Samuel I Miller

List of Publications by Year
in descending order

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115 papers	18,340 citations	15504 65 h-index	20961 115 g-index
120 all docs	120 docs citations	120 times ranked	14515 citing authors

#	Article	IF	Citations
1	Aminoglycoside antibiotics induce bacterial biofilm formation. Nature, 2005, 436, 1171-1175.	27.8	1,112
2	A two-component regulatory system (phoP phoQ) controls Salmonella typhimurium virulence.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 5054-5058.	7.1	914
3	LPS, TLR4 and infectious disease diversity. Nature Reviews Microbiology, 2005, 3, 36-46.	28.6	826
4	Salmonellae interplay with host cells. Nature Reviews Microbiology, 2008, 6, 53-66.	28.6	708
5	PmrAâ€“PmrBâ€regulated genes necessary for 4â€aminoarabinose lipid A modification and polymyxin resistance. Molecular Microbiology, 1998, 27, 1171-1182.	2.5	569
6	Lipid A Acylation and Bacterial Resistance against Vertebrate Antimicrobial Peptides. Cell, 1998, 95, 189-198.	28.9	569
7	Human Toll-like receptor 4 recognizes host-specific LPS modifications. Nature Immunology, 2002, 3, 354-359.	14.5	548
8	Regulation of Lipid A Modifications by Salmonella typhimurium Virulence Genes phoP-phoQ. Science, 1997, 276, 250-253.	12.6	544
9	Recognition of Antimicrobial Peptides by a Bacterial Sensor Kinase. Cell, 2005, 122, 461-472.	28.9	495
10	Specific Lipopolysaccharide Found in Cystic Fibrosis Airway Pseudomonas aeruginosa. Science, 1999, 286, 1561-1565.	12.6	471
11	Salmonella typhimurium activates virulence gene transcription within acidified macrophage phagosomes.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 10079-10083.	7.1	438
12	Salmonellae interactions with host processes. Nature Reviews Microbiology, 2015, 13, 191-205.	28.6	414
13	Constitutive expression of the phoP regulon attenuates Salmonella virulence and survival within macrophages. Journal of Bacteriology, 1990, 172, 2485-2490.	2.2	406
14	PhoP-PhoQ activates transcription of pmrAB, encoding a two-component regulatory system involved in Salmonella typhimurium antimicrobial peptide resistance. Journal of Bacteriology, 1996, 178, 6857-6864.	2.2	392
15	Lipid A mutant Salmonella with suppressed virulence and TNFÎ± induction retain tumor-targeting in vivo. Nature Biotechnology, 1999, 17, 37-41.	17.5	382
16	Genetic and Functional Analysis of a PmrA-PmrB-Regulated Locus Necessary for Lipopolysaccharide Modification, Antimicrobial Peptide Resistance, and Oral Virulence of Salmonella enterica Serovar Typhimurium. Infection and Immunity, 2000, 68, 6139-6146.	2.2	356
17	Salmonella: A Model for Bacterial Pathogenesis. Annual Review of Medicine, 2001, 52, 259-274.	12.2	354
18	Salmonella stimulate macrophage macropinocytosis and persist within spacious phagosomes.. Journal of Experimental Medicine, 1994, 179, 601-608.	8.5	336

