

Updated Functional Classification of $\hat{\text{I}}^2$ -Lactamases

Antimicrobial Agents and Chemotherapy

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Origins and Evolution of Antibiotic Resistance. <i>Microbiology and Molecular Biology Reviews</i> , 2010, 74, 417-433.	2.9	4,061
3	Inhibition of metallo- β -lactamases by pyridine monothiocarboxylic acid analogs. <i>Journal of Antibiotics</i> , 2010, 63, 255-257.	1.0	18
4	Role of changes in the L3 loop of the active site in the evolution of enzymatic activity of VIM-type metallo- β -lactamases. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 1950-1954.	1.3	29
5	First Description of an Extended-Spectrum- β -Lactamase-Producing Multidrug-Resistant <i>Escherichia fergusonii</i> Strain in a Patient with Cystitis. <i>Journal of Clinical Microbiology</i> , 2010, 48, 2301-2302.	1.8	30
6	Evaluation of a Commercial Microarray System for Detection of SHV-, TEM-, CTX-M-, and KPC-Type β -Lactamase Genes in Gram-Negative Isolates. <i>Journal of Clinical Microbiology</i> , 2010, 48, 2618-2622.	1.8	60
7	Penicillin Sulfone Inhibitors of Class D β -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 1414-1424.	1.4	42
8	NDM-1 – A Cause for Worldwide Concern. <i>New England Journal of Medicine</i> , 2010, 363, 2377-2379.	13.9	254
9	The Genomic Enzymology of Antibiotic Resistance. <i>Annual Review of Genetics</i> , 2010, 44, 25-51.	3.2	109
10	Bench-to-bedside review: The role of β -lactamases in antibiotic-resistant Gram-negative infections. <i>Critical Care</i> , 2010, 14, 224.	2.5	160
11	β -Lactamases identified in clinical isolates of <i>Pseudomonas aeruginosa</i> . <i>Critical Reviews in Microbiology</i> , 2010, 36, 245-258.	2.7	88
12	Minor extended-spectrum β -lactamases. <i>Expert Review of Anti-Infective Therapy</i> , 2010, 8, 1251-1258.	2.0	15
13	Current Challenges in Antimicrobial Chemotherapy. <i>Drugs</i> , 2010, 70, 651-679.	4.9	128
14	Emerging carbapenemases: a global perspective. <i>International Journal of Antimicrobial Agents</i> , 2010, 36, S8-S14.	1.1	418
15	Structures of the Michaelis Complex (1.2 Å...) and the Covalent Acyl Intermediate (2.0 Å...) of Cefamandole Bound in the Active Sites of the <i>Mycobacterium tuberculosis</i> β -Lactamase K73A and E166A Mutants. <i>Biochemistry</i> , 2010, 49, 9685-9687.	1.2	52
16	Design, Synthesis, and Crystal Structures of 6-Alkylidene-2-Substituted Penicillanic Acid Sulfones as Potent Inhibitors of <i>Acinetobacter baumannii</i> OXA-24 Carbapenemase. <i>Journal of the American Chemical Society</i> , 2010, 132, 13320-13331.	6.6	60
17	New β -lactam antibiotics and β -lactamase inhibitors. <i>Expert Opinion on Therapeutic Patents</i> , 2010, 20, 1277-1293.	2.4	103
18	Three Decades of β -Lactamase Inhibitors. <i>Clinical Microbiology Reviews</i> , 2010, 23, 160-201.	5.7	1,356
19	Alarming β -lactamase-mediated resistance in multidrug-resistant Enterobacteriaceae. <i>Current Opinion in Microbiology</i> , 2010, 13, 558-564.	2.3	341

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21	Analysis of the Functional Contributions of Asn233 in Metallo- β -Lactamase IMP-1. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 5696-5702.	1.4	30
22	Using Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry To Detect Carbapenem Resistance within 1 to 2.5 Hours. <i>Journal of Clinical Microbiology</i> , 2011, 49, 3321-3324.	1.8	288
23	The Evolution of Antibiotic Resistance. , 2011, , 305-337.		6
24	Crystal structure of NDM-1 reveals a common β -lactam hydrolysis mechanism. <i>FASEB Journal</i> , 2011, 25, 2574-2582.	0.2	218
25	Current Trends in β -Lactam Based β -Lactamases Inhibitors. <i>Current Medicinal Chemistry</i> , 2011, 18, 4223-4236.	1.2	30
26	Comparative Characterization of Fungal Anthracenone and Naphthacenedione Biosynthetic Pathways Reveals an α -Hydroxylation-Dependent Claisen-like Cyclization Catalyzed by a Dimanganese Thioesterase. <i>Journal of the American Chemical Society</i> , 2011, 133, 15773-15785.	6.6	81
