases of the Kennedy pathways for membrane synthesis. Journal of Biological Chemistry, 2020, 295, 17877-17886. | 1.6 | 35 |
| 39 | A generalizable pre-clinical research approach for orphan disease therapy. Orphanet Journal of Rare Diseases, 2012, 7, 39. | 1.2 | 32 |
| 40 | 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 |
| 41 | CDP-ethanolamine:1,2-diacylglycerol ethanolaminephosphotransferase. Lipids and Lipid Metabolism, 1997, 1348, 117-123. | 2.6 | 31 |
| 42 | Cessation of Growth to Prevent Cell Death Due to Inhibition of Phosphatidylcholine Synthesis Is Impaired at 37 Â°C inSaccharomyces cerevisiae. Journal of Biological Chemistry, 2002, 277, 44100-44107. | 1.6 | 31 |
| 43 | Neutralization of Acidic Residues in Helix II Stabilizes the Folded Conformation of Acyl Carrier Protein and Variably Alters Its Function with Different Enzymes. Journal of Biological Chemistry, 2007, 282, 4494-4503. | 1.6 | 31 |
| 44 | Phosphatidylcholine synthesis and its catabolism by yeast neuropathy target esterase 1. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 331-336. | 1.2 | 31 |
| 45 | Lipid synthesis and membrane contact sites: a crossroads for cellular physiology. Journal of Lipid Research, 2016, 57, 1789-1805. | 2.0 | 31 |
| 46 | Preferential externalization of newly synthesized phosphatidylserine in apoptotic U937 cells is dependent on caspase-mediated pathways. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2000, 1487, 296-308. | 1.2 | 30 |
| 47 | 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. Biochemical Journal, 2005, 387, 889-896. | 1.7 | 30 |
| 48 | The Canadian Rare Diseases Models and Mechanisms (RDMM) Network: Connecting Understudied Genes to Model Organisms. American Journal of Human Genetics, 2020, 106, 143-152. | 2.6 | 30 |
| 49 | Lipid Binding Requirements for Oxysterol-binding Protein Kes1 Inhibition of Autophagy and Endosome-trans-Golgi Trafficking Pathways*. Journal of Biological Chemistry, 2010, 285, 33875-33884. | 1.6 | 29 |
| 50 | Regulation of vesicle trafficking, transcription, and meiosis: lessons learned from yeast regarding the disparate biologies of phosphatidylcholine. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2001, 1534, 65-77. | 1.2 | 28 |
| 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.. Canadian Journal of Physiology and Pharmacology, 2006, 84, 29-38. | 0.7 | 25 |
| 52 | Barriers and Considerations for Diagnosing Rare Diseases in Indigenous Populations. Frontiers in Pediatrics, 2020, 8, 579924. | 0.9 | 25 |
| 53 | Phospholipid and cation activation of chimaeric choline/ethanolamine phosphotransferases. Biochemical Journal, 1996, 313, 729-735. | 1.7 | 24 |
| 54 | A novel rearrangement of occludin causes brain calcification and renal dysfunction. Human Genetics, 2013, 132, 1223-1234. | 1.8 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Phospholipid synthesis, diacylglycerol compartmentation, and apoptosis. Biological Research, 2002, 35, 223-9. | 1.5 | 24 |
| 56 | Lysophosphatidylcholine acyltransferase activity in Saccharomyces cerevisiae: Regulation by a high-affinity Zn2+ binding site. Lipids, 1998, 33, 1229-1234. | 0.7 | 23 |
| 57 | Membrane metabolism mediated by Sec14 family members influences Arf GTPase activating protein activity for transport from the trans-Golgi. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12777-12782. | 3.3 | 23 |
| 58 | 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 |
| 59 | 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 Î´. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1733, 199-209. | 1.2 | 21 |
| 60 | The roles of the human lipid-binding proteins ORP9S and ORP10S in vesicular transport. Biochemistry and Cell Biology, 2005, 83, 631-636. | 0.9 | 20 |
| 61 | Newly imported ethanolamine is preferentially utilized for phosphatidylethanolamine biosynthesis in the hamster heart. Lipids and Lipid Metabolism, 1992, 1124, 13-16. | 2.6 | 19 |
| 62 | Structure and function of the enigmatic Sec14 domain-containing proteins and theetiology of human disease. Future Lipidology, 2008, 3, 399-410. | 0.5 | 19 |
| 63 | Enhanced apoptosis through farnesol inhibition of phospholipaseâ€ƒD signal transduction. FEBS Journal, 2005, 272, 5056-5063. | 2.2 | 17 |
| 64 | The Kap60-Kap95 Karyopherin Complex Directly Regulates Phosphatidylcholine Synthesis. Journal of Biological Chemistry, 2009, 284, 7376-7384. | 1.6 | 17 |
| 65 | Resistance to UV-induced apoptosis in Chinese-hamster ovary cells overexpressing phosphatidylserine synthases. Biochemical Journal, 2004, 381, 609-618. | 1.7 | 16 |
