Gerard D Wright

List of Publications by Year
in descending order

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		5876	3997
284 papers	34,795 citations	81 h-index	176 g-index
297 all docs	297 docs citations	297 times ranked	35065 citing authors

#	Article	IF	Citations
1	Antibiotic resistanceâ€”the need for global solutions. Lancet Infectious Diseases, The, 2013, 13, 1057-1098.	4.6	3,184
2	CARD 2017: expansion and model-centric curation of the comprehensive antibiotic resistance database. Nucleic Acids Research, 2017, 45, D566-D573.	6.5	2,063
3	Antibiotic resistance is ancient. Nature, 2011, 477, 457-461.	13.7	1,967
4	Antibacterial drug discovery in the resistance era. Nature, 2016, 529, 336-343.	13.7	1,628
5	The Comprehensive Antibiotic Resistance Database. Antimicrobial Agents and Chemotherapy, 2013, 57, 3348-3357.	1.4	1,615
6	Sampling the Antibiotic Resistome. Science, 2006, 311, 374-377.	6.0	1,319
7	The antibiotic resistome: the nexus of chemical and genetic diversity. Nature Reviews Microbiology, 2007, 5, 175-186.	13.6	1,065
8	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	3.9	715
9	Antibiotic resistance in the environment: a link to the clinic?. Current Opinion in Microbiology, 2010, 13, 589-594.	2.3	638
10	Molecular basis for vancomycin resistance in Enterococcus faecium BM4147: biosynthesis of a depsipeptide peptidoglycan precursor by vancomycin resistance proteins VanH and VanA. Biochemistry, 1991, 30, 10408-10415.	1.2	628
11	Bacterial resistance to antibiotics: Enzymatic degradation and modification. Advanced Drug Delivery Reviews, 2005, 57, 1451-1470.	6.6	627
12	Antibiotic Resistance Is Prevalent in an Isolated Cave Microbiome. PLoS ONE, 2012, 7, e34953.	1.1	541
13	Drug combinations: a strategy to extend the life of antibiotics in the 21st century. Nature Reviews Microbiology, 2019, 17, 141-155.	13.6	526
14	Aspergillomarasmine A overcomes metallo-Î²-lactamase antibiotic resistance. Nature, 2014, 510, 503-506.	13.7	461
15	Combinations of antibiotics and nonantibiotic drugs enhance antimicrobial efficacy. Nature Chemical Biology, 2011, 7, 348-350.	3.9	447
16	Intrinsic antibiotic resistance: Mechanisms, origins, challenges and solutions. International Journal of Medical Microbiology, 2013, 303, 287-292.	1.5	434
17	Antibiotic Adjuvants: Rescuing Antibiotics from Resistance. Trends in Microbiology, 2016, 24, 862-871.	3.5	412
18	Bacterial resistance to aminoglycoside antibiotics. Trends in Microbiology, 1997, 5, 234-240.	3.5	357

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19	Streptogramins, Oxazolidinones, and Other Inhibitors of Bacterial Protein Synthesis. Chemical Reviews, 2005, 105, 529-542.	23.0	325
20	Molecular mechanisms of antibiotic resistance. Chemical Communications, 2011, 47, 4055.	2.2	302
21	The tetracycline resistome. Cellular and Molecular Life Sciences, 2010, 67, 419-431.	2.4	292
22	Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. MBio, 2020, 11, .	1.8	275
23	TetX Is a Flavin-dependent Monooxygenase Conferring Resistance to Tetracycline Antibiotics. Journal of Biological Chemistry, 2004, 279, 52346-52352.	1.6	260
24	Opportunities for natural products in 21st century antibiotic discovery. Natural Product Reports, 2017, 34, 694-701.	5.2	246
25	Expanding the soil antibiotic resistome: exploring environmental diversity. Current Opinion in Microbiology, 2007, 10, 481-489.	2.3	240
26	Structure of an Enzyme Required for Aminoglycoside Antibiotic Resistance Reveals Homology to Eukaryotic Protein Kinases. Cell, 1997, 89, 887-895.	13.5	236
27	Aminoglycoside-modifying enzymes. Current Opinion in Microbiology, 1999, 2, 499-503.	2.3	226
