

# Diarmaid Hughes

## List of Publications by Citations

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141  
papers

9,209  
citations

41  
h-index

95  
g-index

150  
ext. papers

10,989  
ext. citations

7.9  
avg, IF

6.75  
L-index

#	Paper	IF	Citations
141	Antibiotic resistance and its cost: is it possible to reverse resistance?. <i>Nature Reviews Microbiology</i> , <b>2010</b> , 8, 260-71	22.2	1375
140	Selection of resistant bacteria at very low antibiotic concentrations. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002158	7.6	913
139	Microbiological effects of sublethal levels of antibiotics. <i>Nature Reviews Microbiology</i> , <b>2014</b> , 12, 465-78	22.2	856
138	Mechanisms and consequences of bacterial resistance to antimicrobial peptides. <i>Drug Resistance Updates</i> , <b>2016</b> , 26, 43-57	23.2	353
137	Effects of environment on compensatory mutations to ameliorate costs of antibiotic resistance. <i>Science</i> , <b>2000</b> , 287, 1479-82	33.3	331
136	Mutation rate and evolution of fluoroquinolone resistance in Escherichia coli isolates from patients with urinary tract infections. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2003</b> , 47, 3222-32	5.9	255
135	Virulence of antibiotic-resistant Salmonella typhimurium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 3949-53	11.5	255
134	Persistence of antibiotic resistance in bacterial populations. <i>FEMS Microbiology Reviews</i> , <b>2011</b> , 35, 901-11	15.1	248
133	Interplay in the selection of fluoroquinolone resistance and bacterial fitness. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000541	7.6	224
132	Evolution of antibiotic resistance at non-lethal drug concentrations. <i>Drug Resistance Updates</i> , <b>2012</b> , 15, 162-72	23.2	193
131	Biological cost and compensatory evolution in fusidic acid-resistant Staphylococcus aureus. <i>Molecular Microbiology</i> , <b>2001</b> , 40, 433-9	4.1	193
130	Gene amplification and adaptive evolution in bacteria. <i>Annual Review of Genetics</i> , <b>2009</b> , 43, 167-95	14.5	191
129	Evolutionary consequences of drug resistance: shared principles across diverse targets and organisms. <i>Nature Reviews Genetics</i> , <b>2015</b> , 16, 459-71	30.1	150
128	Muller's ratchet decreases fitness of a DNA-based microbe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 906-7	11.5	139
127	Structure of a mutant EF-G reveals domain III and possibly the fusidic acid binding site. <i>Journal of Molecular Biology</i> , <b>2000</b> , 303, 593-603	6.5	128
126	Establishment of a superficial skin infection model in mice by using Staphylococcus aureus and Streptococcus pyogenes. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2005</b> , 49, 3435-41	5.9	123
125	Novel ribosomal mutations affecting translational accuracy, antibiotic resistance and virulence of Salmonella typhimurium. <i>Molecular Microbiology</i> , <b>1999</b> , 31, 53-8	4.1	116

