

Laura J V Piddock

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183
papers

17,523
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67
h-index

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191
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21,225
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
183	Molecular mechanisms of antibiotic resistance. <i>Nature Reviews Microbiology</i> , 2015 , 13, 42-51	22.2	1907
182	The comprehensive antibiotic resistance database. <i>Antimicrobial Agents and Chemotherapy</i> , 2013 , 57, 3348-57	5.9	1045
181	Multidrug-resistance efflux pumps - not just for resistance. <i>Nature Reviews Microbiology</i> , 2006 , 4, 629-36	22.2	1006
180	Understanding the mechanisms and drivers of antimicrobial resistance. <i>Lancet, The</i> , 2016 , 387, 176-87	40	981
179	Clinically relevant chromosomally encoded multidrug resistance efflux pumps in bacteria. <i>Clinical Microbiology Reviews</i> , 2006 , 19, 382-402	34	778
178	Fluoroquinolone resistance: mechanisms, impact on bacteria, and role in evolutionary success. <i>Trends in Microbiology</i> , 2014 , 22, 438-45	12.4	509
177	The importance of efflux pumps in bacterial antibiotic resistance. <i>Journal of Antimicrobial Chemotherapy</i> , 2003 , 51, 9-11	5.1	449
176	Bacterial efflux pump inhibitors from natural sources. <i>Journal of Antimicrobial Chemotherapy</i> , 2007 , 59, 1247-60	5.1	365
175	Multidrug efflux pumps: structure, function and regulation. <i>Nature Reviews Microbiology</i> , 2018 , 16, 523-32	33.2	311
174	The crisis of no new antibiotics--what is the way forward?. <i>Lancet Infectious Diseases, The</i> , 2012 , 12, 249-53	5.5	282
173	Quinolone-resistant <i>Salmonella typhi</i> in Viet Nam: molecular basis of resistance and clinical response to treatment. <i>Clinical Infectious Diseases</i> , 1997 , 25, 1404-10	11.6	258
172	Antibiotic resistance genes, integrons and multiple antibiotic resistance in thirty-five serotypes of <i>Salmonella enterica</i> isolated from humans and animals in the UK. <i>Journal of Antimicrobial Chemotherapy</i> , 2004 , 53, 208-16	5.1	208
171	Mechanisms of fluoroquinolone resistance: an update 1994-1998. <i>Drugs</i> , 1999 , 58 Suppl 2, 11-8	12.1	202
170	Multidrug efflux pumps in Gram-negative bacteria and their role in antibiotic resistance. <i>Future Microbiology</i> , 2014 , 9, 1165-77	2.9	191
169	Discovery research: the scientific challenge of finding new antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , 2011 , 66, 1941-4	5.1	191
168	Prevalence of mutations within the quinolone resistance-determining region of <i>gyrA</i> , <i>gyrB</i> , <i>parC</i> , and <i>parE</i> and association with antibiotic resistance in quinolone-resistant <i>Salmonella enterica</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2004 , 48, 4012-5	5.9	179
167	Structure, function and inhibition of RND efflux pumps in Gram-negative bacteria: an update. <i>Current Opinion in Microbiology</i> , 2009 , 12, 512-9	7.9	162

166	The AcrAB-TolC efflux system of <i>Salmonella enterica</i> serovar Typhimurium plays a role in pathogenesis. <i>Cellular Microbiology</i> , 2006 , 8, 847-56	3.9	161
165	Identification and molecular characterisation of CmeB, a <i>Campylobacter jejuni</i> multidrug efflux pump. <i>FEMS Microbiology Letters</i> , 2002 , 206, 185-9	2.9	157
164	A comparison of methods used for measuring the accumulation of quinolones by Enterobacteriaceae, <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 1991 , 28, 639-53	5.1	155
163	Expression of <i>acrB</i> , <i>acrF</i> , <i>acrD</i> , <i>marA</i> , and <i>soxS</i> in <i>Salmonella enterica</i> serovar Typhimurium: role in multiple antibiotic resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2004 , 48, 1145-50	5.9	133
