Timothy R. Walsh

List of Publications by Year
in descending order

232	30,150	10986	5120
papers	citations	71 h-index	166 g-index

239	239	239	20572
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Emergence of plasmid-mediated colistin resistance mechanism MCR-1 in animals and human beings in China: a microbiological and molecular biological study. Lancet Infectious Diseases, The, 2016, 16, 161-168.	9.1	4,130
2	Emergence of a new antibiotic resistance mechanism in India, Pakistan, and the UK: a molecular, biological, and epidemiological study. Lancet Infectious Diseases, The, 2010, 10, 597-602.	9.1	2,485
3	Characterization of a New Metallo-Î²-Lactamase Gene, bla _{NDM-1} , and a Novel Erythromycin Esterase Gene Carried on a Unique Genetic Structure in Klebsiella pneumoniae Sequence Type 14 from India. Antimicrobial Agents and Chemotherapy, 2009, 53, 5046-5054.	3.2	2,065
4	Multiplex PCR for detection of acquired carbapenemase genes. Diagnostic Microbiology and Infectious Disease, 2011, 70, 119-123.	1.8	1,453
5	Metallo-Î²-Lactamases: the Quiet before the Storm?. Clinical Microbiology Reviews, 2005, 18, 306-325.	13.6	1,283
6	Dissemination of NDM-1 positive bacteria in the New Delhi environment and its implications for human health: an environmental point prevalence study. Lancet Infectious Diseases, The, 2011, 11, 355-362.	9.1	1,045
7	Tackling antibiotic resistance. Nature Reviews Microbiology, 2011, 9, 894-896.	28.6	919
8	The emerging NDM carbapenemases. Trends in Microbiology, 2011, 19, 588-595.	7.7	553
9	IS CR Elements: Novel Gene-Capturing Systems of the 21st Century?. Microbiology and Molecular Biology Reviews, 2006, 70, 296-316.	6.6	529
10	Global dissemination of a multidrug resistant Escherichia coli clone. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5694-5699.	7.1	498
11	Aspergillomarasmine A overcomes metallo-Î²-lactamase antibiotic resistance. Nature, 2014, 510, 503-506.	27.8	461
12	Emergence of plasmid-mediated high-level tigecycline resistance genes in animals and humans. Nature Microbiology, 2019, 4, 1450-1456.	13.3	455
13	Anthropological and socioeconomic factors contributing to global antimicrobial resistance: a univariate and multivariable analysis. Lancet Planetary Health, The, 2018, 2, e398-e405.	11.4	430
14	Emerging carbapenemases: a global perspective. International Journal of Antimicrobial Agents, 2010, 36, S8-S14.	2.5	418
15	Novel Plasmid-Mediated Colistin Resistance Gene mcr-3 in Escherichia coli. MBio, 2017, 8, .	4.1	388
16	Comprehensive resistome analysis reveals the prevalence of NDM and MCR-1 in Chinese poultry production. Nature Microbiology, 2017, 2, 16260.	13.3	347
17	Prevalence, risk factors, outcomes, and molecular epidemiology of mcr-1 -positive Enterobacteriaceae in patients and healthy adults from China: an epidemiological and clinical study. Lancet Infectious Diseases, The, 2017, 17, 390-399.	9.1	298
18	How To Detect NDM-1 Producers. Journal of Clinical Microbiology, 2011, 49, 718-721.	3.9	295

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19	Evaluation of Current Methods for Detection of Staphylococci with Reduced Susceptibility to Glycopeptides. Journal of Clinical Microbiology, 2001, 39, 2439-2444.	3.9	290
20	Molecular Characterization of a Î²-Lactamase Gene, bla GIM-1 , Encoding a New Subclass of Metallo-Î²-Lactamase. Antimicrobial Agents and Chemotherapy, 2004, 48, 4654-4661.	3.2	236
