

# Abraham L Sonenshein

## List of Publications by Citations

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198 papers	9,099 citations	54 h-index	87 g-index
200 ext. papers	10,293 ext. citations	6.1 avg, IF	6.28 L-index

#	Paper	IF	Citations
198	Bile salts and glycine as cogerminants for <i>Clostridium difficile</i> spores. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 2505-12	3.5	445
197	Control of key metabolic intersections in <i>Bacillus subtilis</i> . <i>Nature Reviews Microbiology</i> , <b>2007</b> , 5, 917-27	22.2	291
196	<i>Bacillus subtilis</i> CodY represses early-stationary-phase genes by sensing GTP levels. <i>Genes and Development</i> , <b>2001</b> , 15, 1093-103	12.6	268
195	CodY, a global regulator of stationary phase and virulence in Gram-positive bacteria. <i>Current Opinion in Microbiology</i> , <b>2005</b> , 8, 203-7	7.9	267
194	Additional targets of the <i>Bacillus subtilis</i> global regulator CodY identified by chromatin immunoprecipitation and genome-wide transcript analysis. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 1911-22	3.5	233
193	Regulated transcription of <i>Clostridium difficile</i> toxin genes. <i>Molecular Microbiology</i> , <b>1998</b> , 27, 107-20	4.1	217
192	Inhibiting the initiation of <i>Clostridium difficile</i> spore germination using analogs of chenodeoxycholic acid, a bile acid. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 4983-90	3.5	216
191	Change in the template specificity of RNA polymerase during sporulation of <i>Bacillus subtilis</i> . <i>Nature</i> , <b>1969</b> , 224, 35-7	50.4	185
190	Repression of <i>Clostridium difficile</i> toxin gene expression by CodY. <i>Molecular Microbiology</i> , <b>2007</b> , 66, 2064-19	4.1	175
189	Activation of the <i>Bacillus subtilis</i> global regulator CodY by direct interaction with branched-chain amino acids. <i>Molecular Microbiology</i> , <b>2004</b> , 53, 599-611	4.1	175
188	Direct targets of CodY in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 2861-77	3.5	148
187	A gene required for nutritional repression of the <i>Bacillus subtilis</i> dipeptide permease operon. <i>Molecular Microbiology</i> , <b>1995</b> , 15, 689-702	4.1	145
186	Chenodeoxycholate is an inhibitor of <i>Clostridium difficile</i> spore germination. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 1115-7	3.5	141
185	<i>Staphylococcus aureus</i> CodY negatively regulates virulence gene expression. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 2257-65	3.5	137
184	Integration of metabolism and virulence by <i>Clostridium difficile</i> CodY. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 5350-62	3.5	134
183	Characterization of <i>relA</i> and <i>codY</i> mutants of <i>Listeria monocytogenes</i> : identification of the CodY regulon and its role in virulence. <i>Molecular Microbiology</i> , <b>2007</b> , 63, 1453-67	4.1	128
182	Role and regulation of <i>Bacillus subtilis</i> glutamate dehydrogenase genes. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 6298-305	3.5	124