28	The antibiotic resistance â€œmobilomeâ€: searching for the link between environment and clinic. Frontiers in Microbiology, 2013, 4, 138.	1.5	221
29	Something old, something new: revisiting natural products in antibiotic drug discovery. Canadian Journal of Microbiology, 2014, 60, 147-154.	0.8	207
30	Identifying producers of antibacterial compounds by screening for antibiotic resistance. Nature Biotechnology, 2013, 31, 922-927.	9.4	206
31	New strategies for combating multidrug-resistant bacteria. Trends in Molecular Medicine, 2007, 13, 260-267.	3.5	200
32	Antibiotic adjuvants: multicomponent anti-infective strategies. Expert Reviews in Molecular Medicine, 2011, 13, e5.	1.6	195
33	Inhibition of WTA Synthesis Blocks the Cooperative Action of PBPs and Sensitizes MRSA to Î²-Lactams. ACS Chemical Biology, 2013, 8, 226-233.	1.6	184
34	Bacterial proteases, untapped antimicrobial drug targets. Journal of Antibiotics, 2017, 70, 366-377.	1.0	182
35	Evolution-guided discovery of antibiotics that inhibit peptidoglycan remodelling. Nature, 2020, 578, 582-587.	13.7	177
36	Assembling the glycopeptide antibiotic scaffold: The biosynthesis of from Streptomyces toyocaensis NRRL15009. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8962-8967.	3.3	174

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37	Glycopeptide antibiotic biosynthesis. Journal of Antibiotics, 2014, 67, 31-41.	1.0	170
38	Tigecycline Is Modified by the Flavin-Dependent Monooxygenase TetX. Biochemistry, 2005, 44, 11829-11835.	1.2	169
39	Crossâ€species discovery of syncretic drug combinations that potentiate the antifungal fluconazole. Molecular Systems Biology, 2011, 7, 499.	3.2	169
40	Acyldepsipeptide Antibiotics Induce the Formation of a Structured Axial Channel in ClpP: A Model for the ClpX/ClpA-Bound State of ClpP. Chemistry and Biology, 2010, 17, 959-969.	6.2	168
41	Resisting resistance: new chemical strategies for battling superbugs. Chemistry and Biology, 2000, 7, R127-R132.	6.2	163
42	New Targets and Screening Approaches in Antimicrobial Drug Discovery. Chemical Reviews, 2005, 105, 759-774.	23.0	161
43	An ecological perspective of microbial secondary metabolism. Current Opinion in Biotechnology, 2011, 22, 552-558.	3.3	160
44	Antifungal Drugs: The Current Armamentarium and Development of New Agents. Microbiology Spectrum, 2016, 4, .	1.2	159
45	Rifamycin antibiotic resistance by ADP-ribosylation: Structure and diversity of Arr. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4886-4891.	3.3	155
46	A diverse intrinsic antibiotic resistome from a cave bacterium. Nature Communications, 2016, 7, 13803.	5.8	148
47	Combinatorial strategies for combating invasive fungal infections. Virulence, 2017, 8, 169-185.	1.8	146
48	Purification and characterization of VanR and the cytosolic domain of VanS: A two-component regulatory system required for vancomycin resistance in Enterococcus faecium BM4147. Biochemistry, 1993, 32, 5057-5063.	1.2	145
49	GLYCOPEPTIDEANTIBIOTICRESISTANCE. Annual Review of Pharmacology and Toxicology, 2002, 42, 381-408.	4.2	145
50	Introduction:â€‰ Antibiotic Resistance. Chemical Reviews, 2005, 105, 391-394.	23.0	144
51	Clinical utilization of genomics data produced by the international Pseudomonas aeruginosa consortium. Frontiers in Microbiology, 2015, 6, 1036.	1.5	144
52	The antibiotic resistome: what's new?. Current Opinion in Microbiology, 2014, 21, 45-50.	2.3	143
53	Design of Bifunctional Antibiotics that Target Bacterial rRNA and Inhibit Resistance-Causing Enzymes. Journal of the American Chemical Society, 2000, 122, 5230-5231.	6.6	142
54	The Prehistory of Antibiotic Resistance. Cold Spring Harbor Perspectives in Medicine, 2016, 6, a025197.	2.9	141

