

# Samuel I Miller

## List of Publications by Citations

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115  
papers

15,125  
citations

62  
h-index

120  
g-index

120  
ext. papers

16,890  
ext. citations

10.4  
avg, IF

6.46  
L-index

#	Paper	IF	Citations
115	Aminoglycoside antibiotics induce bacterial biofilm formation. <i>Nature</i> , <b>2005</b> , 436, 1171-5	50.4	935
114	A two-component regulatory system (phoP phoQ) controls Salmonella typhimurium virulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1989</b> , 86, 5054-8	11.5	766
113	LPS, TLR4 and infectious disease diversity. <i>Nature Reviews Microbiology</i> , <b>2005</b> , 3, 36-46	22.2	718
112	Salmonellae interplay with host cells. <i>Nature Reviews Microbiology</i> , <b>2008</b> , 6, 53-66	22.2	580
111	PmrA-PmrB-regulated genes necessary for 4-aminoarabinose lipid A modification and polymyxin resistance. <i>Molecular Microbiology</i> , <b>1998</b> , 27, 1171-82	4.1	506
110	Lipid A acylation and bacterial resistance against vertebrate antimicrobial peptides. <i>Cell</i> , <b>1998</b> , 95, 189-98	36.2	501
109	Regulation of lipid A modifications by Salmonella typhimurium virulence genes phoP-phoQ. <i>Science</i> , <b>1997</b> , 276, 250-3	33.3	479
108	Human Toll-like receptor 4 recognizes host-specific LPS modifications. <i>Nature Immunology</i> , <b>2002</b> , 3, 354-9	29.1	475
107	Recognition of antimicrobial peptides by a bacterial sensor kinase. <i>Cell</i> , <b>2005</b> , 122, 461-72	56.2	439
106	Specific lipopolysaccharide found in cystic fibrosis airway Pseudomonas aeruginosa. <i>Science</i> , <b>1999</b> , 286, 1561-5	33.3	420
105	Salmonella typhimurium activates virulence gene transcription within acidified macrophage phagosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1992</b> , 89, 10079-83	11.5	377
104	Constitutive expression of the phoP regulon attenuates Salmonella virulence and survival within macrophages. <i>Journal of Bacteriology</i> , <b>1990</b> , 172, 2485-90	3.5	347
103	PhoP-PhoQ activates transcription of pmrAB, encoding a two-component regulatory system involved in Salmonella typhimurium antimicrobial peptide resistance. <i>Journal of Bacteriology</i> , <b>1996</b> , 178, 6857-64	3.5	340
102	Lipid A mutant Salmonella with suppressed virulence and TNFalpha induction retain tumor-targeting in vivo. <i>Nature Biotechnology</i> , <b>1999</b> , 17, 37-41	44.5	318
101	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. <i>Infection and Immunity</i> , <b>2000</b> , 68, 6139-46	3.7	317
100	Salmonella: a model for bacterial pathogenesis. <i>Annual Review of Medicine</i> , <b>2001</b> , 52, 259-74	17.4	304
99	Salmonellae interactions with host processes. <i>Nature Reviews Microbiology</i> , <b>2015</b> , 13, 191-205	22.2	288