181	Integrational Vectors for Genetic Manipulation in <i>Bacillus subtilis</i> <b>2014</b> , 615-624		119
180	Isolation and characterization of rifampin-resistant and streptolydigin-resistant mutants of <i>Bacillus subtilis</i> with altered sporulation properties. <i>Journal of Bacteriology</i> , <b>1974</b> , 120, 253-65	3.5	118
179	The <i>dlt</i> operon confers resistance to cationic antimicrobial peptides in <i>Clostridium difficile</i> . <i>Microbiology (United Kingdom)</i> , <b>2011</b> , 157, 1457-1465	2.9	108
178	Sporulation Genes and Intercompartmental Regulation	483-517	108
177	Regulation of <i>Bacillus subtilis</i> glutamine synthetase gene expression by the product of the <i>glnR</i> gene. <i>Journal of Molecular Biology</i> , <b>1989</b> , 210, 51-63	6.5	107
176	Efficient sporulation in <i>Clostridium difficile</i> requires disruption of the <i>sigmaK</i> gene. <i>Molecular Microbiology</i> , <b>2003</b> , 48, 811-21	4.1	104
175	Environmental response and autoregulation of <i>Clostridium difficile</i> TxeR, a sigma factor for toxin gene expression. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 5971-8	3.5	104
174	The course of phage phi-e infection in sporulating cells of <i>Bacillus subtilis</i> strain 3610. <i>Virology</i> , <b>1969</b> , 39, 265-75	3.6	100
173	CcpC, a novel regulator of the LysR family required for glucose repression of the <i>citB</i> gene in <i>Bacillus subtilis</i> . <i>Journal of Molecular Biology</i> , <b>2000</b> , 295, 865-78	6.5	92
172	Proline-dependent regulation of <i>Clostridium difficile</i> Stickland metabolism. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 844-54	3.5	88
171	Fidaxomicin inhibits spore production in <i>Clostridium difficile</i> . <i>Clinical Infectious Diseases</i> , <b>2012</b> , 55 Suppl 2, S162-9	11.6	88
170	Identification of a genetic locus responsible for antimicrobial peptide resistance in <i>Clostridium difficile</i> . <i>Infection and Immunity</i> , <b>2011</b> , 79, 167-76	3.7	87
169	Interaction of <i>Bacillus subtilis</i> CodY with GTP. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 798-806	3.5	86
168	Positive regulation of <i>Bacillus subtilis</i> <i>ackA</i> by CodY and CcpA: establishing a potential hierarchy in carbon flow. <i>Molecular Microbiology</i> , <b>2006</b> , 62, 811-22	4.1	82
167	RNA polymerase mutants blocked in sporulation. <i>Nature</i> , <b>1970</b> , 227, 906-9	50.4	80
166	The structure of CodY, a GTP- and isoleucine-responsive regulator of stationary phase and virulence in gram-positive bacteria. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 11366-73	5.4	78
165	Genetic and biochemical analysis of CodY-binding sites in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 1224-36	3.5	76
164	Integration of metabolism and virulence in <i>Clostridium difficile</i> . <i>Research in Microbiology</i> , <b>2015</b> , 166, 375-83		74

163	Spore Germination and Outgrowth <b>2014</b> , 537-548		73
162	Role of TnrA in nitrogen source-dependent repression of <i>Bacillus subtilis</i> glutamate synthase gene expression. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 5939-47	3.5	73
161	RNA Polymerase and Sigma Factors <b>2014</b> , 287-312		72
160	Systematics and Ecology of <i>Bacillus</i> <b>2014</b> , 1-16		70
159	Genome-wide identification of <i>Bacillus subtilis</i> CodY-binding sites at single-nucleotide resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 7026-31	11.5	70
158	The global regulator CodY regulates toxin gene expression in <i>Bacillus anthracis</i> and is required for full virulence. <i>Infection and Immunity</i> , <b>2009</b> , 77, 4437-45	3.7	70
157	Mechanism of initiation of transcription by <i>Bacillus subtilis</i> RNA polymerase at several promoters. <i>Journal of Molecular Biology</i> , <b>1992</b> , 223, 399-414	6.5	69
156	Regulating the Intersection of Metabolism and Pathogenesis in Gram-positive Bacteria. <i>Microbiology Spectrum</i> , <b>2015</b> , 3,	8.9	68
155	GTP dysregulation in <i>Bacillus subtilis</i> cells lacking (p)ppGpp results in phenotypic amino acid auxotrophy and failure to adapt to nutrient downshift and regulate biosynthesis genes. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 189-201	3.5	67
154	<i>Bacillus subtilis</i> <i>ilvB</i> operon: an intersection of global regulons. <i>Molecular Microbiology</i> , <b>2005</b> , 56, 1549-59.1	4.1	67
153	Interaction of CodY, a novel <i>Bacillus subtilis</i> DNA-binding protein, with the <i>dpp</i> promoter region. <i>Molecular Microbiology</i> , <b>1996</b> , 20, 843-52	4.1	65
152	Carbohydrate Uptake and Metabolism <b>2014</b> , 129-150		64
151	Hierarchical expression of genes controlled by the <i>Bacillus subtilis</i> global regulatory protein CodY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 8227-32	11.5	64
150	Direct and indirect roles of CcpA in regulation of <i>Bacillus subtilis</i> Krebs cycle genes. <i>Molecular Microbiology</i> , <b>2002</b> , 45, 179-90	4.1	62
149	General Stress Response369-384		60
148	Molecular mechanism of the regulation of <i>Bacillus subtilis</i> <i>gltAB</i> expression by GltC. <i>Journal of Molecular Biology</i> , <b>2007</b> , 365, 1298-313	6.5	59
147	The metabolic regulator CodY links <i>Listeria monocytogenes</i> metabolism to virulence by directly activating the virulence regulatory gene <i>prfA</i> . <i>Molecular Microbiology</i> , <b>2015</b> , 95, 624-44	4.1	56
146	Structure and Synthesis of Cell Wall, Spore Cortex, Teichoic Acids, S-Layers, and Capsules <b>2014</b> , 21-41		55