124	Biological cost of single and multiple norfloxacin resistance mutations in Escherichia coli implicated in urinary tract infections. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2005</b> , 49, 2343-51	5.9	112
123	Selection of resistance at lethal and non-lethal antibiotic concentrations. <i>Current Opinion in Microbiology</i> , <b>2012</b> , 15, 555-60	7.9	105
122	Fitness-compensatory mutations in rifampicin-resistant RNA polymerase. <i>Molecular Microbiology</i> , <b>2012</b> , 85, 142-51	4.1	104
121	Selection of ciprofloxacin resistance in Escherichia coli in an in vitro kinetic model: relation between drug exposure and mutant prevention concentration. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2006</b> , 57, 1116-21	5.1	100
120	Evolutionary Trajectories to Antibiotic Resistance. <i>Annual Review of Microbiology</i> , <b>2017</b> , 71, 579-596	17.5	93
119	Fusidic acid-resistant mutants define three regions in elongation factor G of Salmonella typhimurium. <i>Gene</i> , <b>1994</b> , 143, 55-9	3.8	87
118	Exploiting genomics, genetics and chemistry to combat antibiotic resistance. <i>Nature Reviews Genetics</i> , <b>2003</b> , 4, 432-41	30.1	85
117	Homologous recombination between the <i>tuf</i> genes of Salmonella typhimurium. <i>Journal of Molecular Biology</i> , <b>1996</b> , 260, 506-22	6.5	84
116	Identification of the genetic basis for clinical menadione-auxotrophic small-colony variant isolates of Staphylococcus aureus. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2008</b> , 52, 4017-22	5.9	80
115	Genetic and phenotypic identification of fusidic acid-resistant mutants with the small-colony-variant phenotype in Staphylococcus aureus. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2007</b> , 51, 4438-46	5.9	75
114	Environmental and genetic modulation of the phenotypic expression of antibiotic resistance. <i>FEMS Microbiology Reviews</i> , <b>2017</b> , 41, 374-391	15.1	73
113	Accumulation of mutants in "aging" bacterial colonies is due to growth under selection, not stress-induced mutagenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 11863-8	11.5	71
112	Evaluating genome dynamics: the constraints on rearrangements within bacterial genomes. <i>Genome Biology</i> , <b>2000</b> , 1, REVIEWS0006	18.3	71
111	Genetic characterization of compensatory evolution in strains carrying <i>rpoB</i> Ser531Leu, the rifampicin resistance mutation most frequently found in clinical isolates. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2013</b> , 68, 2493-7	5.1	65
110	Discovery and preclinical development of new antibiotics. <i>Upsala Journal of Medical Sciences</i> , <b>2014</b> , 119, 162-9	2.8	64
109	Mutant prevention concentrations of ciprofloxacin for urinary tract infection isolates of Escherichia coli. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2005</b> , 55, 938-43	5.1	64
108	The dynamic structure of EF-G studied by fusidic acid resistance and internal revertants. <i>Journal of Molecular Biology</i> , <b>1996</b> , 258, 420-32	6.5	62
107	Odilorhabdins, Antibacterial Agents that Cause Miscoding by Binding at a New Ribosomal Site. <i>Molecular Cell</i> , <b>2018</b> , 70, 83-94.e7	17.6	58

106	Mutations to kirromycin resistance occur in the interface of domains I and III of EF-Tu.GTP. <i>FEBS Letters</i> , <b>1994</b> , 352, 118-22	3.8	53
105	Mutation Supply and Relative Fitness Shape the Genotypes of Ciprofloxacin-Resistant <i>Escherichia coli</i> . <i>Molecular Biology and Evolution</i> , <b>2017</b> , 34, 1029-1039	8.3	49
104	Genetic determinants of resistance to fusidic acid among clinical bacteremia isolates of <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2009</b> , 53, 2059-65	5.9	46
103	Comprehensive phenotypic characterization of rifampicin resistance mutations in <i>Salmonella</i> provides insight into the evolution of resistance in <i>Mycobacterium tuberculosis</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2015</b> , 70, 680-5	5.1	45
102	The Selective Advantage of Synonymous Codon Usage Bias in <i>Salmonella</i> . <i>PLoS Genetics</i> , <b>2016</b> , 12, e1005926	5.2	41
101	In vitro activity of apramycin against multidrug-, carbapenem- and aminoglycoside-resistant Enterobacteriaceae and <i>Acinetobacter baumannii</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2019</b> , 74, 944-952	5.1	40
100	Dose-related selection of fluoroquinolone-resistant <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2007</b> , 60, 795-801	5.1	40
99	Fitness cost: a bacteriological explanation for the demise of the first international methicillin-resistant <i>Staphylococcus aureus</i> epidemic. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2012</b> , 67, 1325-32	5.1	38
98	Fusidic acid-resistant EF-G perturbs the accumulation of ppGpp. <i>Molecular Microbiology</i> , <b>2000</b> , 37, 98-107	4.1	38
97	Suppression of rpsL phenotypes by tuf mutations reveals a unique relationship between translation elongation and growth rate. <i>Molecular Microbiology</i> , <b>1993</b> , 7, 275-84	4.1	38
96	Co-evolution of the tuf genes links gene conversion with the generation of chromosomal inversions. <i>Journal of Molecular Biology</i> , <b>2000</b> , 297, 355-64	6.5	35
95	A single amino acid substitution in elongation factor Tu disrupts interaction between the ternary complex and the ribosome. <i>Journal of Bacteriology</i> , <b>1993</b> , 175, 240-50	3.5	35
94	Alternative Evolutionary Pathways for Drug-Resistant Small Colony Variant Mutants in. <i>MBio</i> , <b>2017</b> , 8,	7.8	34
93	Both genes for EF-Tu in <i>Salmonella typhimurium</i> are individually dispensable for growth. <i>Journal of Molecular Biology</i> , <b>1990</b> , 215, 41-51	6.5	34
92	Fusidic acid-resistant mutants of <i>Salmonella enterica</i> serovar Typhimurium with low fitness in vivo are defective in RpoS induction. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2003</b> , 47, 3743-9	5.9	33
91	A new mutation in 16S rRNA of <i>Escherichia coli</i> conferring spectinomycin resistance. <i>Nucleic Acids Research</i> , <b>1995</b> , 23, 464-6	20.1	33
90	Growth and translation elongation rate are sensitive to the concentration of EF-Tu. <i>Molecular Microbiology</i> , <b>1993</b> , 8, 761-70	4.1	33
89	Mutant forms of tufA and tufB independently suppress nonsense mutations. <i>Journal of Molecular Biology</i> , <b>1987</b> , 197, 611-5	6.5	32

