Tyler C Helmann

List of Publications by Citations

226 papers	17,834 citations	76 h-index	128 g-index
274 ext. papers	20,076 ext. citations	7 avg, IF	7.19 L-index

#	Paper	IF	Citations
226	Structure and function of bacterial sigma factors. *Annual Review of Biochemistry*, **1988**, 57, 839-72	29.1	914
225	The extracytoplasmic function (ECF) sigma factors. *Advances in Microbial Physiology*, **2002**, 46, 47-110	4.4	538
224	Stimulus perception in bacterial signal-transducing histidine kinases. *Microbiology and Molecular Biology Reviews*, **2006**, 70, 910-38	13.2	488
223	The PerR transcription factor senses H2O2 by metal-catalysed histidine oxidation. *Nature*, **2006**, 440, 363-7	50.4	437
222	The sigma70 family of sigma factors. *Genome Biology*, **2003**, 4, 203	18.3	346
221	Bacillus subtilis contains multiple Fur homologues: identification of the iron uptake (Fur) and peroxide regulon (PerR) repressors. *Molecular Microbiology*, **1998**, 29, 189-98	4.1	340
220	Functional specialization within the Fur family of metalloregulators. *BioMetals*, **2007**, 20, 485-99	3.4	340
219	Compilation and analysis of Bacillus subtilis sigma A-dependent promoter sequences: evidence for extended contact between RNA polymerase and upstream promoter DNA. *Nucleic Acids Research*, **1995**, 23, 2351-60	20.1	324
218	Metal homeostasis and resistance in bacteria. *Nature Reviews Microbiology*, **2017**, 15, 338-350	22.2	289
217	Thiol-based redox switches and gene regulation. *Antioxidants and Redox Signaling*, **2011**, 14, 1049-63	8.4	269
216	Cell wall stress responses in Bacillus subtilis: the regulatory network of the bacitracin stimulon. *Molecular Microbiology*, **2003**, 50, 1591-604	4.1	249
215	Regulation of inducible peroxide stress responses. *Molecular Microbiology*, **2002**, 45, 9-15	4.1	236
214	Manganese homeostasis in Bacillus subtilis is regulated by MntR, a bifunctional regulator related to the diphtheria toxin repressor family of proteins. *Molecular Microbiology*, **2000**, 35, 1454-68	4.1	221
213	Recognition of DNA by Fur: a reinterpretation of the Fur box consensus sequence. *Journal of Bacteriology*, **2002**, 184, 5826-32	3.5	221
212	Global transcriptional response of Bacillus subtilis to heat shock. *Journal of Bacteriology*, **2001**, 183, 7318-28	3.5	213
211	Antibiotic-inducible promoter regulated by the cell envelope stress-sensing two-component system LiaRS of Bacillus subtilis. *Antimicrobial Agents and Chemotherapy*, **2004**, 48, 2888-96	5.9	212
210	Global analysis of the Bacillus subtilis Fur regulon and the iron starvation stimulon. *Molecular Microbiology*, **2002**, 45, 1613-29	4.1	212

209	Identification of a zinc-specific metalloregulatory protein, Zur, controlling zinc transport operons in Bacillus subtilis. *Journal of Bacteriology*, **1998**, 180, 5815-21	3.5	210
208	Bacillithiol is an antioxidant thiol produced in Bacilli. *Nature Chemical Biology*, **2009**, 5, 625-7	11.7	208
207	A complex thiolate switch regulates the Bacillus subtilis organic peroxide sensor OhrR. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 8743-8	11.5	208
206	Antibiotics that inhibit cell wall biosynthesis induce expression of the Bacillus subtilis sigma(W) and sigma(M) regulons. *Molecular Microbiology*, **2002**, 45, 1267-76	4.1	207
205	Coordinate regulation of Bacillus subtilis peroxide stress genes by hydrogen peroxide and metal ions. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 8190-4	11.5	199
204	The OhrR repressor senses organic hydroperoxides by reversible formation of a cysteine-sulfenic acid derivative. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 6690-5	11.5	197
203	The global transcriptional response of Bacillus subtilis to peroxide stress is coordinated by three transcription factors. *Journal of Bacteriology*, **2003**, 185, 243-53	3.5	196