145	Two-Component Systems, Phosphorelays, and Regulation of Their Activities by Phosphatases473-481		55
144	Fidaxomicin inhibits toxin production in <i>Clostridium difficile</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2013</b> , 68, 515-22	5.1	54
143	Roadblock repression of transcription by <i>Bacillus subtilis</i> CodY. <i>Journal of Molecular Biology</i> , <b>2011</b> , 411, 729-43	6.5	53
142	Glutamine synthetase gene of <i>Bacillus subtilis</i> . <i>Gene</i> , <b>1984</b> , 32, 427-38	3.8	53
141	CodY-mediated regulation of the <i>Staphylococcus aureus</i> Agr system integrates nutritional and population density signals. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 1184-96	3.5	52
140	Regulation of CodY activity through modulation of intracellular branched-chain amino acid pools. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 6357-68	3.5	51
139	Proline utilization by <i>Bacillus subtilis</i> : uptake and catabolism. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 745-58	3.5	49
138	CodY deletion enhances in vivo virulence of community-associated methicillin-resistant <i>Staphylococcus aureus</i> clone USA300. <i>Infection and Immunity</i> , <b>2012</b> , 80, 2382-9	3.7	47
137	Complex regulation of the <i>Bacillus subtilis</i> aconitase gene. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 1672-80	3.5	47
136	<i>Bacillus subtilis</i> aconitase is required for efficient late-sporulation gene expression. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 6396-405	3.5	45
135	CcpA-dependent regulation of <i>Bacillus subtilis</i> glutamate dehydrogenase gene expression. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 3392-8	3.5	45
134	A Gene Odyssey: Exploring the Genomes of Endospore-Forming Bacteria519-525		43
133	Proteins of the Spore Core and Coat <b>2014</b> , 527-535		42
132	Adaptation to Changing Osmolanty385-391		42
131	Peptide Antibiotics <b>2014</b> , 897-916		40
130	A region of <i>Bacillus subtilis</i> CodY protein required for interaction with DNA. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 4127-39	3.5	40
129	Regulatory Proteins That Control Late-Growth Development785-800		40
128	Carvacrol and trans-cinnamaldehyde reduce <i>Clostridium difficile</i> toxin production and cytotoxicity in vitro. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 4415-30	6.3	38