88	Ciprofloxacin selects for RNA polymerase mutations with pleiotropic antibiotic resistance effects. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2017</b> , 72, 75-84	5.1	31
87	The role of EF-Tu and other translation components in determining translocation step size. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>1990</b> , 1050, 274-8		28
86	Functional Constraints on Replacing an Essential Gene with Its Ancient and Modern Homologs. <i>MBio</i> , <b>2017</b> , 8,	7.8	27
85	A mechanism-based pharmacokinetic/pharmacodynamic model allows prediction of antibiotic killing from MIC values for WT and mutants. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2015</b> , 70, 3051-60	5.1	26
84	Evidence for the critical role of a secondary site rpoB mutation in the compensatory evolution and successful transmission of an MDR tuberculosis outbreak strain. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2016</b> , 71, 324-32	5.1	26
83	Weak mutators can drive the evolution of fluoroquinolone resistance in Escherichia coli. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2006</b> , 50, 3454-6	5.9	26
82	Selection and Transmission of Antibiotic-Resistant Bacteria. <i>Microbiology Spectrum</i> , <b>2017</b> , 5,	8.9	26
81	Fitness cost constrains the spectrum of marR mutations in ciprofloxacin-resistant Escherichia coli. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2017</b> , 72, 3016-3024	5.1	25
80	Genome-wide detection of spontaneous chromosomal rearrangements in bacteria. <i>PLoS ONE</i> , <b>2012</b> , 7, e42639	3.7	25
79	Selection and evolution of resistance to antimicrobial drugs. <i>IUBMB Life</i> , <b>2014</b> , 66, 521-9	4.7	24
78	Carbon starvation of Salmonella typhimurium does not cause a general increase of mutation rates. <i>Journal of Bacteriology</i> , <b>1997</b> , 179, 6688-91	3.5	24
77	Hyper-susceptibility of a fusidic acid-resistant mutant of Salmonella to different classes of antibiotics. <i>FEMS Microbiology Letters</i> , <b>2005</b> , 247, 215-20	2.9	23
76	Biological roles of translesion synthesis DNA polymerases in eubacteria. <i>Molecular Microbiology</i> , <b>2010</b> , 77, 540-8	4.1	22
75	Suppression of a -1 frameshift mutation by a recessive tRNA suppressor which causes doublet decoding. <i>Journal of Bacteriology</i> , <b>1989</b> , 171, 3824-30	3.5	22
74	Genetic complexity of fusidic acid-resistant small colony variants (SCV) in Staphylococcus aureus. <i>PLoS ONE</i> , <b>2011</b> , 6, e28366	3.7	22
73	Error-prone EF-Tu reduces in vivo enzyme activity and cellular growth rate. <i>Molecular Microbiology</i> , <b>1991</b> , 5, 623-30	4.1	21
72	Can phylogenetic type predict resistance development?. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2011</b> , 66, 778-87	5.1	20
71	Population Bottlenecks Strongly Influence the Evolutionary Trajectory to Fluoroquinolone Resistance in Escherichia coli. <i>Molecular Biology and Evolution</i> , <b>2020</b> , 37, 1637-1646	8.3	18

