# Miriam L Greenberg

List of Publications by Year
in descending order



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|---|---|---|---|
| 107 papers | 6,630 citations | 42 h-index (66336) | 79 g-index (64791) |
| 111 all docs | 111 docs citations | 111 times ranked | 4968 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cardiolipin function in the yeast <i>S. cerevisiae</i> and the lessons learned for Barth syndrome. Journal of Inherited Metabolic Disease, 2022, 45, 60-71. | 3.6 | 8 |
| 2 | NAD supplementation improves mitochondrial performance of cardiolipin mutants. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159094. | 2.4 | 6 |
| 3 | Inositol depletion regulates phospholipid metabolism and activates stress signaling in HEK293T cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159137. | 2.4 | 7 |
| 4 | The paradoxical role of inositol in cancer: a consequence of the metabolic state of a tumor. Cancer and Metastasis Reviews, 2022, 41, 249-254. | 5.9 | 5 |
| 5 | Current Knowledge on the Role of Cardiolipin Remodeling in the Context of Lipid Oxidation and Barth Syndrome. Frontiers in Molecular Biosciences, 2022, 9, . | 3.5 | 2 |
| 6 | The Role of the UPR Pathway in the Pathophysiology and Treatment of Bipolar Disorder. Frontiers in Cellular Neuroscience, 2021, 15, 735622. | 3.7 | 5 |
| 7 | Valproate activates the Snf1 kinase in Saccharomyces cerevisiae by decreasing the cytosolic pH. Journal of Biological Chemistry, 2021, 297, 101110. | 3.4 | 7 |
| 8 | A myo-inositol bioassay utilizing an auxotrophic strain of S. cerevisiae. Journal of Microbiological Methods, 2021, 189, 106300. | 1.6 | 3 |
| 9 | Lipids \| Biosynthesis, Remodeling, and Turnover of Cardiolipin. , 2021, , 684-694. |  | 1 |
| 10 | Studying Lipid-Related Pathophysiology Using the Yeast Model. Frontiers in Physiology, 2021, 12, 768411. | 2.8 | 3 |
| 11 | Loss of the mitochondrial lipid cardiolipin leads to decreased glutathione synthesis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158542. | 2.4 | 4 |
| 12 | Cardiolipin-deficient cells have decreased levels of the ironâ€“sulfur biogenesis protein frataxin. Journal of Biological Chemistry, 2020, 295, 11928-11937. | 3.4 | 19 |
| 13 | Valproate inhibits mitochondrial bioenergetics and increases glycolysis in Saccharomyces cerevisiae. Scientific Reports, 2020, 10, 11785. | 3.3 | 14 |
| 14 | Cardiolipin-induced activation of pyruvate dehydrogenase links mitochondrial lipid biosynthesis to TCA cycle function. Journal of Biological Chemistry, 2019, 294, 11568-11578. | 3.4 | 31 |
| 15 | Assembly of the complexes of oxidative phosphorylation triggers the remodeling of cardiolipin. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11235-11240. | 7.1 | 60 |
| 16 | Cardiolipin-deficient cells depend on anaplerotic pathways to ameliorate defective TCA cycle function. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 654-661. | 2.4 | 14 |
| 17 | Loss of tafazzin results in decreased myoblast differentiation in C2C12 cells: A myoblast model of Barth syndrome and cardiolipin deficiency. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 857-865. | 2.4 | 32 |
| 18 | Regulation of Inositol Biosynthesis: Balancing Health and Pathophysiology. Handbook of Experimental Pharmacology, 2018, 259, 221-260. | 1.8 | 12 |

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|---|---|---|---|
| 19 | Valproate inhibits glucose-stimulated insulin secretion in beta cells. Histochemistry and Cell Biology, 2018, 150, 395-401. | 1.7 | 4 |