162	Fluoroquinolone resistance in <i>Salmonella</i> serovars isolated from humans and food animals. <i>FEMS Microbiology Reviews</i> , 2002 , 26, 3-16	15.1	126
161	<i>AcrB</i> drug-binding pocket substitution confers clinically relevant resistance and altered substrate specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3511-6	11.5	125
160	Loss of or inhibition of all multidrug resistance efflux pumps of <i>Salmonella enterica</i> serovar Typhimurium results in impaired ability to form a biofilm. <i>Journal of Antimicrobial Chemotherapy</i> , 2012 , 67, 2409-17	5.1	122
159	Prolonged treatment of <i>Salmonella enterica</i> serovar Typhimurium with commercial disinfectants selects for multiple antibiotic resistance, increased efflux and reduced invasiveness. <i>Journal of Antimicrobial Chemotherapy</i> , 2007 , 60, 947-55	5.1	117
158	A 96-well plate fluorescence assay for assessment of cellular permeability and active efflux in <i>Salmonella enterica</i> serovar Typhimurium and <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2010 , 65, 1655-63	5.1	108
157	Ciprofloxacin resistant <i>Campylobacter</i> spp. in humans: an epidemiological and laboratory study. <i>Journal of Antimicrobial Chemotherapy</i> , 1996 , 37, 747-57	5.1	108
156	Fluoroquinolone resistance in <i>Campylobacter</i> species from man and animals: detection of mutations in topoisomerase genes. <i>Journal of Antimicrobial Chemotherapy</i> , 2003 , 51, 19-26	5.1	107
155	Evidence for an efflux pump mediating multiple antibiotic resistance in <i>Salmonella enterica</i> serovar Typhimurium. <i>Antimicrobial Agents and Chemotherapy</i> , 2000 , 44, 3118-21	5.9	107
154	Discovery and development of new antibacterial drugs: learning from experience?. <i>Journal of Antimicrobial Chemotherapy</i> , 2018 , 73, 1452-1459	5.1	106
153	Ciprofloxacin-resistant <i>Salmonella enterica</i> serovar Typhimurium strains are difficult to select in the absence of <i>AcrB</i> and <i>TolC</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 38-42	5.9	102
152	Inhibition of multidrug efflux as a strategy to prevent biofilm formation. <i>Journal of Antimicrobial Chemotherapy</i> , 2014 , 69, 673-81	5.1	101
151	Does the use of antimicrobial agents in veterinary medicine and animal husbandry select antibiotic-resistant bacteria that infect man and compromise antimicrobial chemotherapy?. <i>Journal of Antimicrobial Chemotherapy</i> , 1996 , 38, 1-3	5.1	100
150	Absence of mutations in <i>marRAB</i> or <i>soxRS</i> in <i>acrB</i> -overexpressing fluoroquinolone-resistant clinical and veterinary isolates of <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2001 , 45, 1550-2	5.9	96
149	<i>RamA</i> confers multidrug resistance in <i>Salmonella enterica</i> via increased expression of <i>acrB</i> , which is inhibited by chlorpromazine. <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 3604-11	5.9	94

148	Quinolone resistance and Campylobacter spp. <i>Journal of Antimicrobial Chemotherapy</i> , 1995 , 36, 891-8	5.1	92
147	Expression of efflux pump gene pmrA in fluoroquinolone-resistant and -susceptible clinical isolates of <i>Streptococcus pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2002 , 46, 808-12	5.9	90
146	RamA, a member of the AraC/XylS family, influences both virulence and efflux in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Bacteriology</i> , 2010 , 192, 1607-16	3.5	89
145	Techniques used for the determination of antimicrobial resistance and sensitivity in bacteria. Antimicrobial Agents Research Group. <i>Journal of Applied Bacteriology</i> , 1990 , 68, 307-18		88
