Localization of Anionic Phospholipids in Escherichia co

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Citation Report

#	Article	IF	Citations
1	Extracellular <scp>S</scp>treptomyces lividans vesicles: composition, biogenesis and antimicrobial activity. Microbial Biotechnology, 2015, 8, 644-658.	2.0	37
2	Lipid remodeling in Rhodopseudomonas palustris <scp>TIE</scp>â€1 upon loss of hopanoids and hopanoid methylation. Geobiology, 2015, 13, 443-453.	1.1	20
3	The Min system and other nucleoid-independent regulators of Z ring positioning. Frontiers in Microbiology, 2015, 6, 478.	1.5	110
4	The membrane: transertion as an organizing principle in membrane heterogeneity. Frontiers in Microbiology, 2015, 6, 572.	1.5	52
5	Exploring the Existence of Lipid Rafts in Bacteria. Microbiology and Molecular Biology Reviews, 2015, 79, 81-100.	2.9	173
6	Visualizing Attack of Escherichia coli by the Antimicrobial Peptide Human Defensin 5. Biochemistry, 2015, 54, 1767-1777.	1.2	80
7	Cardiolipin Signaling Mechanisms: Collapse of Asymmetry and Oxidation. Antioxidants and Redox Signaling, 2015, 22, 1667-1680.	2.5	50
8	Patch clamp characterization of the effect of cardiolipin on MscS of E. coli. European Biophysics Journal, 2015, 44, 567-576.	1.2	21
9	Lipidâ€“protein interactions: Lessons learned from stress. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1744-1756.	1.4	43
10	A fast way to track functional OmpF reconstitution in liposomes: Escherichia coli total lipid extract. Analytical Biochemistry, 2015, 479, 54-59.	1.1	3
11	Anionic Phospholipids Stabilize RecA Filament Bundles in Escherichia coli. Molecular Cell, 2015, 60, 374-384.	4.5	45
12	E. coli MG1655 modulates its phospholipid composition through the cell cycle. FEBS Letters, 2015, 589, 2726-2730.	1.3	28
13	A Cardiolipin-Deficient Mutant of Rhodobacter sphaeroides Has an Altered Cell Shape and Is Impaired in Biofilm Formation. Journal of Bacteriology, 2015, 197, 3446-3455.	1.0	26
14	Deletion of liaR Reverses Daptomycin Resistance in Enterococcus faecium Independent of the Genetic Background. Antimicrobial Agents and Chemotherapy, 2015, 59, 7327-7334.	1.4	41
15	Molecular composition of functional microdomains in bacterial membranes. Chemistry and Physics of Lipids, 2015, 192, 3-11.	1.5	34
16	Membraneâ€binding mechanism of a bacterial phospholipid <scp>N</scp>â€methyltransferase. Molecular Microbiology, 2015, 95, 313-331.	1.2	21
17	Revisiting the cell biology of the acylâ€ACP:phosphate transacylase PlsX suggests that the phospholipid synthesis and cell division machineries are not coupled in <scp>B</scp>acillus subtilis. Molecular Microbiology, 2016, 100, 621-634.	1.2	13
18	Negatively Charged Lipids as a Potential Target for New Amphiphilic Aminoglycoside Antibiotics. Journal of Biological Chemistry, 2016, 291, 13864-13874.	1.6	33