27	Evolution and Spread of a Multidrug-Resistant <i>Proteus mirabilis</i> Clone with Chromosomal AmpC-Type Cephalosporinases in Europe. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2735-2742.	1.4	52
28	Providing β -lactams a helping hand: targeting the AmpC β -lactamase induction pathway. <i>Future Microbiology</i> , 2011, 6, 1415-1427.	1.0	61
29	Antimicrobial Resistance in the Intensive Care Unit: Mechanisms, Epidemiology, and Management of Specific Resistant Pathogens. <i>Critical Care Clinics</i> , 2011, 27, 163-205.	1.0	67
30	Resistance to the Third-Generation Cephalosporin Ceftazidime by a Deacylation-Deficient Mutant of the TEM β -Lactamase by the Uncommon Covalent-Trapping Mechanism. <i>Biochemistry</i> , 2011, 50, 6387-6395.	1.2	17
31	Network Models of TEM β -Lactamase Mutations Coevolving under Antibiotic Selection Show Modular Structure and Anticipate Evolutionary Trajectories. <i>PLoS Computational Biology</i> , 2011, 7, e1002184.	1.5	36
32	Status report on carbapenemases: challenges and prospects. <i>Expert Review of Anti-Infective Therapy</i> , 2011, 9, 555-570.	2.0	93
33	Pathogens Resistant to Antibacterial Agents. <i>Medical Clinics of North America</i> , 2011, 95, 647-676.	1.1	7
34	Detection of SPM and IMP metallo- β -lactamases in clinical specimens of <i>Pseudomonas aeruginosa</i> from a Brazilian public tertiary hospital. <i>Brazilian Journal of Infectious Diseases</i> , 2011, 15, 478-481.	0.3	4
35	Resistance drives antibacterial drug development. <i>Current Opinion in Pharmacology</i> , 2011, 11, 433-438.	1.7	73
37	Genetic Mechanisms of Antimicrobial Resistance of <i>Acinetobacter Baumannii</i> . <i>Annals of Pharmacotherapy</i> , 2011, 45, 218-228.	0.9	52
38	Structures of the Class D Carbapenemase OXA-24 from <i>Acinetobacter baumannii</i> in Complex with Doripenem. <i>Journal of Molecular Biology</i> , 2011, 406, 583-594.	2.0	65
39	Structural and Computational Investigations of VIM-7: Insights into the Substrate Specificity of VIM Metallo- β -Lactamases. <i>Journal of Molecular Biology</i> , 2011, 411, 174-189.	2.0	35

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40	Metallo- β -lactamases: a last frontier for β -lactams?. <i>Lancet Infectious Diseases</i> , The, 2011, 11, 381-393.	4.6	562
41	Carbapenems: Past, Present, and Future. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4943-4960.	1.4	1,053
42	Molecular characterization of vancomycin-resistant enterococci and extended-spectrum β -lactamase-containing <i>Escherichia coli</i> isolates in wild birds from the Azores Archipelago. <i>Avian Pathology</i> , 2011, 40, 473-479.	0.8	36
43	Resistance to β -lactams of human and veterinary <i>Salmonella</i> isolates in Egypt and Algeria. <i>African Journal of Microbiology Research</i> , 2011, 5, 802-808.	0.4	6
44	Detection of SPM and IMP metallo- β -lactamases in clinical specimens of <i>Pseudomonas aeruginosa</i> from a Brazilian public tertiary hospital. <i>Brazilian Journal of Infectious Diseases</i> , 2011, 15, 478-481.	0.3	1
45	Urinary tract infections caused by extended spectrum β -lactamase (ESBL) producing <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> . <i>African Journal of Biotechnology</i> , 2011, 10, .	0.3	5
46	Functional Metagenomics Reveals Previously Unrecognized Diversity of Antibiotic Resistance Genes in Gulls. <i>Frontiers in Microbiology</i> , 2011, 2, 238.	1.5	46
47	Multidrug-Resistant <i>Acinetobacter</i> spp.: Increasingly Problematic Nosocomial Pathogens. <i>Yonsei Medical Journal</i> , 2011, 52, 879.	0.9	121
48	Scientific Opinion on the public health risks of bacterial strains producing extended-spectrum β -lactamases and/or AmpC β -lactamases in food and food-producing animals. <i>EFSA Journal</i> , 2011, 9, 2322.	0.9	235