202	Structure of an OhrR-ohrA operator complex reveals the DNA binding mechanism of the MarR family. *Molecular Cell*, **2005**, 20, 131-41	17.6	195
201	Identification of the Escherichia coli K-12 Nramp orthologue (MntH) as a selective divalent metal ion transporter. *Molecular Microbiology*, **2000**, 35, 1065-78	4.1	191
200	Roles of metal ions and hydrogen peroxide in modulating the interaction of the Bacillus subtilis PerR peroxide regulon repressor with operator DNA. *Molecular Microbiology*, **2001**, 41, 849-59	4.1	183
199	Biosynthesis and functions of bacillithiol, a major low-molecular-weight thiol in Bacilli. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 6482-6	11.5	179
198	The Bacillus subtilis iron-sparing response is mediated by a Fur-regulated small RNA and three small, basic proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11927-32	11.5	178
197	OhrR is a repressor of ohrA, a key organic hydroperoxide resistance determinant in Bacillus subtilis. *Journal of Bacteriology*, **2001**, 183, 4134-41	3.5	175
196	Metal ion homeostasis in Bacillus subtilis. *Current Opinion in Microbiology*, **2005**, 8, 188-95	7.9	169
195	Analysis of the role of Bacillus subtilis (M) in lactam resistance reveals an essential role for c-di-AMP in peptidoglycan homeostasis. *Molecular Microbiology*, **2012**, 83, 623-39	4.1	168
194	The developmental fate of S. coelicolor hyphae depends upon a gene product homologous with the motility sigma factor of B. subtilis. *Cell*, **1989**, 59, 133-43	56.2	168
193	Defining the Bacillus subtilis sigma(W) regulon: a comparative analysis of promoter consensus search, run-off transcription/macroarray analysis (ROMA), and transcriptional profiling approaches. *Journal of Molecular Biology*, **2002**, 316, 443-57	6.5	166
192	Identification of Bacillus subtilis sigma-dependent genes that provide intrinsic resistance to antimicrobial compounds produced by Bacilli. *Molecular Microbiology*, **2006**, 60, 765-82	4.1	158

191	Regulation of the Bacillus subtilis fur and perR genes by PerR: not all members of the PerR regulon are peroxide inducible. *Journal of Bacteriology*, **2002**, 184, 3276-86	3.5	156
190	Role of the Fur regulon in iron transport in Bacillus subtilis. *Journal of Bacteriology*, **2006**, 188, 3664-73	3.5	154
189	Regulation of LiaRS-dependent gene expression in bacillus subtilis: identification of inhibitor proteins, regulator binding sites, and target genes of a conserved cell envelope stress-sensing two-component system. *Journal of Bacteriology*, **2006**, 188, 5153-66	3.5	152
188	Open complex formation by Escherichia coli RNA polymerase: the mechanism of polymerase-induced strand separation of double helical DNA. *Molecular Microbiology*, **1995**, 16, 817-24	4.1	147
187	Anti-sigma factors. *Current Opinion in Microbiology*, **1999**, 2, 135-41	7.9	144
186	Bacillus subtilis MrgA is a Dps(PexB) homologue: evidence for metalloregulation of an oxidative-stress gene. *Molecular Microbiology*, **1995**, 18, 295-300	4.1	143
185	The Bacillus subtilis sigma(M) regulon and its contribution to cell envelope stress responses. *Molecular Microbiology*, **2008**, 67, 830-48	4.1	140
184	A promoter melting region in the primary sigma factor of Bacillus subtilis. Identification of functionally important aromatic amino acids. *Journal of Molecular Biology*, **1994**, 235, 1470-88	6.5	140
183	The A. tumefaciens transcriptional activator OccR causes a bend at a target promoter, which is partially relaxed by a plant tumor metabolite. *Cell*, **1992**, 69, 659-67	56.2	132