98	Salmonella stimulate macrophage macropinocytosis and persist within spacious phagosomes. <i>Journal of Experimental Medicine</i> , <b>1994</b> , 179, 601-8	16.6	286
97	Transfer of palmitate from phospholipids to lipid A in outer membranes of gram-negative bacteria. <i>EMBO Journal</i> , <b>2000</b> , 19, 5071-80	13	279
96	A PhoP-regulated outer membrane protease of Salmonella enterica serovar typhimurium promotes resistance to alpha-helical antimicrobial peptides. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 4077-86	3.5	271
95	A conserved amino acid sequence directing intracellular type III secretion by Salmonella typhimurium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 7539-44	11.5	234
94	phoP/phoQ-deleted Salmonella typhi (Ty800) is a safe and immunogenic single-dose typhoid fever vaccine in volunteers. <i>Journal of Infectious Diseases</i> , <b>1996</b> , 173, 1408-14	7	216
93	Regulation of Salmonella typhimurium virulence gene expression by cationic antimicrobial peptides. <i>Molecular Microbiology</i> , <b>2003</b> , 50, 219-30	4.1	208
92	Asymmetrical distribution of the second messenger c-di-GMP upon bacterial cell division. <i>Science</i> , <b>2010</b> , 328, 1295-7	33.3	204
91	Activation of the bacterial sensor kinase PhoQ by acidic pH. <i>Molecular Cell</i> , <b>2007</b> , 26, 165-74	17.6	200
90	Cyclic di-GMP as a bacterial second messenger. <i>Microbiology (United Kingdom)</i> , <b>2004</b> , 150, 2497-2502	2.9	184
89	Lipid A modifications in polymyxin-resistant Salmonella typhimurium: PMRA-dependent 4-amino-4-deoxy-L-arabinose, and phosphoethanolamine incorporation. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 43111-21	5.4	182
88	Transcriptional activation of Salmonella typhimurium invasion genes by a member of the phosphorylated response-regulator superfamily. <i>Molecular Microbiology</i> , <b>1996</b> , 22, 715-27	4.1	179
87	A PhoP/PhoQ-induced Lipase (PagL) that catalyzes 3-O-deacylation of lipid A precursors in membranes of Salmonella typhimurium. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 9083-92	5.4	158
86	Structure and function of Salmonella SifA indicate that its interactions with SKIP, SseJ, and RhoA family GTPases induce endosomal tubulation. <i>Cell Host and Microbe</i> , <b>2008</b> , 4, 434-46	23.4	140
85	A Salmonella typhimurium virulence protein is similar to a Yersinia enterocolitica invasion protein and a bacteriophage lambda outer membrane protein. <i>Journal of Bacteriology</i> , <b>1991</b> , 173, 86-93	3.5	139
84	Salmonella typhimurium secreted invasion determinants are homologous to Shigella Ipa proteins. <i>Molecular Microbiology</i> , <b>1995</b> , 18, 479-90	4.1	133
83	3-O-deacylation of lipid A by PagL, a PhoP/PhoQ-regulated deacylase of Salmonella typhimurium, modulates signaling through Toll-like receptor 4. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 20044-8	5.4	131
82	The Salmonellae PhoQ sensor: mechanisms of detection of phagosome signals. <i>Cellular Microbiology</i> , <b>2008</b> , 10, 576-82	3.9	129
81	Analysis of the genome of the Escherichia coli O157:H7 2006 spinach-associated outbreak isolate indicates candidate genes that may enhance virulence. <i>Infection and Immunity</i> , <b>2009</b> , 77, 3713-21	3.7	122

80	Salmonellae PhoPQ regulation of the outer membrane to resist innate immunity. <i>Current Opinion in Microbiology</i> , <b>2014</b> , 17, 106-13	7.9	121
79	PhoPQ-mediated regulation produces a more robust permeability barrier in the outer membrane of <i>Salmonella enterica</i> serovar typhimurium. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 7213-22	3.5	121
78	Characterization of defensin resistance phenotypes associated with mutations in the phoP virulence regulon of <i>Salmonella typhimurium</i> . <i>Infection and Immunity</i> , <b>1990</b> , 58, 3706-10	3.7	117
77	The <i>Salmonella enterica</i> serovar typhimurium translocated effectors SseJ and SifB are targeted to the <i>Salmonella</i> -containing vacuole. <i>Infection and Immunity</i> , <b>2003</b> , 71, 418-27	3.7	115
76	PhoP/PhoQ: macrophage-specific modulators of <i>Salmonella</i> virulence?. <i>Molecular Microbiology</i> , <b>1991</b> , 5, 2073-8	4.1	108
75	Rapid and complete fusion of macrophage lysosomes with phagosomes containing <i>Salmonella typhimurium</i> . <i>Infection and Immunity</i> , <b>1996</b> , 64, 3877-83	3.7	105
74	PhoPQ regulates acidic glycerophospholipid content of the <i>Salmonella Typhimurium</i> outer membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1963-8	11.5	104
73	Further characterization of the PhoP regulon: identification of new PhoP-activated virulence loci. <i>Infection and Immunity</i> , <b>1994</b> , 62, 5095-101	3.7	102
72	Metal bridges between the PhoQ sensor domain and the membrane regulate transmembrane signaling. <i>Journal of Molecular Biology</i> , <b>2006</b> , 356, 1193-206	6.5	101
71	Evaluation of a phoP/phoQ-deleted, aroA-deleted live oral <i>Salmonella typhi</i> vaccine strain in human volunteers. <i>Vaccine</i> , <b>1996</b> , 14, 19-24	4.1	98
70	The bacterial second messenger c-di-GMP: mechanisms of signalling. <i>Cellular Microbiology</i> , <b>2011</b> , 13, 1122-9	3.9	91
69	Visualization of vacuolar acidification-induced transcription of genes of pathogens inside macrophages. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 498-510	3.5	90
68	SseJ deacylase activity by <i>Salmonella enterica</i> serovar Typhimurium promotes virulence in mice. <i>Infection and Immunity</i> , <b>2005</b> , 73, 6249-59	3.7	89
67	Antimicrobial peptides activate the Rcs regulon through the outer membrane lipoprotein RcsF. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 4894-903	3.5	87
66	A HilA-independent pathway to <i>Salmonella typhimurium</i> invasion gene transcription. <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 3096-104	3.5	86
65	Inhibiting the Evolution of Antibiotic Resistance. <i>Molecular Cell</i> , <b>2019</b> , 73, 157-165.e5	17.6	85
64	Evolution of <i>Burkholderia pseudomallei</i> in recurrent melioidosis. <i>PLoS ONE</i> , <b>2012</b> , 7, e36507	3.7	83
63	Spacious phagosome formation within mouse macrophages correlates with <i>Salmonella</i> serotype pathogenicity and host susceptibility. <i>Infection and Immunity</i> , <b>1995</b> , 63, 4456-62	3.7	80