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19	Transfer of palmitate from phospholipids to lipid A in outer membranes of Gram-negative bacteria. EMBO Journal, 2000, 19, 5071-5080.	7.8	325
20	A PhoP-Regulated Outer Membrane Protease of Salmonella enterica Serovar Typhimurium Promotes Resistance to Alpha-Helical Antimicrobial Peptides. Journal of Bacteriology, 2000, 182, 4077-4086.	2.2	307
21	phoP/phoQ-Deleted Salmonella typhi (Ty800) Is a Safe and Immunogenic Single Dose Typhoid Fever Vaccine in Volunteers. Journal of Infectious Diseases, 1996, 173, 1408-1414.	4.0	256
22	A conserved amino acid sequence directing intracellular type III secretion by Salmonella typhimurium. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 7539-7544.	7.1	256
23	Activation of the Bacterial Sensor Kinase PhoQ by Acidic pH. Molecular Cell, 2007, 26, 165-174.	9.7	251
24	Asymmetrical Distribution of the Second Messenger c-di-GMP upon Bacterial Cell Division. Science, 2010, 328, 1295-1297.	12.6	245
25	Regulation of Salmonella typhimurium virulence gene expression by cationic antimicrobial peptides. Molecular Microbiology, 2003, 50, 219-230.	2.5	242
26	Transcriptional activation of Salmonella typhimurium invasion genes by a member of the phosphorylated responseâ€regulator superfamily. Molecular Microbiology, 1996, 22, 715-727.	2.5	209
27	Lipid A Modifications in Polymyxin-resistant Salmonella typhimurium. Journal of Biological Chemistry, 2001, 276, 43111-43121.	3.4	206
28	Cyclic di-GMP as a bacterial second messenger. Microbiology (United Kingdom), 2004, 150, 2497-2502.	1.8	205
29	A PhoP/PhoQ-induced Lipase (PagL) That Catalyzes 3-O-Deacylation of Lipid A Precursors in Membranes ofSalmonella typhimurium. Journal of Biological Chemistry, 2001, 276, 9083-9092.	3.4	182
30	Salmonellae PhoPQ regulation of the outer membrane to resist innate immunity. Current Opinion in Microbiology, 2014, 17, 106-113.	5.1	178
31	A Salmonella typhimurium virulence protein is similar to a Yersinia enterocolitica invasion protein and a bacteriophage lambda outer membrane protein. Journal of Bacteriology, 1991, 173, 86-93.	2.2	165
32	Analysis of the Genome of theEscherichia coliO157:H7 2006 Spinach-Associated Outbreak Isolate Indicates Candidate Genes That May Enhance Virulence. Infection and Immunity, 2009, 77, 3713-3721.	2.2	163
33	Structure and Function of Salmonella SifA Indicate that Its Interactions with SKIP, SseJ, and RhoA Family GTPases Induce Endosomal Tubulation. Cell Host and Microbe, 2008, 4, 434-446.	11.0	159
34	Salmonella typhimurium secreted invasion determinants are homologous to Shigella Ipa proteins. Molecular Microbiology, 1995, 18, 479-490.	2.5	155
35	Antibiotic Resistance and Regulation of the Gram-Negative Bacterial Outer Membrane Barrier by Host Innate Immune Molecules. MBio, 2016, 7, .	4.1	154
36	The Salmonellae PhoQ sensor: mechanisms of detection of phagosome signals. Cellular Microbiology, 2008, 10, 576-582.	2.1	151

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37	3-O-Deacylation of Lipid A by PagL, a PhoP/PhoQ-regulated Deacylase of Salmonella typhimurium, Modulates Signaling through Toll-like Receptor 4. Journal of Biological Chemistry, 2004, 279, 20044-20048.	3.4	149
38	PhoPQ-Mediated Regulation Produces a More Robust Permeability Barrier in the Outer Membrane ofSalmonella entericaSerovar Typhimurium. Journal of Bacteriology, 2007, 189, 7213-7222.	2.2	140
39	Characterization of defensin resistance phenotypes associated with mutations in the phoP virulence regulon of Salmonella typhimurium. Infection and Immunity, 1990, 58, 3706-3710.	2.2	140
40	Inhibiting the Evolution of Antibiotic Resistance. Molecular Cell, 2019, 73, 157-165.e5.	9.7	139
41	PhoP/PhoQ: macrophage-specific modulators ofSalmonellavirulence?. Molecular Microbiology, 1991, 5, 2073-2078.	2.5	138
42	PhoPQ regulates acidic glycerophospholipid content of the Salmonella Typhimurium outer membrane. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1963-1968.	7.1	133
43	The Salmonella enterica Serovar Typhimurium Translocated Effectors SseJ and SifB Are Targeted to the Salmonella -Containing Vacuole. Infection and Immunity, 2003, 71, 418-427.	2.2	123
44	Rapid and complete fusion of macrophage lysosomes with phagosomes containing Salmonella typhimurium. Infection and Immunity, 1996, 64, 3877-3883.	2.2	118
45	Metal Bridges between the PhoQ Sensor Domain and the Membrane Regulate Transmembrane Signaling. Journal of Molecular Biology, 2006, 356, 1193-1206.	4.2	116
46	Further characterization of the PhoP regulon: identification of new PhoP-activated virulence loci. Infection and Immunity, 1994, 62, 5095-5101.	2.2	115
47	Evaluation of a phoP/phoQ-deleted, aroA-deleted live oral Salmonella typhi vaccine strain in human volunteers. Vaccine, 1996, 14, 19-24.	3.8	111
48	Antimicrobial Peptides Activate the Rcs Regulon through the Outer Membrane Lipoprotein RcsF. Journal of Bacteriology, 2010, 192, 4894-4903.	2.2	109
49	The bacterial second messenger c-di-GMP: mechanisms of signalling. Cellular Microbiology, 2011, 13, 1122-1129.	2.1	109
50	Metagenomic evidence for taxonomic dysbiosis and functional imbalance in the gastrointestinal tracts of children with cystic fibrosis. Scientific Reports, 2016, 6, 22493.	3.3	107
51	Visualization of Vacuolar Acidification-induced Transcription of Genes of Pathogens inside Macrophages. Molecular Biology of the Cell, 2006, 17, 498-510.	2.1	105
52	c-di-GMP heterogeneity is generated by the chemotaxis machinery to regulate flagellar motility. ELife, 2013, 2, e01402.	6.0	103
53	SseJ Deacylase Activity by Salmonella enterica Serovar Typhimurium Promotes Virulence in Mice. Infection and Immunity, 2005, 73, 6249-6259.	2.2	102
54	The gram-negative bacterial periplasm: Size matters. PLoS Biology, 2018, 16, e2004935.	5.6	102

