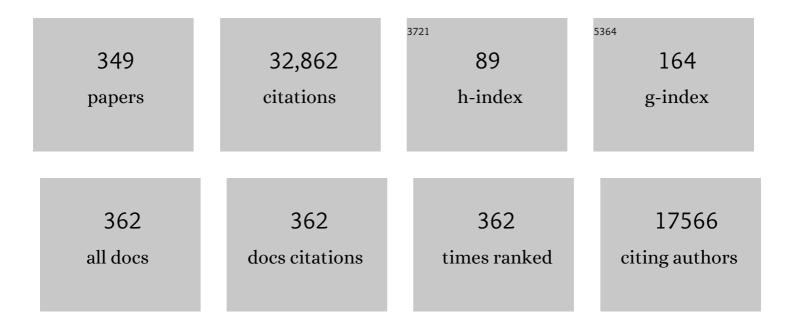
Graham C Walker

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mutagenesis and inducible responses to deoxyribonucleic acid damage in Escherichia coli. Microbiological Reviews, 1984, 48, 60-93.	10.1	1,645
2	Mechanisms of DNA damage, repair, and mutagenesis. Environmental and Molecular Mutagenesis, 2017, 58, 235-263.	0.9	1,129
3	A genetic basis for Pseudomonas aeruginosa biofilm antibiotic resistance. Nature, 2003, 426, 306-310.	13.7	1,036
4	Mutagenesis and inducible responses to deoxyribonucleic acid damage in Escherichia coli Microbiological Reviews, 1984, 48, 60-93.	10.1	895
5	The Y-Family of DNA Polymerases. Molecular Cell, 2001, 8, 7-8.	4.5	798
6	How rhizobial symbionts invade plants: the Sinorhizobium–Medicago model. Nature Reviews Microbiology, 2007, 5, 619-633.	13.6	781
7	Antibiotics induce redox-related physiological alterations as part of their lethality. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2100-9.	3.3	698
8	Exopolysaccharide-deficient mutants of Rhizobium meliloti that form ineffective nodules Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 6231-6235.	3.3	596
9	DNA Repair and Mutagenesis. , 2005, , .		591
10	Inducible DNA Repair Systems. Annual Review of Biochemistry, 1985, 54, 425-457.	5.0	588
11	DNA-damaging agents stimulate gene expression at specific loci in Escherichia coli Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 2819-2823.	3.3	527
12	Eukaryotic Translesion Polymerases and Their Roles and Regulation in DNA Damage Tolerance. Microbiology and Molecular Biology Reviews, 2009, 73, 134-154.	2.9	502
13	Succinoglycan Is Required for Initiation and Elongation of Infection Threads during Nodulation of Alfalfa by <i>Rhizobium meliloti</i> . Journal of Bacteriology, 1998, 180, 5183-5191.	1.0	448
14	Oxidation of the Guanine Nucleotide Pool Underlies Cell Death by Bactericidal Antibiotics. Science, 2012, 336, 315-319.	6.0	400
15	Bactericidal Antibiotics Induce Toxic Metabolic Perturbations that Lead to Cellular Damage. Cell Reports, 2015, 13, 968-980.	2.9	393
16	RecA-mediated cleavage activates UmuD for mutagenesis: mechanistic relationship between transcriptional derepression and posttranslational activation Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 1816-1820.	3.3	383
17	Symbiotic mutants of rhizobium meliloti that uncouple plant from bacterial differentiation. Cell, 1985, 40, 869-877.	13.5	348
18	Molecular Determinants of a Symbiotic Chronic Infection. Annual Review of Genetics, 2008, 42, 413-441.	3.2	326

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#	Article	IF	CITATIONS
19	Proteins required for ultraviolet light and chemical mutagenesis. Journal of Molecular Biology, 1983, 164, 175-192.	2.0	306
20	Enhancing tumor cell response to chemotherapy through nanoparticle-mediated codelivery of siRNA and cisplatin prodrug. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18638-18643.	3.3	302
21	Biosynthesis of succinoglycan, a symbiotically important exopolysaccharide of Rhizobium meliloti. Cell, 1993, 74, 269-280.	13.5	296
22	A novel exopolysaccharide can function in place of the Calcofluor-binding exopolysaccharide in nodulation of alfalfa by Rhizobium meliloti. Cell, 1989, 56, 661-672.	13.5	295
23	The Sos Response: Recent Insights intoumuDC-Dependent Mutagenesis and DNA Damage Tolerance. Annual Review of Genetics, 2000, 34, 479-497.	3.2	288
24	Inducibility of a gene product required for UV and chemical mutagenesis in Escherichia coli Proceedings of the National Academy of Sciences of the United States of America, 1981, 78, 5749-5753.	3.3	278
25	General transduction in Rhizobium meliloti. Journal of Bacteriology, 1984, 159, 120-124.	1.0	274