50	Analysis of antibiotic resistance regions in Gram-negative bacteria. <i>FEMS Microbiology Reviews</i> , 2011, 35, 820-855.	3.9	290
51	ACT-6, a novel plasmid-encoded class C β -lactamase in a <i>Klebsiella pneumoniae</i> isolate from China. <i>Journal of Antibiotics</i> , 2011, 64, 317-320.	1.0	5
52	Are pleuromutilin antibiotics finally fit for human use?. <i>Annals of the New York Academy of Sciences</i> , 2011, 1241, 71-81.	1.8	125
53	A rapid in situ procedure for determination of bacterial susceptibility or resistance to antibiotics that inhibit peptidoglycan biosynthesis. <i>BMC Microbiology</i> , 2011, 11, 191.	1.3	21
54	Strategies for bypassing the membrane barrier in multidrug resistant Gram-negative bacteria. <i>FEBS Letters</i> , 2011, 585, 1682-1690.	1.3	192
55	Molecular mechanisms of antibiotic resistance. <i>Chemical Communications</i> , 2011, 47, 4055.	2.2	302
56	Diazabicyclooctanes (DBOs): a potent new class of non- β -lactam β -lactamase inhibitors. <i>Current Opinion in Microbiology</i> , 2011, 14, 550-555.	2.3	210
57	<i>In Vitro</i> Selection of Variants Resistant to β -Lactams plus β -Lactamase Inhibitors in CTX-M β -Lactamases: Predicting the <i>In Vivo</i> Scenario?. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4530-4536.	1.4	39
58	Identification of Products of Inhibition of GES-2 β -Lactamase by Tazobactam by X-ray Crystallography and Spectrometry. <i>Journal of Biological Chemistry</i> , 2011, 286, 14396-14409.	1.6	22

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59	PME-1, an Extended-Spectrum $\hat{2}$ -Lactamase Identified in <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2710-2713.	1.4	24
60	Epidemiological Expansion, Structural Studies, and Clinical Challenges of New $\hat{2}$ -Lactamases from Gram-Negative Bacteria. <i>Annual Review of Microbiology</i> , 2011, 65, 455-478.	2.9	367
62	Structure of the extended-spectrum $\hat{2}$ -lactamase TEM-72 inhibited by citrate. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 303-306.	0.7	14
63	Effects of the Val211Gly substitution on molecular dynamics of the CMY $\hat{2}$ cephalosporinase: Implications on hydrolysis of expanded $\hat{2}$ -spectrum cephalosporins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 3180-3192.	1.5	10
64	Use of periplasmic target protein capture for phage display engineering of tight-binding protein $\hat{2}$ -protein interactions. <i>Protein Engineering, Design and Selection</i> , 2011, 24, 819-828.	1.0	4
65	Characterization and Quantitation of a Novel $\hat{2}$ -Lactamase Gene Found in a Wastewater Treatment Facility and the Surrounding Coastal Ecosystem. <i>Applied and Environmental Microbiology</i> , 2011, 77, 8226-8233.	1.4	48
66	Bovine Intestinal Bacteria Inactivate and Degrade Ceftiofur and Ceftriaxone with Multiple $\hat{2}$ -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4990-4998.	1.4	39
67	Multicenter Evaluation of a New DNA Microarray for Rapid Detection of Clinically Relevant <i>bla</i> Genes from $\hat{2}$ -Lactam-Resistant Gram-Negative Bacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4457-4460.	1.4	40
68	Emergence of Ertapenem Resistance in an <i>Escherichia coli</i> Clinical Isolate Producing Extended-Spectrum $\hat{2}$ -Lactamase AmpC. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4443-4446.	1.4	21
69	Distribution of the <i>bla</i> TEM gene and <i>bla</i> TEM-containing transposons in commensal <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 745-751.	1.3	126
70	SMB-1, a Novel Subclass B3 Metallo- $\hat{2}$ -Lactamase, Associated with IS <i>CR1</i> and a Class 1 Integron, from a Carbapenem-Resistant <i>Serratia marcescens</i> Clinical Isolate. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 5143-5149.	1.4	89
71	Fosfomycin and Its Application in the Treatment of Multidrug-Resistant Enterobacteriaceae Infections. <i>Clinical Medicine Reviews in Therapeutics</i> , 2011, 3, 123-142.	0.4	5
