Otto Geiger

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84 3,848 34 61 g-index

87 4,423 5 avg, IF 5.48 L-index

#	Paper	IF	Citations
84	A novel highly unsaturated fatty acid moiety of lipo-oligosaccharide signals determines host specificity of Rhizobium. <i>Nature</i> , 1991 , 354, 125-30	50.4	513
83	Bacterial membrane lipids: diversity in structures and pathways. <i>FEMS Microbiology Reviews</i> , 2016 , 40, 133-59	15.1	481
82	Biosynthesis of phosphatidylcholine in bacteria. <i>Progress in Lipid Research</i> , 2003 , 42, 115-62	14.3	227
81	The regulator gene phoB mediates phosphate stress-controlled synthesis of the membrane lipid diacylglyceryl-N,N,N-trimethylhomoserine in Rhizobium (Sinorhizobium) meliloti. <i>Molecular Microbiology</i> , 1999 , 32, 63-73	4.1	124
80	Phosphatidylcholine biosynthesis and function in bacteria. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013 , 1831, 503-13	5	121
79	A global analysis of protein expression profiles in Sinorhizobium meliloti: discovery of new genes for nodule occupancy and stress adaptation. <i>Molecular Plant-Microbe Interactions</i> , 2003 , 16, 508-24	3.6	113
78	Amino acid-containing membrane lipids in bacteria. <i>Progress in Lipid Research</i> , 2010 , 49, 46-60	14.3	111
77	Isolation of the Rhizobium leguminosarum NodF nodulation protein: NodF carries a 4Vphosphopantetheine prosthetic group. <i>Journal of Bacteriology</i> , 1991 , 173, 2872-8	3.5	88
76	Membrane lipids in plant-associated bacteria: their biosyntheses and possible functions. <i>Molecular Plant-Microbe Interactions</i> , 2003 , 16, 567-79	3.6	83
75	Sinorhizobium meliloti phospholipase C required for lipid remodeling during phosphorus limitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 302-7	11.5	81
74	Plant-exuded choline is used for rhizobial membrane lipid biosynthesis by phosphatidylcholine synthase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 20011-6	5.4	78
73	Pathways for phosphatidylcholine biosynthesis in bacteria. <i>Microbiology (United Kingdom)</i> , 2003 , 149, 3461-3471	2.9	76
72	The lipid lysyl-phosphatidylglycerol is present in membranes of Rhizobium tropici CIAT899 and confers increased resistance to polymyxin B under acidic growth conditions. <i>Molecular Plant-Microbe Interactions</i> , 2007 , 20, 1421-30	3.6	74
71	Cloning and characterization of the gene for phosphatidylcholine synthase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 18919-25	5.4	72
70	Phosphatidylcholine levels in Bradyrhizobium japonicum membranes are critical for an efficient symbiosis with the soybean host plant. <i>Molecular Microbiology</i> , 2004 , 39, 1186-1198	4.1	71
69	Identification of a gene required for the formation of lyso-ornithine lipid, an intermediate in the biosynthesis of ornithine-containing lipids. <i>Molecular Microbiology</i> , 2004 , 53, 1757-70	4.1	68
68	Phosphatidylcholine synthesis is required for optimal function of Legionella pneumophila virulence determinants. <i>Cellular Microbiology</i> , 2008 , 10, 514-28	3.9	67

