Michael Schlame

List of Publications by Year
in descending order

68 papers	6,305 citations	117625 34 h-index	98798 67 g-index
72 all docs	72 docs citations	72 times ranked	4708 citing authors

#	Article	IF	Citations
1	A simple mechanistic explanation for Barth syndrome and cardiolipin remodeling. Journal of Inherited Metabolic Disease, 2022, 45, 51-59.	3.6	3
2	LPGAT1 controls the stearate/palmitate ratio of phosphatidylethanolamine and phosphatidylcholine in sn-1 specific remodeling. Journal of Biological Chemistry, 2022, 298, 101685.	3.4	14
3	Condensed Mitochondria Assemble Into the Acrosomal Matrix During Spermiogenesis. Frontiers in Cell and Developmental Biology, 2022, 10, 867175.	3.7	5
4	StaR-related lipid transfer-like domain-containing protein CLDP43 affects cardiolipin synthesis and mitochondrial function in Trypanosoma brucei. PLoS ONE, 2022, 17, e0259752.	2.5	0
5	Protein crowding in the inner mitochondrial membrane. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148305.	1.0	29
6	Cardiolipin deficiency in Barth syndrome is not associated with increasedÂsuperoxide/H 2 O 2 production in heart and skeletal muscle mitochondria. FEBS Letters, 2021, 595, 415-432.	2.8	14
7	Increased Reactive Oxygen Speciesâ€“Mediated Ca ²⁺ /Calmodulin-Dependent Protein Kinase II Activation Contributes to Calcium Handling Abnormalities and Impaired Contraction in Barth Syndrome. Circulation, 2021, 143, 1894-1911.	1.6	42
8	Enrichment of NPC1-deficient cells with the lipid LBPA stimulates autophagy, improves lysosomal function, and reduces cholesterol storage. Journal of Biological Chemistry, 2021, 297, 100813.	3.4	29
9	Structural basis for potassium transport in prokaryotes by KdpFABC. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
10	Cardiolipin remodeling enables protein crowding in the inner mitochondrial membrane. EMBO Journal, 2021, 40, e108428.	7.8	20
11	A Bayesian Analysis to Determine the Prevalence of Barth Syndrome in the Pediatric Population. Journal of Pediatrics, 2020, 217, 139-144.	1.8	27
12	Lipidome-wide 13C flux analysis: a novel tool to estimate the turnover of lipids in organisms and cultures. Journal of Lipid Research, 2020, 61, 95-104.	4.2	18
13	AAV Gene Therapy Prevents and Reverses Heart Failure in a Murine Knockout Model of Barth Syndrome. Circulation Research, 2020, 126, 1024-1039.	4.5	62
14	Analysis of phospholipid synthesis in mitochondria. Methods in Cell Biology, 2020, 155, 321-335.	1.1	11
15	The Function of Tafazzin, a Mitochondrial Phospholipidâ€“Lysophospholipid Acyltransferase. Journal of Molecular Biology, 2020, 432, 5043-5051.	4.2	29
16	A critical appraisal of the tafazzin knockdown mouse model of Barth syndrome: what have we learned about pathogenesis and potential treatments?. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H1183-H1193.	3.2	20
17	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
18	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

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19	Extramitochondrial cardiolipin suggests a novel function of mitochondria in spermatogenesis. Journal of Cell Biology, 2019, 218, 1491-1502.	5.2	33
20	Mitochondrial cristae as insulated transformers of metabolic energy. EMBO Journal, 2019, 38, e103472.	7.8	9
21	Plasmalogen loss caused by remodeling deficiency in mitochondria. Life Science Alliance, 2019, 2, e201900348.	2.8	29
22	Substantial Decrease in Plasmalogen in the Heart Associated with Tafazzin Deficiency. Biochemistry, 2018, 57, 2162-2175.	2.5	27
23	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
24	Intraoperative Two- and Three-Dimensional Transesophageal Echocardiography in Combined Myectomy-Mitral Operations for Hypertrophic Cardiomyopathy. Journal of the American Society of Echocardiography, 2018, 31, 275-288.	2.8	35
25	The Basis for Acyl Specificity in the Tafazzin Reaction. Journal of Biological Chemistry, 2017, 292, 5499-5506.	3.4	35
26	Biosynthesis, remodeling and turnover of mitochondrial cardiolipin. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 3-7.	2.4	150
27	Loss of protein association causes cardiolipin degradation in Barth syndrome. Nature Chemical Biology, 2016, 12, 641-647.	8.0	99
28	Tafazzins from Drosophila and mammalian cells assemble in large protein complexes with a short half-life. Mitochondrion, 2015, 21, 27-32.	3.4	11
29	Membrane curvature modulation of protein activity determined by NMR. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 220-228.	2.6	50
30	The turnover of glycerol and acyl moieties of cardiolipin. Chemistry and Physics of Lipids, 2014, 179, 17-24.	3.2	32
31	Metabolism and function of mitochondrial cardiolipin. Progress in Lipid Research, 2014, 55, 1-16.	11.6	251
32	Cardiolipin remodeling and the function of tafazzin. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 582-588.	2.4	124
33	Tafazzin Knockdown in Mice Leads to a Developmental Cardiomyopathy With Early Diastolic Dysfunction Preceding Myocardial Noncompaction. Journal of the American Heart Association, 2012, 1, .	3.7	81
34	The physical state of lipid substrates provides transacylation specificity for tafazzin. Nature Chemical Biology, 2012, 8, 862-869.	8.0	101
35	Comparison of cardiolipins from Drosophila strains with mutations in putative remodeling enzymes. Chemistry and Physics of Lipids, 2012, 165, 512-519.	3.2	23
36	Cardiolipin Affects the Supramolecular Organization of ATP Synthase inÂMitochondria. Biophysical Journal, 2011, 100, 2184-2192.	0.5	208