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19	Septal localization by membrane targeting sequences and a conserved sequence essential for activity at the COOH-terminus of Bacillus subtilis cardiolipin synthase. Research in Microbiology, 2016, 167, 202-214.	1.0	11
20	Organization and function of anionic phospholipids in bacteria. Applied Microbiology and Biotechnology, 2016, 100, 4255-4267.	1.7	86
21	Three-Dimensional Distribution of Phospholipids in Gram Negative Bacteria. Biochemistry, 2016, 55, 4742-4747.	1.2	20
22	RepA-WH1, the agent of an amyloid proteinopathy in bacteria, builds oligomeric pores through lipid vesicles. Scientific Reports, 2016, 6, 23144.	1.6	20
23	Distribution and dynamics of OXPHOS complexes in the bacterial cytoplasmic membrane. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 198-213.	0.5	32
24	The action mechanism of daptomycin. Bioorganic and Medicinal Chemistry, 2016, 24, 6253-6268.	1.4	203
25	Ionic Hydrogen Bonds and Lipid Packing Defects Determine the Binding Orientation and Insertion Depth of RecA on Multicomponent Lipid Bilayers. Journal of Physical Chemistry B, 2016, 120, 8424-8437.	1.2	20
26	Bacterial Electron Transfer Chains Primed by Proteomics. Advances in Microbial Physiology, 2016, 68, 219-352.	1.0	5
27	Assembly and clustering of natural antibiotics guides target identification. Nature Chemical Biology, 2016, 12, 233-239.	3.9	86
28	Bacterial lipid membranes as promising targets to fight antimicrobial resistance, molecular foundations and illustration through the renewal of aminoglycoside antibiotics and emergence of amphiphilic aminoglycosides. MedChemComm, 2016, 7, 586-611.	3.5	110
29	Lights, Camera, Action! Antimicrobial Peptide Mechanisms Imaged in Space and Time. Trends in Microbiology, 2016, 24, 111-122.	3.5	63
30	Single-Cell, Time-Resolved Antimicrobial Effects of a Highly Cationic, Random Nylon-3 Copolymer on Live Escherichia coli. ACS Chemical Biology, 2016, 11, 113-120.	1.6	44
31	Functional Roles of Lipids in Membranes. , 2016, , 1-40.		8
32	Perturbations of Phosphatidate Cytidylyltransferase (CdsA) Mediate Daptomycin Resistance in Streptococcus mitis/oralis by a Novel Mechanism. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	44
33	Exclusion of assembled <scp>M</scp>re<scp>B</scp> by anionic phospholipids at cell poles confers cell polarity for bidirectional growth. Molecular Microbiology, 2017, 104, 472-486.	1.2	60
34	Polar localization of MreB actin is inhibited by anionic phospholipids in the rod-shaped bacterium Escherichia coli. Current Genetics, 2017, 63, 845-848.	0.8	3
35	Cardiolipin and mitochondrial cristae organization. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1156-1163.	1.4	221
36	Cardiolipin plays an essential role in the formation of intracellular membranes in Escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1124-1132.	1.4	26

#	Article	IF	Citations
37	The Arabidopsis thaliana lysophospholipid acyltransferase At1g78690p acylates lysocardiolipins. Biochemical and Biophysical Research Communications, 2017, 493, 340-345.	1.0	2
38	Cardiolipin Synthesis and Outer Membrane Localization Are Required for Shigella flexneri Virulence. MBio, 2017, 8, .	1.8	37
39	Engineering Escherichia coli membrane phospholipid head distribution improves tolerance and production of biorenewables. Metabolic Engineering, 2017, 44, 1-12.	3.6	83
41	Bacterial Membranes: Structure, Domains, and Function. Annual Review of Microbiology, 2017, 71, 519-538.	2.9	178
42	Bacterial Cell Mechanics. Biochemistry, 2017, 56, 3710-3724.	1.2	166
43	Is phosphatidylglycerol essential for terrestrial life?. Journal of Chemical Biology, 2017, 10, 1-9.	2.2	30
44	ProPâ€ProP and ProPâ€phospholipid interactions determine the subcellular distribution of osmosensing transporter ProP inEscherichia coli. Molecular Microbiology, 2017, 103, 469-482.	1.2	13
45	Yap regulates gastric cancer survival and migration via SIRT1/Mfn2/mitophagy. Oncology Reports, 2018, 39, 1671-1681.	1.2	72
46	Cell Surface Dynamics. , 2018, , 43-73.		0
47	Perspective: challenges and opportunities for the study of cardiolipin, a key player in bacterial cell structure and function. Current Genetics, 2018, 64, 795-798.	0.8	9
48	Spatial control of cell envelope biosynthesis in mycobacteria. Pathogens and Disease, 2018, 76, .	0.8	32
49	Antimicrobial activity of nano-sized silver colloids stabilized by nitrogen-containing polymers: the key influence of the polymer capping. RSC Advances, 2018, 8, 10873-10882.	1.7	37
50	De Novo Synthesis of Basal Bacterial Cell Division Proteins FtsZ, FtsA, and ZipA Inside Giant Vesicles. ACS Synthetic Biology, 2018, 7, 953-961.	1.9	65
51	Dynamin-related protein 1 has membrane constricting and severing abilities sufficient for mitochondrial and peroxisomal fission. Nature Communications, 2018, 9, 5239.	5.8	167
52	Septins Recognize and Entrap Dividing Bacterial Cells for Delivery to Lysosomes. Cell Host and Microbe, 2018, 24, 866-874.e4.	5.1	62
53	Ectopic Neo-Formed Intracellular Membranes in Escherichia coli: A Response to Membrane Protein-Induced Stress Involving Membrane Curvature and Domains. Biomolecules, 2018, 8, 88.	1.8	13
54	Supramolecular zippers elicit interbilayer adhesion of membranes producing cell death. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2824-2834.	1.1	6
55	Antimicrobial Photodynamic Therapy to Control Clinically Relevant Biofilm Infections. Frontiers in Microbiology, 2018, 9, 1299.	1.5	286