26	Degradation of carboxy-terminal-tagged cytoplasmic proteins by the Escherichia coli protease HflB (FtsH). Genes and Development, 1998, 12, 1348-1355.	2.7	255
27	Rhizobium meliloti mutants that fail to succinylate their Calcofluor-binding exopolysaccharide are defective in nodule invasion. Cell, 1987, 51, 579-587.	13.5	243
28	Escherichia coli dnaK null mutants are inviable at high temperature. Journal of Bacteriology, 1987, 169, 283-290.	1.0	241
29	New recA mutations that dissociate the various RecA protein activities in Escherichia coli provide evidence for an additional role for RecA protein in UV mutagenesis. Journal of Bacteriology, 1989, 171, 2415-2423.	1.0	240
30	Cellular defects caused by deletion of the Escherichia coli dnaK gene indicate roles for heat shock protein in normal metabolism. Journal of Bacteriology, 1989, 171, 2337-2346.	1.0	236
31	A single amino acid governs enhanced activity of DinB DNA polymerases on damaged templates. Nature, 2006, 439, 225-228.	13.7	227
32	A White-Box Machine Learning Approach for Revealing Antibiotic Mechanisms of Action. Cell, 2019, 177, 1649-1661.e9.	13.5	227
33	umuDC and mucAB operons whose products are required for UV light- and chemical-induced mutagenesis: UmuD, MucA, and LexA proteins share homology Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 4331-4335.	3.3	222
34	Unraveling the Physiological Complexities of Antibiotic Lethality. Annual Review of Pharmacology and Toxicology, 2015, 55, 313-332.	4.2	222
35	DnaK as a thermometer: threonine-199 is site of autophosphorylation and is critical for ATPase activity Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 9513-9517.	3.3	216
36	Expression of the E. coli uvrA gene is inducible. Nature, 1981, 289, 808-810.	13.7	210

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37	Genes needed for the modification, polymerization, export, and processing of succinoglycan by Rhizobium meliloti: a model for succinoglycan biosynthesis. Journal of Bacteriology, 1993, 175, 7045-7055.	1.0	197
38	Plasmid (pKM101)-mediated enhancement of repair and mutagenesis: Dependence on chromosomal genes in Escherichia coli K-12. Molecular Genetics and Genomics, 1977, 152, 93-103.	2.4	190
39	Alfalfa Root Nodule Invasion Efficiency Is Dependent on Sinorhizobium melilotiPolysaccharides. Journal of Bacteriology, 2000, 182, 4310-4318.	1.0	190
40	Changing the Culture of Science Education at Research Universities. Science, 2011, 331, 152-153.	6.0	188
41	Identification of plasmid (pKM101)-coded proteins involved in mutagenesis and UV resistance. Nature, 1982, 300, 278-281.	13.7	186
42	Differential response of the plant <i>Medicago truncatula</i> to its symbiont <i>Sinorhizobium meliloti</i> or an exopolysaccharide-deficient mutant. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 704-709.	3.3	185
43	Error-prone translesion synthesis mediates acquired chemoresistance. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20792-20797.	3.3	183
44	Low molecular weight EPS II of Rhizobium meliloti allows nodule invasion in Medicago sativa Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 8636-8641.	3.3	179
45	Detailed structural characterization of succinoglycan, the major exopolysaccharide of Rhizobium meliloti Rm1021. Journal of Bacteriology, 1994, 176, 1997-2002.	1.0	175
46	Managing DNA polymerases: Coordinating DNA replication, DNA repair, and DNA recombination. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 8342-8349.	3.3	170
47	Genetic analysis of a cluster of genes required for synthesis of the calcofluor-binding exopolysaccharide of Rhizobium meliloti. Journal of Bacteriology, 1988, 170, 4239-4248.	1.0	169
