Charles J Dorman

List of Publications by Year
in descending order

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140 papers	10,118 citations	34016 52 h-index	38300 95 g-index
236 all docs	236 docs citations	236 times ranked	5806 citing authors

#	Article	IF	Citations
1	Bacterial nucleoid-associated proteins, nucleoid structure and gene expression. Nature Reviews Microbiology, 2010, 8, 185-195.	13.6	755
2	A physiological role for DNA supercoiling in the osmotic regulation of gene expression in S. typhimurium and E. coli. Cell, 1988, 52, 569-584.	13.5	736
3	H-NS: a universal regulator for a dynamic genome. Nature Reviews Microbiology, 2004, 2, 391-400.	13.6	485
4	The transcriptional landscape and small RNAs of Salmonella enterica serovar Typhimurium. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1277-86.	3.3	373
5	H-NS, the genome sentinel. Nature Reviews Microbiology, 2007, 5, 157-161.	13.6	314
6	DNA supercoiling and the anaerobic and growth phase regulation of tonB gene expression. Journal of Bacteriology, 1988, 170, 2816-2826.	1.0	259
7	DNA supercoiling and environmental regulation of virulence gene expression in Shigella flexneri. Nature, 1990, 344, 789-792.	13.7	249
8	Characterization of porin and ompR mutants of a virulent strain of Salmonella typhimurium: ompR mutants are attenuated in vivo. Infection and Immunity, 1989, 57, 2136-2140.	1.0	249
9	Human Health and Ocean Pollution. Annals of Global Health, 2020, 86, 151.	0.8	240
10	Anti-silencing: overcoming H-NS-mediated repression of transcription in Gram-negative enteric bacteria. Microbiology (United Kingdom), 2008, 154, 2533-2545.	0.7	232
11	Regulation of gene expression by histone-like proteins in bacteria. Current Opinion in Genetics and Development, 2003, 13, 179-184.	1.5	216
12	An H-NS-like Stealth Protein Aids Horizontal DNA Transmission in Bacteria. Science, 2007, 315, 251-252.	6.0	204
13	Fimbrial phase variation in Escherichia coli: dependence on integration host factor and homologies with other site-specific recombinases. Journal of Bacteriology, 1987, 169, 3840-3843.	1.0	179
14	A global role for Fis in the transcriptional control of metabolism and type III secretion in Salmonella enterica serovar Typhimurium. Microbiology (United Kingdom), 2004, 150, 2037-2053.	0.7	175
15	Genome architecture and global gene regulation in bacteria: making progress towards a unified model?. Nature Reviews Microbiology, 2013, 11, 349-355.	13.6	172
16	An overlap between osmotic and anaerobic stress responses: a potential role for DNA supercoiling in the coordinate regulation of gene expression. Molecular Microbiology, 1989, 3, 933-942.	1.2	159
17	The integration host factor (IHF) integrates stationary-phase and virulence gene expression in Salmonella enterica serovar Typhimurium. Molecular Microbiology, 2006, 59, 1831-1847.	1.2	159
18	DNA supercoiling and environmental regulation of gene expression in pathogenic bacteria. Infection and Immunity, 1991, 59, 745-749.	1.0	148

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19	TheShigellavirulence gene regulatory cascade: a paradigm of bacterial gene control mechanisms. Molecular Microbiology, 1998, 29, 677-684.	1.2	143
20	Domain organization and oligomerization among H-NS-like nucleoid-associated proteins in bacteria. Trends in Microbiology, 1999, 7, 124-128.	3.5	137
21	TonB protein of Salmonella typhimurium. Journal of Molecular Biology, 1990, 216, 897-910.	2.0	133
22	A Fundamental Regulatory Mechanism Operating through OmpR and DNA Topology Controls Expression of Salmonella Pathogenicity Islands SPI-1 and SPI-2. PLoS Genetics, 2012, 8, e1002615.	1.5	119
23	Structure and function of X-Pro dipeptide repeats in the TonB proteins of Salmonella typhimurium and Escherichia coli. Journal of Molecular Biology, 1990, 216, 883-895.	2.0	104