182	Protein-nucleic acid interactions during open complex formation investigated by systematic alteration of the protein and DNA binding partners. *Biochemistry*, **1999**, 38, 5959-67	3.2	131
181	The Bacillus subtilis extracytoplasmic-function sigmaX factor regulates modification of the cell envelope and resistance to cationic antimicrobial peptides. *Journal of Bacteriology*, **2004**, 186, 1136-46	3.5	124
180	Genetic analysis of factors affecting susceptibility of Bacillus subtilis to daptomycin. *Antimicrobial Agents and Chemotherapy*, **2009**, 53, 1598-609	5.9	122
179	Genetic and physiological responses of Bacillus subtilis to metal ion stress. *Molecular Microbiology*, **2005**, 57, 27-40	4.1	118
178	Response of Bacillus subtilis to nitric oxide and the nitrosating agent sodium nitroprusside. *Journal of Bacteriology*, **2004**, 186, 4655-64	3.5	116
177	FosB, a cysteine-dependent fosfomycin resistance protein under the control of sigma(W), an extracytoplasmic-function sigma factor in Bacillus subtilis. *Journal of Bacteriology*, **2001**, 183, 2380-3	3.5	115
176	Elemental economy: microbial strategies for optimizing growth in the face of nutrient limitation. *Advances in Microbial Physiology*, **2012**, 60, 91-210	4.4	111
175	Identification of target promoters for the Bacillus subtilis extracytoplasmic function sigma factor, sigma W. *Molecular Microbiology*, **1999**, 31, 361-71	4.1	111
174	Antagonism of Two Plant-Growth Promoting Bacillus velezensis Isolates Against Ralstonia solanacearum and Fusarium oxysporum. *Scientific Reports*, **2018**, 8, 4360	4.9	110

173	Recognition of DNA by three ferric uptake regulator (Fur) homologs in Bacillus subtilis. *Journal of Bacteriology*, **2003**, 185, 6348-57	3.5	107
172	A peroxide-induced zinc uptake system plays an important role in protection against oxidative stress in Bacillus subtilis. *Molecular Microbiology*, **2002**, 45, 997-1005	4.1	105
171	Promoter recognition by Bacillus subtilis sigmaW: autoregulation and partial overlap with the sigmaX regulon. *Journal of Bacteriology*, **1998**, 180, 3765-70	3.5	105
170	Peroxide stress elicits adaptive changes in bacterial metal ion homeostasis. *Antioxidants and Redox Signaling*, **2011**, 15, 175-89	8.4	103
169	Functional analysis of the Bacillus subtilis Zur regulon. *Journal of Bacteriology*, **2002**, 184, 6508-14	3.5	102
168	Biochemical characterization of the structural Zn2+ site in the Bacillus subtilis peroxide sensor PerR. *Journal of Biological Chemistry*, **2006**, 281, 23567-78	5.4	101
167	Regulatory overlap and functional redundancy among Bacillus subtilis extracytoplasmic function sigma factors. *Journal of Bacteriology*, **2007**, 189, 6919-27	3.5	100
166	Identification of target promoters for the Bacillus subtilis sigma X factor using a consensus-directed search. *Journal of Molecular Biology*, **1998**, 279, 165-73	6.5	100
165	Regulation of the Bacillus subtilis bcrC bacitracin resistance gene by two extracytoplasmic function sigma factors. *Journal of Bacteriology*, **2002**, 184, 6123-9	3.5	98
164	Contributions of Zur-controlled ribosomal proteins to growth under zinc starvation conditions. *Journal of Bacteriology*, **2009**, 191, 6116-22	3.5	97
163	Specificity of metal sensing: iron and manganese homeostasis in Bacillus subtilis. *Journal of Biological Chemistry*, **2014**, 289, 28112-20	5.4	94
162	Reduction in membrane phosphatidylglycerol content leads to daptomycin resistance in Bacillus subtilis. *Antimicrobial Agents and Chemotherapy*, **2011**, 55, 4326-37	5.9	92
161	A novel DNA modification by sulphur. *Molecular Microbiology*, **2005**, 57, 1428-38	4.1	92
160	Origins of metal ion selectivity in the DtxR/MntR family of metalloregulators. *Molecular Microbiology*, **2003**, 48, 495-506	4.1	89