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55	Spacious phagosome formation within mouse macrophages correlates with Salmonella serotype pathogenicity and host susceptibility. Infection and Immunity, 1995, 63, 4456-4462.	2.2	99
56	Evolution of Burkholderia pseudomallei in Recurrent Melioidosis. PLoS ONE, 2012, 7, e36507.	2.5	96
57	A HilA-Independent Pathway to Salmonella typhimurium Invasion Gene Transcription. Journal of Bacteriology, 1999, 181, 3096-3104.	2.2	91
58	Delivery of Cardiolipins to the Salmonella Outer Membrane Is Necessary for Survival within Host Tissues and Virulence. Cell Host and Microbe, 2015, 17, 441-451.	11.0	85
59	The response threshold of <scp>S</scp>almonella<scp><scp>PilZ</scp></scp> domain proteins is determined by their binding affinities for câ€diâ€<scp>GMP</scp>. Molecular Microbiology, 2012, 86, 1424-1440.	2.5	84
60	Escherichia coli Dysbiosis Correlates With Gastrointestinal Dysfunction in Children With Cystic Fibrosis. Clinical Infectious Diseases, 2014, 58, 396-399.	5.8	82
61	The Acinetobacter baumannii Mla system and glycerophospholipid transport to the outer membrane. ELife, 2019, 8, .	6.0	81
62	A Genome-wide In Vitro Bacterial-Infection Screen Reveals Human Variation in the Host Response Associated with Inflammatory Disease. American Journal of Human Genetics, 2009, 85, 214-227.	6.2	80
63	Purification and primary structure of murine cryptdin-1, a Paneth cell defensin. FEBS Letters, 1992, 304, 146-148.	2.8	77
64	A Refined Model of the Prototypical Salmonella SPI-1 T3SS Basal Body Reveals the Molecular Basis for Its Assembly. PLoS Pathogens, 2013, 9, e1003307.	4.7	76
65	A direct screen for c-di-GMP modulators reveals a Salmonella Typhimurium periplasmic ÊŸ-argininеâ€“sensing pathway. Science Signaling, 2015, 8, ra57.	3.6	76
66	mig - 14 Is a Salmonella Gene That Plays a Role in Bacterial Resistance to Antimicrobial Peptides. Journal of Bacteriology, 2002, 184, 3203-3213.	2.2	75
67	Identification of PhoP-PhoQ activated genes within a duplicated region of theSalmonella typhimuriumchromosome. Microbial Pathogenesis, 1998, 25, 77-90.	2.9	70
68	InvB Is a Type III Secretion Chaperone Specific for SspA. Journal of Bacteriology, 2000, 182, 6638-6644.	2.2	68
69	Fecal dysbiosis in infants with cystic fibrosis is associated with early linear growth failure. Nature Medicine, 2020, 26, 215-221.	30.7	65
70	Humanized TLR4/MD-2 Mice Reveal LPS Recognition Differentially Impacts Susceptibility to Yersinia pestis and Salmonella enterica. PLoS Pathogens, 2012, 8, e1002963.	4.7	64
71	Pseudomonas aeruginosa Phenotypes Associated With Eradication Failure in Children With Cystic Fibrosis. Clinical Infectious Diseases, 2014, 59, 624-631.	5.8	64
72	Gastrointestinal Pathology in Juvenile and Adult CFTR-Knockout Ferrets. American Journal of Pathology, 2014, 184, 1309-1322.	3.8	63