21	Antimicrobial Susceptibility and Epidemiology of a Worldwide Collection of Chryseobacterium spp.: Report from the SENTRY Antimicrobial Surveillance Program (1997-2001). Journal of Clinical Microbiology, 2004, 42, 445-448.	3.9	230
22	China bans colistin as a feed additive for animals. Lancet Infectious Diseases, The, 2016, 16, 1102-1103.	9.1	228
23	Evaluation of a New Etest for Detecting Metallo-Î²-Lactamases in Routine Clinical Testing. Journal of Clinical Microbiology, 2002, 40, 2755-2759.	3.9	213
24	Changes in colistin resistance and mcr-1 abundance in Escherichia coli of animal and human origins following the ban of colistin-positive additives in China: an epidemiological comparative study. Lancet Infectious Diseases, The, 2020, 20, 1161-1171.	9.1	212
25	The Prevalence and Mechanisms of Vancomycin Resistance in Staphylococcus Aureus. Annual Review of Microbiology, 2002, 56, 657-675.	7.3	197
26	Overexpression, Purification, and Characterization of the Cloned Metallo-Î²-Lactamase L1 from Stenotrophomonas maltophilia. Antimicrobial Agents and Chemotherapy, 1998, 42, 921-926.	3.2	181
27	Systematic review of antibiotic resistance in acne: an increasing topical and oral threat. Lancet Infectious Diseases, The, 2016, 16, e23-e33.	9.1	180
28	Diverse Sequence Types of Klebsiella pneumoniae Contribute to the Dissemination of bla _{NDM-1} in India, Sweden, and the United Kingdom. Antimicrobial Agents and Chemotherapy, 2012, 56, 2735-2738.	3.2	165
29	Combinatorial events of insertion sequences and ICE in Gram-negative bacteria. FEMS Microbiology Reviews, 2011, 35, 912-935.	8.6	164
30	Epidemiology of mobile colistin resistance genes mcr-1 to mcr-9. Journal of Antimicrobial Chemotherapy, 2020, 75, 3087-3095.	3.0	163
31	Balancing mcr-1 expression and bacterial survival is a delicate equilibrium between essential cellular defence mechanisms. Nature Communications, 2017, 8, 2054.	12.8	157
32	Sequence analysis of the L1 metallo-Î²-lactamase from Xanthomonas maltophilia. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1994, 1218, 199-201.	2.4	156
33	Î²-Lactamase Production in Key Gram-Negative Pathogen Isolates from the Arabian Peninsula. Clinical Microbiology Reviews, 2013, 26, 361-380.	13.6	155
34	Spread of extensively resistant VIM-2-positive ST235 Pseudomonas aeruginosa in Belarus, Kazakhstan, and Russia: a longitudinal epidemiological and clinical study. Lancet Infectious Diseases, The, 2013, 13, 867-876.	9.1	153
35	Clinically significant carbapenemases: an update. Current Opinion in Infectious Diseases, 2008, 21, 367-371.	3.1	149
36	Characterization of antimicrobial-resistant Gram-negative bacteria that cause neonatal sepsis in seven low- and middle-income countries. Nature Microbiology, 2021, 6, 512-523.	13.3	146

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37	Overcoming Drug Resistance with Alginate Oligosaccharides Able To Potentiate the Action of Selected Antibiotics. Antimicrobial Agents and Chemotherapy, 2012, 56, 5134-5141.	3.2	140
38	Molecular Characterization of Carbapenemase-Producing Escherichia coli and Klebsiella pneumoniae in the Countries of the Gulf Cooperation Council: Dominance of OXA-48 and NDM Producers. Antimicrobial Agents and Chemotherapy, 2014, 58, 3085-3090.	3.2	140
39	Anthropogenic and environmental factors associated with high incidence of mcr-1 carriage in humans across China. Nature Microbiology, 2018, 3, 1054-1062.	13.3	139
40	Bicyclic Boronate VNRX-5133 Inhibits Metallo- and Serine-Î²-Lactamases. Journal of Medicinal Chemistry, 2019, 62, 8544-8556.	6.4	139