127	The Pho Regulon	193-201		38
126	Commercial Production of Extracellular Enzymes	2014, 917-937		37
125	Carbon Source-Mediated Catabolite Repression	2014, 213-219		37
124	Plasmids	625-644		37
123	Genetic and biochemical analysis of the interaction of <i>Bacillus subtilis</i> CodY with branched-chain amino acids. <i>Journal of Bacteriology</i> , 2009, 191, 6865-76		3.5	36
122	Modulation of activity of <i>Bacillus subtilis</i> regulatory proteins GltC and TnrA by glutamate dehydrogenase. <i>Journal of Bacteriology</i> , 2004, 186, 3399-407		3.5	36
121	Initiation of transcription in vitro inhibited by lipiarmycin. <i>Journal of Molecular Biology</i> , 1979, 127, 55-72		6.5	36
120	AbrB, a Transition State Regulator	757-764		36
119	<i>Bacillus anthracis</i>	2014, 113-124		35
118	DNA Repair Systems	2014, 529-537		34
117	Biosynthesis of Amino Acids of the Glutamate and Aspartate Families, Alanine, and Polyamines	203-231		34
116	Biosynthesis and Function of Membrane Lipids	43-55		34
115	Contributions of multiple binding sites and effector-independent binding to CodY-mediated regulation in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2011, 193, 473-84		3.5	33
114	Metabolic imbalance and sporulation in an isocitrate dehydrogenase mutant of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1999, 181, 3382-91		3.5	33
113	Structural rearrangement accompanying ligand binding in the GAF domain of CodY from <i>Bacillus subtilis</i> . <i>Journal of Molecular Biology</i> , 2009, 390, 1007-18		6.5	32
112	Regulation and Function of Heat-Inducible Genes in <i>Bacillus subtilis</i>	357-368		32
111	Mechanism of repression by <i>Bacillus subtilis</i> CcpC, a LysR family regulator. <i>Journal of Molecular Biology</i> , 2003, 334, 609-24		6.5	31
110	Use of a mariner-based transposon mutagenesis system to isolate <i>Clostridium perfringens</i> mutants deficient in gliding motility. <i>Journal of Bacteriology</i> , 2013, 195, 629-36		3.5	30

109	spoO Genes, the Phosphorelay, and the Initiation of Sporulation	747-755		30
108	Biosynthesis of Glutamine and Glutamate and the Assimilation of Ammonia	2014, 281-298		29
107	Regulation of the bacillus subtilis ccpC gene by ccpA and ccpC. <i>Molecular Microbiology</i> ,	2002, 43, 399-410	4.1	28
106	Cell Wall Structure, Synthesis, and Turnover	379-410		28
105	Biosynthesis and Function of Membrane Lipids	411-421		28
104	Purine and Pyrimidine Salvage Pathways	2014, 359-378		27
103	Chemotaxis and Motility	437-452		27
102	Motility and Chemotaxis	765-784		27
101	Interplay of CodY and ScoC in the Regulation of Major Extracellular Protease Genes of Bacillus subtilis. <i>Journal of Bacteriology</i> ,	2016, 198, 907-20	3.5	26
100	Transformation and Recombination	2014, 453-471		26
99	Dissecting complex metabolic integration provides direct genetic evidence for CodY activation by guanine nucleotides. <i>Journal of Bacteriology</i> ,	2011, 193, 5637-48	3.5	26
98	The Krebs Citric Acid Cycle	181-197		26
97	Carbohydrate Catabolism: Pathways, Enzymes, Genetic Regulation, and Evolution	2014, 157-170		25
96	Conjugative Transposons	2014, 597-614		25
95	RNA Polymerase and Transcription Factors	651-667		25
94	Synthesis of Serine, Glycine, Cysteine, and Methionine	2014, 245-254		24
93	Vitamin Biosynthesis	271-286		24
92	Genetic Exchange and Homologous Recombination	553-584		23

91	Protein Secretion713-726		23
90	Effects of surotomycin on <i>Clostridium difficile</i> viability and toxin production in vitro. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2015</b> , 59, 4199-205	5.9	22
89	Multiple regulatory mechanisms control the expression of the <i>Geobacillus stearothermophilus</i> gene for extracellular xylanase. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 25957-75	5.4	22
88	Streptomyces83-99		22
87	Structure of the Branched-chain Amino Acid and GTP-sensing Global Regulator, CodY, from. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 2714-2728	5.4	21
86	CcpC-dependent regulation of citB and lmo0847 in <i>Listeria monocytogenes</i> . <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 179-90	3.5	21
85	Nitrogen Source Utilization and Its Regulation181-191		21
84	Two-Component Regulatory Systems727-745		21
83	Two roles for aconitase in the regulation of tricarboxylic acid branch gene expression in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 1525-37	3.5	20
82	Metal Ion Uptake and Oxidative Stress405-414		20
81	Translation and Its Regulation699-711		19
80	Spore Structural Proteins801-809		19
79	Biosynthesis of the Aspartate Family of Amino Acids237-267		18
78	Proteases939-952		18
77	Anaerobiosis393-404		17
76	Role of the global regulator Rex in control of NAD <sup>+</sup> -regeneration in <i>Clostridioides</i> ( <i>Clostridium</i> ) <i>difficile</i> . <i>Molecular Microbiology</i> , <b>2019</b> , 111, 1671-1688	4.1	15
75	Interactive regulation by the <i>Bacillus subtilis</i> global regulators CodY and ScoC. <i>Molecular Microbiology</i> , <b>2015</b> , 97, 698-716	4.1	15
74	Biosynthesis of Riboflavin, Biotin, Folic Acid, and Cobalamin <b>2014</b> , 319-334		15