24	Chapter 2 Nucleoid-Associated Proteins and Bacterial Physiology. Advances in Applied Microbiology, 2009, 67, 47-64.	1.3	104
25	An extended role for the nucleoid structuring protein H-NS in the virulence gene regulatory cascade of Shigella flexneri. Molecular Microbiology, 2003, 47, 825-838.	1.2	95
26	Sequence-imposed structural constraints in the TonB protein ofE. coli. FEBS Letters, 1986, 208, 211-216.	1.3	92
27	Bacterial Regulon Evolution: Distinct Responses and Roles for the Identical OmpR Proteins of Salmonella Typhimurium and Escherichia coli in the Acid Stress Response. PLoS Genetics, 2014, 10, e1004215.	1.5	90
28	DNA supercoiling is a fundamental regulatory principle in the control of bacterial gene expression. Biophysical Reviews, 2016, 8, 89-100.	1.5	89
29	DNA supercoiling is differentially regulated by environmental factors and FIS in Escherichia coli and Salmonella enterica. Molecular Microbiology, 2011, 80, 85-101.	1.2	86
30	DNA supercoiling and transcription in bacteria: a two-way street. BMC Molecular and Cell Biology, 2019, 20, 26.	1.0	86
31	Competitive interaction of the OxyR DNA-binding protein and the Dam methylase at the antigen 43 gene regulatory region in Escherichia coli. Molecular Microbiology, 2002, 44, 509-520.	1.2	84
32	Roles for DNA supercoiling and the Fis protein in modulating expression of virulence genes during intracellular growth ofSalmonella entericaserovar Typhimurium. Molecular Microbiology, 2006, 62, 869-882.	1.2	84
33	Compensatory Evolution of Gene Regulation in Response to Stress by Escherichia coli Lacking RpoS. PLoS Genetics, 2009, 5, e1000671.	1.5	84
34	Genomeâ€wide analysis of the Hâ€NS and Sfh regulatory networks in Salmonella Typhimurium identifies a plasmidâ€encoded transcription silencing mechanism. Molecular Microbiology, 2010, 76, 1250-1265.	1.2	84
35	H-NS-like nucleoid-associated proteins, mobile genetic elements and horizontal gene transfer in bacteria. Plasmid, 2014, 75, 1-11.	0.4	78
36	DNA supercoiling is a fundamental regulatory principle in the control of bacterial gene expression. Biophysical Reviews, 2016, 8, 209-220.	1.5	73

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37	Regulation of virulence gene expression in Shigella flexneri, a facultative intracellular pathogen. International Journal of Medical Microbiology, 2001, 291, 89-96.	1.5	72
38	Three-way interactions among the Sfh, StpA and H-NS nucleoid-structuring proteins of Shigella flexneri 2a strain 2457T. Molecular Microbiology, 2003, 48, 1401-1416.	1.2	72
39	Coupling of Escherichia coli hns mRNA levels to DNA synthesis by autoregulation: implications for growth phase control. Molecular Microbiology, 1995, 18, 101-113.	1.2	68
40	A role for the Escherichia coli H-NS-like protein StpA in OmpF porin expression through modulation of micF RNA stability. Molecular Microbiology, 2000, 38, 126-139.	1.2	68
41	LeuO is a global regulator of gene expression in Salmonella enterica serovar Typhimurium. Molecular Microbiology, 2012, 85, 1072-1089.	1.2	68
42	Osmotic and growth-phase dependent regulation of the eta gene of Staphylococcus aureus: a role for DNA supercoiling. Molecular Genetics and Genomics, 1992, 232, 49-57.	2.4	67
43	Dna Supercoiling and Bacterial Gene Expression. Science Progress, 2006, 89, 151-166.	1.0	67
44	H-NS Antagonism in Shigella flexneri by VirB, a Virulence Gene Transcription Regulator That Is Closely Related to Plasmid Partition Factors. Journal of Bacteriology, 2007, 189, 3403-3413.	1.0	67
45	Bacterial DNA topology and infectious disease. Nucleic Acids Research, 2009, 37, 672-678.	6.5	67
46	DNA topology and the global control of bacterial gene expression: implications for the regulation of virulence gene expression. Microbiology (United Kingdom), 1995, 141, 1271-1280.	0.7	67