62	c-di-GMP heterogeneity is generated by the chemotaxis machinery to regulate flagellar motility. <i>ELife</i> , <b>2013</b> , 2, e01402	8.9	78
61	Antibiotic Resistance and Regulation of the Gram-Negative Bacterial Outer Membrane Barrier by Host Innate Immune Molecules. <i>MBio</i> , <b>2016</b> , 7,	7.8	74
60	Delivery of cardiolipins to the Salmonella outer membrane is necessary for survival within host tissues and virulence. <i>Cell Host and Microbe</i> , <b>2015</b> , 17, 441-51	23.4	71
59	The response threshold of Salmonella PilZ domain proteins is determined by their binding affinities for c-di-GMP. <i>Molecular Microbiology</i> , <b>2012</b> , 86, 1424-40	4.1	67
58	Purification and primary structure of murine cryptdin-1, a Paneth cell defensin. <i>FEBS Letters</i> , <b>1992</b> , 304, 146-8	3.8	67
57	Identification of PhoP-PhoQ activated genes within a duplicated region of the Salmonella typhimurium chromosome. <i>Microbial Pathogenesis</i> , <b>1998</b> , 25, 77-90	3.8	65
56	mig-14 is a Salmonella gene that plays a role in bacterial resistance to antimicrobial peptides. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 3203-13	3.5	64
55	InvB is a type III secretion chaperone specific for SspA. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 6638-44	3.5	64
54	A refined model of the prototypical Salmonella SPI-1 T3SS basal body reveals the molecular basis for its assembly. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003307	7.6	63
53	A genome-wide in vitro bacterial-infection screen reveals human variation in the host response associated with inflammatory disease. <i>American Journal of Human Genetics</i> , <b>2009</b> , 85, 214-27	11	60
52	The gram-negative bacterial periplasm: Size matters. <i>PLoS Biology</i> , <b>2018</b> , 16, e2004935	9.7	59
51	Humanized TLR4/MD-2 mice reveal LPS recognition differentially impacts susceptibility to Yersinia pestis and Salmonella enterica. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002963	7.6	56
50	Metagenomic evidence for taxonomic dysbiosis and functional imbalance in the gastrointestinal tracts of children with cystic fibrosis. <i>Scientific Reports</i> , <b>2016</b> , 6, 22493	4.9	56
49	Inhibition of Salmonella enterica serovar Typhimurium lipopolysaccharide deacylation by aminoarabinose membrane modification. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 2448-57	3.5	54
48	Gastrointestinal pathology in juvenile and adult CFTR-knockout ferrets. <i>American Journal of Pathology</i> , <b>2014</b> , 184, 1309-22	5.8	53
47	The Mla system and glycerophospholipid transport to the outer membrane. <i>ELife</i> , <b>2019</b> , 8,	8.9	53
46	Escherichia coli dysbiosis correlates with gastrointestinal dysfunction in children with cystic fibrosis. <i>Clinical Infectious Diseases</i> , <b>2014</b> , 58, 396-9	11.6	51
45	Salmonella-induced filament formation is a dynamic phenotype induced by rapidly replicating Salmonella enterica serovar typhimurium in epithelial cells. <i>Infection and Immunity</i> , <b>2005</b> , 73, 1204-8	3.7	50