70	Intra- and extracellular activities of dicloxacillin and linezolid against a clinical <i>Staphylococcus aureus</i> strain with a small-colony-variant phenotype in an in vitro model of THP-1 macrophages and an in vivo mouse peritonitis model. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2011</b> , 55, 1443-52	5.9	18
69	Mutants of the RNA-processing enzyme RNase E reverse the extreme slow-growth phenotype caused by a mutant translation factor EF-Tu. <i>Molecular Microbiology</i> , <b>2008</b> , 70, 1194-209	4.1	17
68	Genetic characterization of frameshift suppressors with new decoding properties. <i>Journal of Bacteriology</i> , <b>1989</b> , 171, 1028-34	3.5	17
67	Missense substitutions lethal to essential functions of EF-Tu. <i>Biochimie</i> , <b>1991</b> , 73, 1457-64	4.6	17
66	Increased expression of Qnr is sufficient to confer clinical resistance to ciprofloxacin in <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2018</b> , 73, 348-352	5.1	16
65	Turnover of mRNAs is one of the essential functions of RNase E. <i>Molecular Microbiology</i> , <b>2015</b> , 98, 34-45	4.1	16
64	Fusidic acid-resistant mutants of <i>Salmonella enterica</i> serovar typhimurium have low levels of heme and a reduced rate of respiration and are sensitive to oxidative stress. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2004</b> , 48, 3877-83	5.9	16
63	The isolation and mapping of EF-Tu mutations in <i>Salmonella typhimurium</i> . <i>Molecular Genetics and Genomics</i> , <b>1986</b> , 202, 108-11		16
62	Impact of Homologous Recombination on Genome Organization and Stability	109-128	16
61	Evaluating the potential efficacy and limitations of a phage for joint antibiotic and phage therapy of infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	16
60	Cell-wall-inhibiting antibiotic combinations with activity against multidrug-resistant <i>Klebsiella pneumoniae</i> and <i>Escherichia coli</i> . <i>Clinical Microbiology and Infection</i> , <b>2014</b> , 20, O267-73	9.5	15
59	Rifampicin Resistance: Fitness Costs and the Significance of Compensatory Evolution. <i>Antibiotics</i> , <b>2013</b> , 2, 206-16	4.9	15
58	Can a pharmacokinetic/pharmacodynamic (PKPD) model be predictive across bacterial densities and strains? External evaluation of a PKPD model describing longitudinal in vitro data. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2017</b> , 72, 3108-3116	5.1	14
57	Effect of translesion DNA polymerases, endonucleases and RpoS on mutation rates in <i>Salmonella typhimurium</i> . <i>Genetics</i> , <b>2010</b> , 185, 783-95	4	14
56	Comparison of the complete sequence of the str operon in <i>Salmonella typhimurium</i> and <i>Escherichia coli</i> . <i>Gene</i> , <b>1992</b> , 120, 93-8	3.8	13
55	Autoregulation of the <i>tufB</i> operon in <i>Salmonella</i> . <i>Molecular Microbiology</i> , <b>2016</b> , 100, 1004-16	4.1	13
54	The processive kinetics of gene conversion in bacteria. <i>Molecular Microbiology</i> , <b>2017</b> , 104, 752-760	4.1	12
53	Evidence against reciprocal recombination as the basis for <i>tuf</i> gene conversion in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Molecular Biology</i> , <b>2004</b> , 338, 463-7	6.5	12