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56	Effect of cardiolipin on the antimicrobial activity of a new amphiphilic aminoglycoside derivative on Pseudomonas aeruginosa. PLoS ONE, 2018, 13, e0201752.	1.1	23
58	Cardiolipin Preferentially Partitions to the Inner Leaflet of Mixed Lipid Large Unilamellar Vesicles. Journal of Physical Chemistry B, 2019, 123, 9111-9122.	1.2	15
60	Metallohelices that kill Gram-negative pathogens using intracellular antimicrobial peptide pathways. Chemical Science, 2019, 10, 9708-9720.	3.7	22
61	Membrane curvature induces cardiolipin sorting. Communications Biology, 2019, 2, 225.	2.0	95
62	Resistance of early stationary phase E. coli to membrane permeabilization by the antimicrobial peptide Cecropin A. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 182990.	1.4	19
63	â€œForce-From-Lipidsâ€•mechanosensation in Corynebacterium glutamicum. Biophysical Reviews, 2019, 11, 327-333.	1.5	16
64	Bacterial Lipid Domains and Their Role in Cell Processes. , 2019, , 575-592.		2
65	Expanding lipidomics coverage: effective ultra performance liquid chromatography-high resolution mass spectrometer methods for detection and quantitation of cardiolipin, phosphatidylglycerol, and lysyl-phosphatidylglycerol. Metabolomics, 2019, 15, 53.	1.4	18
66	Cardiolipin Alters Rhodobacter sphaeroides Cell Shape by Affecting Peptidoglycan Precursor Biosynthesis. MBio, 2019, 10, .	1.8	28
67	Selectivity of Antimicrobial Peptides: A Complex Interplay of Multiple Equilibria. Advances in Experimental Medicine and Biology, 2019, 1117, 175-214.	0.8	44
68	Antimicrobial Peptides. Advances in Experimental Medicine and Biology, 2019, , .	0.8	26
69	Lipid Phases and Cell Geometry During the Cell Cycle of Streptococcus pneumoniae. Frontiers in Microbiology, 2019, 10, 351.	1.5	9
70	Clustering as a Means To Control Nitrate Respiration Efficiency and Toxicity in Escherichia coli. MBio, 2019, 10, .	1.8	16
71	Lipidomic signature of Bacillus licheniformis l89 during the different growth phases unravelled by high-resolution liquid chromatography-mass spectrometry. Archives of Biochemistry and Biophysics, 2019, 663, 83-94.	1.4	10
72	Membrane Lipid Biogenesis. , 2019, , 525-538.		0
73	Contributions of Membrane Lipids to Bacterial Cell Homeostasis upon Osmotic Challenge. , 2019, , 801-822.		0
74	Cationic Molecular Umbrellas as Antibacterial Agents with Remarkable Cell-Type Selectivity. ACS Applied Materials & Interfaces, 2020, 12, 21270-21282.	4.0	48
75	Dynamic and reversible shape response of red blood cells in synthetic liquid crystals. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26083-26090.	3.3	14

#	Article	IF	Citations
76	Alteration of Membrane Fluidity or Phospholipid Composition Perturbs Rotation of MreB Complexes in Escherichia coli. Frontiers in Molecular Biosciences, 2020, 7, 582660.	1.6	7
77	Bringing rafts to life: Lessons learned from lipid organization across diverse biological membranes. Chemistry and Physics of Lipids, 2020, 233, 104984.	1.5	8
78	Bacterial Vivisection: How Fluorescence-Based Imaging Techniques Shed a Light on the Inner Workings of Bacteria. Microbiology and Molecular Biology Reviews, 2020, 84, .	2.9	17
79	Interactions of a Bacterial RND Transporter with a Transmembrane Small Protein in a Lipid Environment. Structure, 2020, 28, 625-634.e6.	1.6	47
80	CDP-diacylglycerol, a critical intermediate in lipid metabolism. Chemistry and Physics of Lipids, 2020, 230, 104914.	1.5	27
81	Role of the lipid bilayer in outer membrane protein folding in Gram-negative bacteria. Journal of Biological Chemistry, 2020, 295, 10340-10367.	1.6	88
82	Mechanisms of Enhanced Antibacterial Activity by Reduced Chitosan-Intercalated Nontronite. Environmental Science & Technology, 2020, 54, 5207-5217.	4.6	23
83	Binding of an antimicrobial peptide to bacterial cells: Interaction with different species, strains and cellular components. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183291.	1.4	58
84	Corynebacterium glutamicum Mechanosensing: From Osmoregulation to L-Glutamate Secretion for the Avian Microbiota-Gut-Brain Axis. Microorganisms, 2021, 9, 201.	1.6	13
85	FisB relies on homo-oligomerization and lipid binding to catalyze membrane fission in bacteria. PLoS Biology, 2021, 19, e3001314.	2.6	9
86	Structural Organization of Cardiolipin-Containing Vesicles as Models of the Bacterial Cytoplasmic Membrane. Langmuir, 2021, 37, 8508-8516.	1.6	11
87	TTAPE-Me dye is not selective to cardiolipin and binds to common anionic phospholipids nonspecifically. Biophysical Journal, 2021, 120, 3776-3786.	0.2	6
89	Contributions of Membrane Lipids to Bacterial Cell Homeostasis upon Osmotic Challenge. , 2016, , 1-22.		2
90	Phosphatidic acid: an emerging versatile class of cellular mediators. Essays in Biochemistry, 2020, 64, 533-546.	2.1	53
91	ATP synthase: Evolution, energetics, and membrane interactions. Journal of General Physiology, 2020, 152, .	0.9	41
92	The Gram-positive model organism Bacillus subtilis does not form microscopically detectable cardiolipin-specific lipid domains. Microbiology (United Kingdom), 2018, 164, 475-482.	0.7	15
93	Two Distinct Cardiolipin Synthases Operate in Agrobacterium tumefaciens. PLoS ONE, 2016, 11, e0160373.	1.1	13
94	Oxidative stress induced in E. coli by the human antimicrobial peptide LL-37. PLoS Pathogens, 2017, 13, e1006481.	2.1	56