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55	D-Ala-D-Ala ligases from glycopeptide antibiotic-producing organisms are highly homologous to the enterococcal vancomycin-resistance ligases VanA and VanB. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 6480-6483.	3.3	139
56	Crystal structure of an aminoglycoside 6â€²-N-acetyltransferase: defining the GCN5-related N-acetyltransferase superfamily fold. Structure, 1999, 7, 497-507.	1.6	137
57	Mechanisms of resistance to antibiotics. Current Opinion in Chemical Biology, 2003, 7, 563-569.	2.8	137
58	Characterization of an inducible vancomycin resistance system in Streptomyces coelicolor reveals a novel gene (vanK) required for drug resistance. Molecular Microbiology, 2004, 52, 1107-1121.	1.2	136
59	A vancomycin photoprobe identifies the histidine kinase VanSsc as a vancomycin receptor. Nature Chemical Biology, 2010, 6, 327-329.	3.9	135
60	Q&A: Antibiotic resistance: where does it come from and what can we do about it?. BMC Biology, 2010, 8, 123.	1.7	129
61	Lessons from the Environmental Antibiotic Resistome. Annual Review of Microbiology, 2017, 71, 309-329.	2.9	127
62	Overexpression, Purification, and Characterization of VanX, a D-, D-Dipeptidase which Is Essential for Vancomycin Resistance in Enterococcus faecium BM4147. Biochemistry, 1995, 34, 2455-2463.	1.2	125
63	Antibiotics: A New Hope. Chemistry and Biology, 2012, 19, 3-10.	6.2	122
64	Solving the Antibiotic Crisis. ACS Infectious Diseases, 2015, 1, 80-84.	1.8	119
65	Influence of Humans on Evolution and Mobilization of Environmental Antibiotic Resistome. Emerging Infectious Diseases, 2013, 19, .	2.0	118
66	Aminoglycoside Antibiotics. Advances in Experimental Medicine and Biology, 1998, , 27-69.	0.8	116
67	Antibiotic resistance is ancient: implications for drug discovery. Trends in Microbiology, 2012, 20, 157-159.	3.5	116
68	The Antibiotic Resistome: A Guide for the Discovery of Natural Products as Antimicrobial Agents. Chemical Reviews, 2021, 121, 3464-3494.	23.0	114
69	Unlocking the potential of natural products in drug discovery. Microbial Biotechnology, 2019, 12, 55-57.	2.0	112
70	The Genomic Enzymology of Antibiotic Resistance. Annual Review of Genetics, 2010, 44, 25-51.	3.2	109
71	Aminoglycoside phosphotransferases: proteins, structure, and mechanism. Frontiers in Bioscience - Landmark, 1999, 4, d9.	3.0	108
72	Coronavirus Disease 2019 and Antimicrobial Resistance: Parallel and Interacting Health Emergencies. Clinical Infectious Diseases, 2021, 72, 1657-1659.	2.9	104

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73	Bioinformatics of antimicrobial resistance in the age of molecular epidemiology. Current Opinion in Microbiology, 2015, 27, 45-50.	2.3	103
74	D-Alanyl-D-alanine ligases and the molecular mechanism of vancomycin resistance. Accounts of Chemical Research, 1992, 25, 468-473.	7.6	102
75	A Common Platform for Antibiotic Dereplication and Adjuvant Discovery. Cell Chemical Biology, 2017, 24, 98-109.	2.5	95
76	Inhibition of Aminoglycoside Antibiotic Resistance Enzymes by Protein Kinase Inhibitors. Journal of Biological Chemistry, 1997, 272, 24755-24758.	1.6	93
77	Prodigious substrate specificity of AAC(6â€²)-APH(2â€²'), an aminoglycoside antibiotic resistance determinant in enterococci and staphylococci. Chemistry and Biology, 1999, 6, 99-110.	6.2	93
78	Chemical biology of tetracycline antibioticsThis paper is one of a selection of papers published in this Special Issue, entitled CSBMCB â€" Systems and Chemical Biology, and has undergone the Journal's usual peer review process.. Biochemistry and Cell Biology, 2008, 86, 124-136.	0.9	93
79	Plazomicin Retains Antibiotic Activity against Most Aminoglycoside Modifying Enzymes. ACS Infectious Diseases, 2018, 4, 980-987.	1.8	91