144	Metabolic constraints on the evolution of antibiotic resistance. <i>Molecular Systems Biology</i> , 2017 , 13, 917	12.2	87
143	The <i>Acinetobacter baumannii</i> Two-Component System AdeRS Regulates Genes Required for Multidrug Efflux, Biofilm Formation, and Virulence in a Strain-Specific Manner. <i>MBio</i> , 2016 , 7, e00430-16	7.8	87
142	Parallel evolutionary pathways to antibiotic resistance selected by biocide exposure. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 2241-8	5.1	85
141	Activities of new fluoroquinolones against fluoroquinolone-resistant pathogens of the lower respiratory tract. <i>Antimicrobial Agents and Chemotherapy</i> , 1998 , 42, 2956-60	5.9	85
140	Triclosan resistance in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Antimicrobial Chemotherapy</i> , 2008 , 62, 83-91	5.1	84
139	The global consequence of disruption of the AcrAB-TolC efflux pump in <i>Salmonella enterica</i> includes reduced expression of SPI-1 and other attributes required to infect the host. <i>Journal of Bacteriology</i> , 2009 , 191, 4276-85	3.5	83
138	Prevalence and subtypes of ciprofloxacin-resistant <i>Campylobacter</i> spp. in commercial poultry flocks before, during, and after treatment with fluoroquinolones. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 690-8	5.9	83
137	Multiple regulatory pathways associated with high-level ciprofloxacin and multidrug resistance in <i>Salmonella enterica</i> serovar enteritidis: involvement of RamA and other global regulators. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 1080-7	5.9	82
136	How to Measure Export via Bacterial Multidrug Resistance Efflux Pumps. <i>MBio</i> , 2016 , 7,	7.8	82
135	The urgent need for new antibacterial agents. <i>Journal of Antimicrobial Chemotherapy</i> , 2011 , 66, 1939-40	5.1	81
134	Phenotypic and proteomic characterization of multiply antibiotic-resistant variants of <i>Salmonella enterica</i> serovar Typhimurium selected following exposure to disinfectants. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 1508-16	4.8	81
133	The efflux pump inhibitor reserpine selects multidrug-resistant <i>Streptococcus pneumoniae</i> strains that overexpress the ABC transporters PatA and PatB. <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 1677-85	5.9	79
132	Accumulation of rifampicin by <i>Mycobacterium aurum</i> , <i>Mycobacterium smegmatis</i> and <i>Mycobacterium tuberculosis</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2000 , 45, 159-65	5.1	78
131	Induction of the SOS response in <i>Escherichia coli</i> by 4-quinolone antimicrobial agents. <i>FEMS Microbiology Letters</i> , 1987 , 41, 289-294	2.9	78

130	Quinolone resistance in Escherichia coli. <i>Veterinary Research</i> , 2001 , 32, 275-84	3.8	78
129	Teixobactin, the first of a new class of antibiotics discovered by iChip technology?. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 2679-80	5.1	77
128	Incidence and mechanism of ciprofloxacin resistance in Campylobacter spp. isolated from commercial poultry flocks in the United Kingdom before, during, and after fluoroquinolone treatment. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 699-707	5.9	77
127	Towards the sustainable discovery and development of new antibiotics. <i>Nature Reviews Chemistry</i> , 2021 , 1-24	34.6	77
126	Detection of gyrA mutations in quinolone-resistant Salmonella enterica by denaturing high-performance liquid chromatography. <i>Journal of Clinical Microbiology</i> , 2002 , 40, 4121-5	9.7	76
125	In-vitro activity of quinolones and macrolides against mycobacteria. <i>Journal of Antimicrobial Chemotherapy</i> , 1994 , 34, 343-51	5.1	76
124	Strategies to combat antimicrobial resistance: anti-plasmid and plasmid curing. <i>FEMS Microbiology Reviews</i> , 2018 , 42, 781-804	15.1	73