73	Utilization of Amino Acids and Other Nitrogen-Containing Compounds221-228		15
72	CodY regulates expression of the <i>Bacillus subtilis</i> extracellular proteases Vpr and Mpr. <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 1423-32	3.5	14
71	Three cellulosomal xylanase genes in <i>Clostridium thermocellum</i> are regulated by both vegetative SigA (IIA) and alternative SigI6 (II6) factors. <i>FEBS Letters</i> , <b>2015</b> , 589, 3133-40	3.8	14
70	Biosynthesis of the Branched-Chain Amino Acids <b>2014</b> , 307-317		14
69	Specificity of the interaction of RocR with the rocG-rocA intergenic region in <i>Bacillus subtilis</i> . <i>Microbiology (United Kingdom)</i> , <b>2003</b> , 149, 739-750	2.9	14
68	Transport Mechanisms133-156		14
67	Glycolysis171-180		14
66	Biosynthesis of Arginine, Proline, and Related Compounds299-306		14
65	Initiation and Termination of Chromosome Replication505-528		14
64	Morphogenesis of Bacteriophage $\phi$ 29859-867		14
63	InVivo commensal control of <i>Clostridioides difficile</i> virulence. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 1693-1708.e7	3.4	14
62	Impact of CodY protein on metabolism, sporulation and virulence in <i>Clostridioides difficile</i> ribotype 027. <i>PLoS ONE</i> , <b>2019</b> , 14, e0206896	3.7	13
61	Intermediate Levels of <i>Bacillus subtilis</i> CodY Activity Are Required for Derepression of the Branched-Chain Amino Acid Permease, BraB. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005600	6	13
60	CodY-mediated regulation of guanosine uptake in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 6276-87	3.5	13
59	Aromatic Amino Acid Metabolism in <i>Bacillus subtilis</i> 233-244		13
58	Purine, Pyrimidine, and Pyridine Nucleotide Metabolism255-269		13
57	Biosynthesis of Aromatic Amino Acids <b>2014</b> , 269-280		12
56	Dual role of CcpC protein in regulation of aconitase gene expression in <i>Listeria monocytogenes</i> and <i>Bacillus subtilis</i> . <i>Microbiology (United Kingdom)</i> , <b>2013</b> , 159, 68-76	2.9	12

55	Respiratory Cytochromes, Other Heme Proteins, and Heme Biosynthesis163-179	11
54	Lactococcus and Lactobacillus <b>2014</b> , 65-82	10
53	Respiratory Chains199-212	10
52	Endospore-Forming Bacteria: an Overview <b>2014</b> , 131-150	9
51	Protein Transport Pathways in <i>Bacillus subtilis</i> : a Genome-Based Road Map337-355	9
50	The Genetic Map of <i>Bacillus subtilis</i> 423-461	9
49	Replication and Transcription of Bacteriophage $\phi$ 29 DNA843-857	9
48	Fermentation of <i>Bacillus</i> <b>2014</b> , 869-895	8
47	Ribosomes, Protein Synthesis Factors, and tRNA Synthetases313-322	8
46	Regulation by Termination-Antitermination: a Genomic Approach323-336	8
45	Termination of Chromosome Replication87-95	8
44	<i>Clostridium</i> 35-52	8
43	Temperate Bacteriophages831-842	8
42	Cell Division during Growth and Sporulation <b>2014</b> , 97-109	7
41	Chromosome Replication and Segregation71-86	7
40	De Novo Purine Nucleotide Synthesis335-341	7
39	tRNA, tRNA Processing, and Aminoacyl-tRNA Synthetases683-698	7
38	Insecticidal Toxins953-963	7