41	Molecular Epidemiology of Metallo-Î²-Lactamase-Producing Pseudomonas aeruginosa Isolates from Norway and Sweden Shows Import of International Clones and Local Clonal Expansion. Antimicrobial Agents and Chemotherapy, 2010, 54, 346-352.	3.2	136
42	Structural Basis of Metallo-Î²-Lactamase Inhibition by Captopril Stereoisomers. Antimicrobial Agents and Chemotherapy, 2016, 60, 142-150.	3.2	134
43	Effect of carbapenem resistance on outcomes of bloodstream infection caused by Enterobacteriaceae in low-income and middle-income countries (PANORAMA): a multinational prospective cohort study. Lancet Infectious Diseases, The, 2019, 19, 601-610.	9.1	130
44	bla VIM-7 , an Evolutionarily Distinct Metallo-Î²-Lactamase Gene in a Pseudomonas aeruginosa Isolate from the United States. Antimicrobial Agents and Chemotherapy, 2004, 48, 329-332.	3.2	129
45	The emergence of pan-resistant Gram-negative pathogens merits a rapid global political response. Journal of Antimicrobial Chemotherapy, 2012, 67, 1-3.	3.0	125
46	Novel Plasmid-Mediated tet (X5) Gene Conferring Resistance to Tigecycline, Eravacycline, and Omadacycline in a Clinical Acinetobacter baumannii Isolate. Antimicrobial Agents and Chemotherapy, 2019, 64, .	3.2	124
47	Plasmid Location and Molecular Heterogeneity of the L1 and L2 Î²-Lactamase Genes of Stenotrophomonas maltophilia. Antimicrobial Agents and Chemotherapy, 2001, 45, 413-419.	3.2	121
48	Effects of Phenotype and Genotype on Methods for Detection of Extended-Spectrum-Î²-Lactamase-Producing Clinical Isolates ofEscherichia coliandKlebsiella pneumoniaein Norway. Journal of Clinical Microbiology, 2007, 45, 199-205.	3.9	121
49	A Multicenter Study Evaluating the Current Strategies for Isolating Staphylococcus aureus Strains with Reduced Susceptibility to Glycopeptides. Journal of Clinical Microbiology, 2007, 45, 329-332.	3.9	120
50	Carbapenem Resistance in Klebsiella pneumoniae Due to the New Delhi Metallo-Â-lactamase. Clinical Infectious Diseases, 2011, 52, 481-484.	5.8	114
51	Insights into the Mechanistic Basis of Plasmid-Mediated Colistin Resistance from Crystal Structures of the Catalytic Domain of MCR-1. Scientific Reports, 2017, 7, 39392.	3.3	107
52	Identification of IncA/C Plasmid Replication and Maintenance Genes and Development of a Plasmid Multilocus Sequence Typing Scheme. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	106
53	Common regions e.g. orf513 and antibiotic resistance: IS91-like elements evolving complex class 1 integrons. Journal of Antimicrobial Chemotherapy, 2006, 58, 1-6.	3.0	105
54	Molecular Epidemiology of Carbapenem-Resistant Acinetobacter baumannii Isolates in the Gulf Cooperation Council States: Dominance of OXA-23-Type Producers. Journal of Clinical Microbiology, 2015, 53, 896-903.	3.9	103

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55	Toxinâ€“antitoxin systems and their role in disseminating and maintaining antimicrobial resistance. FEMS Microbiology Reviews, 2017, 41, 343-353.	8.6	99
56	Combating Global Antibiotic Resistance: Emerging One Health Concerns in Lower- and Middle-Income Countries. Clinical Infectious Diseases, 2018, 66, 963-969.	5.8	95
57	Dissemination and diversity of metallo-Î²-lactamases in Latin America: report from the SENTRY Antimicrobial Surveillance Program. International Journal of Antimicrobial Agents, 2005, 25, 57-61.	2.5	93