80	Prediction of Synergism from Chemical-Genetic Interactions by Machine Learning. Cell Systems, 2015, 1, 383-395.	2.9	89
81	Inhibitors of metallo-Î²-lactamases. Current Opinion in Microbiology, 2017, 39, 96-105.	2.3	89
82	Iron and citrate export by a major facilitator superfamily pump regulates metabolism and stress resistance in <i>Salmonella</i> Typhimurium. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12054-12059.	3.3	88
83	Structural basis for a new tetracycline resistance mechanism relying on the TetX monooxygenase. FEBS Letters, 2011, 585, 1061-1066.	1.3	87
84	Analysis of the Ï€-Ï€ Stacking Interactions between the Aminoglycoside Antibiotic Kinase APH(3â€²)-IIIa and Its Nucleotide Ligands. Chemistry and Biology, 2002, 9, 1209-1217.	6.2	84
85	Multicopy Suppressors for Novel Antibacterial Compounds Reveal Targets and Drug Efflux Susceptibility. Chemistry and Biology, 2004, 11, 1423-1430.	6.2	83
86	The antibiotic resistome. Expert Opinion on Drug Discovery, 2010, 5, 779-788.	2.5	83
87	Mechanism and Diversity of the Erythromycin Esterase Family of Enzymes. Biochemistry, 2012, 51, 1740-1751.	1.2	83
88	Aminoglycoside antibiotic phosphotransferases are also serine protein kinases. Chemistry and Biology, 1999, 6, 11-18.	6.2	80
89	Streptogramin Antibiotics: Mode of Action and Resistance. Current Drug Targets, 2002, 3, 335-344.	1.0	80
90	Molecular Mechanism of Avibactam-Mediated Î²-Lactamase Inhibition. ACS Infectious Diseases, 2015, 1, 175-184.	1.8	80

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91	Broad-Spectrum Peptide Inhibitors of Aminoglycoside Antibiotic Resistance Enzymes. Chemistry and Biology, 2003, 10, 189-196.	6.2	79
92	Kinetic Mechanism of the GCN5-Related Chromosomal Aminoglycoside Acetyltransferase AAC(6â€˜)-Ii fromEnterococcus faecium:Â Evidence of Dimer Subunit Cooperativityâ€. Biochemistry, 2003, 42, 6565-6574.	1.2	74
93	Synthesis and Structureâˆ’Activity Relationships of Truncated Bisubstrate Inhibitors of Aminoglycoside 6â€˜-N-Acetyltransferases. Journal of Medicinal Chemistry, 2006, 49, 5273-5281.	2.9	74
94	Bacterial Inactivation of the Anticancer Drug Doxorubicin. Chemistry and Biology, 2012, 19, 1255-1264.	6.2	73
95	Antibiotic Resistance by Enzymatic Modification of Antibiotic Targets. Trends in Molecular Medicine, 2020, 26, 768-782.	3.5	73
96	A Small Molecule Discrimination Map of the Antibiotic Resistance Kinome. Chemistry and Biology, 2011, 18, 1591-1601.	6.2	72
97	Structure and Mechanism of the Lincosamide Antibiotic Adenylyltransferase LinB. Structure, 2009, 17, 1649-1659.	1.6	70
98	A Forward Chemical Screen Identifies Antibiotic Adjuvants in <i>Escherichia coli</i>. ACS Chemical Biology, 2012, 7, 1547-1555.	1.6	69
99	An Antifungal Combination Matrix Identifies a Rich Pool of Adjuvant Molecules that Enhance Drug Activity against Diverse Fungal Pathogens. Cell Reports, 2015, 13, 1481-1492.	2.9	68
100	Hidden antibiotics in actinomycetes can be identified by inactivation of gene clusters for common antibiotics. Nature Biotechnology, 2019, 37, 1149-1154.	9.4	68
101	Phylogenetic reconciliation reveals the natural history of glycopeptide antibiotic biosynthesis and resistance. Nature Microbiology, 2019, 4, 1862-1871.	5.9	67
102	Kinetic Mechanism of Aminoglycoside Phosphotransferase Type IIIa. Journal of Biological Chemistry, 1995, 270, 24686-24692.	1.6	65
103	Antibiotic Resistance by Enzyme Inactivation: From Mechanisms to Solutions. ChemBioChem, 2010, 11, 1325-1334.	1.3	65
104	Structure and Function of Sedoheptulose-7-phosphate Isomerase, a Critical Enzyme for Lipopolysaccharide Biosynthesis and a Target for Antibiotic Adjuvants. Journal of Biological Chemistry, 2008, 283, 2835-2845.	1.6	63