48	Characterization of a Novel Pyranopyridine Inhibitor of the AcrAB Efflux Pump of Escherichia coli. Antimicrobial Agents and Chemotherapy, 2014, 58, 722-733.	1.4	169
49	Hydroxyurea Induces Hydroxyl Radical-Mediated Cell Death in Escherichia coli. Molecular Cell, 2009, 36, 845-860.	4.5	168
50	A Rhizobium meliloti homolog of the Escherichia coli peptide-antibiotic transport protein SbmA is essential for bacteroid development Genes and Development, 1993, 7, 1485-1497.	2.7	167
51	Exopolysaccharides of Rhizobium: synthesis, regulation and symbiotic function. Trends in Genetics, 1994, 10, 63-67.	2.9	165
52	Rhizobium meliloti mutants that overproduce the R. meliloti acidic calcofluor-binding exopolysaccharide. Journal of Bacteriology, 1988, 170, 4249-4256.	1.0	164
53	A LuxR Homolog Controls Production of Symbiotically Active Extracellular Polysaccharide II by Sinorhizobium meliloti. Journal of Bacteriology, 2002, 184, 5067-5076.	1.0	164
54	Similar Requirements of a Plant Symbiont and a Mammalian Pathogen for Prolonged Intracellular Survival. Science, 2000, 287, 2492-2493.	6.0	162

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55	BluB cannibalizes flavin to form the lower ligand of vitamin B12. Nature, 2007, 446, 449-453.	13.7	160
56	Suppression of Rev3, the catalytic subunit of Polζ, sensitizes drug-resistant lung tumors to chemotherapy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20786-20791.	3.3	160
57	A model for a umuDC-dependent prokaryotic DNA damage checkpoint. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 9218-9223.	3.3	158
58	The critical mutagenic translesion DNA polymerase Rev1 is highly expressed during G2/M phase rather than S phase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8971-8976.	3.3	158
59	Mutagenesis and repair deficiencies of Escherichia coli umuC mutants are suppressed by the plasmid pKM101. Molecular Genetics and Genomics, 1979, 172, 17-24.	2.4	147
60	Succinoglycan Production by <i>Rhizobium meliloti</i> Is Regulated through the ExoS-ChvI Two-Component Regulatory System. Journal of Bacteriology, 1998, 180, 20-26.	1.0	146
61	Mutations altering heat shock specific subunit of RNA polymerase suppress major cellular defects of E. coli mutants lacking the DnaK chaperone EMBO Journal, 1990, 9, 4027-4036.	3.5	140
62	Family of glycosyl transferases needed for the synthesis of succinoglycan by Rhizobium meliloti. Journal of Bacteriology, 1993, 175, 7033-7044.	1.0	140
63	Mutagenesis and More: umuDC and the Escherichia coli SOS Response. Genetics, 1998, 148, 1599-1610.	1.2	140
64	Rhizobium meliloti exopolysaccharides: Synthesis and symbiotic function. Gene, 1996, 179, 141-146.	1.0	139
65	The 32-kilobase exp gene cluster of Rhizobium meliloti directing the biosynthesis of galactoglucan: genetic organization and properties of the encoded gene products. Journal of Bacteriology, 1997, 179, 1375-1384.	1.0	139
66	Y-family DNA polymerases in Escherichia coli. Trends in Microbiology, 2007, 15, 70-77.	3.5	137
67	The SOS Regulatory Network. EcoSal Plus, 2008, 3, .	2.1	134
68	Host plant peptides elicit a transcriptional response to control the <i>Sinorhizobium meliloti</i> cell cycle during symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3561-3566.	3.3	134
69	Chronic intracellular infection of alfalfa nodules bySinorhizobium melilotirequires correct lipopolysaccharide core. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3938-3943.	3.3	129
70	Conserved Bacterial RNase YbeY Plays Key Roles in 70S Ribosome Quality Control and 16S rRNA Maturation. Molecular Cell, 2013, 49, 427-438.	4.5	127