#	Article	IF	Citations
95	The magnesium transporter A is activated by cardiolipin and is highly sensitive to free magnesium in vitro. ELife, 2016, 5, .	2.8	40
96	Structure of dual BON-domain protein DolP identifies phospholipid binding as a new mechanism for protein localisation. ELife, 2020, 9, .	2.8	25
97	Evolutionarily conserved mechanism for membrane recognition from bacteria to mitochondria. FEBS Letters, 2021, 595, 2805-2815.	1.3	2
98	Membrane Lipid Biogenesis. , 2016, , 1-14.		0
99	Contributions of Membrane Lipids to Bacterial Cell Homeostasis upon Osmotic Challenge. , 2017, , 1-23.		0
102	Regulations of Subcellular Localization and Functions of MreB Actin in Escherichia coli. Seibutsu Butsuri, 2019, 59, 100-102.	0.0	0
105	Assessing the risk of resistance to cationic biocides incorporating realism-based and biophysical approaches. Journal of Industrial Microbiology and Biotechnology, 2022, 49, .	1.4	13
109	Umwandlung vonEscherichia coliProteomembranen in artifizielle Chloroplasten durch molekulare Photokatalyse. Angewandte Chemie, 2022, 134, .	1.6	2
111	TransformingEscherichia coliProteomembranes into Artificial Chloroplasts Using Molecular Photocatalysis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	11
112	Data-driven discovery of cardiolipin-selective small molecules by computational active learning. Chemical Science, 2022, 13, 4498-4511.	3.7	18
130	Tunable gold nanorod/NAO conjugates for selective drug delivery in mitochondria-targeted cancer therapy. Nanoscale, 2022, 14, 8028-8040.	2.8	3
131	CLiB â€“ a novel cardiolipin-binder isolated via data-driven and in vitro screening. RSC Chemical Biology, 0, , .	2.0	1
133	New Roles for HAMP Domains: the Tri-HAMP Region of Pseudomonas aeruginosa Aer2 Controls Receptor Signaling and Cellular Localization. Journal of Bacteriology, 2022, 204, .	1.0	3
134	Transient Complexity of E. coli Lipidome Is Explained by Fatty Acyl Synthesis and Cyclopropanation. Metabolites, 2022, 12, 784.	1.3	2
135	Localized cardiolipin synthesis is required for the assembly of MreB during the polarized cell division of Chlamydia trachomatis. PLoS Pathogens, 2022, 18, e1010836.	2.1	12
136	A bacterial secretosome for regulated envelope biogenesis and quality control?. Microbiology (United Kingdom), 2022, 168, .	0.7	4
137	Octenidineâ€™s Efficacy: A Matter of Interpretation or the Influence of Experimental Setups?. Antibiotics, 2022, 11, 1665.	1.5	1
139	Bacterial lipid biophysics and membrane organization. Current Opinion in Microbiology, 2023, 74, 102315.	2.3	8

#	Article	IF	Citations
140	Insights into the Formation of Intermolecular Complexes of Fluorescent Probe 10-N-Nonyl Acridine Orange with Cardiolipin and Phosphatidylglycerol in Bacterial Plasma Membrane by Molecular Modeling. Molecules, 2023, 28, 1929.	1.7	1
141	Recent advances in using liposomes for delivery of nucleic acid-based therapeutics. OpenNano, 2023, 11, 100132.	1.8	16