123	Non-traditional Antibacterial Therapeutic Options and Challenges. <i>Cell Host and Microbe</i> , 2019 , 26, 61-72	3.4	72
122	Medicinal plant extracts with efflux inhibitory activity against Gram-negative bacteria. <i>International Journal of Antimicrobial Agents</i> , 2011 , 37, 145-51	14.3	72
121	Complete sequence and molecular epidemiology of IncK epidemic plasmid encoding blaCTX-M-14. <i>Emerging Infectious Diseases</i> , 2011 , 17, 645-52	10.2	70
120	Natural and synthetic compounds such as trimethoprim behave as inhibitors of efflux in Gram-negative bacteria. <i>Journal of Antimicrobial Chemotherapy</i> , 2010 , 65, 1215-23	5.1	69
119	Expression of the efflux pump genes cmeB, cmeF and the porin gene porA in multiple-antibiotic-resistant Campylobacter jejuni. <i>Journal of Antimicrobial Chemotherapy</i> , 2004 , 54, 341-7	5.1	69
118	Mechanisms of resistance to quinolones and clinical perspectives. <i>Journal of Antimicrobial Chemotherapy</i> , 1989 , 23, 475-80	5.1	68
117	Interaction of divalent cations, quinolones and bacteria. <i>Journal of Antimicrobial Chemotherapy</i> , 1994 , 34, 465-83	5.1	63
116	Prevalence of multiple antibiotic resistance in 443 Campylobacter spp. isolated from humans and animals. <i>Journal of Antimicrobial Chemotherapy</i> , 2003 , 52, 507-10	5.1	62
115	A novel gyrB mutation in a fluoroquinolone-resistant clinical isolate of Salmonella typhimurium. <i>FEMS Microbiology Letters</i> , 1995 , 132, 57-60	2.9	61
114	Expression of homologous RND efflux pump genes is dependent upon AcrB expression: implications for efflux and virulence inhibitor design. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 424-31	5.1	60
113	Quinolone accumulation by Pseudomonas aeruginosa, Staphylococcus aureus and Escherichia coli. <i>Journal of Antimicrobial Chemotherapy</i> , 1999 , 43, 61-70	5.1	60

112	Beta-lactamase-mediated beta-lactam resistance in <i>Campylobacter</i> species: prevalence of Cj0299 (bla OXA-61) and evidence for a novel beta-Lactamase in <i>C. jejuni</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 3357-64	5.9	59
111	Mechanisms of resistance in nontyphoidal <i>Salmonella enterica</i> strains exhibiting a nonclassical quinolone resistance phenotype. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 3832-6	5.9	59
110	Commonly used farm disinfectants can select for mutant <i>Salmonella enterica</i> serovar Typhimurium with decreased susceptibility to biocides and antibiotics without compromising virulence. <i>Journal of Antimicrobial Chemotherapy</i> , 2007 , 60, 1273-80	5.1	59
109	Effect of triclosan or a phenolic farm disinfectant on the selection of antibiotic-resistant <i>Salmonella enterica</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2004 , 54, 621-7	5.1	59
108	Antibiotic resistance: a geopolitical issue. <i>Clinical Microbiology and Infection</i> , 2014 , 20, 949-53	9.5	58
107	Lack of AcrB Efflux Function Confers Loss of Virulence on Serovar Typhimurium. <i>MBio</i> , 2017 , 8,	7.8	58
106	Involvement of the putative ATP-dependent efflux proteins PatA and PatB in fluoroquinolone resistance of a multidrug-resistant mutant of <i>Streptococcus pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 685-93	5.9	58
105	Antibacterial terpenes from the oleo-resin of <i>Commiphora molmol</i> (Engl.). <i>Phytotherapy Research</i> , 2008 , 22, 1356-60	6.7	57
104	Multiple transmissible genes encoding fluoroquinolone and third-generation cephalosporin resistance co-located in non-typhoidal <i>Salmonella</i> isolated from food-producing animals in China. <i>International Journal of Antimicrobial Agents</i> , 2014 , 43, 242-7	14.3	56