47	Shigella flexneri 2a strain 2457T expresses three members of the H-NS-like protein family: characterization of the Sfh protein. Molecular Genetics and Genomics, 2003, 270, 66-77.	1.0	65
48	Nucleoid-associated protein HU controls three regulons that coordinate virulence, response to stress and general physiology in Salmonella enterica serovar Typhimurium. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2		64
49	DNA bridging and antibridging: a role for bacterial nucleoid-associated proteins in regulating the expression of laterally acquired genes. FEMS Microbiology Reviews, 2009, 33, 587-592.	3.9	63
50	DNA relaxationâ€dependent phase biasing of the fim genetic switch in Escherichia coli depends on the interplay of Hâ€NS, IHF and LRP. Molecular Microbiology, 2009, 74, 1071-1082.	1.2	62
51	Differential regulation of the plasmid-encoded genes in the Shigella flexneri virulence regulon. Molecular Genetics and Genomics, 1997, 256, 93-103.	2.4	60
52	Molecular Dissection of VirB, a Key Regulator of the Virulence Cascade of Shigella flexneri. Journal of Biological Chemistry, 2002, 277, 15333-15344.	1.6	57
53	Role of hns in the virulence phenotype of pathogenic salmonellae. Molecular Microbiology, 1994, 13, 133-140.	1.2	56
54	Hierarchical gene regulators adapt to its host milieus. International Journal of Medical Microbiology, 2005, 294, 487-502.	1.5	56

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55	The site-specific recombination system regulating expression of the Type 1 fimbrial subunit gene of Escherichia coli is sensitive to changes in DNA supercoiling. Molecular Microbiology, 1994, 14, 975-988.	1.2	54
56	Isolation and characterization of a topA mutant of Shigella flexneri. Molecular Microbiology, 1993, 7, 351-358.	1.2	52
57	Control of Escherichia coliâ€Štype 1 fimbrial gene expression in stationary phase: a negative role for RpoS. Molecular Genetics and Genomics, 1997, 254, 13-20.	2.4	52
58	Escherichia coli tyrT gene transcription is sensitive to DNA supercoiling in its native chromosomal context: effect of DNA topoisomerase IV overexpression on tyrT promoter function. Molecular Microbiology, 1994, 14, 151-161.	1.2	50
59	In vivoanalysis of the interactions of the LysR-like regulator SpvR with the operator sequences of thespvAandspvRvirulence genes ofSalmonella typhimurium. Molecular Microbiology, 1998, 30, 91-105.	1.2	49
60	The Leucine-Responsive Regulatory Protein, Lrp, Activates Transcription of the fim Operon in Salmonella enterica Serovar Typhimurium via the fimZ Regulatory Gene. Journal of Bacteriology, 2008, 190, 602-612.	1.0	49
61	Co-operative roles for DNA supercoiling and nucleoid-associated proteins in the regulation of bacterial transcription. Biochemical Society Transactions, 2013, 41, 542-547.	1.6	49
62	When is a transcription factor a NAP?. Current Opinion in Microbiology, 2020, 55, 26-33.	2.3	48
63	Overexpression of the Shigella flexneri genes coding for DNA topoisomerase IV compensates for loss of DNA topoisomerase I: effect on virulence gene expression. Molecular Microbiology, 1995, 15, 507-517.	1.2	47
64	The gyr genes of Salmonella enterica serovar Typhimurium are repressed by the factor for inversion stimulation, Fis. Molecular Genetics and Genomics, 2003, 270, 56-65.	1.0	47
65	DNA Supercoiling and the Lrp Protein Determine the Directionality of fim Switch DNA Inversion in Escherichia coli K-12. Journal of Bacteriology, 2006, 188, 5356-5363.	1.0	47
66	Function of Nucleoid-Associated Proteins in Chromosome Structuring and Transcriptional Regulation. Journal of Molecular Microbiology and Biotechnology, 2014, 24, 316-331.	1.0	47
67	A role for the leucine-responsive regulatory protein and integration host factor in the regulation of the Salmonella plasmid virulence (spv) locus in Salmonella typhimurium. Molecular Microbiology, 1999, 34, 134-145.	1.2	46