71	A Small Molecule Targeting Mutagenic Translesion Synthesis Improves Chemotherapy. Cell, 2019, 178, 152-159.e11.	13.5	126
72	Delta dnaK52 mutants of Escherichia coli have defects in chromosome segregation and plasmid maintenance at normal growth temperatures. Journal of Bacteriology, 1989, 171, 6030-6038.	1.0	124

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73	Conjugal transfer system of the IncN plasmid pKM101. Journal of Bacteriology, 1985, 161, 402-410.	1.0	123
74	[19] Genetic techniques in Rhizobium meliloti. Methods in Enzymology, 1991, 204, 398-418.	0.4	122
75	Structure of the Endonuclease Domain of MutL: Unlicensed to Cut. Molecular Cell, 2010, 39, 145-151.	4.5	122
76	Structural Characterization of the Symbiotically Important Low-Molecular-Weight Succinoglycan of <i>Sinorhizobium meliloti</i> . Journal of Bacteriology, 1999, 181, 6788-6796.	1.0	120
77	Symbiotic loci of Rhizobium meliloti identified by random TnphoA mutagenesis. Journal of Bacteriology, 1988, 170, 4257-4265.	1.0	119
78	Localization of the plasmid (pKM101) gene(s) involved in recA + lexA +-dependent mutagenesis. Molecular Genetics and Genomics, 1980, 179, 289-297.	2.4	118
79	Dominant negative umuD mutations decreasing RecA-mediated cleavage suggest roles for intact UmuD in modulation of SOS mutagenesis Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 7190-7194.	3.3	118
80	Cold sensitivity induced by overproduction of UmuDC in Escherichia coli. Journal of Bacteriology, 1985, 162, 155-161.	1.0	117
81	Functional organization of plasmid pKM101. Journal of Bacteriology, 1981, 145, 1310-1316.	1.0	108
82	Cell Cycle Control by the Master Regulator CtrA in Sinorhizobium meliloti. PLoS Genetics, 2015, 11, e1005232.	1.5	105
83	Genetic manipulations in Rhizobium meliloti utilizing two new transposon Tn5 derivatives. Molecular Genetics and Genomics, 1986, 204, 485-491.	2.4	104
84	The Escherichia coli SOS mutagenesis proteins UmuD and UmuD' interact physically with the replicative DNA polymerase. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 12373-12378.	3.3	100
85	Î ² Clamp Directs Localization of Mismatch Repair in Bacillus subtilis. Molecular Cell, 2008, 29, 291-301.	4.5	100
86	Biosynthetic control of molecular weight in the polymerization of the octasaccharide subunits of succinoglycan, a symbiotically important exopolysaccharide of Rhizobium meliloti. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 13477-13482.	3.3	99
87	Similarity to peroxisomal-membrane protein family reveals that Sinorhizobium and Brucella BacA affect lipid-A fatty acids. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5012-5017.	3.3	99
88	UmuD and RecA Directly Modulate the Mutagenic Potential of the Y Family DNA Polymerase DinB. Molecular Cell, 2007, 28, 1058-1070.	4.5	99
89	Functional characterization of bacterial sRNAs using a network biology approach. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15522-15527.	3.3	99
90	Structural Basis of Rev1-mediated Assembly of a Quaternary Vertebrate Translesion Polymerase Complex Consisting of Rev1, Heterodimeric Polymerase (Pol) ζ, and Pol κ. Journal of Biological Chemistry, 2012, 287, 33836-33846.	1.6	98

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91	SOS-regulated proteins in translesion DNA synthesis and mutagenesis. Trends in Biochemical Sciences, 1995, 20, 416-420.	3.7	97
92	Role of <i>Escherichia coli</i> YbeY, a highly conserved protein, in rRNA processing. Molecular Microbiology, 2010, 78, 506-518.	1.2	97
93	The Escherichia coli polB gene, which encodes DNA polymerase II, is regulated by the SOS system. Journal of Bacteriology, 1990, 172, 6268-6273.	1.0	96