52	Mutants of EF-Tu defective in binding aminoacyl-tRNA. <i>FEBS Letters</i> , <b>1996</b> , 382, 297-303	3.8	12
51	Imidazopyrazinones (IPYs): Non-Quinolone Bacterial Topoisomerase Inhibitors Showing Partial Cross-Resistance with Quinolones. <i>Journal of Medicinal Chemistry</i> , <b>2018</b> , 61, 3565-3581	8.3	11
50	The Origin of Mutants under Selection: Interactions of Mutation, Growth, and Selection. <i>EcoSal Plus</i> , <b>2011</b> , 4,	7.7	11
49	Effect of aminoacyl-tRNA synthetase mutations on susceptibility to ciprofloxacin in Escherichia coli. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2018</b> , 73, 3285-3292	5.1	11
48	Early-Life Human Microbiota Associated With Childhood Allergy Promotes the T Helper 17 Axis in Mice. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1699	8.4	10
47	Acetate availability and utilization supports the growth of mutant sub-populations on aging bacterial colonies. <i>PLoS ONE</i> , <b>2014</b> , 9, e109255	3.7	10
46	Assays of sensitivity of antibiotic-resistant bacteria to hydrogen peroxide and measurement of catalase activity. <i>Methods in Molecular Biology</i> , <b>2010</b> , 642, 95-103	1.4	10
45	Overproduction of release factor reduces spontaneous frameshifting and frameshift suppression by mutant elongation factor Tu. <i>Journal of Bacteriology</i> , <b>1990</b> , 172, 6721-6	3.5	10
44	Discovery and structure-activity relationships of a novel isothiazolone class of bacterial type II topoisomerase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2016</b> , 26, 4179-83	2.9	9
43	Mechanisms of fitness cost reduction for rifampicin-resistant strains with deletion or duplication mutations in rpoB. <i>Scientific Reports</i> , <b>2018</b> , 8, 17488	4.9	9
42	Design, synthesis and in vitro biological evaluation of oligopeptides targeting E. coli type I signal peptidase (LepB). <i>Bioorganic and Medicinal Chemistry</i> , <b>2017</b> , 25, 897-911	3.4	8
41	Co-evolution with recombination affects the stability of mobile genetic element insertions within gene families of Salmonella. <i>Molecular Microbiology</i> , <b>2018</b> , 108, 697-710	4.1	8
40	Reducing ppGpp level rescues an extreme growth defect caused by mutant EF-Tu. <i>PLoS ONE</i> , <b>2014</b> , 9, e90486	3.7	8
39	Boronic ester-linked macrocyclic lipopeptides as serine protease inhibitors targeting Escherichia coli type I signal peptidase. <i>European Journal of Medicinal Chemistry</i> , <b>2018</b> , 157, 1346-1360	6.8	8
38	Operon Concatenation Is an Ancient Feature That Restricts the Potential to Rearrange Bacterial Chromosomes. <i>Molecular Biology and Evolution</i> , <b>2019</b> , 36, 1990-2000	8.3	7
37	Ternary complex-ribosome interaction: its influence on protein synthesis and on growth rate. <i>Biochemical Society Transactions</i> , <b>1993</b> , 21, 851-7	5.1	7
36	Using the power of genetic suppressors to probe the essential functions of RNase E. <i>Current Genetics</i> , <b>2016</b> , 62, 53-7	2.9	6
35	Antibiotic resistance by high-level intrinsic suppression of a frameshift mutation in an essential gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 3185-3191	11.5	6