159	CsoR regulates the copper efflux operon copZA in Bacillus subtilis. *Microbiology (United Kingdom)*, **2007**, 153, 4123-4128	2.9	86
158	Bacterial Ohr and OsmC paralogues define two protein families with distinct functions and patterns of expression. *Microbiology (United Kingdom)*, **2001**, 147, 1775-1782	2.9	86
157	Bacillithiol, a new player in bacterial redox homeostasis. *Antioxidants and Redox Signaling*, **2011**, 15, 123-83	8.4	84
156	S-cysteinylation is a general mechanism for thiol protection of Bacillus subtilis proteins after oxidative stress. *Journal of Biological Chemistry*, **2007**, 282, 25981-5	5.4	81

155	Sequential binding and sensing of Zn(II) by Bacillus subtilis Zur. *Nucleic Acids Research*, **2011**, 39, 9130-8	20.1	79
154	Bacillus subtilis extracytoplasmic function (ECF) sigma factors and defense of the cell envelope. *Current Opinion in Microbiology*, **2016**, 30, 122-132	7.9	78
153	Genome-wide responses to carbonyl electrophiles in Bacillus subtilis: control of the thiol-dependent formaldehyde dehydrogenase AdhA and cysteine proteinase YraA by the MerR-family regulator YraB (AdhR). *Molecular Microbiology*, **2009**, 71, 876-94	4.1	77
152	Structure of the manganese-bound manganese transport regulator of Bacillus subtilis. *Nature Structural and Molecular Biology*, **2003**, 10, 652-7	17.6	77
151	Bacillus subtilis (V) confers lysozyme resistance by activation of two cell wall modification pathways, peptidoglycan O-acetylation and D-alanylation of teichoic acids. *Journal of Bacteriology*, **2011**, 193, 6223-32	3.5	76
150	Interaction of Bacillus subtilis Fur (ferric uptake repressor) with the dhb operator in vitro and in vivo. *Journal of Bacteriology*, **1999**, 181, 4299-307	3.5	74
149	Phenotypic and transcriptomic characterization of Bacillus subtilis mutants with grossly altered membrane composition. *Journal of Bacteriology*, **2008**, 190, 7797-807	3.5	73
148	RNA Polymerase and Sigma Factors **2014**, 287-312		72
147	The global transcriptional response of Bacillus subtilis to manganese involves the MntR, Fur, TnrA and sigmaB regulons. *Molecular Microbiology*, **2003**, 49, 1477-91	4.1	72
146	Mn(2+)-sensing mechanisms of yybP-ykoY orphan riboswitches. *Molecular Cell*, **2015**, 57, 1110-1123	17.6	71
145	Bacillithiol is a major buffer of the labile zinc pool in Bacillus subtilis. *Molecular Microbiology*, **2014**, 94, 756-70	4.1	70
144	Peptidoglycan recognition proteins kill bacteria by inducing oxidative, thiol, and metal stress. *PLoS Pathogens*, **2014**, 10, e1004280	7.6	67
143	Pseudomonas syringae pv. tomato DC3000 Type III Secretion Effector Polymutants Reveal an Interplay between HopAD1 and AvrPtoB. *Cell Host and Microbe*, **2015**, 17, 752-62	23.4	66
142	Don't let sleeping dogmas lie: new views of peptidoglycan synthesis and its regulation. *Molecular Microbiology*, **2017**, 106, 847-860	4.1	61
141	Concentration- and chromosome-organization-dependent regulator unbinding from DNA for transcription regulation in living cells. *Nature Communications*, **2015**, 6, 7445	17.4	61
140	The Role of Bacillithiol in Gram-Positive Firmicutes. *Antioxidants and Redox Signaling*, **2018**, 28, 445-462	8.4	59
139	Lipid-linked cell wall precursors regulate membrane association of bacterial actin MreB. *Nature Chemical Biology*, **2015**, 11, 38-45	11.7	58
138	PfeT, a P1B4 -type ATPase, effluxes ferrous iron and protects Bacillus subtilis against iron intoxication. *Molecular Microbiology*, **2015**, 98, 787-803	4.1	57

137	A global investigation of the Bacillus subtilis iron-sparing response identifies major changes in metabolism. *Journal of Bacteriology*, **2012**, 194, 2594-605	3.5	57
136	Direct substitution and assisted dissociation pathways for turning off transcription by a MerR-family metalloregulator. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 15121-6	11.5	55