94	Roles for the transcription elongation factor NusA in both DNA repair and damage tolerance pathways in <i>Escherichia coli</i> . Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15517-15522.	3.3	96
95	Isolation and characterization of Tn5 insertion mutations in the lexA gene of Escherichia coli. Journal of Bacteriology, 1983, 153, 1368-1378.	1.0	96
96	Exogenous suppression of the symbiotic deficiencies of Rhizobium meliloti exo mutants. Journal of Bacteriology, 1992, 174, 3403-3406.	1.0	95
97	The Rhizobium meliloti exoK gene and prsD / prsE / exsH genes are components of independent degradative pathways which contribute to production of lowâ€molecularâ€weight succinoglycan. Molecular Microbiology, 1997, 25, 117-134.	1.2	92
98	Construction of an Escherichia coli K-12 ada deletion by gene replacement in a recD strain reveals a second methyltransferase that repairs alkylated DNA. Journal of Bacteriology, 1988, 170, 3294-3296.	1.0	91
99	Sinorhizobium meliloti bluB is necessary for production of 5,6-dimethylbenzimidazole, the lower ligand of B12. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4634-4639.	3.3	91
100	Deficiency of a Sinorhizobium meliloti bacA Mutant in Alfalfa Symbiosis Correlates with Alteration of the Cell Envelope. Journal of Bacteriology, 2002, 184, 5625-5632.	1.0	89
101	Induction and autoregulation of ada, a positively acting element regulating the response of Escherichia coli K-12 to methylating agents. Journal of Bacteriology, 1985, 161, 888-895.	1.0	89
102	Structural studies of a novel exopolysaccharide produced by a mutant of Rhizobium meliloti strain Rm1021. Carbohydrate Research, 1990, 198, 305-312.	1.1	88
103	Visualization of Mismatch Repair in Bacterial Cells. Molecular Cell, 2001, 8, 1197-1206.	4.5	86
104	Rhizobium meliloti exoG and exoJ mutations affect the exoX-exoY system for modulation of exopolysaccharide production. Journal of Bacteriology, 1991, 173, 3776-3788.	1.0	85
105	Regulation of Rhizobium meliloti exo genes in free-living cells and in planta examined by using TnphoA fusions. Journal of Bacteriology, 1991, 173, 426-434.	1.0	85
106	Clobal analysis of cell cycle gene expression of the legume symbiont <i>Sinorhizobium meliloti</i> . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3217-3224.	3.3	85
107	The muc genes of pKM101 are induced by DNA damage. Journal of Bacteriology, 1983, 155, 1306-1315.	1.0	83
108	Rhizobial peptidase HrrP cleaves host-encoded signaling peptides and mediates symbiotic compatibility. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15244-15249.	3.3	82

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109	Isolation and characterization of mutants of the plasmid pKM101 deficient in their ability to enhance mutagenesis and repair. Journal of Bacteriology, 1978, 133, 1203-1211.	1.0	82
110	groE mutants of Escherichia coli are defective in umuDC-dependent UV mutagenesis. Journal of Bacteriology, 1989, 171, 6117-6125.	1.0	80
111	Y-family DNA polymerases respond to DNA damage-independent inhibition of replication fork progression. EMBO Journal, 2006, 25, 868-879.	3.5	78
112	Ttsl regulates symbiotic genes in <i>Rhizobium</i> species NGR234 by binding to <i>tts</i> boxes. Molecular Microbiology, 2008, 68, 736-748.	1.2	77
113	BacA, an ABC Transporter Involved in Maintenance of Chronic Murine Infections with <i>Mycobacterium tuberculosis</i> . Journal of Bacteriology, 2009, 191, 477-485.	1.0	76
114	Polymerase exchange on single DNA molecules reveals processivity clamp control of translesion synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7647-7652.	3.3	76
115	The exoR gene of Rhizobium meliloti affects RNA levels of other exo genes but lacks homology to known transcriptional regulators. Journal of Bacteriology, 1991, 173, 3789-3794.	1.0	75