| 20 | Genetic re-engineering of polyunsaturated phospholipid profile of Saccharomyces cerevisiae identifies a novel role for Cld1 in mitigating the effects of cardiolipin peroxidation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 1354-1368. | 2.4 | 16 |
| 21 | Valproate Prevents a Cytosolic vH + ATPase Subunit Insertion on Insulin Granule Membrane and Compromises Insulin Release in Min6 Cells. FASEB Journal, 2018, 32, lb191. | 0.5 | 0 |
| 22 | Inositol Depletion Induced by Acute Treatment of the Bipolar Disorder Drug Valproate Increases Levels of Phytosphingosine. Journal of Biological Chemistry, 2017, 292, 4953-4959. | 3.4 | 5 |
| 23 | Cardiolipin Regulates Mitophagy through the Protein Kinase C Pathway. Journal of Biological Chemistry, 2017, 292, 2916-2923. | 3.4 | 64 |
| 24 | Lipidomics Characterization of Biosynthetic and Remodeling Pathways of Cardiolipins in Genetically and Nutritionally Manipulated Yeast Cells. ACS Chemical Biology, 2017, 12, 265-281. | 3.4 | 25 |
| 25 | Loss of Cardiolipin Leads to Perturbation of Acetyl-CoA Synthesis. Journal of Biological Chemistry, 2017, 292, 1092-1102. | 3.4 | 29 |
| 26 | Orchestrating phospholipid biosynthesis: Phosphatidic acid conducts and Opi1p performs. Journal of Biological Chemistry, 2017, 292, 18729-18730. | 3.4 | 7 |
| 27 | Biosynthesis, remodeling and turnover of mitochondrial cardiolipin. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 3-7. | 2.4 | 150 |
| 28 | Barth syndrome: A life-threatening disorder caused by abnormal cardiolipin remodeling. Journal of Rare Diseases Research & Treatment, 2017, 2, 58-62. | 1.1 | 9 |
| 29 | MCK1 is a novel regulator of myo-inositol phosphate synthase (MIPS) that is required for inhibition of inositol synthesis by the mood stabilizer valproate. PLoS ONE, 2017, 12, e0182534. | 2.5 | 17 |
| 30 | Get1p and Get2p are required for maintenance of mitochondrial morphology and normal cardiolipin levels. FEMS Yeast Research, 2016, 16, fow019. | 2.3 | 5 |
| 31 | Inositol depletion, GSK3 inhibition and bipolar disorder. Future Neurology, 2016, 11, 135-148. | 0.5 | 35 |
| 32 | Inositol Hexakisphosphate Kinase 1 (IP6K1) Regulates Inositol Synthesis in Mammalian Cells*. Journal of Biological Chemistry, 2016, 291, 10437-10444. | 3.4 | 28 |
| 33 | Valproate Induces the Unfolded Protein Response by Increasing Ceramide Levels. Journal of Biological Chemistry, 2016, 291, 22253-22261. | 3.4 | 20 |
| 34 | Cardiolipin remodeling: a regulatory hub for modulating cardiolipin metabolism and function. Journal of Bioenergetics and Biomembranes, 2016, 48, 113-123. | 2.3 | 77 |
| 35 | The Role of Cardiolipin in Cardiovascular Health. BioMed Research International, 2015, 2015, 1-12. | 1.9 | 67 |
| 36 | Perturbation of the Vacuolar ATPase. Journal of Biological Chemistry, 2015, 290, 27460-27472. | 3.4 | 17 |

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| 37 | Inositol synthesis regulates the activation of <scp>GSK</scp>â€3Î± in neuronal cells. Journal of Neurochemistry, 2015, 133, 273-283. | 3.9 | 17 |
| 38 | Deletion of the Cardiolipin-specific Phospholipase Cld1 Rescues Growth and Life Span Defects in the Tafazzin Mutant. Journal of Biological Chemistry, 2014, 289, 3114-3125. | 3.4 | 55 |
| 39 | Harnessing the power of yeast to elucidate the role of sphingolipids in metabolic and signaling processes pertinent to psychiatric disorders. Clinical Lipidology, 2014, 9, 533-551. | 0.4 | 1 |
| 40 | The functions of cardiolipin in cellular metabolismâ€"potential modifiers of the Barth syndrome phenotype. Chemistry and Physics of Lipids, 2014, 179, 49-56. | 3.2 | 38 |