72	Dissemination of IMP-6 metallo- $\hat{2}$ -lactamase-producing <i>Pseudomonas aeruginosa</i> sequence type 235 in Korea. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 2791-2796.	1.3	51
73	Acquired Antibiotic Resistance Genes: An Overview. <i>Frontiers in Microbiology</i> , 2011, 2, 203.	1.5	506
74	Designing New $\hat{2}$ -Lactams: Implications from Their Targets, Resistance Factors and Synthesizing Enzymes. <i>Current Computer-Aided Drug Design</i> , 2011, 7, 53-80.	0.8	19
75	Role of SHV $\hat{2}$ -lactamase variants in resistance of clinical <i>Klebsiella pneumoniae</i> strains to $\hat{2}$ -lactams in an Algerian hospital. <i>Journal of Medical Microbiology</i> , 2011, 60, 983-987.	0.7	18
76	Transfer of KPC-2 Carbapenemase from <i>Klebsiella pneumoniae</i> to <i>Escherichia coli</i> in a Patient: First Case in Europe. <i>Journal of Clinical Microbiology</i> , 2011, 49, 2040-2042.	1.8	32
77	First Report of <i>Klebsiella oxytoca</i> Strain Coproducing KPC-2 and IMP-8 Carbapenemases. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2937-2941.	1.4	34

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78	Can We Use Imipenem and Meropenem Vitek 2 MICs for Detection of Suspected KPC and Other-Carbapenemase Producers among Species of Enterobacteriaceae?. <i>Journal of Clinical Microbiology</i> , 2011, 49, 697-701.	1.8	20
79	Hydrolytic Mechanism of OXA-58 Enzyme, a Carbapenem-hydrolyzing Class D β -Lactamase from <i>Acinetobacter baumannii</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 37292-37303.	1.6	38
80	Trends in production of extended-spectrum β -lactamases among Enterobacteriaceae of clinical interest: results of a nationwide survey in Belgian hospitals. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 37-47.	1.3	88
81	The Class D β -lactamase family: residues governing the maintenance and diversity of function. <i>Protein Engineering, Design and Selection</i> , 2011, 24, 801-809.	1.0	23
82	Phenotypic characterization of ESBL producing <i>Enterobacter cloacae</i> among children. <i>Pakistan Journal of Medical Sciences</i> , 2012, 29, 144-7.	0.3	12
83	Substitutions at Position 105 in SHV Family β -Lactamases Decrease Catalytic Efficiency and Cause Inhibitor Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 5678-5686.	1.4	29
84	Mutagenesis of Zinc Ligand Residue Cys221 Reveals Plasticity in the IMP-1 Metallo- β -Lactamase Active Site. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 5667-5677.	1.4	22
85	Virulence Factors and TEM-Type β -Lactamases Produced by Two Isolates of an Epidemic <i>Klebsiella pneumoniae</i> Strain. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 1101-1104.	1.4	6
86	Characterization of Isolates of <i>Salmonella enterica</i> Serovar Stanley, a Serovar Endemic to Asia and Associated with Travel. <i>Journal of Clinical Microbiology</i> , 2012, 50, 709-720.	1.8	32
87	Expression of OXA-Type and SFO-1 β -Lactamases Induces Changes in Peptidoglycan Composition and Affects Bacterial Fitness. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 1877-1884.	1.4	45
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91	Class A Carbapenemase FPH-1 from <i>Francisella philomiragia</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 2852-2857.	1.4	13
92	Carbapenem-Hydrolyzing Gram-Negative Bacteria: Current Options for Treatment and Review of Drugs in Development. <i>Recent Patents on Anti-infective Drug Discovery</i> , 2012, 7, 19-27.	0.5	1
93	CTX-M Enzymes: Origin and Diffusion. <i>Frontiers in Microbiology</i> , 2012, 3, 110.	1.5	707
94	Biotic Reactions: An Outline of Reactions and Organisms. , 2012, , 84-215.		0
95	Rapid Detection of Extended-Spectrum β -Lactamase-Producing Enterobacteriaceae. <i>Journal of Clinical Microbiology</i> , 2012, 50, 3016-3022.	1.8	102

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96	Crystallization and preliminary diffraction studies of SFC-1, a carbapenemase conferring antibiotic resistance. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1124-1127.	0.7	0
