

# Steven Claypool

## List of Publications by Year in descending order

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73  
papers

4,343  
citations

109321

35  
h-index

114465

63  
g-index

83  
all docs

83  
docs citations

83  
times ranked

5033  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Secretory pathway Ca <sup>2+</sup> -ATPase SPCA2 regulates mitochondrial respiration and DNA damage response through store-independent calcium entry. <i>Redox Biology</i> , 2022, 50, 102240.   | 9.0  | 9         |
| 2  | Investigating Mitochondrial Dysfunction in Barth Syndrome. <i>FASEB Journal</i> , 2022, 36, .  | 0.5  | 0         |
| 3  | Adenine nucleotide translocase regulates airway epithelial metabolism, surface hydration and ciliary function. <i>Journal of Cell Science</i> , 2021, 134, .   | 2.0  | 18        |
| 4  | The mitochondrial carrier SFXN1 is critical for complex III integrity and cellular metabolism. <i>Cell Reports</i> , 2021, 34, 108869.   | 6.4  | 30        |
| 5  | Impaired phosphatidylethanolamine metabolism activates a reversible stress response that detects and resolves mutant mitochondrial precursors. <i>IScience</i> , 2021, 24, 102196.   | 4.1  | 15        |
| 6  | Tafazzin Modulates Allergen-Induced Mast Cell Inflammatory Mediator Secretion. <i>ImmunoHorizons</i> , 2021, 5, 182-192.   | 1.8  | 5         |
| 7  | Cardiolipin, Mitochondria, and Neurological Disease. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 224-237.  | 7.1  | 113       |
| 8  | Cardiolipinâ€dependent Carriers. <i>FASEB Journal</i> , 2021, 35, .  | 0.5  | 0         |
| 9  | Mitochondrial compartmentalization: emerging themes in structure and function. <i>Trends in Biochemical Sciences</i> , 2021, 46, 902-917.  | 7.5  | 32        |
| 10 | The Influence of Supplemental Dietary Linoleic Acid on Skeletal Muscle Contractile Function in a Rodent Model of Barth Syndrome. <i>Frontiers in Physiology</i> , 2021, 12, 731961.  | 2.8  | 6         |
| 11 | Diverse mitochondrial abnormalities in a new cellular model of TAFFAZZIN deficiency are remediated by cardiolipin-interacting small molecules. <i>Journal of Biological Chemistry</i> , 2021, 297, 101005.   | 3.4  | 7         |
| 12 | Tafazzin deficiency impairs CoA-dependent oxidative metabolism in cardiac mitochondria. <i>Journal of Biological Chemistry</i> , 2020, 295, 12485-12497.   | 3.4  | 24        |
| 13 | Cardiolipin, conformation, and respiratory complex-dependent oligomerization of the major mitochondrial ADP/ATP carrier in yeast. <i>Science Advances</i> , 2020, 6, eabb0780.   | 10.3 | 28        |
| 14 | Cardiolipinâ€™s Remodeling Rules Revealed: The Role of the Cellular Lipidome. <i>Cell Reports</i> , 2020, 30, 3949-3950.   | 6.4  | 3         |
| 15 | Phospholipid ebb and flow makes mitochondria go. <i>Journal of Cell Biology</i> , 2020, 219, .   | 5.2  | 63        |
| 16 | Regulation of mitochondrial fragmentation in microvascular endothelial cells isolated from the SU5416/hypoxia model of pulmonary arterial hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L639-L652. | 2.9  | 23        |
| 17 | Proteolytic Control of Lipid Metabolism. <i>ACS Chemical Biology</i> , 2019, 14, 2406-2423.  | 3.4  | 6         |
| 18 | Systems Analysis of the 22q11.2 Microdeletion Syndrome Converges on a Mitochondrial Interactome Necessary for Synapse Function and Behavior. <i>Journal of Neuroscience</i> , 2019, 39, 1983-18.   | 3.6  | 38        |