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67	Inactivation of the gene for phospholipid N-methyltransferase in Sinorhizobium meliloti: phosphatidylcholine is required for normal growth. <i>Molecular Microbiology</i> , 2000 , 37, 763-72	4.1	65	
66	Identification of a gene required for the biosynthesis of ornithine-derived lipids. <i>Molecular Microbiology</i> , 2002 , 45, 721-33	4.1	62	
65	Bacterial lipid diversity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017 , 1862, 1287-1299	5	58	
64	Rhizobium meliloti mutants deficient in phospholipid N-methyltransferase still contain phosphatidylcholine. <i>Journal of Bacteriology</i> , 1997 , 179, 6921-8	3.5	57	
63	A ClC chloride channel homolog and ornithine-containing membrane lipids of Rhizobium tropici CIAT899 are involved in symbiotic efficiency and acid tolerance. <i>Molecular Plant-Microbe Interactions</i> , 2005 , 18, 1175-85	3.6	53	
62	Hydroxylated ornithine lipids increase stress tolerance in Rhizobium tropici CIAT899. <i>Molecular Microbiology</i> , 2011 , 79, 1496-514	4.1	52	
61	FadD is required for utilization of endogenous fatty acids released from membrane lipids. <i>Journal of Bacteriology</i> , 2011 , 193, 6295-304	3.5	52	
60	Phosphorus-free membrane lipids of Sinorhizobium meliloti are not required for the symbiosis with alfalfa but contribute to increased cell yields under phosphorus-limiting conditions of growth. <i>Molecular Plant-Microbe Interactions</i> , 2005 , 18, 973-82	3.6	52	
59	Plasmids with a chromosome-like role in rhizobia. <i>Journal of Bacteriology</i> , 2011 , 193, 1317-26	3.5	50	
58	Crystalline quinoprotein glucose dehydrogenase from Acinetobacter calcoaceticus. <i>Biochemistry</i> , 1986 , 25, 6043-6048	3.2	48	
57	Novel pathway for phosphatidylcholine biosynthesis in bacteria associated with eukaryotes. <i>Journal of Biotechnology</i> , 2001 , 91, 211-21	3.7	47	
56	Reversible thermal inactivation of the quinoprotein glucose dehydrogenase from Acinetobacter calcoaceticus. Ca2+ ions are necessary for re-activation. <i>Biochemical Journal</i> , 1989 , 261, 415-21	3.8	45	
55	A eukaryote-like cardiolipin synthase is present in Streptomyces coelicolor and in most actinobacteria. <i>Journal of Biological Chemistry</i> , 2009 , 284, 17383-90	5.4	42	
54	Ornithine lipids and their structural modifications: from A to E and beyond. <i>FEMS Microbiology Letters</i> , 2012 , 335, 1-10	2.9	39	
53	Enzymatic determination of pyrroloquinoline quinone using crude membranes from Escherichia coli. <i>Analytical Biochemistry</i> , 1987 , 164, 418-23	3.1	39	
52	The Sinorhizobium medicae WSM419 lpiA gene is transcriptionally activated by FsrR and required to enhance survival in lethal acid conditions. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 3049-3059	2.9	38	
51	The nodulation protein NodG shows the enzymatic activity of an 3-oxoacyl-acyl carrier protein reductase. <i>Molecular Plant-Microbe Interactions</i> , 2001 , 14, 349-57	3.6	35	
50	Serine residue 45 of nodulation protein NodF from Rhizobium leguminosarum bv. viciae is essential for its biological function. <i>Journal of Bacteriology</i> , 1994 , 176, 7740-3	3.5	33	

49	Discovery of a bifunctional acyltransferase responsible for ornithine lipid synthesis in Serratia proteamaculans. <i>Environmental Microbiology</i> , 2015 , 17, 1487-96	5.2	32
48	Rhizobial acyl carrier proteins and their roles in the formation of bacterial cell-surface components that are required for the development of nitrogen-fixing root nodules on legume hosts. <i>FEMS Microbiology Letters</i> , 2002 , 208, 153-62	2.9	32
47	The dioxygenase-encoding olsD gene from Burkholderia cenocepacia causes the hydroxylation of the amide-linked fatty acyl moiety of ornithine-containing membrane lipids. <i>Biochemistry</i> , 2011 , 50, 639	6 <u>2</u> 408	31
46	Disruption of a gene essential for sulfoquinovosyldiacylglycerol biosynthesis in Sinorhizobium meliloti has no detectable effect on root nodule symbiosis. <i>Molecular Plant-Microbe Interactions</i> , 2000 , 13, 666-72	3.6	31
45	Multiple phospholipid N-methyltransferases with distinct substrate specificities are encoded in Bradyrhizobium japonicum. <i>Journal of Bacteriology</i> , 2008 , 190, 571-80	3.5	29
44	Characterization of a novel acyl carrier protein, RkpF, encoded by an operon involved in capsular polysaccharide biosynthesis in Sinorhizobium meliloti. <i>Journal of Bacteriology</i> , 1998 , 180, 4950-4	3.5	28
43	Agrobacteria lacking ornithine lipids induce more rapid tumour formation. <i>Environmental Microbiology</i> , 2013 , 15, 895-906	5.2	27
42	Phosphatidylethanolamine is not essential for growth of Sinorhizobium meliloti on complex culture media. <i>Journal of Bacteriology</i> , 2004 , 186, 1667-77	3.5	26
41	Altered lipid A structures and polymyxin hypersensitivity of Rhizobium etli mutants lacking the LpxE and LpxF phosphatases. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010 , 1801, 593-604	5	24
40	Biosynthesis and excretion of cyclic glucans by Rhizobium meliloti 1021. <i>Journal of Bacteriology</i> , 1991 , 173, 3021-4	3.5	24
39	Sinorhizobium meliloti mutants deficient in phosphatidylserine decarboxylase accumulate phosphatidylserine and are strongly affected during symbiosis with alfalfa. <i>Journal of Bacteriology</i> , 2008 , 190, 6846-56	3.5	20
38	NMR investigations of the structural properties of the nodulation protein, NodF, from Rhizobium leguminosarum and its homology with Escherichia coli acyl carrier protein. <i>FEBS Letters</i> , 1996 , 388, 66-7	12 ^{3.8}	18
37	Transcriptional interference and repression modulate the conjugative ability of the symbiotic plasmid of Rhizobium etli. <i>Journal of Bacteriology</i> , 2008 , 190, 4189-97	3.5	17
36	NodFE-dependent fatty acids that lack an alpha-beta unsaturation are subject to differential transfer, leading to novel phospholipids. <i>Molecular Plant-Microbe Interactions</i> , 1998 , 11, 33-44	3.6	16
35	OlsG (Sinac_1600) Is an Ornithine Lipid N-Methyltransferase from the Planctomycete Singulisphaera acidiphila. <i>Journal of Biological Chemistry</i> , 2015 , 290, 15102-11	5.4	15
34	Functional and topological analysis of phosphatidylcholine synthase from Sinorhizobium meliloti. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012 , 1821, 573-81	5	15
33	Phosphatidylcholine levels of peanut-nodulating Bradyrhizobium sp. SEMIA 6144 affect cell size and motility. <i>FEMS Microbiology Letters</i> , 2010 , 303, 123-31	2.9	15
32	Expression and purification of four different rhizobial acyl carrier proteins. <i>Microbiology (United Kingdom)</i> , 2000 , 146 (Pt 4), 839-849	2.9	15