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37	Characterization of a Transgenic Short Hairpin RNA-Induced Murine Model of Tafazzin Deficiency. Human Gene Therapy, 2011, 22, 865-871.	2.7	114
38	Characterization of Tafazzin Splice Variants from Humans and Fruit Flies. Journal of Biological Chemistry, 2009, 284, 29230-29239.	3.4	55
39	Role of calcium-independent phospholipase A ₂ in the pathogenesis of Barth syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2337-2341.	7.1	126
40	Formation of molecular species of mitochondrial cardiolipin. 1. A novel transacylation mechanism to shuttle fatty acids between sn-1 and sn-2 positions of multiple phospholipid species. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 314-320.	2.4	71
41	Formation of molecular species of mitochondrial cardiolipin2. A mathematical model of pattern formation by phospholipid transacylation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 321-325.	2.4	21
42	The role of cardiolipin in the structural organization of mitochondrial membranes. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 2080-2083.	2.6	195
43	Distinct effects of tafazzin deletion in differentiated and undifferentiated mitochondria. Mitochondrion, 2009, 9, 86-95.	3.4	68
44	Thematic Review Series: Glycerolipids. Cardiolipin synthesis for the assembly of bacterial and mitochondrial membranes. Journal of Lipid Research, 2008, 49, 1607-1620.	4.2	330
45	De novo biosynthesis of the late endosome lipid, bis(monoacylglycero)phosphate. Journal of Lipid Research, 2007, 48, 1997-2008.	4.2	71
46	Assays of Cardiolipin Levels. Methods in Cell Biology, 2007, 80, 223-240.	1.1	16
47	Comparison of lymphoblast mitochondria from normal subjects and patients with Barth syndrome using electron microscopic tomography. Laboratory Investigation, 2007, 87, 40-48.	3.7	156
48	Purification and Characterization of Drosophila Taffazin: Discovery of the First Phospholipid Transacylase. FASEB Journal, 2007, 21, A666.	0.5	0
49	Drosophila Mitochondrial Membraneâ€bound Tafazzin Protein Is A Transacylase. FASEB Journal, 2007, 21, A667.	0.5	0
50	Barth syndrome, a human disorder of cardiolipin metabolism. FEBS Letters, 2006, 580, 5450-5455.	2.8	273
51	A Drosophila model of Barth syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11584-11588.	7.1	154
52	The Enzymatic Function of Tafazzin. Journal of Biological Chemistry, 2006, 281, 39217-39224.	3.4	278
53	Molecular symmetry in mitochondrial cardiolipins. Chemistry and Physics of Lipids, 2005, 138, 38-49.	3.2	255
54	Characterization of lymphoblast mitochondria from patients with Barth syndrome. Laboratory Investigation, 2005, 85, 823-830.	3.7	132

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55	Cardiolipin Biosynthesis and Mitochondrial Respiratory Chain Function Are Interdependent. Journal of Biological Chemistry, 2004, 279, 42612-42618.	3.4	124
56	Phospholipid abnormalities in children with Barth syndrome. Journal of the American College of Cardiology, 2003, 42, 1994-1999.	2.8	187
57	Remodeling of Cardiolipin by Phospholipid Transacylation. Journal of Biological Chemistry, 2003, 278, 51380-51385.	3.4	183
58	Deficiency of tetralinoleoyl-cardiolipin in Barth syndrome. Annals of Neurology, 2002, 51, 634-637.	5.3	253
59	Effect of Cardiolipin Oxidation on Solid-Phase Immunoassay for Antiphospholipid Antibodies. Thrombosis and Haemostasis, 2001, 86, 1475-1482.	3.4	25
60	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
61	The biosynthesis and functional role of cardiolipin. Progress in Lipid Research, 2000, 39, 257-288.	11.6	707
62	Microanalysis of cardiolipin in small biopsies including skeletal muscle from patients with mitochondrial disease. Journal of Lipid Research, 1999, 40, 1585-1592.	4.2	63
63	Cardiolipin Synthase Is Associated with a Large Complex in Yeast Mitochondria. Journal of Biological Chemistry, 1998, 273, 2402-2408.	3.4	27
64	Kinetic analysis of cardiolipin synthase: A membrane enzyme with two glycerophospholipid substrates. Lipids, 1995, 30, 633-640.	1.7	15
65	Mitochondrial cardiolipin in diverse eukaryotes. Comparison of biosynthetic reactions and molecular acyl species. FEBS Journal, 1993, 212, 727-733.	0.2	161
66	[39] Mammalian cardiolipin biosynthesis. Methods in Enzymology, 1992, 209, 330-337.	1.0	18
67	Molecular species of cardiolipin in relation to other mitochondrial phospholipids. Is there an acyl specificity of the interaction between cardiolipin and the ADP/ATP carrier?. FEBS Journal, 1991, 199, 459-466.	0.2	62
68	Analysis of cardiolipin molecular species by high-performance liquid chromatography of its derivative 1,3-bisphosphatidyl-2-benzoyl-sn-glycerol dimethyl ester. Analytical Biochemistry, 1991, 195, 290-295.	2.4	55