68	Effects of local transcription and H-NS on inversion of the fim switch of Escherichia coli. Molecular Microbiology, 2000, 36, 457-466.	1.2	46
69	The StpA Protein Functions as a Molecular Adapter To Mediate Repression of the bgl Operon by Truncated H-NS in Escherichia coli. Journal of Bacteriology, 1998, 180, 994-997.	1.0	45
70	Requirement for the molecular adapter function of StpA at the Escherichia coli bgl promoter depends upon the level of truncated H-NS protein. Molecular Microbiology, 2001, 42, 903-917.	1.2	44
71	Transcription of theSalmonella typhimurium spvvirulence locus is regulated negatively by the nucleoid-associated protein H-NS. FEMS Microbiology Letters, 1994, 121, 99-105.	0.7	42
72	In Vivo DNA-Binding and Oligomerization Properties of the Shigella flexneri AraC-Like Transcriptional Regulator VirF as Identified by Random and Site-Specific Mutagenesis. Journal of Bacteriology, 2002, 184, 531-539.	1.0	41

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73	DNA topology and bacterial virulence gene regulation. Trends in Microbiology, 1993, 1, 92-99.	3.5	40
74	Functional analysis of the FimE integrase of Escherichia coli K-12: isolation of mutant derivatives with altered DNA inversion preferences. Molecular Microbiology, 1999, 34, 965-979.	1.2	40
75	Expression of the Fis protein is sustained in lateâ€exponentialâ€and stationaryâ€phase cultures of Salmonella enterica serovar Typhimurium grown in the absence of aeration. Molecular Microbiology, 2007, 66, 237-251.	1.2	40
76	The Effect of Mobile Element IS10 on Experimental Regulatory Evolution in Escherichia coli. Molecular Biology and Evolution, 2010, 27, 2105-2112.	3.5	40
77	Thermal regulation offimA, theEscherichia coligene coding for the type 1 fimbrial subunit protein. FEMS Microbiology Letters, 1992, 99, 125-130.	0.7	34
78	The DNA supercoilingâ€sensitive expression of the Salmonella typhimurium his operon requires the his attenuator and is modulated by anaerobiosis and by osmolarity. Molecular Microbiology, 1992, 6, 2467-2476.	1.2	33
79	DNA sequence heterogeneity in Fim tyrosineâ€integrase recombinaseâ€binding elements and functional motif asymmetries determine the directionality of the fim genetic switch in Escherichia coli Kâ€12. Molecular Microbiology, 2008, 67, 171-187.	1.2	33
80	Regulatory Hierarchies Controlling Virulence Gene Expression in Shigella flexneri and Vibrio cholerae. Frontiers in Microbiology, 2018, 9, 2686.	1.5	31
81	Multicopy fimB gene expression in Escherichia coli: binding to inverted repeats in vivo, effect on fimA gene transcription and DNA inversion. Molecular Microbiology, 1996, 21, 1161-1173.	1.2	28
82	DNA topology and adaptation of salmonella typhimurium to an intracellular environment. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 565-574.	1.8	28
83	A Rho-dependent phase-variable transcription terminator controls expression of the FimE recombinase in Escherichia coli. Molecular Microbiology, 2002, 45, 1107-1117.	1.2	28
84	Rational Design of an Artificial Genetic Switch: Co-Option of the H-NS-Repressed proU Operon by the VirB Virulence Master Regulator. Journal of Bacteriology, 2011, 193, 5950-5960.	1.0	28
85	In vitro DNA-binding properties of VirB, theShigella flexnerivirulence regulatory protein. FEBS Letters, 2003, 545, 183-187.	1.3	27
86	VirB-Mediated Positive Feedback Control of the Virulence Gene Regulatory Cascade of Shigella flexneri. Journal of Bacteriology, 2012, 194, 5264-5273.	1.0	27
87	A novel role for antibiotic resistance plasmids in facilitating <scp>S</scp>almonella adaptation to nonâ€host environments. Environmental Microbiology, 2014, 16, 950-962.	1.8	26