116	Importance of unusually modified lipid A in Sinorhizobium stress resistance and legume symbiosis. Molecular Microbiology, 2005, 56, 68-80.	1.2	74
117	Dimerization of the UmuD' protein in solution and its implications for regulation of SOS mutagenesis. Nature Structural Biology, 1997, 4, 979-982.	9.7	73
118	Identification and characterization of the mutL and mutS gene products of Salmonella typhimurium LT2. Journal of Bacteriology, 1985, 163, 1007-1015.	1.0	73
119	Striking Complexity of Lipopolysaccharide Defects in a Collection of Sinorhizobium meliloti Mutants. Journal of Bacteriology, 2003, 185, 3853-3862.	1.0	72
120	Regulation of <i>Escherichia coli</i> SOS mutagenesis by dimeric intrinsically disordered <i>umuD</i> gene products. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1152-1157.	3.3	71
121	Essential Role for the BacA Protein in the Uptake of a Truncated Eukaryotic Peptide in <i>Sinorhizobium meliloti</i> . Journal of Bacteriology, 2009, 191, 1519-1527.	1.0	71
122	Multifaceted Recognition of Vertebrate Rev1 by Translesion Polymerases ζ and κ. Journal of Biological Chemistry, 2012, 287, 26400-26408.	1.6	69
123	NMR Structure and Dynamics of the C-Terminal Domain from Human Rev1 and Its Complex with Rev1 Interacting Region of DNA Polymerase î. Biochemistry, 2012, 51, 5506-5520.	1.2	69
124	Altering the conserved nucleotide binding motif in the Salmonella typhimurium MutS mismatch repair protein affects both its ATPase and mismatch binding activities. EMBO Journal, 1991, 10, 2707-15.	3.5	69
125	Mutations altering heat shock specific subunit of RNA polymerase suppress major cellular defects of E. coli mutants lacking the DnaK chaperone. EMBO Journal, 1990, 9, 4027-36.	3.5	69
126	DnaK mutants defective in ATPase activity are defective in negative regulation of the heat shock response: expression of mutant DnaK proteins results in filamentation. Journal of Bacteriology, 1994, 176, 764-780.	1.0	68

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127	Unconventional Ubiquitin Recognition by the Ubiquitin-Binding Motif within the Y Family DNA Polymerases Î ¹ and Rev1. Molecular Cell, 2010, 37, 408-417.	4.5	68
128	The <scp>DivJ</scp> , <scp>CbrA</scp> and <scp>PleC</scp> system controls <scp>DivK</scp> phosphorylation and symbiosis in <i><scp>S</scp>inorhizobium meliloti</i> . Molecular Microbiology, 2013, 90, 54-71.	1.2	68
129	Regulation of damage-inducible genes in Escherichia coli. Journal of Molecular Biology, 1982, 160, 445-457.	2.0	67
130	A highly conserved protein of unknown function in Sinorhizobium meliloti affects sRNA regulation similar to Hfq. Nucleic Acids Research, 2011, 39, 4691-4708.	6.5	67
131	Exo-Oligosaccharides of Rhizobium sp. Strain NGR234 Are Required for Symbiosis with Various Legumes. Journal of Bacteriology, 2006, 188, 6168-6178.	1.0	65
132	Comparison of Responses to Double-Strand Breaks between <i>Escherichia coli</i> and <i>Bacillus subtilis</i> Reveals Different Requirements for SOS Induction. Journal of Bacteriology, 2009, 191, 1152-1161.	1.0	65
133	The Transcription Elongation Factor NusA Is Required for Stress-Induced Mutagenesis in Escherichia coli. Current Biology, 2010, 20, 80-85.	1.8	65
134	Inhibition of mutagenic translesion synthesis: A possible strategy for improving chemotherapy?. PLoS Genetics, 2017, 13, e1006842.	1.5	65
135	Transcriptional Modulator NusA Interacts with Translesion DNA Polymerases in <i>Escherichia coli</i> . Journal of Bacteriology, 2009, 191, 665-672.	1.0	64