135	Zinc-independent folate biosynthesis: genetic, biochemical, and structural investigations reveal new metal dependence for GTP cyclohydrolase IB. *Journal of Bacteriology*, **2009**, 191, 6936-49	3.5	54
134	Structural basis for the metal-selective activation of the manganese transport regulator of Bacillus subtilis. *Biochemistry*, **2006**, 45, 3493-505	3.2	54
133	The delta subunit of Bacillus subtilis RNA polymerase. An allosteric effector of the initiation and core-recycling phases of transcription. *Journal of Molecular Biology*, **1994**, 239, 1-14	6.5	53
132	A W-dependent stress response in Bacillus subtilis that reduces membrane fluidity. *Molecular Microbiology*, **2011**, 81, 69-79	4.1	52
131	The -10 region is a key promoter specificity determinant for the Bacillus subtilis extracytoplasmic-function sigma factors sigma(X) and sigma(W). *Journal of Bacteriology*, **2001**, 183, 1921-7	3.5	52
130	Transcriptional switching by the MerR protein: activation and repression mutants implicate distinct DNA and mercury(II) binding domains. *Biochemistry*, **1989**, 28, 2340-4	3.2	52
129	Methylglyoxal resistance in Bacillus subtilis: contributions of bacillithiol-dependent and independent pathways. *Molecular Microbiology*, **2014**, 91, 706-15	4.1	51
128	Sequential induction of Fur-regulated genes in response to iron limitation in. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 12785-12790	11.5	51
127	Mutations in multidrug efflux homologs, sugar isomerases, and antimicrobial biosynthesis genes differentially elevate activity of the sigma(X) and sigma(W) factors in Bacillus subtilis. *Journal of Bacteriology*, **2000**, 182, 5202-10	3.5	51
126	Structural analysis of the Bacillus subtilis delta factor: a protein polyanion which displaces RNA from RNA polymerase. *Journal of Molecular Biology*, **1995**, 252, 189-202	6.5	51
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124	Ferrous iron efflux systems in bacteria. *Metallomics*, **2017**, 9, 840-851	4.5	49
123	DNA-binding and oligomerization studies of the manganese(II) metalloregulatory protein MntR from Bacillus subtilis. *Biochemistry*, **2003**, 42, 12634-42	3.2	49
122	Bacillus subtilis CPx-type ATPases: characterization of Cd, Zn, Co and Cu efflux systems. *BioMetals*, **2003**, 16, 497-505	3.4	48
121	Derepression of the Bacillus subtilis PerR peroxide stress response leads to iron deficiency. *Journal of Bacteriology*, **2012**, 194, 1226-35	3.5	47
120	DNA-melting at the Bacillus subtilis flagellin promoter nucleates near -10 and expands unidirectionally. *Journal of Molecular Biology*, **1997**, 267, 47-59	6.5	47

119	Oxidant-dependent switching between reversible and sacrificial oxidation pathways for Bacillus subtilis OhrR. *Molecular Microbiology*, **2008**, 68, 978-86	4.1	47
118	Redox regulation in Bacillus subtilis: The bacilliredoxins BrxA(YphP) and BrxB(YqiW) function in de-bacillithiolation of S-bacillithiolated OhrR and MetE. *Antioxidants and Redox Signaling*, **2014**, 21, 357-67	8.4	46
117	Contributions of the (W) , (M) and (X) regulons to the lantibiotic resistome of Bacillus subtilis. *Molecular Microbiology*, **2013**, 90, 502-18	4.1	46
116	The FsrA sRNA and FbpB protein mediate the iron-dependent induction of the Bacillus subtilis lutABC iron-sulfur-containing oxidases. *Journal of Bacteriology*, **2012**, 194, 2586-93	3.5	45
115	Bacillus subtilis MntR coordinates the transcriptional regulation of manganese uptake and efflux systems. *Molecular Microbiology*, **2017**, 103, 253-268	4.1	44
114	Cu(I)-mediated allosteric switching in a copper-sensing operon repressor (CsoR). *Journal of Biological Chemistry*, **2014**, 289, 19204-17	5.4	43