103	Exposure of <i>Escherichia coli</i> and <i>Salmonella enterica</i> serovar Typhimurium to triclosan induces a species-specific response, including drug detoxification. <i>Journal of Antimicrobial Chemotherapy</i> , 2009 , 64, 973-85	5.1	56
102	Quinolone resistance in veterinary isolates of <i>Salmonella</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 1994 , 33, 1173-89	5.1	54
101	The multiple antibiotic resistance operon of enteric bacteria controls DNA repair and outer membrane integrity. <i>Nature Communications</i> , 2017 , 8, 1444	17.4	53
100	Regulation of the AcrAB-TolC efflux pump in Enterobacteriaceae. <i>Research in Microbiology</i> , 2018 , 169, 425-431	4	53
99	Antibiotic research and development: business as usual?. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 1604-7	5.1	51
98	Effective antibacterials: at what cost? The economics of antibacterial resistance and its control. <i>Journal of Antimicrobial Chemotherapy</i> , 2011 , 66, 1948-53	5.1	49
97	Overexpression of patA and patB, which encode ABC transporters, is associated with fluoroquinolone resistance in clinical isolates of <i>Streptococcus pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 190-6	5.9	49
96	Resistance and tolerance to tropodithietic acid, an antimicrobial in aquaculture, is hard to select. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 1332-7	5.9	48
95	Contribution of mutation at amino acid 45 of AcrR to acrB expression and ciprofloxacin resistance in clinical and veterinary <i>Escherichia coli</i> isolates. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 4390-2	5.9	48

94	A method for generating marker-less gene deletions in multidrug-resistant <i>Acinetobacter baumannii</i> . <i>BMC Microbiology</i> , 2013 , 13, 158	4.5	47
93	Clinically relevant mutant DNA gyrase alters supercoiling, changes the transcriptome, and confers multidrug resistance. <i>MBio</i> , 2013 , 4,	7.8	47
92	Two efflux systems expressed simultaneously in multidrug-resistant <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2000 , 44, 2861-4	5.9	47
91	Reflecting on the final report of the O'Neill Review on Antimicrobial Resistance. <i>Lancet Infectious Diseases</i> , <i>The</i> , 2016 , 16, 767-768	25.5	47
90	Characterization of fluoroquinolone resistance among veterinary isolates of avian <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2000 , 44, 2897-9	5.9	46
89	Persistence of transferable extended-spectrum- β -lactamase resistance in the absence of antibiotic pressure. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 4703-6	5.9	45
88	Global transcriptome analysis of the responses of a fluoroquinolone-resistant <i>Streptococcus pneumoniae</i> mutant and its parent to ciprofloxacin. <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 269-78	5.9	45
87	Accumulation of 10 fluoroquinolones by wild-type or efflux mutant <i>Streptococcus pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2002 , 46, 813-20	5.9	42
86	Evidence for multiple-antibiotic resistance in <i>Campylobacter jejuni</i> not mediated by CmeB or CmeF. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 1289-93	5.9	40
85	Emergence of fluoroquinolone resistance in the native <i>Campylobacter coli</i> population of pigs exposed to enrofloxacin. <i>Journal of Antimicrobial Chemotherapy</i> , 2004 , 53, 872-4	5.1	39
84	RamA, which controls expression of the MDR efflux pump AcrAB-TolC, is regulated by the Lon protease. <i>Journal of Antimicrobial Chemotherapy</i> , 2014 , 69, 643-50	5.1	38
83	Fluoroquinolones induce the expression of <i>patA</i> and <i>patB</i> , which encode ABC efflux pumps in <i>Streptococcus pneumoniae</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2010 , 65, 2076-82	5.1	38