58	Redefining extended-spectrum Â-lactamases: balancing science and clinical need. Journal of Antimicrobial Chemotherapy, 2008, 63, 1-4.	3.0	92
59	Crystal Structure of Pseudomonas aeruginosa SPM-1 Provides Insights into Variable Zinc Affinity of Metallo-Î²-lactamases. Journal of Molecular Biology, 2006, 357, 890-903.	4.2	88
60	Evaluation of a New Etest Vancomycin-Teicoplanin Strip for Detection of Glycopeptide-Intermediate Staphylococcus aureus (GISA), in Particular, Heterogeneous GISA. Journal of Clinical Microbiology, 2008, 46, 3042-3047.	3.9	88
61	Global spread of New Delhi metallo-Î²-lactamase 1. Lancet Infectious Diseases, The, 2010, 10, 829-830.	9.1	87
62	Integron Carrying a Novel Metallo-Î²-Lactamase Gene, bla IMP-16 , and a Fused Form of Aminoglycoside-Resistant Gene aac(6â€²)-30/aac(6â€²)-Ibâ€² : Report from the SENTRY Antimicrobial Surveillance Program. Antimicrobial Agents and Chemotherapy, 2004, 48, 4693-4702.	3.2	86
63	Escherichia coli CreBC Is a Global Regulator of Gene Expression That Responds to Growth in Minimal Media. Journal of Biological Chemistry, 2001, 276, 26955-26961.	3.4	85
64	Novel Mechanism of Hydrolysis of Therapeutic Î²-Lactams byStenotrophomonas maltophilia L1 Metallo-Î²-lactamase. Journal of Biological Chemistry, 2001, 276, 33638-33644.	3.4	85
65	Inter-host Transmission of Carbapenemase-Producing Escherichia coli among Humans and Backyard Animals. Environmental Health Perspectives, 2019, 127, 107009.	6.0	85
66	Italian metallo-Î²-lactamases: a national problem? Report from the SENTRY Antimicrobial Surveillance Programme. Journal of Antimicrobial Chemotherapy, 2005, 55, 61-70.	3.0	83
67	Genetic and Biochemical Characterization of an Acquired Subgroup B3 Metallo-Î²-Lactamase Gene, bla _{AIM-1} , and Its Unique Genetic Context in Pseudomonas aeruginosa from Australia. Antimicrobial Agents and Chemotherapy, 2012, 56, 6154-6159.	3.2	83
68	Genetic characterization of a novel metallo-Â-lactamase gene, blaIMP-13, harboured by a novel Tn5051-type transposon disseminating carbapenemase genes in Europe: report from the SENTRY worldwide antimicrobial surveillance programme. Journal of Antimicrobial Chemotherapy, 2003, 52, 583-590.	3.0	81
69	A one-health approach to antimicrobial resistance. Nature Microbiology, 2018, 3, 854-855.	13.3	80
70	A TEM-2 beta-lactamase encoded on an active Tn1-like transposon in the genome of a clinical isolate of Stenotrophomonas maltophilia. Journal of Antimicrobial Chemotherapy, 2000, 46, 879-884.	3.0	77
71	In vitroactivity of apramycin against multidrug-, carbapenem- and aminoglycoside-resistant Enterobacteriaceae andAcinetobacter baumannii. Journal of Antimicrobial Chemotherapy, 2019, 74, 944-952.	3.0	76
72	Penicillin-derived inhibitors that simultaneously target both metallo- and serine-Î²-lactamases. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 1299-1304.	2.2	74

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73	Origin of Low Mammalian Cell Toxicity in a Class of Highly Active Antimicrobial Amphipathic Helical Peptides. Journal of Biological Chemistry, 2008, 283, 18636-18645.	3.4	73
74	Emerging Metalloâ€Î²â€Lactamaseâ€“Mediated Resistances: A Summary Report from the Worldwide SENTRY Antimicrobial Surveillance Program. Clinical Infectious Diseases, 2005, 41, S276-S278.	5.8	72
75	Identification of the novel tigecycline resistance gene tet(X6) and its variants in Myroides, Acinetobacter and Proteus of food animal origin. Journal of Antimicrobial Chemotherapy, 2020, 75, 1428-1431.	3.0	69