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31	Membrane-derived oligosaccharides affect porin osmoregulation only in media of low ionic strength. <i>Journal of Bacteriology</i> , 1992 , 174, 1410-3	3.5	13
30	The Molecular Basis of Host Specificity in the RhizobiumLeguminosarum-Plant Interaction. <i>Current Plant Science and Biotechnology in Agriculture</i> , 1994 , 91-98		13
29	The Function of the Rhizobial NodABC and NodFEL Operons in the Biosynthesis of Lipo-Oligosaccharides. <i>Current Plant Science and Biotechnology in Agriculture</i> , 1993 , 165-170		12
28	2-Tridecanone impacts surface-associated bacterial behaviours and hinders plant-bacteria interactions. <i>Environmental Microbiology</i> , 2018 , 20, 2049-2065	5.2	11
27	SMb20651 is another acyl carrier protein from Sinorhizobium meliloti. <i>Microbiology (United Kingdom)</i> , 2009 , 155, 257-267	2.9	9
26	Fatty acid-releasing activities in Sinorhizobium meliloti include unusual diacylglycerol lipase. <i>Environmental Microbiology</i> , 2015 , 17, 3391-406	5.2	8
25	SMc01553 is the sixth acyl carrier protein in Sinorhizobium meliloti 1021. <i>Microbiology (United Kingdom)</i> , 2010 , 156, 230-239	2.9	7
24	1,2-Diacylglycerol choline phosphotransferase catalyzes the final step in the unique Treponema denticola phosphatidylcholine biosynthesis pathway. <i>Molecular Microbiology</i> , 2017 , 103, 896-912	4.1	6
23	Deletion of the 2-acyl-glycerophosphoethanolamine cycle improve glucose metabolism in Escherichia coli strains employed for overproduction of aromatic compounds. <i>Microbial Cell Factories</i> , 2015 , 14, 194	6.4	6
22	Role of rhizobial lipo-oligosacharides in root nodule formation on leguminous plants. <i>Plant and Soil</i> , 1994 , 161, 81-89	4.2	5
21	Phospholipids and Alternative Membrane Lipids 1998 , 55-80		4
20	Defining Substrate Specificities for Lipase and Phospholipase Candidates. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	3
19	Mode of Binding of Pyrroloquinoline Quinone to Glucose Dehydrogenase from Acinetobacter Calcoaceticus 1989 , 100-102		3
18	Five structural genes required for ceramide synthesis in Caulobacter and for bacterial survival. <i>Environmental Microbiology</i> , 2021 , 23, 143-159	5.2	3
17	Membrane Lipid Degradation and Lipid Cycles in Microbes 2019 , 231-254		2
16	Membrane Lipid Degradation and Lipid Cycles in Microbes 2017 , 1-24		2
15	Bacterial Sphingolipids and Sulfonolipids 2019 , 123-137		2
14	ExoS/ChvI Two-Component Signal-Transduction System Activated in the Absence of Bacterial Phosphatidylcholine. <i>Frontiers in Plant Science</i> , 2021 , 12, 678976	6.2	2

13	Formation of Bacterial Glycerol-Based Membrane Lipids: Pathways, Enzymes, and Reactions 2019 , 87-10	07	1
12	Lipids and Legionella Virulence 2019 , 1-12		1
11	Evidence of codon usage in the nearest neighbor spacing distribution of bases in bacterial genomes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 1255-1269	3.3	1
10	Formation of Bacterial Glycerol-Based Membrane Lipids: Pathways, Enzymes, and Reactions 2018 , 1-21		1
9	Rhizobial Volatiles: Potential New Players in the Complex Interkingdom Signaling With Legumes. <i>Frontiers in Plant Science</i> , 2021 , 12, 698912	6.2	1
8	Role of and Long-Chain Acyl-CoA Synthetase FadD in Long-Term Survival. <i>Microorganisms</i> , 2020 , 8,	4.9	1
7	Formation of Fatty Acids 2019 , 43-55		О
6	Lipids and Legionella Virulence 2020 , 133-144		
5	Formation of Fatty Acids 2018 , 1-13		
4	Bacterial Sphingolipids and Sulfonolipids 2018 , 1-15		
3	Role of rhizobial lipo-oligosacharides in root nodule formation on leguminous plants 1994 , 81-89		
2	Structural Determination and Biosynthetic Studies of the Rhizobial Nod Metabolites: The Lipo-Chitin Oligosaccharides 1996 , 385-401		

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