82	Understanding drug resistance will improve the treatment of bacterial infections. <i>Nature Reviews Microbiology</i> , 2017 , 15, 639-640	22.2	37
81	Exploiting the role of TolC in pathogenicity: identification of a bacteriophage for eradication of <i>Salmonella</i> serovars from poultry. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1704-6	4.8	36
80	Ciprofloxacin selects for multidrug resistance in <i>Salmonella enterica</i> serovar Typhimurium mediated by at least two different pathways. <i>Journal of Antimicrobial Chemotherapy</i> , 2009 , 63, 909-16	5.1	36
79	Effect of fluoroquinolone exposure on the proteome of <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Antimicrobial Chemotherapy</i> , 2006 , 58, 1145-53	5.1	36
78	Clinically Relevant Plasmid-Host Interactions Indicate that Transcriptional and Not Genomic Modifications Ameliorate Fitness Costs of Carbapenemase-Carrying Plasmids. <i>MBio</i> , 2018 , 9,	7.8	35
77	Genetic inactivation of <i>acrAB</i> or inhibition of efflux induces expression of <i>ramA</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2013 , 68, 1551-7	5.1	35

76	Selection of quinolone resistance in <i>Streptococcus pneumoniae</i> exposed in vitro to subinhibitory drug concentrations. <i>Journal of Antimicrobial Chemotherapy</i> , 2007 , 60, 965-72	5.1	35
75	Proteomic analysis of triclosan resistance in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Antimicrobial Chemotherapy</i> , 2008 , 62, 92-7	5.1	34
74	Understanding the basis of antibiotic resistance: a platform for drug discovery. <i>Microbiology (United Kingdom)</i> , 2014 , 160, 2366-2373	2.9	33
73	Efflux in <i>Acinetobacter baumannii</i> can be determined by measuring accumulation of H33342 (bis-benzamide). <i>Journal of Antimicrobial Chemotherapy</i> , 2013 , 68, 1594-600	5.1	33
72	Role of topoisomerase mutations and efflux in fluoroquinolone resistance of <i>Bacteroides fragilis</i> clinical isolates and laboratory mutants. <i>Antimicrobial Agents and Chemotherapy</i> , 2004 , 48, 1344-6	5.9	33
71	Wastewater for Urban Agriculture: A Significant Factor in Dissemination of Antibiotic Resistance. <i>Environmental Science & Technology</i> , 2017 , 51, 5863-5864	10.3	32
70	Periplasmic adaptor protein AcrA has a distinct role in the antibiotic resistance and virulence of <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Antimicrobial Chemotherapy</i> , 2009 , 64, 965-72	5.1	32
69	Detection and characterization of pCT-like plasmid vectors for blaCTX-M-14 in <i>Escherichia coli</i> isolates from humans, turkeys and cattle in England and Wales. <i>Journal of Antimicrobial Chemotherapy</i> , 2012 , 67, 1639-44	5.1	31
68	UK and European Union public and charitable funding from 2008 to 2013 for bacteriology and antibiotic research in the UK: an observational study. <i>Lancet Infectious Diseases, The</i> , 2014 , 14, 857-68	25.5	30
67	Persistence of <i>Campylobacter</i> species, strain types, antibiotic resistance and mechanisms of tetracycline resistance in poultry flocks treated with chlortetracycline. <i>Journal of Antimicrobial Chemotherapy</i> , 2008 , 62, 303-15	5.1	29
66	Inactivation or inhibition of AcrAB-TolC increases resistance of carbapenemase-producing Enterobacteriaceae to carbapenems. <i>Journal of Antimicrobial Chemotherapy</i> , 2016 , 71, 1510-9	5.1	27
65	Choice of bacterial growth medium alters the transcriptome and phenotype of <i>Salmonella enterica</i> Serovar Typhimurium. <i>PLoS ONE</i> , 2013 , 8, e63912	3.7	27
64	Beyond Antimicrobial Resistance: Evidence for a Distinct Role of the AcrD Efflux Pump in <i>Salmonella</i> Biology. <i>MBio</i> , 2016 , 7,	7.8	25