37	Overall Transport Capabilities of <i>Bacillus subtilis</i> <b>2014</b> , 111-128		6
36	CcpC-dependent regulation of citrate synthase gene expression in <i>Listeria monocytogenes</i> . <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 862-72	3.5	6
35	Nonribosomal Assembly of Peptide Antibiotics on Modular Protein Templates415-435		6
34	Pasteuria, Metchnikoff, 1888101-111		6
33	Oral Immunization with Nontoxigenic <i>Clostridium difficile</i> Strains Expressing Chimeric Fragments of TcdA and TcdB Elicits Protective Immunity against <i>C. difficile</i> Infection in Both Mice and Hamsters. <i>Infection and Immunity</i> , <b>2018</b> , 86,	3.7	6
32	Control of nitrogen metabolism by <i>Bacillus subtilis</i> glutamine synthetase. <i>Molecular Microbiology</i> , <b>2008</b> , 68, 242-245	4.1	5
31	Molecular biology. Turning gene regulation on its head. <i>Science</i> , <b>2001</b> , 293, 2018-9	33.3	5
30	Physical Map of the <i>Bacillus subtilis</i> 168 Chromosome463-471		5
29	Restriction/Modification and Methylation Systems in <i>Bacillus subtilis</i> , Related Species, and Their Phages539-553		5
28	Transposons and Their Applications585-596		5
27	Introduction to Metabolic Pathways125-132		5
26	Genome-wide identification of <i>Listeria monocytogenes</i> CodY-binding sites. <i>Molecular Microbiology</i> , <b>2020</b> , 113, 841-858	4.1	4
25	The Genetic Map of <i>Bacillus megaterium</i> <b>2014</b> , 475-481		4
24	Regulation of Phosphorus Metabolism229-235		4
23	De Novo Pyrimidine Nucleotide Synthesis343-358		4
22	The Chromosome Map of <i>Streptomyces coelicolor</i> A3(2)497-504		4
21	In vivo commensal control of <i>Clostridioides difficile</i> virulence		4
20	A Mutation in the <i>Bacillus subtilis</i> rsbU Gene That Limits RNA Synthesis during Sporulation. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	3

19	The Dynamic Architecture of the Bacillus Cell <b>2014</b> , 13-20		3
18	Ribosomal Structure and Genetics669-682		3
17	SPO1 and Related Bacteriophages811-829		3
16	Streptococcus53-63		3
15	Regulating the Intersection of Metabolism and Pathogenesis in Gram-positive Bacteria <b>2015</b> , 129-165		2
14	Developmental biology: regulation by selective gene localization. <i>Current Biology</i> , <b>2002</b> , 12, R90-2	6.3	2
13	Staphylococcus17-33		2
12	An Ordered Collection of Bacillus subtilis DNA Segments in Yeast Artificial Chromosomes473-474		2
11	The branched chain aminotransferase IlvE promotes growth, stress resistance and pathogenesis of <i>Listeria monocytogenes</i>		2
10	DdlR, an essential transcriptional regulator of peptidoglycan biosynthesis in <i>Clostridioides difficile</i> . <i>Molecular Microbiology</i> , <b>2019</b> , 112, 1453-1470	4.1	1
9	Cell Wall-Anchored Surface Proteins and Lipoproteins of Gram-Positive Bacteria57-70		1
8	The Genetic Map of Bacillus stearothermophilus NUB36483-487		1
7	Role of GlnR in Controlling Expression of Nitrogen Metabolism Genes in. <i>Journal of Bacteriology</i> , <b>2020</b> , 202,	3.5	1
6	The Bacillus subtilis Genome, Genes, and Functions <b>2014</b> , 7-11		
5	General View of the Bacillus subtilis Chromosome <b>2014</b> , 552-569		
4	Functional Classification of the Bacillus subtilis Protein-Encoding Genes <b>2014</b> , 570-615		
3	Comment on the Howy JacobsSEditorial "Yes we can, but do we?". <i>EMBO Reports</i> , <b>2013</b> , 14, 1027	6.5	
2	The Genetic Map of Staphylococcus aureus489-496		

1      Temperate Phage Vectors645-650