34	Temperature-sensitive mutants of RNase E in <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 6639-50	3.5	6
33	tRNA-ribosome interactions. <i>Biochemistry and Cell Biology</i> , <b>1995</b> , 73, 1049-54	3.6	6
32	Efficacy of EBL-1003 (apramycin) against <i>Acinetobacter baumannii</i> lung infections in mice. <i>Clinical Microbiology and Infection</i> , <b>2021</b> , 27, 1315-1321	9.5	6
31	Model-Informed Drug Development for Antimicrobials: Translational PK and PK/PD Modeling to Predict an Efficacious Human Dose for Apramycin. <i>Clinical Pharmacology and Therapeutics</i> , <b>2021</b> , 109, 1063-1073	6.1	6
30	Resistance/fitness trade-off is a barrier to the evolution of MarR inactivation mutants in <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 77-83	5.1	5
29	Transcriptional Regulation Buffers Gene Dosage Effects on a Highly Expressed Operon in. <i>MBio</i> , <b>2018</b> , 9,	7.8	5
28	Mutant prevention concentrations of pradofloxacin for susceptible and mutant strains of <i>Escherichia coli</i> with reduced fluoroquinolone susceptibility. <i>International Journal of Antimicrobial Agents</i> , <b>2014</b> , 44, 354-7	14.3	4
27	Having your cake and eating it - small colony variants can evolve faster growth rate without losing their antibiotic resistance. <i>Microbial Cell</i> , <b>2017</b> , 4, 275-277	3.9	4
26	The SNAP hypothesis: Chromosomal rearrangements could emerge from positive Selection during Niche Adaptation. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1008615	6	3
25	Joint antibiotic and phage therapy: addressing the limitations of a seemingly ideal phage for treating <i>Staphylococcus aureus</i> infections		3
24	Isopedopeptins A-H: Cationic Cyclic Lipodepsipeptides from UP508 Targeting WHO Top-Priority Carbapenem-Resistant Bacteria. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 2937-2944	4.9	3
23	Antibacterial sulfonimidamide-based oligopeptides as type I signal peptidase inhibitors: Synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 224, 113699	6.8	3
22	Genetics: Location affects sporulation. <i>Nature</i> , <b>2015</b> , 525, 42-3	50.4	2
21	Structure-activity relationship studies on the inhibition of the bacterial translation of novel Odilorhabdins analogues. <i>Bioorganic and Medicinal Chemistry</i> , <b>2020</b> , 28, 115469	3.4	2
20	The nucleotide sequence of rpsL and its flanking regions in <i>Salmonella typhimurium</i> . <i>Gene</i> , <b>1991</b> , 104, 123-4	3.8	2
19	Mutant RNA polymerase can reduce susceptibility to antibiotics via ppGpp-independent induction of a stringent-like response. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 606-615	5.1	2
18	Predicting mutant selection in competition experiments with ciprofloxacin-exposed <i>Escherichia coli</i> . <i>International Journal of Antimicrobial Agents</i> , <b>2018</b> , 51, 399-406	14.3	2
17	Muramyl Endopeptidase Spr Contributes to Intrinsic Vancomycin Resistance in Serovar Typhimurium. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2941	5.7	2



16	Effects of Antibiotic Resistance on Bacterial Fitness, Virulence, and Transmission <b>2014</b> , 307-318		1
15	Towards the cloning of the calf prochymosin gene. <i>Biochemical Society Transactions</i> , <b>1984</b> , 12, 487-488	5.1	1
14	The States, Conformational Dynamics, and Fusidic Acid-Resistant Mutants of Elongation Factor G359-365		1
13	Antibacterial activity of apramycin at acidic pH warrants wide therapeutic window in the treatment of complicated urinary tract infections and acute pyelonephritis. <i>EBioMedicine</i> , <b>2021</b> , 73, 103652	8.8	1
12	Measuring Homologous Recombination Rates between Chromosomal Locations in. <i>Bio-protocol</i> , <b>2019</b> , 9, e3159	0.9	1
11	Muramyl endopeptidase Spr contributes to intrinsic vancomycin resistance in <i>Salmonella enterica</i> serovar Typhimurium		1
10	Selection and Transmission of Antibiotic-Resistant Bacteria <b>2019</b> , 117-137		1
9	Genetic Architecture and Fitness of Bacterial Interspecies Hybrids. <i>Molecular Biology and Evolution</i> , <b>2021</b> , 38, 1472-1481	8.3	1
8	Expression of the qepA1 gene is induced under antibiotic exposure. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 1433-1440	5.1	1
7	Novel Mutants of EF-Tu <b>1989</b> , 51-56		1
6	Chromosomal Location Determines the Rate of Intrachromosomal Homologous Recombination in <i>Salmonella</i> . <i>MBio</i> , <b>2021</b> , 12, e0115121	7.8	0
5	Phenotypic and genetic barriers to establishment of horizontally transferred genes encoding ribosomal protection proteins. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 1441-1447	5.1	0
4	Methods to Determine Mutational Trajectories After Experimental Evolution of Antibiotic Resistance. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1736, 95-103	1.4	
3	Measurements of heme levels and respiration rate in <i>Salmonella enterica</i> serovar typhimurium. <i>Methods in Molecular Biology</i> , <b>2010</b> , 642, 105-12	1.4	
2	Biological consequences for bacteria of homologous recombination <b>2005</b> , 351-384		
1	Adventures with Mutation and Selection in Beehive and Cow Country 245-253		