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73	S. Typhimurium strategies to resist killing by cationic antimicrobial peptides. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 3021-3025.	2.6	63
74	Inhibition of Salmonella enterica Serovar Typhimurium Lipopolysaccharide Deacylation by Aminoarabinose Membrane Modification. Journal of Bacteriology, 2005, 187, 2448-2457.	2.2	61
75	Functional genetic screen of human diversity reveals that a methionine salvage enzyme regulates inflammatory cell death. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2343-52.	7.1	59
76	Salmonella-Induced Filament Formation Is a Dynamic Phenotype Induced by Rapidly Replicating Salmonella enterica Serovar Typhimurium in Epithelial Cells. Infection and Immunity, 2005, 73, 1204-1208.	2.2	58
77	Low Level Engraftment and Improvement following a Single Colonoscopic Administration of Fecal Microbiota to Patients with Ulcerative Colitis. PLoS ONE, 2015, 10, e0133925.	2.5	58
78	Pyomelaninâ€producing Pseudomonas aeruginosa selected during chronic infections have a large chromosomal deletion which confers resistance to pyocins. Environmental Microbiology, 2016, 18, 3482-3493.	3.8	57
79	CFTR dysregulation drives active selection of the gut microbiome. PLoS Pathogens, 2020, 16, e1008251.	4.7	57
80	HAMP Domain Rotation and Tilting Movements Associated with Signal Transduction in the PhoQ Sensor Kinase. MBio, 2015, 6, e00616-15.	4.1	54
81	Activation of a Bacterial Virulence Protein by the GTPase RhoA. Science Signaling, 2009, 2, ra71.	3.6	50
82	Cyclic-di-GMP regulation promotes survival of a slow-replicating subpopulation of intracellular Salmonella Typhimurium. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6335-6340.	7.1	43
83	Adaptation of commensal proliferating Escherichia coli to the intestinal tract of young children with cystic fibrosis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1605-1610.	7.1	41
84	Genetic and Functional Analysis of a PmrA-PmrB-Regulated Locus Necessary for Lipopolysaccharide Modification, Antimicrobial Peptide Resistance, and Oral Virulence of Salmonella entericaSerovar Typhimurium. Infection and Immunity, 2000, 68, 6139-6146.	2.2	37
85	Temporal and Anatomical Host Resistance to Chronic Salmonella Infection Is Quantitatively Dictated by Nramp1 and Influenced by Host Genetic Background. PLoS ONE, 2014, 9, e111763.	2.5	37
86	Acidic pH and divalent cation sensing by PhoQ are dispensable for systemic salmonellae virulence. ELife, 2015, 4, e06792.	6.0	34
87	A cellular genome-wide association study reveals human variation in microtubule stability and a role in inflammatory cell death. Molecular Biology of the Cell, 2014, 25, 76-86.	2.1	33
88	Structure and lipid dynamics in the maintenance of lipid asymmetry inner membrane complex of A. baumannii. Communications Biology, 2021, 4, 817.	4.4	31
89	A Salmonella typhimurium-translocated Glycerophospholipid:Cholesterol Acyltransferase Promotes Virulence by Binding to the RhoA Protein Switch Regions. Journal of Biological Chemistry, 2012, 287, 29654-29663.	3.4	30
90	Multi-drug resistant non-typhoidal Salmonella associated with invasive disease in western Kenya. PLoS Neglected Tropical Diseases, 2018, 12, e0006156.	3.0	29