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|----|--|------|-----------|
| 19 | The Mitochondrial Transacylase, Tafazzin, Regulates AML Stemness by Modulating Intracellular Levels of Phospholipids. <i>Cell Stem Cell</i> , 2019, 24, 621-636.e16.                             | 11.1 | 32        |
| 20 | Phosphatidylethanolamine made in the inner mitochondrial membrane is essential for yeast cytochrome bc1 complex function. <i>Nature Communications</i> , 2019, 10, 1432.                         | 12.8 | 72        |
| 21 | Emerging Roles in the Biogenesis of Cytochrome c Oxidase for Members of the Mitochondrial Carrier Family. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 3.                       | 3.7  | 21        |
| 22 | <i>PISD</i> is a mitochondrial disease gene causing skeletal dysplasia, cataracts, and white matter changes. <i>Life Science Alliance</i> , 2019, 2, e201900353.                                 | 2.8  | 41        |
| 23 | Krüppel-like factor 4 (KLF4) induces mitochondrial fusion and increases spare respiratory capacity of human glioblastoma cells. <i>Journal of Biological Chemistry</i> , 2018, 293, 6544-6555.   | 3.4  | 31        |
| 24 | Cardiomyopathy-associated mutation in the ADP/ATP carrier reveals translation-dependent regulation of cytochrome c oxidase activity. <i>Molecular Biology of the Cell</i> , 2018, 29, 1449-1464. | 2.1  | 16        |
| 25 | Rapid degradation of mutant SLC25A46 by the ubiquitin-proteasome system results in MFN1/2-mediated hyperfusion of mitochondria. <i>Molecular Biology of the Cell</i> , 2017, 28, 600-612.        | 2.1  | 61        |
| 26 | Human adenine nucleotide translocases physically and functionally interact with respirasomes. <i>Molecular Biology of the Cell</i> , 2017, 28, 1489-1506.  | 2.1  | 37        |
| 27 | The Mammalian Malonyl-CoA Synthetase ACSF3 Is Required for Mitochondrial Protein Malonylation and Metabolic Efficiency. <i>Cell Chemical Biology</i> , 2017, 24, 673-684.e4.                     | 5.2  | 65        |
| 28 | Multitiered and Cooperative Surveillance of Mitochondrial Phosphatidylserine Decarboxylase 1. <i>Molecular and Cellular Biology</i> , 2017, 37, .  | 2.3  | 29        |
| 29 | Tafazzin (TAZ) Regulates the Differentiation of AML Cells By Reducing Levels of the Phospholipid Phosphatidylethanolamine. <i>Blood</i> , 2017, 130, 788-788.                                    | 1.4  | 0         |
| 30 | Specific degradation of phosphatidylglycerol is necessary for proper mitochondrial morphology and function. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 34-45.            | 1.0  | 29        |
| 31 | Impaired Cardiolipin Biosynthesis Prevents Hepatic Steatosis and Diet-Induced Obesity. <i>Diabetes</i> , 2016, 65, 3289-3300.  | 0.6  | 50        |
| 32 | Phosphatidylethanolamine Metabolism in Health and Disease. <i>International Review of Cell and Molecular Biology</i> , 2016, 321, 29-88.   | 3.2  | 269       |
| 33 | Natural and Induced Mitochondrial Phosphate Carrier Loss. <i>Journal of Biological Chemistry</i> , 2016, 291, 26126-26137.   | 3.4  | 18        |
| 34 | Defining functional classes of Barth syndrome mutation in humans. <i>Human Molecular Genetics</i> , 2016, 25, 1754-1770.   | 2.9  | 53        |
| 35 | Metalloprotease OMA1 Fine-tunes Mitochondrial Bioenergetic Function and Respiratory Supercomplex Stability. <i>Scientific Reports</i> , 2015, 5, 13989.  | 3.3  | 52        |
| 36 | Phosphatidylserine Decarboxylase 1 Autocatalysis and Function Does Not Require a Mitochondrial-specific Factor. <i>Journal of Biological Chemistry</i> , 2015, 290, 12744-12752.                 | 3.4  | 22        |