105	Capturing the Resistome: a Targeted Capture Method To Reveal Antibiotic Resistance Determinants in Metagenomes. Antimicrobial Agents and Chemotherapy, 2019, 64, .	1.4	63
106	Molecular Mechanism of Aminoglycoside Antibiotic Kinase APH(3â€²)-IIIa. Journal of Biological Chemistry, 2001, 276, 23929-23936.	1.6	61
107	Transformation of the Anticancer Drug Doxorubicin in the Human Gut Microbiome. ACS Infectious Diseases, 2018, 4, 68-76.	1.8	61
108	Antibiotic resistance: itâ€™s bad, but why isnâ€™t it worse?. BMC Biology, 2017, 15, 84.	1.7	60

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109	Cystathionine Î²-Lyase Is Important for Virulence of Salmonella enterica Serovar Typhimurium. Infection and Immunity, 2004, 72, 3310-3314.	1.0	59
110	A rifamycin inactivating phosphotransferase family shared by environmental and pathogenic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7102-7107.	3.3	59
111	Vgb from Staphylococcus aureus Inactivates Streptogramin B Antibiotics by an Elimination Mechanism Not Hydrolysis. Biochemistry, 2001, 40, 8877-8886.	1.2	57
112	Forces shaping the antibiotic resistome. BioEssays, 2014, 36, 1179-1184.	1.2	56
113	Antimicrobial Resistance and Respiratory Infections. Chest, 2018, 154, 1202-1212.	0.4	56
114	Role of Homoserine Transacetylase as a New Target for Antifungal Agents. Antimicrobial Agents and Chemotherapy, 2007, 51, 1731-1736.	1.4	55
115	Diversity-Oriented Synthesis and Preliminary Biological Screening of Highly Substituted Five-Membered Lactones and Lactams Originating From an Allyboration of Aldehydes and Imines. ACS Combinatorial Science, 2009, 11, 155-168.	3.3	54
116	One-pot chemoenzymatic preparation of coenzyme A analogues. Analytical Biochemistry, 2004, 324, 100-105.	1.1	53
117	Domainâˆ’Domain Interactions in the Aminoglycoside Antibiotic Resistance Enzyme AAC(6â€˜)-APH(2â€˜Ââ€˜)â€. Biochemistry, 2004, 43, 9846-9855.	1.2	53
118	Induction of antimicrobial activities in heterologous streptomycetes using alleles of the Streptomyces coelicolor gene absA1. Journal of Antibiotics, 2010, 63, 177-182.	1.0	53
119	A Cryptic Polyene Biosynthetic Gene Cluster in Streptomyces calvus Is Expressed upon Complementation with a Functional bldA Gene. Chemistry and Biology, 2013, 20, 1214-1224.	6.2	53
120	An In Vitro Screen of Bacterial Lipopolysaccharide Biosynthetic Enzymes Identifies an Inhibitor of ADP-Heptose Biosynthesis. Chemistry and Biology, 2006, 13, 437-441.	6.2	52
121	Inactivation of the Lipopeptide Antibiotic Daptomycin by Hydrolytic Mechanisms. Antimicrobial Agents and Chemotherapy, 2012, 56, 757-764.	1.4	52
122	Structural and Kinetic Characterization of Diazabicyclooctanes as Dual Inhibitors of Both Serine-Î²-Lactamases and Penicillin-Binding Proteins. ACS Chemical Biology, 2016, 11, 864-868.	1.6	52
123	Prospects for Antibacterial Discovery and Development. Journal of the American Chemical Society, 2021, 143, 21127-21142.	6.6	51
124	Catalytic Mechanism of Enterococcal Kanamycin Kinase (APH(3â€˜)-IIIa):â€‰ Viscosity, Thio, and Solvent Isotope Effects Support a Theorellâˆ’Chance Mechanism. Biochemistry, 1996, 35, 8680-8685.	1.2	50
125	Zinc Chelation by a Small-Molecule Adjuvant Potentiates Meropenem Activity in Vivo against NDM-1-Producing <i>Klebsiella pneumoniae</i>. ACS Infectious Diseases, 2015, 1, 533-543.	1.8	50
126	An irresistible newcomer. Nature, 2015, 517, 442-444.	13.7	50

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127	Total Synthesis and Activity of the Metalloâ€Î²â€lactamase Inhibitor Aspergillomarasmineâ€…A. Angewandte Chemie - International Edition, 2016, 55, 2210-2212.	7.2	50
128	The evolution of substrate discrimination in macrolide antibiotic resistance enzymes. Nature Communications, 2018, 9, 112.	5.8	50