88	Control of virulence gene transcription by indirect readout in Vibrio cholerae and Salmonella enterica serovar Typhimurium. Environmental Microbiology, 2017, 19, 3834-3845.	1.8	26
89	CRISPR-Cas, DNA Supercoiling, and Nucleoid-Associated Proteins. Trends in Microbiology, 2020, 28, 19-27.	3.5	26
90	Regulation of transcription by DNA supercoiling in Mycoplasma genitalium: global control in the smallest known selfâ€replicating genome. Molecular Microbiology, 2011, 81, 302-304.	1.2	25

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91	Two highly related regulatory proteins,Shigella flexneriVirF and enterotoxigenicEscherichia coliRns, have common and distinct regulatory properties. FEMS Microbiology Letters, 1998, 162, 303-309.	0.7	23
92	Characterization of the Detachable Rho-Dependent Transcription Terminator of the fimE Gene in Escherichia coli K-12. Journal of Bacteriology, 2005, 187, 8256-8266.	1.0	23
93	Interaction of the FimB Integrase with thefimS Invertible DNA Element in Escherichia coliIn Vivo and In Vitro. Journal of Bacteriology, 2000, 182, 2953-2959.	1.0	22
94	Use of the stationary phase inducible promoters, spv and dps, to drive heterologous antigen expression in Salmonella vaccine strains. Vaccine, 2000, 18, 1298-1306.	1.7	22
95	Re-engineering cellular physiology by rewiring high-level global regulatory genes. Scientific Reports, 2016, 5, 17653.	1.6	22
96	Environmentally constrained mutation and adaptive evolution in Salmonella. Current Biology, 1999, 9, 1477-1481.	1.8	20
97	H-NS Silences gfp , the Green Fluorescent Protein Gene: gfp ^{TCD} Is a Genetically Remastered gfp Gene with Reduced Susceptibility to H-NS-Mediated Transcription Silencing and with Enhanced Translation. Journal of Bacteriology, 2010, 192, 4790-4793.	1.0	20
98	Horizontally acquired homologues of the nucleoidâ€associated protein Hâ€NS: implications for gene regulation. Molecular Microbiology, 2010, 75, 264-267.	1.2	19
99	Transmission of an Oxygen Availability Signal at the Salmonella enterica Serovar Typhimurium fis Promoter. PLoS ONE, 2013, 8, e84382.	1.1	19
100	Negative supercoiling of DNA by gyrase is inhibited in Salmonella enterica serovar Typhimurium during adaptation to acid stress. Molecular Microbiology, 2018, 107, 734-746.	1.2	18
101	Nucleotide sequence of the R26 chloramphenicol resistance determinant and identification of its gene product. Gene, 1986, 41, 349-353.	1.0	17
102	Thinking and decision making, bacterial style: Bacterial Neural Networks, Obernai, France, 7th-12th June 2002. Molecular Microbiology, 2003, 47, 583-593.	1.2	17
103	Thermal regulation of fimA, the Escherichia coli gene coding for the type 1 fimbrial subunit protein. FEMS Microbiology Letters, 1992, 78, 125-30.	0.7	17
104	Reciprocal Transcriptional and Posttranscriptional Growth-Phase-Dependent Expression of sfh , a Gene That Encodes a Paralogue of the Nucleoid-Associated Protein H-NS. Journal of Bacteriology, 2006, 188, 7581-7591.	1.0	16
105	Regulatory integration of horizontally-transferred genes in bacteria. Frontiers in Bioscience, 2009, 14, 4103-12.	0.8	16
106	Global regulators and environmental adaptation in Gram-negative pathogens. Clinical Microbiology and Infection, 2009, 15, 47-50.	2.8	14
107	Autoregulated expression of the gene coding for the leucine-responsive protein, Lrp, a global regulator in Salmonella enterica serovar Typhimurium. Microbiology (United Kingdom), 2008, 154, 2008-2016.	0.7	13
108	Probing bacterial nucleoid structure with optical tweezers. BioEssays, 2007, 29, 212-216.	1.2	12

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109	Virulence Gene Regulation in Shigella. EcoSal Plus, 2004, 1, .	2.1	11
110	The Interplay between DNA Topology and Accessory Factors in Site-Specific Recombination in Bacteria and their Bacteriophages. Science Progress, 2016, 99, 420-437.	1.0	11