136	Genetic analysis of the Rhizobium meliloti bacA gene: functional interchangeability with the Escherichia coli sbmA gene and phenotypes of mutants. Journal of Bacteriology, 1997, 179, 209-216.	1.0	64
137	Restriction endonuclease cleavage map of pKM101: Relationship to parental plasmid R46. Molecular Genetics and Genomics, 1981, 182, 268-272.	2.4	63
138	Coexpression of UmuD' with UmuC suppresses the UV mutagenesis deficiency of groE mutants. Journal of Bacteriology, 1992, 174, 3133-3139.	1.0	61
139	Disruption of sitA Compromises Sinorhizobium meliloti for Manganese Uptake Required for Protection against Oxidative Stress. Journal of Bacteriology, 2007, 189, 2101-2109.	1.0	61
140	NMR studies of succinoglycan repeating-unit octasaccharides from Rhizobium meliloti and Agrobacterium radiobacter. International Journal of Biological Macromolecules, 1995, 17, 357-363.	3.6	59
141	ATPase-Defective Derivatives of Escherichia coli DnaK That Behave Differently with Respect to ATP-Induced Conformational Change and Peptide Release. Journal of Bacteriology, 2001, 183, 5482-5490.	1.0	59
142	DNA Polymerase V Allows Bypass of Toxic Guanine Oxidation Products in Vivo. Journal of Biological Chemistry, 2007, 282, 12741-12748.	1.6	59
143	The acetyl substituent of succinoglycan is not necessary for alfalfa nodule invasion by Rhizobium meliloti Rm1021. Journal of Bacteriology, 1993, 175, 3653-3655.	1.0	58
144	Inducible reactivation and mutagenesis of UV-irradiated bacteriophage P22 in Salmonella typhimurium LT2 containing the plasmid pKM101. Journal of Bacteriology, 1978, 135, 415-421.	1.0	58

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145	Replication is required for the RecA localization response to DNA damage in Bacillus subtilis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1360-1365.	3.3	55
146	<i>Sinorhizobium meliloti</i> Requires a Cobalamin-Dependent Ribonucleotide Reductase for Symbiosis With Its Plant Host. Molecular Plant-Microbe Interactions, 2010, 23, 1643-1654.	1.4	54
147	umuDC -Mediated Cold Sensitivity Is a Manifestation of Functions of the UmuD 2 C Complex Involved in a DNA Damage Checkpoint Control. Journal of Bacteriology, 2001, 183, 1215-1224.	1.0	53
148	The Ada protein acts as both a positive and a negative modulator of Escherichia coli's response to methylating agents Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 9730-9734.	3.3	52
149	Localization of UvrA and Effect of DNA Damage on the Chromosome of Bacillus subtilis. Journal of Bacteriology, 2002, 184, 488-493.	1.0	52
150	A Hierarchical Biology Concept Framework: A Tool for Course Design. CBE: Life Sciences Education, 2004, 3, 111-121.	0.7	52
151	Phasmid vectors for identification of genes by complementation of Escherichia coli mutants. Journal of Bacteriology, 1985, 162, 777-783.	1.0	52
152	Novel Role for the C Terminus of Saccharomyces cerevisiae Rev1 in Mediating Protein-Protein Interactions. Molecular and Cellular Biology, 2006, 26, 8173-8182.	1.1	51
153	The Highly Conserved Bacterial RNase YbeY Is Essential in Vibrio cholerae, Playing a Critical Role in Virulence, Stress Regulation, and RNA Processing. PLoS Pathogens, 2014, 10, e1004175.	2.1	51
154	Identification of YbeY-Protein Interactions Involved in 16S rRNA Maturation and Stress Regulation in Escherichia coli. MBio, 2016, 7, .	1.8	51
155	Genome-Wide Sensitivity Analysis of the Microsymbiont <i>Sinorhizobium meliloti</i> to Symbiotically Important, Defensin-Like Host Peptides. MBio, 2017, 8, .	1.8	51
156	Interaction between the Rev1 C-Terminal Domain and the PolD3 Subunit of Polζ Suggests a Mechanism of Polymerase Exchange upon Rev1/Polζ-Dependent Translesion Synthesis. Biochemistry, 2016, 55, 2043-2053.	1.2	50
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