| 41 | VPA inhibits myoâ€inositol phosphate synthase activity by inhibition of Gsk3 (LB150). FASEB Journal, 2014, 28, LB150. | 0.5 | 0 |
| 42 | Phosphorylation regulates myoâ€inositol 3â€phosphate synthase: A novel regulatory mechanism of inositol biosynthesis (LB190). FASEB Journal, 2014, 28, LB190. | 0.5 | 0 |
| 43 | Loss of Cardiolipin Leads to Perturbation of Mitochondrial and Cellular Iron Homeostasis. Journal of Biological Chemistry, 2013, 288, 1696-1705. | 3.4 | 68 |
| 44 | Regulation of Inositol Metabolism Is Fine-tuned by Inositol Pyrophosphates in Saccharomyces cerevisiae*. Journal of Biological Chemistry, 2013, 288, 24898-24908. | 3.4 | 42 |
| 45 | Phosphorylation Regulates myo-Inositol-3-phosphate Synthase. Journal of Biological Chemistry, 2013, 288, 26822-26833. | 3.4 | 37 |
| 46 | The antiepileptic drug valproic acid and other medium-chain fatty acids acutely reduce phosphoinositide levels independently of inositol in <i>Dictyostelium</i>. DMM Disease Models and Mechanisms, 2012, 5, 115-124. | 2.4 | 68 |
| 47 | Probing myo-inositol 1-phosphate synthase with multisubstrate adducts. Organic and Biomolecular Chemistry, 2012, 10, 9601. | 2.8 | 5 |
| 48 | Cardiolipin and Mitochondrial Phosphatidylethanolamine Have Overlapping Functions in Mitochondrial Fusion in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2012, 287, 17589-17597. | 3.4 | 165 |
| 49 | Lipidomics of intact mitochondria by MALDI-TOF/MS. Journal of Lipid Research, 2012, 53, 1417-1425. | 4.2 | 62 |
| 50 | Loss of Mitochondrial DNA in the Yeast Cardiolipin Synthase crd1 Mutant Leads to Up-regulation of the Protein Kinase Swe1p That Regulates the G2/M Transition. Journal of Biological Chemistry, 2010, 285, 10397-10407. | 3.4 | 35 |
| 51 | Loss of Cardiolipin Leads to Longevity Defects That Are Alleviated by Alterations in Stress Response Signaling. Journal of Biological Chemistry, 2009, 284, 18106-18114. | 3.4 | 25 |
| 52 | Mitochondrial membrane biogenesis: phospholipids and proteins go hand in hand. Journal of Cell Biology, 2009, 184, 469-472. | 5.2 | 86 |
| 53 | Mitochondrial Cardiolipin Involved in Outer-Membrane Protein Biogenesis: Implications for Barth Syndrome. Current Biology, 2009, 19, 2133-2139. | 3.9 | 204 |
| 54 | Cellular functions of cardiolipin in yeast. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 212-218. | 4.1 | 126 |

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| 55 | Ethylbutyrate, a valproate-like compound, exhibits inositol-depleting effects â€” A potential mood-stabilizing drug. Life Sciences, 2009, 84, 38-44. | 4.3 | 5 |
| 56 | Yeast bioassay for identification of inositol depleting compounds. World Journal of Biological Psychiatry, 2009, 10, 893-899. | 2.6 | 3 |
| 57 | Cellular consequences of inositol depletion. Biochemical Society Transactions, 2009, 37, 1099-1103. | 3.4 | 47 |
| 58 | Loss of tafazzin in yeast leads to increased oxidative stress during respiratory growth. Molecular Microbiology, 2008, 68, 1061-1072. | 2.5 | 80 |
| 59 | Cardiolipin Mediates Cross-Talk between Mitochondria and the Vacuole. Molecular Biology of the Cell, 2008, 19, 5047-5058. | 2.1 | 65 |
| 60 | Inositol depletion: a good or bad outcome of valproate treatment?. Future Neurology, 2008, 3, 275-286. | 0.5 | 5 |
| 61 | Up-regulation of the Cell Integrity Pathway in Saccharomyces cerevisiae Suppresses Temperature Sensitivity of the pgs1Î” Mutant. Journal of Biological Chemistry, 2007, 282, 15946-15953. | 3.4 | 40 |