113	Crystal structure of peroxide stress regulator from Streptococcus pyogenes provides functional insights into the mechanism of oxidative stress sensing. *Journal of Biological Chemistry*, **2013**, 288, 18311-24	5.4	43
112	An antibiotic-inducible cell wall-associated protein that protects Bacillus subtilis from autolysis. *Journal of Bacteriology*, **2007**, 189, 4671-80	3.5	43
111	Origins of specificity and cross-talk in metal ion sensing by Bacillus subtilis Fur. *Molecular Microbiology*, **2012**, 86, 1144-55	4.1	42
110	Transcriptomic and phenotypic characterization of a Bacillus subtilis strain without extracytoplasmic function factors. *Journal of Bacteriology*, **2010**, 192, 5736-45	3.5	42
109	Characterization of the Fur regulon in Pseudomonas syringae pv. tomato DC3000. *Journal of Bacteriology*, **2011**, 193, 4598-611	3.5	42
108	Pathway of promoter melting by Bacillus subtilis RNA polymerase at a stable RNA promoter: effects of temperature, delta protein, and sigma factor mutations. *Biochemistry*, **1995**, 34, 8465-73	3.2	42
107	Depletion of Undecaprenyl Pyrophosphate Phosphatases Disrupts Cell Envelope Biogenesis in Bacillus subtilis. *Journal of Bacteriology*, **2016**, 198, 2925-2935	3.5	40
106	Deciphering a complex genetic regulatory network: the Bacillus subtilis sigmaW protein and intrinsic resistance to antimicrobial compounds. *Science Progress*, **2006**, 89, 243-66	1.1	40
105	Regulation of the Bacillus subtilis yciC gene and insights into the DNA-binding specificity of the zinc-sensing metalloregulator Zur. *Journal of Bacteriology*, **2008**, 190, 3482-8	3.5	38
104	LiaRS-dependent gene expression is embedded in transition state regulation in Bacillus subtilis. *Microbiology (United Kingdom)*, **2007**, 153, 2530-2540	2.9	38
103	Bacillus subtilis paraquat resistance is directed by sigmaM, an extracytoplasmic function sigma factor, and is conferred by YqjL and BcrC. *Journal of Bacteriology*, **2005**, 187, 2948-56	3.5	38
102	Expression, abundance, and RNA polymerase binding properties of the delta factor of Bacillus subtilis. *Journal of Biological Chemistry*, **1999**, 274, 15953-8	5.4	38

101	Genome-wide identification of genes required for fitness during colonization of the leaf surface and apoplast. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18900-18910	11.5	37
100	Staphylococcus aureus PerR Is a Hypersensitive Hydrogen Peroxide Sensor using Iron-mediated Histidine Oxidation. *Journal of Biological Chemistry*, **2015**, 290, 20374-86	5.4	37
99	Extracytoplasmic function sigma factors regulate expression of the Bacillus subtilis yabE gene via a cis-acting antisense RNA. *Journal of Bacteriology*, **2009**, 191, 1101-5	3.5	37
98	Assessing the impact of denitrifier-produced nitric oxide on other bacteria. *Applied and Environmental Microbiology*, **2006**, 72, 2200-5	4.8	37
97	Metal-induced structural organization and stabilization of the metalloregulatory protein MntR. *Biochemistry*, **2005**, 44, 3380-9	3.2	37
96	Regulation of the Bacillus subtilis extracytoplasmic function protein sigma(Y) and its target promoters. *Journal of Bacteriology*, **2003**, 185, 4883-90	3.5	37
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94	Mutations in sigma factor that affect the temperature dependence of transcription from a promoter, but not from a mismatch bubble in double-stranded DNA. *Biochemistry*, **1994**, 33, 11501-6	3.2	36
93	Extracytoplasmic function sigma factors with overlapping promoter specificity regulate sublancin production in Bacillus subtilis. *Journal of Bacteriology*, **2009**, 191, 4951-8	3.5	35
92	Accumulation of heptaprenyl diphosphate sensitizes Bacillus subtilis to bacitracin: implications for the mechanism of resistance mediated by the BceAB transporter. *Molecular Microbiology*, **2014**, 93, 37-49	4.1	34