76	A New Class of Safe Oligosaccharide Polymer Therapy To Modify the Mucus Barrier of Chronic Respiratory Disease. Molecular Pharmaceutics, 2016, 13, 863-872.	4.6	68
77	Farm animals and aquaculture: significant reservoirs of mobile colistin resistance genes. Environmental Microbiology, 2020, 22, 2469-2484.	3.8	68
78	Combinatorial genetic evolution of multiresistance. Current Opinion in Microbiology, 2006, 9, 476-482.	5.1	67
79	Plasmid-Mediated Novel bla _{NDM-17} Gene Encoding a Carbapenemase with Enhanced Activity in a Sequence Type 48 Escherichia coli Strain. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	67
80	Biochemical Characterization of the Acquired Metallo-Î²-Lactamase SPM-1 from Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2003, 47, 582-587.	3.2	66
81	Emerging Carriage of NDM-5 and MCR-1 in Escherichia coli From Healthy People in Multiple Regions in China: A Cross Sectional Observational Study. EClinicalMedicine, 2018, 6, 11-20.	7.1	65
82	A clinical isolate of Aeromonas sobria with three chromosomally mediated inducible Î²-lactamases: a cephalosporinase, a penicillinase and a third enzyme, displaying carbapenemase activity. Journal of Antimicrobial Chemotherapy, 1995, 35, 271-279.	3.0	63
83	First Report of the Metallo-Î²-Lactamase SPM-1 in Europe. Antimicrobial Agents and Chemotherapy, 2010, 54, 582-582.	3.2	63
84	Plasmid Carriage of bla _{NDM-1} in Clinical Acinetobacter baumannii Isolates from India. Antimicrobial Agents and Chemotherapy, 2014, 58, 4211-4213.	3.2	63
85	Pseudomonas aeruginosa strains harbouring an unusual blaVIM-4 gene cassette isolated from hospitalized children in Poland (1998-2001). Journal of Antimicrobial Chemotherapy, 2004, 53, 451-456.	3.0	62
86	Enzyme kinetics and biochemical analysis of ImiS, the metallo-Î²-lactamase from Aeromonas sobria 163a. Journal of Antimicrobial Chemotherapy, 1996, 37, 423-431.	3.0	61
87	Comparative Bactericidal Activities of Daptomycin and Vancomycin against Glycopeptide-Intermediate Staphylococcus aureus (GISA) and Heterogeneous GISA Isolates. Antimicrobial Agents and Chemotherapy, 2006, 50, 4195-4197.	3.2	61
88	Characterization of fluoroquinolone-resistant Î²-hemolytic Streptococcus spp. isolated in North America and Europe including the first report of fluoroquinolone-resistant Streptococcus dysgalactiae subspecies equisimilis: Report from the SENTRY Antimicrobial Surveillance Program (1997â€“2004). Diagnostic Microbiology and Infectious Disease, 2006, 55, 119-127.	1.8	60
89	Characterization of an Integron Carrying bla IMP-1 and a New Aminoglycoside Resistance Gene, aac(6â€²)-31 , and Its Dissemination among Genetically Unrelated Clinical Isolates in a Brazilian Hospital. Antimicrobial Agents and Chemotherapy, 2007, 51, 2611-2614.	3.2	60
90	Evolution of an integron carrying blaVIM-2 in Eastern Europe: report from the SENTRY Antimicrobial Surveillance Program. Journal of Antimicrobial Chemotherapy, 2003, 52, 116-119.	3.0	58

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91	Balkan NDM-1: escape or transplant?. Lancet Infectious Diseases, The, 2011, 11, 164.	9.1	58
92	Prevalence and Genetic Analysis of mcr-3 -Positive Aeromonas Species from Humans, Retail Meat, and Environmental Water Samples. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	58
93	Crystal Structure of the Mobile Metallo-Î²-Lactamase AIM-1 from Pseudomonas aeruginosa: Insights into Antibiotic Binding and the Role of Gln157. Antimicrobial Agents and Chemotherapy, 2012, 56, 4341-4353.	3.2	57