| 62 | Anticonvulsant efficacy of valproate-like carboxylic acids: a potential target for anti-bipolar therapy. Bipolar Disorders, 2007, 9, 197-205. | 1.9 | 1 |
| 63 | Glycogen synthase kinaseâ€3 is required for optimal de novo synthesis of inositol. Molecular Microbiology, 2007, 63, 1248-1258. | 2.5 | 28 |
| 64 | Inositol Phosphates and Phosphoinositides in Health and Disease. , 2006, 39, 265-292. | | 42 |
| 65 | Separation of yeast phospholipids using one-dimensional thin-layer chromatography. Analytical Biochemistry, 2005, 338, 162-164. | 2.4 | 87 |
| 66 | Binding of 10-N-nonyl acridine orange to cardiolipin-deficient yeast cells: Implications for assay of cardiolipin. Analytical Biochemistry, 2005, 343, 350-352. | 2.4 | 39 |
| 67 | Molecular symmetry in mitochondrial cardiolipins. Chemistry and Physics of Lipids, 2005, 138, 38-49. | 3.2 | 255 |
| 68 | Genetic Perturbation of Glycolysis Results in Inhibition of de Novo Inositol Biosynthesis. Journal of Biological Chemistry, 2005, 280, 41805-41810. | 3.4 | 31 |
| 69 | Synthetic Lethal Interaction of the Mitochondrial Phosphatidylethanolamine and Cardiolipin Biosynthetic Pathways in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2005, 280, 35410-35416. | 3.4 | 132 |
| 70 | Loss of Function ofKRE5Suppresses Temperature Sensitivity of Mutants Lacking Mitochondrial Anionic Lipids. Molecular Biology of the Cell, 2005, 16, 665-675. | 2.1 | 59 |
| 71 | The Human TAZ Gene Complements Mitochondrial Dysfunction in the Yeast taz1Î” Mutant. Journal of Biological Chemistry, 2004, 279, 44394-44399. | 3.4 | 96 |
| 72 | Cardiolipin Biosynthesis and Mitochondrial Respiratory Chain Function Are Interdependent. Journal of Biological Chemistry, 2004, 279, 42612-42618. | 3.4 | 124 |

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| 73 | Absence of Cardiolipin Results in Temperature Sensitivity, Respiratory Defects, and Mitochondrial DNA Instability Independent of pet56. Journal of Biological Chemistry, 2004, 279, 32294-32300. | 3.4 | 89 |
| 74 | Human 1-D-myo-Inositol-3-phosphate Synthase Is Functional in Yeast. Journal of Biological Chemistry, 2004, 279, 21759-21765. | 3.4 | 61 |
| 75 | Post-translational regulation of phosphatidylglycerolphosphate synthase in response to inositol. Molecular Microbiology, 2004, 53, 1243-1249. | 2.5 | 35 |
| 76 | 1D-myo-inositol 3-phosphate synthase: conservation, regulation, and putative target of mood stabilizers. Clinical Neuroscience Research, 2004, 4, 181-187. | 0.8 | 17 |
| 77 | Valproate decreases inositol biosynthesis. Biological Psychiatry, 2004, 56, 868-874. | 1.3 | 106 |
| 78 | Valproate disrupts regulation of inositol responsive genes and alters regulation of phospholipid biosynthesis. Molecular Microbiology, 2003, 49, 1595-1604. | 2.5 | 42 |
| 79 | Aberrant cardiolipin metabolism in the yeast taz1 mutant: a model for Barth syndrome. Molecular Microbiology, 2003, 51, 149-158. | 2.5 | 186 |
| 80 | Lithium and valproate decrease the membrane phosphatidylinositol/phosphatidylcholine ratio. Molecular Microbiology, 2003, 47, 373-381. | 2.5 | 20 |
| 81 | The effect of lithium on expression of genes for inositol biosynthetic enzymes in mouse hippocampus; a comparison with the yeast model. Molecular Brain Research, 2003, 115, 104-110. | 2.3 | 33 |
| 82 | Cardiolipin Stabilizes Respiratory Chain Supercomplexes. Journal of Biological Chemistry, 2003, 278, 52873-52880. | 3.4 | 701 |