44	A direct screen for c-di-GMP modulators reveals a Salmonella Typhimurium periplasmic L-arginine-sensing pathway. <i>Science Signaling</i> , <b>2015</b> , 8, ra57	8.8	47
43	Functional genetic screen of human diversity reveals that a methionine salvage enzyme regulates inflammatory cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E2343-52	11.5	47
42	Activation of a bacterial virulence protein by the GTPase RhoA. <i>Science Signaling</i> , <b>2009</b> , 2, ra71	8.8	46
41	<i>Pseudomonas aeruginosa</i> phenotypes associated with eradication failure in children with cystic fibrosis. <i>Clinical Infectious Diseases</i> , <b>2014</b> , 59, 624-31	11.6	45
40	<i>S. Typhimurium</i> strategies to resist killing by cationic antimicrobial peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2015</b> , 1848, 3021-5	3.8	42
39	Low Level Engraftment and Improvement following a Single Colonoscopic Administration of Fecal Microbiota to Patients with Ulcerative Colitis. <i>PLoS ONE</i> , <b>2015</b> , 10, e0133925	3.7	41
38	HAMP Domain Rotation and Tilting Movements Associated with Signal Transduction in the PhoQ Sensor Kinase. <i>MBio</i> , <b>2015</b> , 6, e00616-15	7.8	31
37	Pyomelanin-producing <i>Pseudomonas aeruginosa</i> selected during chronic infections have a large chromosomal deletion which confers resistance to pyocins. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 3482-3493	5.3	30
36	A <i>Salmonella typhimurium</i> -translocated glycerophospholipid:cholesterol acyltransferase promotes virulence by binding to the RhoA protein switch regions. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 29654-63	5.4	28
35	CFTR dysregulation drives active selection of the gut microbiome. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008251	7.6	27
34	Cyclic-di-GMP regulation promotes survival of a slow-replicating subpopulation of intracellular <i>Typhimurium</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6335-6340	11.5	26
33	Temporal and anatomical host resistance to chronic <i>Salmonella</i> infection is quantitatively dictated by Nramp1 and influenced by host genetic background. <i>PLoS ONE</i> , <b>2014</b> , 9, e111763	3.7	24
32	<i>Salmonella</i> vaccines with mutations in the phoP virulence regulon. <i>Research in Microbiology</i> , <b>1990</b> , 141, 817-21	4	23
31	Fecal dysbiosis in infants with cystic fibrosis is associated with early linear growth failure. <i>Nature Medicine</i> , <b>2020</b> , 26, 215-221	50.5	22
30	A cellular genome-wide association study reveals human variation in microtubule stability and a role in inflammatory cell death. <i>Molecular Biology of the Cell</i> , <b>2014</b> , 25, 76-86	3.5	22
29	Multi-drug resistant non-typhoidal <i>Salmonella</i> associated with invasive disease in western Kenya. <i>PLoS Neglected Tropical Diseases</i> , <b>2018</b> , 12, e0006156	4.8	18
28	Acidic pH and divalent cation sensing by PhoQ are dispensable for systemic salmonellae virulence. <i>ELife</i> , <b>2015</b> , 4, e06792	8.9	18
27	<i>Salmonella</i> Translocated Effectors Recruit OSBP1 to the Phagosome to Promote Vacuolar Membrane Integrity. <i>Cell Reports</i> , <b>2019</b> , 27, 2147-2156.e5	10.6	17