94	A New Approach to the Inhibition of Metallo-Î²-lactamases. Angewandte Chemie - International Edition, 2006, 45, 1022-1026.	13.8	54
95	Characterization of Plasmids in Extensively Drug-Resistant Acinetobacter Strains Isolated in India and Pakistan. Antimicrobial Agents and Chemotherapy, 2015, 59, 923-929.	3.2	54
96	Heterogeneous and Flexible Transmission of mcr-1 in Hospital-Associated Escherichia coli. MBio, 2018, 9, .	4.1	54
97	Neonatal sepsis and mortality in low-income and middle-income countries from a facility-based birth cohort: an international multisite prospective observational study. The Lancet Global Health, 2022, 10, e661-e672.	6.3	54
98	Plasmid typing and genetic context of AmpC Î²-lactamases in Enterobacteriaceae lacking inducible chromosomal ampC genes: findings from a Spanish hospital 1999â€“2007. Journal of Antimicrobial Chemotherapy, 2012, 67, 115-122.	3.0	53
99	Genetic and Biochemical Characterization of a Novel Metallo-Î²-Lactamase, TMB-1, from an Achromobacter xylosoxidans Strain Isolated in Tripoli, Libya. Antimicrobial Agents and Chemotherapy, 2012, 56, 2241-2245.	3.2	53
100	Integrated aquaculture contributes to the transfer of mcr-1 between animals and humans via the aquaculture supply chain. Environment International, 2019, 130, 104708.	10.0	53
101	Contaminated in-house environment contributes to the persistence and transmission of NDM-producing bacteria in a Chinese poultry farm. Environment International, 2020, 139, 105715.	10.0	51
102	Over-expression, purification, and characterization of metallo-Î²-lactamase ImiS from Aeromonas veronii bv. sobria. Protein Expression and Purification, 2004, 36, 272-279.	1.3	50
103	Effects of antibiotic resistance, drug target attainment, bacterial pathogenicity and virulence, and antibiotic access and affordability on outcomes in neonatal sepsis: an international microbiology and drug evaluation prospective substudy (BARNARDS). Lancet Infectious Diseases, The, 2021, 21, 1677-1688.	9.1	50
104	Genetic linkage of the penicillinase gene, amp, and blrAB, encoding the regulator of beta-lactamase expression in Aeromonas spp.. Journal of Antimicrobial Chemotherapy, 2003, 51, 1351-1358.	3.0	49
105	Analysis of Salmonella spp. with resistance to extended-spectrum cephalosporins and fluoroquinolones isolated in North America and Latin America: report from the SENTRY Antimicrobial Surveillance Program (1997â€“2004). Diagnostic Microbiology and Infectious Disease, 2006, 54, 13-21.	1.8	49
106	Induction of Â-lactamase production in Aeromonas hydrophila is responsive to Â-lactam-mediated changes in peptidoglycan composition. Microbiology (United Kingdom), 2010, 156, 2327-2335.	1.8	49
107	Mechanisms Involved in Acquisition of bla _{NDM} Genes by IncA/C ₂ and IncFII _Y Plasmids. Antimicrobial Agents and Chemotherapy, 2016, 60, 4082-4088.	3.2	49
108	Sequence analysis of two chromosomally mediated inducible Î²-lactamases from Aeromonas sobria, strain 163a, one a class D penicillinase, the other an AmpC cephalosporinase. Journal of Antimicrobial Chemotherapy, 1995, 36, 41-52.	3.0	48

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109	bla VIM-2-Harboring Integrons Isolated in India, Russia, and the United States Arise from an Ancestral Class 1 Integron Predating the Formation of the 3â€² Conserved Sequence. Antimicrobial Agents and Chemotherapy, 2007, 51, 2636-2638.	3.2	48