| 83 | Regulation of Phosphatidylglycerophosphate Synthase by Inositol in Saccharomyces cerevisiae Is Not at the Level of PGS1 mRNA Abundance. Journal of Biological Chemistry, 2003, 278, 33978-33984. | 3.4 | 31 |
| 84 | Cardiolipin prevents rate-dependent uncoupling and provides osmotic stability in yeast mitochondria. Biochemical Journal, 2002, 364, 317-322. | 3.7 | 126 |
| 85 | <i>Myo</i>â€inositolâ€1â€phosphate (MIP) synthase: a possible new target for antibipolar drugs. Bipolar Disorders, 2002, 4, 15-20. | 1.9 | 39 |
| 86 | Expression of yeast INM1 encoding inositol monophosphatase is regulated by inositol, carbon source and growth stage and is decreased by lithium and valproate. Molecular Microbiology, 2002, 36, 651-661. | 2.5 | 65 |
| 87 | Expression of yeast INM1 encoding inositol monophosphatase is regulated by inositol, carbon source and growth stage and is decreased by lithium and valproate. Molecular Microbiology, 2002, 43, 267-267. | 2.5 | 0 |
| 88 | Lithium and Valproate Decrease Inositol Mass and Increase Expression of the Yeast INO1 and INO2Genes for Inositol Biosynthesis. Journal of Biological Chemistry, 2001, 276, 15466-15471. | 3.4 | 108 |
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| 90 | Oxidative phosphorylation in cardiolipin-lacking yeast mitochondria. Biochemical Journal, 2000, 347, 687. | 3.7 | 46 |

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| 91 | Absence of Cardiolipin in the crd1 Null Mutant Results in Decreased Mitochondrial Membrane Potential and Reduced Mitochondrial Function. Journal of Biological Chemistry, 2000, 275, 22387-22394. | 3.4 | 350 |
| 92 | The biosynthesis and functional role of cardiolipin. Progress in Lipid Research, 2000, 39, 257-288. | 11.6 | 707 |
| 93 | Cardiolipin synthase expression is essential for growth at elevated temperature and is regulated by factors affecting mitochondrial development. Molecular Microbiology, 1999, 31, 373-379. | 2.5 | 58 |
| 94 | Enzymatic Synthesis of [3H]Cytidine 5â€²-Diphospho-1,2-diacyl-sn-glycerol. Analytical Biochemistry, 1998, 258, 48-52. | 2.4 | 6 |
| 95 | Cardiolipin Synthase Is Associated with a Large Complex in Yeast Mitochondria. Journal of Biological Chemistry, 1998, 273, 2402-2408. | 3.4 | 27 |
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| 98 | Regulation of inositol monophosphatase in Saccharomyces cerevisiae. Molecular Microbiology, 1997, 25, 541-546. | 2.5 | 28 |
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| 101 | Expression in yeast of an Escherichia coli gene encoding a phospholipid biosynthetic enzyme. Gene, 1994, 147, 111-114. | 2.2 | 1 |
| 102 | Anomalously slow mobility of fluorescent lipid probes in the plasma membrane of the yeastSaccharomyces cerevisiae. Journal of Membrane Biology, 1993, 131, 115-127. | 2.1 | 56 |
| 103 | Characterization and regulation of phosphatidylglycerolphosphate phosphatase in Saccharomyces cerevisiae. Lipids and Lipid Metabolism, 1990, 1046, 144-150. | 2.6 | 43 |
| 104 | Biochemical characterization and regulation of cardiolipin synthase in Saccharomyces cerevisiae. Lipids and Lipid Metabolism, 1990, 1046, 214-222. | 2.6 | 64 |
| 105 | A new negative control gene for amino acid biosynthesis in Saccharomyces cerevisiae. Current Genetics, 1986, 10, 495-501. | 1.7 | 10 |
| 106 | Characterization of a yeast regulatory mutant constitutive for synthesis of inositol-1-phosphate synthase. Molecular Genetics and Genomics, 1982, 186, 157-163. | 2.4 | 91 |
| 107 | REGULATORY MUTATIONS OF INOSITOL BIOSYNTHESIS IN YEAST: ISOLATION OF INOSITOL-EXCRETING MUTANTS. Genetics, 1982, 100, 19-33. | 2.9 | 155 |