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|----|---|-----|-----------|
| 37 | Tafazzins from <i>Drosophila</i> and mammalian cells assemble in large protein complexes with a short half-life. <i>Mitochondrion</i> , 2015, 21, 27-32.  | 3.4 | 11        |
| 38 | Disorders of phospholipid metabolism: an emerging class of mitochondrial disease due to defects in nuclear genes. <i>Frontiers in Genetics</i> , 2015, 6, 3.  | 2.3 | 116       |
| 39 | Topological Difference but Dysfunctional Conservation of Cardiolipin Remodeling in Yeast and Mammals. <i>FASEB Journal</i> , 2015, 29, 885.12.  | 0.5 | 0         |
| 40 | Unremodeled and Remodeled Cardiolipin Are Functionally Indistinguishable in Yeast. <i>Journal of Biological Chemistry</i> , 2014, 289, 1768-1778.   | 3.4 | 100       |
| 41 | Acyl-CoA thioesterase-2 facilitates mitochondrial fatty acid oxidation in the liver. <i>Journal of Lipid Research</i> , 2014, 55, 2458-2470.  | 4.2 | 64        |
| 42 | The topology and regulation of cardiolipin biosynthesis and remodeling in yeast. <i>Chemistry and Physics of Lipids</i> , 2014, 179, 25-31.   | 3.2 | 52        |
| 43 | The Taz1p Transacylase Is Imported and Sorted into the Outer Mitochondrial Membrane via a Membrane Anchor Domain. <i>Eukaryotic Cell</i> , 2013, 12, 1600-1608.   | 3.4 | 11        |
| 44 | Mitochondria Influence <i>CDR1</i> Efflux Pump Activity, Hog1-Mediated Oxidative Stress Pathway, Iron Homeostasis, and Ergosterol Levels in <i>Candida albicans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 5580-5599. | 3.2 | 79        |
| 45 | Deacylation on the matrix side of the mitochondrial inner membrane regulates cardiolipin remodeling. <i>Molecular Biology of the Cell</i> , 2013, 24, 2008-2020.  | 2.1 | 55        |
| 46 | Seven functional classes of Barth syndrome mutation. <i>Human Molecular Genetics</i> , 2013, 22, 483-492.   | 2.9 | 67        |
| 47 | The power of yeast to model diseases of the powerhouse of the cell. <i>Frontiers in Bioscience - Landmark</i> , 2013, 18, 241.  | 3.0 | 34        |
| 48 | Defining Trafficking Steps Required for Cardiolipin Remodeling. <i>FASEB Journal</i> , 2013, 27, 585.14.  | 0.5 | 0         |
| 49 | Characterizing Mitochondrial Phosphatidylserine Decarboxylase 1. <i>FASEB Journal</i> , 2013, 27, 585.17.   | 0.5 | 0         |
| 50 | Role for Two Conserved Intermembrane Space Proteins, Ups1p and Up2p, in Intra-mitochondrial Phospholipid Trafficking. <i>Journal of Biological Chemistry</i> , 2012, 287, 15205-15218.  | 3.4 | 101       |
| 51 | Phosphatidylethanolamine Biosynthesis in Mitochondria. <i>Journal of Biological Chemistry</i> , 2012, 287, 43961-43971.   | 3.4 | 42        |
| 52 | Role for two conserved intermembrane space proteins, Ups1p and Ups2p, in intra-mitochondrial phospholipid trafficking. <i>Journal of Biological Chemistry</i> , 2012, 287, 27450.   | 3.4 | 0         |
| 53 | The complexity of cardiolipin in health and disease. <i>Trends in Biochemical Sciences</i> , 2012, 37, 32-41.   | 7.5 | 289       |
| 54 | Barth syndrome mutations that cause tafazzin complex lability. <i>Journal of Cell Biology</i> , 2011, 192, 447-462.   | 5.2 | 58        |