97	Crystallization and preliminary diffraction studies of GIM-1, a class B carbapenem-hydrolyzing β -lactamase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1226-1228.	0.7	2
98	Functional screening of antibiotic resistance genes from human gut microbiota reveals a novel gene fusion. <i>FEMS Microbiology Letters</i> , 2012, 336, 11-16.	0.7	60
99	Sequence-function-stability relationships in proteins from datasets of functionally annotated variants: The case of TEM β -lactamases. <i>FEBS Letters</i> , 2012, 586, 3330-3335.	1.3	24
100	Inhibition of a cold-active alkaline phosphatase by imipenem revealed by <i>in silico</i> modeling of metallo- β -lactamase active sites. <i>FEBS Letters</i> , 2012, 586, 3710-3715.	1.3	28
101	Frequency of extended-spectrum β -lactamase (ESBL)-producing Gram-negative bacilli in a 200-bed multi-specialty hospital in Vellore district, Tamil Nadu, India. <i>Infection</i> , 2012, 40, 425-429.	2.3	11
102	Infección urinaria adquirida en la comunidad en pacientes pediátricos: clínica, factores de riesgo, etiología, resistencia a los antibióticos y respuesta a la terapia empírica. <i>Infectio</i> , 2012, 16, 94-103.	0.4	5
103	Extended-spectrum β -lactamase (ESBL) in Danish clinical isolates of <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> : Prevalence, β -lactamase distribution, phylogroups, and co-resistance. <i>Scandinavian Journal of Infectious Diseases</i> , 2012, 44, 174-181.	1.5	43
105	Mechanistic and Spectroscopic Studies of Metallo- β -lactamase NDM-1. <i>Biochemistry</i> , 2012, 51, 3839-3847.	1.2	94
106	Ceftazidime for respiratory infections. <i>Expert Opinion on Pharmacotherapy</i> , 2012, 13, 2097-2109.	0.9	4
108	Therapeutic options for <i>Acinetobacter baumannii</i> infections: an update. <i>Expert Opinion on Pharmacotherapy</i> , 2012, 13, 2319-2336.	0.9	95
109	A chromogenic cephalosporin for β -lactamase inhibitor screening assays. <i>Analytical Biochemistry</i> , 2012, 428, 96-98.	1.1	25
110	Carbapenemases in <i>Klebsiella pneumoniae</i> and Other Enterobacteriaceae: an Evolving Crisis of Global Dimensions. <i>Clinical Microbiology Reviews</i> , 2012, 25, 682-707.	5.7	988
111	Current and Future Challenges in the Development of Antimicrobial Agents. <i>Handbook of Experimental Pharmacology</i> , 2012, , 45-65.	0.9	28
112	Crystal Structures of BapA Complexes with β -Lactamase-Derived Inhibitors Illustrate Substrate Specificity and Enantioselectivity of β -Amino-peptidases. <i>ChemBioChem</i> , 2012, 13, 2137-2145.	1.3	5
113	Bloodstream infections caused by carbapenemase-producing <i>Klebsiella pneumoniae</i> : a clinical perspective. <i>Expert Review of Anti-Infective Therapy</i> , 2012, 10, 1393-1404.	2.0	52
114	Carbapenem-Resistant Enterobacteriaceae: An Emerging Problem in Children. <i>Clinical Infectious Diseases</i> , 2012, 55, 852-859.	2.9	137
115	Plasmid-Mediated Resistance in Enterobacteriaceae. <i>Drugs</i> , 2012, 72, 1-16.	4.9	105

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116	Prevalence of antibiotic resistance among <i>Acinetobacter baumannii</i> isolates from Aleppo, Syria. <i>American Journal of Infection Control</i> , 2012, 40, 776-777.	1.1	26
117	Molecular Dynamics of Class A β -lactamases—Effects of Substrate Binding. <i>Biophysical Journal</i> , 2012, 103, 1790-1801.	0.2	16
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120	Characterization of Clinical Multidrug-Resistant <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> Isolates, 2007–2009, China. <i>Microbial Drug Resistance</i> , 2012, 18, 465-470.	0.9	19
121	Emergence of multidrug-resistant NDM-1-producing Gram-negative bacteria in Bangladesh. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2012, 31, 2593-2600.	1.3	62