111	Bacterial pathogen gene regulation: a DNA-structure-centred view of a protein-dominated domain. Clinical Science, 2016, 130, 1165-1177.	1.8	11
112	Network Rewiring: Physiological Consequences of Reciprocally Exchanging the Physical Locations and Growth-Phase-Dependent Expression Patterns of the Salmonella fis and dps Genes. MBio, 2020, 11, .	1.8	11
113	Virulence gene deletion frequency is increased in Shigella flexneri following conjugation, transduction, and transformation. FEMS Microbiology Letters, 2006, 147, 163-172.	0.7	10
114	Small molecule signaling. Current Opinion in Microbiology, 2009, 12, 125-128.	2.3	10
115	Bacterial Chromatin. , 2010, , .		7
116	Integrating small molecule signalling and <scp>H</scp>â€<scp>NS</scp> antagonism in <scp>V</scp>ibrio cholerae, a bacterium with two chromosomes. Molecular Microbiology, 2015, 97, 612-615.	1.2	7
117	Consequences of producing DNA gyrase from a synthetic gyrBA operon in Salmonella enterica serovar Typhimurium. Molecular Microbiology, 2021, 115, 1410-1429.	1.2	7
118	Broad-scale redistribution of mRNA abundance and transcriptional machinery in response to growth rate in Salmonella enterica serovar Typhimurium. Microbial Genomics, 2017, 3, e000127.	1.0	6
119	The Virulence Plasmid of Salmonella typhimurium Contains an Autoregulated Gene, rlgA, That Codes for a Resolvase-like DNA Binding Protein. Plasmid, 2000, 44, 24-33.	0.4	5
120	The Virulence Plasmids of Shigella flexneri. Microbiology Monographs, 2009, , 151-170.	0.3	5
121	Transcription of the Salmonella typhimurium spv virulence locus is regulated negatively by the nucleoid-associated protein H-NS. , 0, .		5
122	Regulation of Transcription in Bacteria by DNA Supercoiling. , 2008, , 155-178.		4
123	The Evolution of Gene Regulatory Mechanisms in Bacteria. Grand Challenges in Biology and Biotechnology, 2018, , 125-152.	2.4	4
124	Reciprocally rewiring and repositioning the Integration Host Factor (IHF) subunit genes in Salmonella enterica serovar Typhimurium: impacts on physiology and virulence. Microbial Genomics, 2022, 8, .	1.0	3
125	A novel genetic locus determines in vivo B-Z DNA structural transitions in Escherichia coli. Trends in Biochemical Sciences, 1988, 13, 130.	3.7	2
126	Chromosome rearrangements induced by recombinant coliphage Î»pplacMu. Gene, 1990, 94, 15-22.	1.0	2

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127	Regulation of Virulence Gene Expression in Bacterial Pathogens. , 2001, , 75-132.		2
128	H-NS and genomic bridge building: lessons from the human pathogen Salmonella Typhi. Microbiology (United Kingdom), 2009, 155, 2114-2115.	0.7	2
129	DNA TOPOLOGY AND ADAPTATION OF SALMONELLA TYPHIMURIUM TO AN INTRACELLULAR ENVIRONMENT. , 2001, , .		2
130	Bacterial Chromatin and Gene Regulation. , 2010, , 245-250.		1
131	Two highly related regulatory proteins, Shigella flexneri VirF and enterotoxigenic Escherichia coli Rns, have common and distinct regulatory properties. , 0, .		1
132	7.1 Introduction. Methods in Microbiology, 1998, 27, 345-347.	0.4	0
133	Whither microbial sciences?. Nature Reviews Microbiology, 2007, 5, 828-828.	13.6	0
134	Coordination of Bacterial Virulence Gene Expression. , 2015, , 315-335.		0
135	Editorial overview: Bacterial regulatory hierarchies and networks. Current Opinion in Microbiology, 2020, 55, iii-v.	2.3	0
136	Nucleus | Organization of the Bacterial Nucleoid. , 2021, , 409-414.		0
137	Nucleoid Organization of Bacterial Chromosomes. , 2004, , 115-118.		0
138	Coordination of Gene Expression in Pathogenic Salmonella typhimurium. , 1993, , 51-62.		0
139	AgnÃ¨s Fouet â€“ departing Editor-in-Chief. Microbiology (United Kingdom), 2015, 161, 1149-1149.	0.7	0
140	Factors governing orthologous RpoD and H-NS evolution in Salmonella enterica Serovar Typhimurium and Escherichia coli. Access Microbiology, 2020, 2, .	0.2	0