| 66 | How Surrogate and Chemical Genetics in Model Organisms Can Suggest Therapies for Human Genetic Diseases. Genetics, 2018, 208, 833-851. | 1.2 | 16 |
| 67 | Study of Glycine and Folic Acid Supplementation to Ameliorate Transfusion Dependence in Congenital SLC25A38 Mutated Sideroblastic Anemia. Pediatric Blood and Cancer, 2016, 63, 1307-1309. | 0.8 | 15 |
| 68 | The Yeast Oxysterol Binding Protein Kes1 Maintains Sphingolipid Levels. PLoS ONE, 2013, 8, e60485. | 1.1 | 14 |
| 69 | 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 |
| 70 | Defective phosphatidylethanolamine biosynthesis leads to a broad ataxia-spasticity spectrum. Brain, 2021, 144, e30-e30. | 3.7 | 12 |
| 71 | Choline Transport Activity Regulates Phosphatidylcholine Synthesis through Choline Transporter Hnm1 Stability. Journal of Biological Chemistry, 2013, 288, 36106-36115. | 1.6 | 11 |
| 72 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Induction of protein kinase C substrates, Myristoylated alanine-rich C kinase substrate (MARCKS) and MARCKS-related protein (MRP), by amyloid Î²-protein in mouse BV-2 microglial cells. Neuroscience Letters, 2003, 347, 9-12. | 1.0 | 10 |
| 74 | Regulation of Phosphoinositide Levels by the Phospholipid Transfer Protein Sec14p Controls Cdc42p/p21-Activated Kinase-Mediated Cell Cycle Progression at Cytokinesis. Eukaryotic Cell, 2007, 6, 1814-1823. | 3.4 | 10 |
| 75 | The effect of methyl lidocaine on lysophospholipid metabolism in hamster heart. Biochemistry and Cell Biology, 1990, 68, 745-750. | 0.9 | 9 |
| 76 | The existence of a soluble plasmalogenase in guinea pig tissues. Lipids, 1992, 27, 945-949. | 0.7 | 9 |
| 77 | Studying phospholipid metabolism using yeast systematic and chemical genetics. Methods, 2005, 36, 102-108. | 1.9 | 9 |
| 78 | Identification of novel phospholipid binding proteins inSaccharomyces cerevisiae. FEBS Letters, 2006, 580, 82-86. | 1.3 | 9 |
| 79 | 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 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, 565-574. | 0.9 | 9 |
| 80 | 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 |
| 81 | Mechanism of action and therapeutic route for a muscular dystrophy caused by a genetic defect in lipid metabolism. Nature Communications, 2022, 13, 1559. | 5.8 | 9 |
| 82 | Frizzled 4 regulates ventral blood vessel remodeling in the zebrafish retina. Developmental Dynamics, 2019, 248, 1243-1256. | 0.8 | 8 |
| 83 | Tryptophan fluorescence reveals induced folding of Vibrio harveyi acyl carrier protein upon interaction with partner enzymes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1835-1843. | 1.1 | 7 |
| 84 | Fzd4 Haploinsufficiency Delays Retinal Revascularization in the Mouse Model of Oxygen Induced Retinopathy. PLoS ONE, 2016, 11, e0158320. | 1.1 | 7 |
| 85 | [9] 1-Alkyl- and 1-alkenylglycerophosphocholine acyltransferases. Methods in Enzymology, 1992, 209, 86-92. | 0.4 | 6 |
| 86 | Modulation of phosphatidylethanolamine biosynthesis by exogenous ethanolamine and analogues in the hamster heart. Molecular and Cellular Biochemistry, 1992, 116, 69-73. | 1.4 | 6 |
| 87 | Expression of MARCKS Effector Domain Mutants Alters Phospholipase D Activity and Cytoskeletal Morphology of SK-N-MC Neuroblastoma Cells. Neurochemical Research, 2005, 30, 1353-1364. | 1.6 | 6 |
| 88 | Genetic analysis of Pycr1 and Pycr2 in mice. Genetics, 2021, 218, . | 1.2 | 6 |
| 89 | SLC25 Family Member Genetic Interactions Identify a Role for HEM25 in Yeast Electron Transport Chain Stability. G3: Genes, Genomes, Genetics, 2017, 7, 1861-1873. | 0.8 | 5 |
| 90 | A mouse model of inherited choline kinase Î²-deficiency presents with specific cardiac abnormalities and a predisposition to arrhythmia. Journal of Biological Chemistry, 2022, 298, 101716. | 1.6 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Bi-allelic variants inCHKAcause a neurodevelopmental disorder with epilepsy and microcephaly. Brain, 2022, 145, 1916-1923. | 3.7 | 3 |
| 92 | Glycine Supplementation â€“ A Novel Therapeutic Strategy for Congenital Sideroblastic Anemia.. Blood, 2012, 120, 2087-2087. | 0.6 | 2 |
| 93 | The determination of tissue ethanolamine levels by reverse-phase high-performance liquid chromatography. Lipids, 1992, 27, 560-563. | 0.7 | 0 |
| 94 | Synthetic Genetic Array (SGA) analysis of sec14 cki1 identifies a downstream role for the Golgi specific TRAPPIIâ€Rab/Ypt31 signaling cascade.. FASEB Journal, 2006, 20, A951. | 0.2 | 0 |
| 95 | Choline kinase inhibition promotes ER-phagy. Journal of Lipid Research, 2022, 63, 100213. | 2.0 | 0 |