122	Development and validation of a multiplex TaqMan real-time PCR for rapid detection of genes encoding four types of class D carbapenemase in <i>Acinetobacter baumannii</i> . <i>Journal of Medical Microbiology</i> , 2012, 61, 1532-1537.	0.7	28
124	<i>Enterobacter cloacae</i> complex: clinical impact and emerging antibiotic resistance. <i>Future Microbiology</i> , 2012, 7, 887-902.	1.0	420
125	Fluorocyclines. 1. 7-Fluoro-9-pyrrolidinoacetamido-6-demethyl-6-deoxytetracycline: A Potent, Broad Spectrum Antibacterial Agent. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 597-605.	2.9	110
126	Analysis of Drug Resistance Determinants in <i>Klebsiella pneumoniae</i> Isolates from a Tertiary-Care Hospital in Beijing, China. <i>PLoS ONE</i> , 2012, 7, e42280.	1.1	41
127	The <i>Acinetobacter baumannii</i> Oxymoron: Commensal Hospital Dweller Turned Pan-Drug-Resistant Menace. <i>Frontiers in Microbiology</i> , 2012, 3, 148.	1.5	343
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129	Total Alkaloids of <i>Sophorea alopecuroides</i> —Induced Downregulation of AcrAB-TolC Efflux Pump Reverses Susceptibility to Ciprofloxacin in Clinical Multidrug Resistant <i>Escherichia coli</i> isolates. <i>Phytotherapy Research</i> , 2012, 26, 1637-1643.	2.8	16
130	<i>Klebsiella pneumoniae</i> Carbapenemases in Enterobacteriaceae: History, Evolution, and Microbiology Concerns. <i>Pharmacotherapy</i> , 2012, 32, 399-407.	1.2	53
131	Characterization of the Inhibitor-Resistant SHV β -Lactamase SHV-107 in a Clinical <i>Klebsiella pneumoniae</i> Strain Coproducing GES-7 Enzyme. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 1042-1046.	1.4	11
132	Avibactam is a covalent, reversible, non- β -lactam β -lactamase inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11663-11668.	3.3	444
133	Broad-specificity efflux pumps and their role in multidrug resistance of Gram-negative bacteria. <i>FEMS Microbiology Reviews</i> , 2012, 36, 340-363.	3.9	574
134	Inactivation of a class A and a class C β -lactamase by 6 β -(hydroxymethyl)penicillanic acid sulfone. <i>Biochemical Pharmacology</i> , 2012, 83, 462-471.	2.0	16
135	Genetic support and diversity of acquired extended-spectrum β -lactamases in Gram-negative rods. <i>Infection, Genetics and Evolution</i> , 2012, 12, 883-893.	1.0	114

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136	Thermokinetic characterization of imipenem hydrolysis with metallo- β -lactamase CcrA from <i>Bacteroides fragilis</i> . <i>Thermochimica Acta</i> , 2012, 539, 67-70.	1.2	5
137	The revolving door between hospital and community: extended-spectrum beta-lactamase-producing <i>Escherichia coli</i> in Dublin. <i>Journal of Hospital Infection</i> , 2012, 81, 192-198.	1.4	36
138	Computational analysis of pathogen-borne metallo β -lactamases reveals discriminating structural features between B1 types. <i>BMC Research Notes</i> , 2012, 5, 96.	0.6	15
139	Exploring antibiotic resistant mechanism by microcalorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 107, 321-324.	2.0	7
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1642	Treatment of severe infections caused by ESBL or carbapenemases-producing Enterobacteriaceae. <i>Medicina Intensiva</i> , 2023, 47, 34-44.	0.4	1
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1645	Carbapenem Resistance Mechanisms, Carbapenemase Genes Dissemination, and Laboratory Detection Methods: A Review. <i>International Journal of Pharmaceutical Research and Allied Sciences</i> , 2023, 12, 123-138.	0.1	1
1646	Distribution pattern of antibiotic resistance genes in <i>Escherichia coli</i> isolated from colibacillosis cases in broiler farms of Egypt. <i>Veterinary World</i> , 0, , 1-11.	0.7	5
1647	Boronic Acid Transition State Inhibitors as Potent Inactivators of KPC and CTX-M $\hat{\text{I}}^2$ -Lactamases: Biochemical and Structural Analyses. <i>Antimicrobial Agents and Chemotherapy</i> , 2023, 67, .	1.4	2
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