110	Dissemination of CTX-M-15 Î²-Lactamase Genes Carried on Inc FI and FII Plasmids among Clinical Isolates of Escherichia coli in a University Hospital in Istanbul, Turkey. Journal of Clinical Microbiology, 2008, 46, 1110-1112.	3.9	48
111	mcr-1 in Enterobacteriaceae from Companion Animals, Beijing, China, 2012â€“2016. Emerging Infectious Diseases, 2017, 23, 710-711.	4.3	48
112	Expression and detection of hetero-vancomycin resistance in Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 1999, 44, 675-678.	3.0	47
113	Molecular and Biochemical Characterization of OXA-45, an Extended-Spectrum Class 2dâ€² Î²-Lactamase in Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2003, 47, 2859-2863.	3.2	47
114	The AmpC phenotype in Norwegian clinical isolates of Escherichia coli is associated with an acquired ISEcp1-like ampC element or hyperproduction of the endogenous AmpC. Journal of Antimicrobial Chemotherapy, 2008, 62, 694-702.	3.0	47
115	The new medical challenge: why NDM-1? Why Indian?. Expert Review of Anti-Infective Therapy, 2011, 9, 137-141.	4.4	47
116	Emergence of the Extended-Spectrum Î²-Lactamase GES-1 in a Pseudomonas aeruginosa Strain from Brazil: Report from the SENTRY Antimicrobial Surveillance Program. Antimicrobial Agents and Chemotherapy, 2004, 48, 2344-2345.	3.2	46
117	Infection by and dissemination of NDM-5-producingEscherichia coliin China: TableÂ1.. Journal of Antimicrobial Chemotherapy, 2016, 71, 563-565.	3.0	46
118	An Emerging Clone, Klebsiellapneumoniae Carbapenemase 2â€“Producing K. pneumoniae Sequence Type 16, Associated With High Mortality Rates in a CC258-Endemic Setting. Clinical Infectious Diseases, 2020, 71, e141-e150.	5.8	46
119	First Isolation of bla VIM-2 in Latin America: Report from the SENTRY Antimicrobial Surveillance Program. Antimicrobial Agents and Chemotherapy, 2004, 48, 1433-1434.	3.2	45
120	Prevalence of SXT/R391-like integrative and conjugative elements carrying blaCMY-2 in Proteus mirabilis. Journal of Antimicrobial Chemotherapy, 2011, 66, 2266-2270.	3.0	45
121	MCR-1-producing Klebsiella pneumoniae outbreak in China. Lancet Infectious Diseases, The, 2017, 17, 577.	9.1	45
122	Identification of carbapenem-resistant Pseudomonas aeruginosa in selected hospitals of the Gulf Cooperation Council States: dominance of high-risk clones in the region. Journal of Medical Microbiology, 2018, 67, 846-853.	1.8	44
123	Nosocomial outbreak of CTX-M-15-producing E. coli in Norway. Apmis, 2007, 115, 120-126.	2.0	41
124	Dextrinâ€“Colistin Conjugates as a Model Bioresponsive Treatment for Multidrug Resistant Bacterial Infections. Molecular Pharmaceutics, 2014, 11, 4437-4447.	4.6	41
125	Evolution and dissemination of extended-spectrum Î²-lactamase-producing Klebsiella pneumoniae: Epidemiology and molecular report from the SENTRY Antimicrobial Surveillance Program (1997â€“2003). Diagnostic Microbiology and Infectious Disease, 2005, 51, 1-7.	1.8	40
126	Fitness Cost of blaNDM-5-Carrying p3R-IncX3 Plasmids in Wild-Type NDM-Free Enterobacteriaceae. Microorganisms, 2020, 8, 377.	3.6	40

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127	Emergence of plasmid-mediated tigecycline resistance tet(X4) gene in Escherichia coli isolated from poultry, food and the environment in South Asia. Science of the Total Environment, 2021, 787, 147613.	8.0	40
128	IS CR Elements Are Key Players in IncA/C Plasmid Evolution. Antimicrobial Agents and Chemotherapy, 2010, 54, 3534-3534.	3.2	39