26	Salmonella modulation of the phagosome membrane, role of SseJ. <i>Cellular Microbiology</i> , <b>2015</b> , 17, 333-419	4.9	17
25	Adaptation of commensal proliferating to the intestinal tract of young children with cystic fibrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 1605-1610	11.5	17
24	Next-Generation High-Throughput Functional Annotation of Microbial Genomes. <i>MBio</i> , <b>2016</b> , 7,	7.8	16
23	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. <i>MBio</i> , <b>2016</b> , 7, e00154	7.8	15
22	Structure of an Inner Membrane Protein Required for PhoPQ-Regulated Increases in Outer Membrane Cardiolipin. <i>MBio</i> , <b>2020</b> , 11,	7.8	14
21	Expression level of human TLR4 rather than sequence is the key determinant of LPS responsiveness. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186308	3.7	12
20	Identification of Small-Molecule Modulators of Diguanylate Cyclase by FRET-Based High-Throughput Screening. <i>ChemBioChem</i> , <b>2019</b> , 20, 394-407	3.8	10
19	Multidrug-Resistant <i>Acinetobacter baumannii</i> Chloramphenicol Resistance Requires an Inner Membrane Permease. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2018</b> , 62,	5.9	9
18	Bacterial vesicle formation as a mechanism of protein transfer to animals. <i>Cell</i> , <b>2003</b> , 115, 2-3	56.2	8
17	GUTSS: An Alignment-Free Sequence Comparison Method for Use in Human Intestinal Microbiome and Fecal Microbiota Transplantation Analysis. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158897	3.7	7
16	A Cellular GWAS Approach to Define Human Variation in Cellular Pathways Important to Inflammation. <i>Pathogens</i> , <b>2016</b> , 5,	4.5	7
15	Dietary therapy for clostridium difficile colonization: A case series. <i>Anaerobe</i> , <b>2019</b> , 57, 1-3	2.8	5
14	Oral health and plaque microbial profile in juvenile idiopathic arthritis. <i>Pediatric Rheumatology</i> , <b>2019</b> , 17, 81	3.5	5
13	βBarrel outer membrane proteins suppress mTORC2 activation and induce autophagic responses. <i>Science Signaling</i> , <b>2018</b> , 11,	8.8	5
12	Structure and lipid dynamics in the <i>A. baumannii</i> maintenance of lipid asymmetry (MLA) inner membrane complex		4
11	Structure and lipid dynamics in the maintenance of lipid asymmetry inner membrane complex of <i>A. baumannii</i> . <i>Communications Biology</i> , <b>2021</b> , 4, 817	6.7	4
10	Human Diversity in a Cell Surface Receptor that Inhibits Autophagy. <i>Current Biology</i> , <b>2016</b> , 26, 1791-801	6.3	4
9	Backbone chemical shift assignments for the sensor domain of the Burkholderia pseudomallei histidine kinase RisS: "missing" resonances at the dimer interface. <i>Biomolecular NMR Assignments</i> , <b>2015</b> , 9, 381-5	0.7	3

8	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. <i>Infection and Immunity</i> , <b>2000</b> , 68, 6139-6146	3.7	3
7	Strategies for the development of vaccines for typhoid fever, shigellosis, and cholera. <i>Annals of the New York Academy of Sciences</i> , <b>1989</b> , 569, 145-54	6.5	2
6	Toxin Glycan Binding: Lectin Keys Unlocking Host and Tissue Specificity. <i>Cell Host and Microbe</i> , <b>2020</b> , 27, 851-853	23.4	2
5	Gastrointestinal Factors Associated With Hospitalization in Infants With Cystic Fibrosis: Results From the Baby Observational and Nutrition Study. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , <b>2021</b> , 73, 395-402	2.8	2
4	The cellular microbiology of Salmonellae interactions with macrophages. <i>Cellular Microbiology</i> , <b>2019</b> , 21, e13116	3.9	1
3	Infants with cystic fibrosis have altered fecal functional capacities with potential clinical and metabolic consequences. <i>BMC Microbiology</i> , <b>2021</b> , 21, 247	4.5	1
2	Xenophagy: Pathogen-Containing Vacuoles Are Hard to Digest. <i>Current Biology</i> , <b>2019</b> , 29, R1086-R1088	6.3	0
1	Measuring Individual Cell Cyclic di-GMP: Identifying Population Diversity and Cyclic di-GMP Heterogeneity <b>2020</b> , 193-207		0