129	Structural and Molecular Basis for Resistance to Aminoglycoside Antibiotics by the Adenylyltransferase ANT(2â€³)-Ia. MBio, 2015, 6, .	1.8	49
130	Crystal structures of homoserine dehydrogenase suggest a novel catalytic mechanism for oxidoreductases. Nature Structural Biology, 2000, 7, 238-244.	9.7	48
131	Rox, a Rifamycin Resistance Enzyme with an Unprecedented Mechanism of Action. Cell Chemical Biology, 2018, 25, 403-412.e5.	2.5	48
132	Probing the Interaction of Aspergillomarasmine A with Metallo-Î²-lactamases NDM-1, VIM-2, and IMP-7. ACS Infectious Diseases, 2018, 4, 135-145.	1.8	48
133	Regiospecificity of Aminoglycoside Phosphotransferase from Enterococci and Staphylococci (APH(3â€˜)-IIIa). Biochemistry, 1996, 35, 8686-8695.	1.2	46
134	Characterization of a Rifampin-Inactivating Glycosyltransferase from a Screen of Environmental Actinomycetes. Antimicrobial Agents and Chemotherapy, 2012, 56, 5061-5069.	1.4	46
135	A molecular portrait of maternal sepsis from Byzantine Troy. ELife, 2017, 6, .	2.8	46
136	Palmitoylâ€<scp>dl</scp>â€Carnitine is a Multitarget Inhibitor of <i>Pseudomonas aeruginosa</i> Biofilm Development. ChemBioChem, 2011, 12, 2759-2766.	1.3	45
137	Vancomycin-Variable Enterococci Can Give Rise to Constitutive Resistance during Antibiotic Therapy. Antimicrobial Agents and Chemotherapy, 2015, 59, 1405-1410.	1.4	45
138	Opportunities for Synthetic Biology in Antibiotics: Expanding Glycopeptide Chemical Diversity. ACS Synthetic Biology, 2015, 4, 195-206.	1.9	45
139	Crystal Structure of Homoserine Transacetylase fromHaemophilus influenzaeReveals a New Family of Î±/Î²-Hydrolasesâ€,â€¡. Biochemistry, 2005, 44, 15768-15773.	1.2	44
140	Isolation of flavonoids from the heartwood and resin of Prunus avium and some preliminary biological investigations. Phytochemistry, 2009, 70, 2040-2046.	1.4	44
141	Inhibition of the ANT(2â€³)-Ia resistance enzyme and rescue of aminoglycoside antibiotic activity by synthetic Î±-hydroxytropolones. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4943-4947.	1.0	44
142	Molecular Mechanism of the Enterococcal Aminoglycoside 6â€˜-N-Acetyltransferaseâ€˜:â€‰ Role of GNAT-Conserved Residues in the Chemistry of Antibiotic Inactivation. Biochemistry, 2004, 43, 446-454.	1.2	43
143	Small-Molecule Modulators of Listeria monocytogenes Biofilm Development. Applied and Environmental Microbiology, 2012, 78, 1454-1465.	1.4	43
144	Structure-guided optimization of protein kinase inhibitors reverses aminoglycoside antibiotic resistance. Biochemical Journal, 2013, 454, 191-200.	1.7	43

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145	Mechanism of Aminoglycoside Antibiotic Kinase APH(3â€˜)-IIIa:Â Role of the Nucleotide Positioning Loopâ€. Biochemistry, 2002, 41, 7001-7007.	1.2	42
146	Structural basis for streptogramin B resistance in Staphylococcus aureus by virginiamycin B lyase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10388-10393.	3.3	42
147	Biosynthesis of the Fluorinated Natural Product Nucleocidin in <i>Streptomyces calvus</i> Is Dependent on the <i>bldA</i>â€Specified Leuâ€tRNA^{UUA} Molecule. ChemBioChem, 2015, 16, 2498-2506.	1.3	41
148	Synthesis and inhibitory action on HMG-CoA synthase of racemic and optically active oxetan-2-ones (Î²-Lactones). Bioorganic and Medicinal Chemistry, 1998, 6, 1255-1272.	1.4	40
149	An unusual class of anthracyclines potentiate Gram-positive antibiotics in intrinsically resistant Gram-negative bacteria. Journal of Antimicrobial Chemotherapy, 2014, 69, 1844-1855.	1.3	40
150	Evolving medicinal chemistry strategies in antibiotic discovery. Current Opinion in Biotechnology, 2016, 42, 108-117.	3.3	39