129	Imitation of Î²-lactam binding enables broad-spectrum metallo-Î²-lactamase inhibitors. Nature Chemistry, 2022, 14, 15-24.	13.6	39
130	Compensatory mutations modulate the competitiveness and dynamics of plasmid-mediated colistin resistance in Escherichia coli clones. ISME Journal, 2020, 14, 861-865.	9.8	38
131	Emergence and persistence of integron structures harbouring VIM genes in the Children's Memorial Health Institute, Warsaw, Poland, 1998-2006. Journal of Antimicrobial Chemotherapy, 2008, 63, 269-273.	3.0	37
132	Extended spectrum ÃŸ-lactamase-producing Escherichia coli among backyard poultry farms, farmers, and environments in Thailand. Poultry Science, 2019, 98, 2622-2631.	3.4	37
133	Reduced expression of the atl autolysin gene and susceptibility to autolysis in clinical heterogeneous glycopeptide-intermediate Staphylococcus aureus (hGISA) and GISA strains. Journal of Antimicrobial Chemotherapy, 2005, 56, 944-947.	3.0	36
134	Genetic environment of colistin resistance genes mcr-1 and mcr-3 in Escherichia coli from one pig farm in China. Veterinary Microbiology, 2019, 230, 56-61.	1.9	36
135	KPC-2-producing Klebsiella pneumoniae ST147 in a neonatal unit: Clonal isolates with differences in colistin susceptibility attributed to AcrAB-TolC pump. International Journal of Antimicrobial Agents, 2020, 55, 105903.	2.5	36
136	Evolution of the IS CR3 Group of IS CR Elements. Antimicrobial Agents and Chemotherapy, 2008, 52, 3789-3791.	3.2	35
137	Structural and Computational Investigations of VIM-7: Insights into the Substrate Specificity of VIM Metallo-Î²-Lactamases. Journal of Molecular Biology, 2011, 411, 174-189.	4.2	35
138	Heavy Metal Resistance Genes Are Associated with bla _{NDM-1} - and bla _{CTX-M-15} -Carrying Enterobacteriaceae. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	35
139	High prevalence and persistence of carbapenem and colistin resistance in livestock farm environments in China. Journal of Hazardous Materials, 2021, 406, 124298.	12.4	35
140	Profiling interactions of vaborbactam with metallo-Î²-lactamases. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 1981-1984.	2.2	34
141	Distinct increase in antimicrobial resistance genes among Escherichia coli during 50 years of antimicrobial use in livestock production in China. Nature Food, 2022, 3, 197-205.	14.0	34
142	Characterization of Monomeric L1 Metallo-Î²-lactamase and the Role of the N-terminal Extension in Negative Cooperativity and Antibiotic Hydrolysis. Journal of Biological Chemistry, 2002, 277, 24744-24752.	3.4	33
143	Integrons Containing the VIM-2 Metallo-Î²-Lactamase Gene among Imipenem-Resistant Pseudomonas aeruginosa Strains from Different Chinese Hospitals. Journal of Clinical Microbiology, 2006, 44, 4242-4245.	3.9	33
144	Dissemination of genetically diverse NDM-1, -5, -7 producing-Gram-negative pathogens isolated from pediatric patients in Pakistan. Future Microbiology, 2019, 14, 691-704.	2.0	32

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145	A novel metallo-Î²-lactamase, Mbl1b, produced by the environmental bacteriumCaulobacter crescentus1. FEBS Letters, 2001, 509, 350-354.	2.8	31
146	Copper Ions and Coordination Complexes as Novel Carbapenem Adjuvants. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	31
147	Bulgecin A: a novel inhibitor of binuclear metallo-Î²-lactamases. Biochemical Journal, 2005, 387, 585-590.	3.7	30
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