91	The Listeria monocytogenes Fur-regulated virulence protein FrvA is an Fe(II) efflux P1B4 -type ATPase. *Molecular Microbiology*, **2016**, 100, 1066-79	4.1	34
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89	Glutamate dehydrogenase affects resistance to cell wall antibiotics in Bacillus subtilis. *Journal of Bacteriology*, **2012**, 194, 993-1001	3.5	31
88	The yydFGHIJ operon of Bacillus subtilis encodes a peptide that induces the LiaRS two-component system. *Journal of Bacteriology*, **2007**, 189, 8616-25	3.5	31
87	A previously unidentified sigma factor and two accessory proteins regulate oxalate decarboxylase expression in Bacillus subtilis. *Molecular Microbiology*, **2008**, 69, 954-67	4.1	30
86	Bacillus subtilis FolE is sustained by the ZagA zinc metallochaperone and the alarmone ZTP under conditions of zinc deficiency. *Molecular Microbiology*, **2019**, 112, 751-765	4.1	29
85	Redox Sensing by Fe in Bacterial Fur Family Metalloregulators. *Antioxidants and Redox Signaling*, **2018**, 29, 1858-1871	8.4	29
84	Conversion of Bacillus subtilis OhrR from a 1-Cys to a 2-Cys peroxide sensor. *Journal of Bacteriology* , **2008**, 190, 5738-45	3.5	29

83	Iron Efflux by PmtA Is Critical for Oxidative Stress Resistance and Contributes Significantly to Group A Streptococcus Virulence. *Infection and Immunity*, **2017**, 85,	3.7	28
82	Identification of altered function alleles that affect Bacillus subtilis PerR metal ion selectivity. *Nucleic Acids Research*, **2011**, 39, 5036-44	20.1	28
81	Intracellular Zn(II) Intoxication Leads to Dysregulation of the PerR Regulon Resulting in Heme Toxicity in Bacillus subtilis. *PLoS Genetics*, **2016**, 12, e1006515	6	28
80	Roles of the A and C sites in the manganese-specific activation of MntR. *Biochemistry*, **2013**, 52, 701-13	3.2	27
79	Where to begin? Sigma factors and the selectivity of transcription initiation in bacteria. *Molecular Microbiology*, **2019**, 112, 335-347	4.1	26
78	A D-dependent antisense transcript modulates expression of the cyclic-di-AMP hydrolase GdpP in Bacillus subtilis. *Microbiology (United Kingdom)*, **2012**, 158, 2732-2741	2.9	26
77	A Critical Role of Zinc Importer AdcABC in Group A Streptococcus-Host Interactions During Infection and Its Implications for Vaccine Development. *EBioMedicine*, **2017**, 21, 131-141	8.8	24
76	MntR(Rv2788): a transcriptional regulator that controls manganese homeostasis in Mycobacterium tuberculosis. *Molecular Microbiology*, **2015**, 98, 1168-83	4.1	24
75	The Bacillus subtilis GntR family repressor YtrA responds to cell wall antibiotics. *Journal of Bacteriology*, **2011**, 193, 5793-801	3.5	24
74	The conformations of the manganese transport regulator of Bacillus subtilis in its metal-free state. *Journal of Molecular Biology*, **2007**, 365, 1257-65	6.5	24
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72	OxyR: a molecular code for redox sensing?. *Science Signaling*, **2002**, 2002, pe46	8.8	23
71	A mutation of the RNA polymerase B subunit (rpoC) confers cephalosporin resistance in Bacillus subtilis. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 56-65	5.9	22
70	Substrate induction of siderophore transport in Bacillus subtilis mediated by a novel one-component regulator. *Molecular Microbiology*, **2007**, 66, 164-73	4.1	22
69	Metalloregulator CueR biases RNA polymerase B kinetic sampling of dead-end or open complex to repress or activate transcription. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 13467-72	11.5	21
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66	Metal Ion Uptake and Oxidative Stress405-414		20

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