151	Environmental and clinical antibiotic resistomes, same only different. Current Opinion in Microbiology, 2019, 51, 57-63.	2.3	39
152	Inhibitors of Bacterial Cystathionine Î²-Lyase:Â Leads for New Antimicrobial Agents and Probes of Enzyme Structure and Function. Journal of Medicinal Chemistry, 2007, 50, 755-764.	2.9	38
153	Total Synthesis of Aspergillomarasmineâ€…A and Related Compounds: A Sulfamidate Approach Enables Exploration of Structureâ€“Activity Relationships. Angewandte Chemie - International Edition, 2016, 55, 13259-13262.	7.2	38
154	The COOH Terminus of Aminoglycoside Phosphotransferase (3â€²)-IIIa Is Critical for Antibiotic Recognition and Resistance. Journal of Biological Chemistry, 1999, 274, 30697-30706.	1.6	37
155	Structure and Function of the Glycopeptide N-methyltransferase MtfA, a Tool for the Biosynthesis of Modified Glycopeptide Antibiotics. Chemistry and Biology, 2009, 16, 401-410.	6.2	37
156	Rifampin phosphotransferase is an unusual antibiotic resistance kinase. Nature Communications, 2016, 7, 11343.	5.8	36
157	Heterologous expression-facilitated natural productsâ€™ discovery in actinomycetes. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 415-431.	1.4	36
158	Imipridone Anticancer Compounds Ectopically Activate the ClpP Protease and Represent a New Scaffold for Antibiotic Development. Genetics, 2020, 214, 1103-1120.	1.2	36
159	On the Road to Bacterial Cell Death. Cell, 2007, 130, 781-783.	13.5	35
160	Venturicidin A, A Membrane-active Natural Product Inhibitor of ATP synthase Potentiates Aminoglycoside Antibiotics. Scientific Reports, 2020, 10, 8134.	1.6	35
161	Arrangement of Substrates at the Active Site of an Aminoglycoside Antibiotic 3â€˜-Phosphotransferase As Determined by NMR. Journal of the American Chemical Society, 1996, 118, 1295-1301.	6.6	34
162	Biosynthesis of Sulfated Glycopeptide Antibiotics by Using the Sulfotransferase StaL. Chemistry and Biology, 2006, 13, 171-181.	6.2	33

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163	Active site labeling of the gentamicin resistance enzyme AAC(6â€²)-APH(2â€³) by the lipid kinase inhibitor wortmannin. Chemistry and Biology, 2001, 8, 791-800.	6.2	32
164	Diversity of Integron- and Culture-Associated Antibiotic Resistance Genes in Freshwater Floc. Applied and Environmental Microbiology, 2012, 78, 4367-4372.	1.4	32
165	The Origins of Antibiotic Resistance. Handbook of Experimental Pharmacology, 2012, , 13-30.	0.9	32
166	StoPK-1, a serine/threonine protein kinase from the glycopeptide antibiotic producer Streptomyces toyocaensis NRRL 15009, affects oxidative stress response. Molecular Microbiology, 2002, 44, 417-430.	1.2	31
167	Solution Studies of Isepamicin and Conformational Comparisons between Isepamicin and Butirosin A When Bound to an Aminoglycoside 6â€˜-N-Acetyltransferase Determined by NMR Spectroscopy. Biochemistry, 1998, 37, 3638-3644.	1.2	30
168	The Wall Teichoic Acid Polymerase TagF Efficiently Synthesizes Poly(glycerol phosphate) on the TagB Product Lipid III. ChemBioChem, 2008, 9, 1385-1390.	1.3	30
169	Nucleotide Selectivity of Antibiotic Kinases. Antimicrobial Agents and Chemotherapy, 2010, 54, 1909-1913.	1.4	30
170	Structure and Function of APH(4)-Ia, a Hygromycin B Resistance Enzyme. Journal of Biological Chemistry, 2011, 286, 1966-1975.	1.6	30
171	Self Resistance to the Atypical Cationic Antimicrobial Peptide Edeine of Brevibacillus brevis Vm4 by the N-Acetyltransferase EdeQ. Chemistry and Biology, 2013, 20, 983-990.	6.2	30
172	Harnessing the Synthetic Capabilities of Glycopeptide Antibiotic Tailoring Enzymes: Characterization of the UKâ€68,597 Biosynthetic Cluster. ChemBioChem, 2014, 15, 2613-2623.	1.3	30
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