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|----|--|------|-----------|
| 55 | N-Glycan Moieties in Neonatal Fc Receptor Determine Steady-state Membrane Distribution and Directional Transport of IgG. <i>Journal of Biological Chemistry</i> , 2009, 284, 8292-8300.          | 3.4  | 49        |
| 56 | Cardiolipin, a critical determinant of mitochondrial carrier protein assembly and function. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2059-2068.                         | 2.6  | 170       |
| 57 | Cardiolipin defines the interactome of the major ADP/ATP carrier protein of the mitochondrial inner membrane. <i>Journal of Cell Biology</i> , 2008, 182, 937-950.                               | 5.2  | 273       |
| 58 | Ca <sup>2+</sup> -dependent Calmodulin Binding to FcRn Affects Immunoglobulin G Transport in the Transcytotic Pathway. <i>Molecular Biology of the Cell</i> , 2008, 19, 414-423.                 | 2.1  | 47        |
| 59 | The Cardiolipin Transacylase, Tafazzin, Associates with Two Distinct Respiratory Components Providing Insight into Barth Syndrome. <i>Molecular Biology of the Cell</i> , 2008, 19, 5143-5155.   | 2.1  | 97        |
| 60 | Tim54p connects inner membrane assembly and proteolytic pathways in the mitochondrion. <i>Journal of Cell Biology</i> , 2007, 178, 1161-1175.  | 5.2  | 45        |
| 61 | IgG transport across mucosal barriers by neonatal Fc receptor for IgG and mucosal immunity. <i>Seminars in Immunopathology</i> , 2006, 28, 397-403.  | 4.0  | 63        |
| 62 | Mitochondrial mislocalization and altered assembly of a cluster of Barth syndrome mutant tafazzins. <i>Journal of Cell Biology</i> , 2006, 174, 379-390.   | 5.2  | 129       |
| 63 | Neonatal Fc receptor for IgG regulates mucosal immune responses to luminal bacteria. <i>Journal of Clinical Investigation</i> , 2006, 116, 2142-2151.  | 8.2  | 199       |
| 64 | Altered Membrane Association and Complex Formation of Tafazzin in the Absence of Cardiolipin. <i>FASEB Journal</i> , 2006, 20, A59.  | 0.5  | 0         |
| 65 | Characterization of the porcine neonatal Fc receptor-potential use for trans-epithelial protein delivery. <i>Immunology</i> , 2005, 114, 542-553.  | 4.4  | 70        |
| 66 | Hereditary Spastic Paraplegia: Respiratory Choke or Unactivated Substrate?. <i>Cell</i> , 2005, 123, 183-185.  | 28.9 | 5         |
| 67 | Bidirectional Transepithelial IgG Transport by a Strongly Polarized Basolateral Membrane Fc $\beta$ -Receptor. <i>Molecular Biology of the Cell</i> , 2004, 15, 1746-1759.                       | 2.1  | 142       |
| 68 | Human Neonatal Fc Receptor Mediates Transport of IgG into Luminal Secretions for Delivery of Antigens to Mucosal Dendritic Cells. <i>Immunity</i> , 2004, 20, 769-783.                           | 14.3 | 429       |
| 69 | Functional Reconstitution of Human FcRn in Madin-Darby Canine Kidney Cells Requires Co-expressed Human $\beta$ 2-Microglobulin. <i>Journal of Biological Chemistry</i> , 2002, 277, 28038-28050. | 3.4  | 98        |
| 70 | The multiple roles of major histocompatibility complex class-I-like molecules in mucosal immune function. <i>Acta Odontologica Scandinavica</i> , 2001, 59, 139-144.                             | 1.6  | 15        |
| 71 | Antigen presentation by intestinal epithelial cells. <i>Immunology Letters</i> , 1999, 69, 7-11.   | 2.5  | 44        |
| 72 | Developmental Regulation of TCR $\beta$ Locus Accessibility and Expression by the TCR $\beta$ Enhancer. <i>Immunity</i> , 1999, 10, 503-513.   | 14.3 | 60        |

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|----|--|-----|-----------|
| 73 | Impaired Phosphatidylethanolamine Metabolism Activates a Reversible Stress Response that Detects and Resolves Mutant Mitochondrial Precursors. SSRN Electronic Journal, 0, , . | 0.4 | 0         |