63	The effect of mutations in the SOS response on the kinetics of quinolone killing. <i>Journal of Antimicrobial Chemotherapy</i> , 1989 , 24, 863-73	5.1	25
62	Raw wastewater irrigation for urban agriculture in three African cities increases the abundance of transferable antibiotic resistance genes in soil, including those encoding extended spectrum β -lactamases (ESBLs). <i>Science of the Total Environment</i> , 2020 , 698, 134201	10.2	25
61	Assess drug-resistance phenotypes, not just genotypes. <i>Nature Microbiology</i> , 2016 , 1, 16120	26.6	23
60	Revitalizing the drug pipeline: AntibioticDB, an open access database to aid antibacterial research and development. <i>Journal of Antimicrobial Chemotherapy</i> , 2018 , 73, 2284-2297	5.1	22
59	Functional genomics to identify the factors contributing to successful persistence and global spread of an antibiotic resistance plasmid. <i>BMC Microbiology</i> , 2014 , 14, 168	4.5	22

58	To the G20: incentivising antibacterial research and development. <i>Lancet Infectious Diseases</i> , 2017 , 17, 799-801	25.5	22
57	Reduced fluoroquinolone susceptibility in <i>Salmonella enterica</i> isolates from travelers, Finland. <i>Emerging Infectious Diseases</i> , 2009 , 15, 809-12	10.2	21
56	Only for substrate antibiotics are a functional AcrAB-TolC efflux pump and RamA required to select multidrug-resistant <i>Salmonella</i> Typhimurium. <i>Journal of Antimicrobial Chemotherapy</i> , 2009 , 64, 654-7	5.1	21
55	Medium plays a role in determining expression of <i>acrB</i> , <i>marA</i> , and <i>soxS</i> in <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 1071-4	5.9	21
54	Quinolone-resistant gyrase mutants demonstrate decreased susceptibility to triclosan. <i>Journal of Antimicrobial Chemotherapy</i> , 2017 , 72, 2755-2763	5.1	20
53	Clinically relevant fluoroquinolone resistance due to constitutive overexpression of the PatAB ABC transporter in <i>Streptococcus pneumoniae</i> is conferred by disruption of a transcriptional attenuator. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 670-9	5.1	20
52	Regulation of RamA by RamR in <i>Salmonella enterica</i> serovar Typhimurium: isolation of a RamR superrepressor. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 6037-40	5.9	18
51	Regulatory opportunities to encourage technology solutions to antibacterial drug resistance. <i>Journal of Antimicrobial Chemotherapy</i> , 2011 , 66, 1945-7	5.1	18
50	Dissemination of pCT-like IncK plasmids harboring CTX-M-14 extended-spectrum β -lactamase among clinical <i>Escherichia coli</i> isolates in the United Kingdom. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 3376-7	5.9	18
49	A novel gene amplification causes upregulation of the PatAB ABC transporter and fluoroquinolone resistance in <i>Streptococcus pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 3098-108	5.9	17
48	Perturbed structural dynamics underlie inhibition and altered efflux of the multidrug resistance pump AcrB. <i>Nature Communications</i> , 2020 , 11, 5565	17.4	17
47	Chlorpromazine and Amitriptyline Are Substrates and Inhibitors of the AcrB Multidrug Efflux Pump. <i>MBio</i> , 2020 , 11,	7.8	17
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4	Perturbed structural dynamics underlie inhibition and altered specificity of the multidrug efflux pump AcrB			1
3	Opening Pandora's box: high level resistance to antibiotics of last resort in Gram negative bacteria from Nigeria			1
2	BSAC Vanguard Report Series: The future of drug development.. <i>Journal of Antimicrobial Chemotherapy</i> , 2022 , 77, 543-544	5.1	0	
1	Contribution of efflux to antibiotic resistance in <i>Campylobacter</i> isolated from poultry in Senegal. <i>Journal of Antimicrobial Chemotherapy</i> , 2009 , 64, 650-2	5.1		