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91	Salmonella Translocated Effectors Recruit OSBP1 to the Phagosome to Promote Vacuolar Membrane Integrity. Cell Reports, 2019, 27, 2147-2156.e5.	6.4	28
92	Salmonella vaccines with mutations in the phoP Virulence regulon. Research in Microbiology, 1990, 141, 817-821.	2.1	27
93	Salmonellamodulation of the phagosome membrane, role of SseJ. Cellular Microbiology, 2015, 17, 333-341.	2.1	26
94	Genomic Analysis of Salmonella enterica Serovar Typhimurium Characterizes Strain Diversity for Recent U.S. Salmonellosis Cases and Identifies Mutations Linked to Loss of Fitness under Nitrosative and Oxidative Stress. MBio, 2016, 7, e00154.	4.1	26
95	Structure of an Inner Membrane Protein Required for PhoPQ-Regulated Increases in Outer Membrane Cardiolipin. MBio, 2020, 11, .	4.1	24
96	Next-Generation High-Throughput Functional Annotation of Microbial Genomes. MBio, 2016, 7, .	4.1	19
97	Oral health and plaque microbial profile in juvenile idiopathic arthritis. Pediatric Rheumatology, 2019, 17, 81.	2.1	18
98	Multidrug-Resistant Acinetobacter baumannii Chloramphenicol Resistance Requires an Inner Membrane Permease. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	17
99	Expression level of human TLR4 rather than sequence is the key determinant of LPS responsiveness. PLoS ONE, 2017, 12, e0186308.	2.5	16
100	Identification of Smallâ€Molecule Modulators of Diguanylate Cyclase by FRETâ€Based Highâ€Throughput Screening. ChemBioChem, 2019, 20, 394-407.	2.6	14
101	Bacterial Vesicle Formation as a Mechanism of Protein Transfer to Animals. Cell, 2003, 115, 2-3.	28.9	11
102	Human Diversity in a Cell Surface Receptor that Inhibits Autophagy. Current Biology, 2016, 26, 1791-1801.	3.9	11
103	The cellular microbiology of Salmonellae interactions with macrophages. Cellular Microbiology, 2019, 21, e13116.	2.1	10
104	GUTSS: An Alignment-Free Sequence Comparison Method for Use in Human Intestinal Microbiome and Fecal Microbiota Transplantation Analysis. PLoS ONE, 2016, 11, e0158897.	2.5	8
105	A Cellular GWAS Approach to Define Human Variation in Cellular Pathways Important to Inflammation. Pathogens, 2016, 5, 39.	2.8	7
106	Gastrointestinal Factors Associated With Hospitalization in Infants With Cystic Fibrosis: Results From the Baby Observational and Nutrition Study. Journal of Pediatric Gastroenterology and Nutrition, 2021, 73, 395-402.	1.8	7
107	Infants with cystic fibrosis have altered fecal functional capacities with potential clinical and metabolic consequences. BMC Microbiology, 2021, 21, 247.	3.3	6
108	Î²-Barrel outer membrane proteins suppress mTORC2 activation and induce autophagic responses. Science Signaling, 2018, 11, .	3.6	5

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109	Dietary therapy for clostridium difficile colonization: A case series. Anaerobe, 2019, 57, 1-3.	2.1	5
110	Inflammation for growth. Nature, 2010, 467, 410-411.	27.8	4
111	Xenophagy: Pathogen-Containing Vacuoles Are Hard toÂDigest. Current Biology, 2019, 29, R1086-R1088.	3.9	4
112	Strategies for the Development of Vaccines for Typhoid Fever, Shigellosis, and Cholera. Annals of the New York Academy of Sciences, 1989, 569, 145-154.	3.8	3
113	Backbone chemical shift assignments for the sensor domain of the Burkholderia pseudomallei histidine kinase RisS: â€œmissingâ€•resonances at the dimer interface. Biomolecular NMR Assignments, 2015, 9, 381-385.	0.8	3
114	Toxin Glycan Binding: Lectin Keys Unlocking Host and Tissue Specificity. Cell Host and Microbe, 2020, 27, 851-853.	11.0	3
115	Editorial overview: Host-microbe interactions: Bacteria. Current Opinion in Microbiology, 2017, 35, v-viii.	5.1	1