

Michel Arthur

List of Publications by Year in descending order

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149
papers

8,944
citations

34076

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h-index

49868

87
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162
all docs

162
docs citations

162
times ranked

5075
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular basis for vancomycin resistance in <i>Enterococcus faecium</i> BM4147: biosynthesis of a depsipeptide peptidoglycan precursor by vancomycin resistance proteins VanH and VanA. <i>Biochemistry</i> , 1991, 30, 10408-10415.	1.2	628
2	Glycopeptide resistance in enterococci. <i>Trends in Microbiology</i> , 1996, 4, 401-407.	3.5	387
3	The Peptidoglycan of Stationary-Phase <i>Mycobacterium tuberculosis</i> Predominantly Contains Cross-Links Generated by Δ -Transpeptidation. <i>Journal of Bacteriology</i> , 2008, 190, 4360-4366.	1.0	300
4	Identification of vancomycin resistance protein VanA as a D-alanine:D-alanine ligase of altered substrate specificity. <i>Biochemistry</i> , 1991, 30, 2017-2021.	1.2	242
5	The <i>Mycobacterium tuberculosis</i> protein LdtMt2 is a nonclassical transpeptidase required for virulence and resistance to amoxicillin. <i>Nature Medicine</i> , 2010, 16, 466-469.	15.2	242
6	Glycopeptide resistance mediated by enterococcal transposon Tn 1546 requires production of VanX for hydrolysis of D-alanyl-D-alanine. <i>Molecular Microbiology</i> , 1994, 13, 1065-1070.	1.2	210
7	A Novel Peptidoglycan Cross-linking Enzyme for a β -Lactam-resistant Transpeptidation Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 38146-38152.	1.6	192
8	Quantitative analysis of the metabolism of soluble cytoplasmic peptidoglycan precursors of glycopeptide-resistant enterococci. <i>Molecular Microbiology</i> , 1996, 21, 33-44.	1.2	184
9	Sequence of the vanC gene of <i>Enterococcus gallinarum</i> BM4174 encoding a d-alanine:d-alanine ligase-related protein necessary for vancomycin resistance. <i>Gene</i> , 1992, 112, 53-58.	1.0	160
10	The vanZ gene of Tn1546 from <i>enterococcus faecium</i> BM4147 confers resistance to teicoplanin. <i>Gene</i> , 1995, 154, 87-92.	1.0	159
11	Evolution of peptidoglycan biosynthesis under the selective pressure of antibiotics in Gram-positive bacteria. <i>FEMS Microbiology Reviews</i> , 2008, 32, 386-408.	3.9	159
12	Identification of the Δ , Δ -Transpeptidases Responsible for Attachment of the Braun Lipoprotein to <i>Escherichia coli</i> Peptidoglycan. <i>Journal of Bacteriology</i> , 2007, 189, 3927-3931.	1.0	153
13	The VANA glycopeptide resistance protein is related to d-alanyl-d-alanine ligase cell wall biosynthesis enzymes. <i>Molecular Genetics and Genomics</i> , 1990, 224, 364-372.	2.4	147
14	Identification of the Δ -Transpeptidases for Peptidoglycan Cross-Linking in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2008, 190, 4782-4785.	1.0	144
15	Origin and evolution of genes specifying resistance to macrolide, lincosamide and streptogramin antibiotics: data and hypotheses. <i>Journal of Antimicrobial Chemotherapy</i> , 1987, 20, 783-802.	1.3	137
16	Factors essential for L,D-transpeptidase-mediated peptidoglycan cross-linking and β -lactam resistance in <i>Escherichia coli</i> . <i>ELife</i> , 2016, 5, .	2.8	137
17	Novel Mechanism of β -Lactam Resistance Due to Bypass of DD-Transpeptidation in <i>Enterococcus faecium</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 16490-16496.	1.6	132
18	Inactivation of <i>Mycobacterium tuberculosis</i> Δ , Δ -Transpeptidase LdtMt1 by Carbapenems and Cephalosporins. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 4189-4195.	1.4	131

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19	β -Lactamase inhibition by avibactam in <i>Mycobacterium abscessus</i> . Journal of Antimicrobial Chemotherapy, 2015, 70, 1051-1058.	1.3	126
20	<i>In Vitro</i> Cross-Linking of <i>Mycobacterium tuberculosis</i> Peptidoglycan by <i>l</i> , <i>d</i> -Transpeptidases and Inactivation of These Enzymes by Carbapenems. Antimicrobial Agents and Chemotherapy, 2013, 57, 5940-5945.	1.4	124
21	Regulation of VanA- and VanB-Type Glycopeptide Resistance in Enterococci. Antimicrobial Agents and Chemotherapy, 2001, 45, 375-381.	1.4	115
22	Unexpected Inhibition of Peptidoglycan LD-Transpeptidase from <i>Enterococcus faecium</i> by the β -Lactam Imipenem. Journal of Biological Chemistry, 2007, 282, 30414-30422.	1.6	115
23	Covalent attachment of proteins to peptidoglycan. FEMS Microbiology Reviews, 2008, 32, 307-320.	3.9	114
24	Crystal Structure of a Novel β -Lactam-insensitive Peptidoglycan Transpeptidase. Journal of Molecular Biology, 2006, 359, 533-538.	2.0	110
25	Role of Class A Penicillin-Binding Proteins in PBP5-Mediated β -Lactam Resistance in <i>Enterococcus faecalis</i> . Journal of Bacteriology, 2004, 186, 1221-1228.	1.0	108
26	Requirement of the VanY and VanX D,D-peptidases for glycopeptide resistance in enterococci. Molecular Microbiology, 1998, 30, 819-830.	1.2	102
27	Mechanisms of glycopeptide resistance in enterococci. Journal of Infection, 1996, 32, 11-16.	1.7	101
28	Structural relationship between the vancomycin resistance protein VanH and 2-hydroxycarboxylic acid dehydrogenases. Gene, 1991, 103, 133-134.	1.0	97
29	Characterization of broad-spectrum <i>Mycobacterium abscessus</i> class A β -lactamase. Journal of Antimicrobial Chemotherapy, 2014, 69, 691-696.	1.3	95
30	Mutations leading to increased levels of resistance to glycopeptide antibiotics in VanB type enterococci. Molecular Microbiology, 1997, 25, 93-105.	1.2	93
31	Rapid Cytolysis of <i>Mycobacterium tuberculosis</i> by Faropenem, an Orally Bioavailable β -Lactam Antibiotic. Antimicrobial Agents and Chemotherapy, 2015, 59, 1308-1319.	1.4	92
32	The Peptidoglycan of <i>Mycobacterium abscessus</i> Is Predominantly Cross-Linked by <i>l</i> , <i>d</i> -Transpeptidases. Journal of Bacteriology, 2011, 193, 778-782.	1.0	91
33	The CroRS Two-Component Regulatory System Is Required for Intrinsic β -Lactam Resistance in <i>Enterococcus faecalis</i> . Journal of Bacteriology, 2003, 185, 7184-7192.	1.0	90
34	Functional Analysis of AtIA, the Major N -Acetylglucosaminidase of <i>Enterococcus faecalis</i> . Journal of Bacteriology, 2006, 188, 8513-8519.	1.0	90
35	Analysis of the nucleotide sequence of the <i>ereB</i> gene encoding the erythromycin esterase type II. Nucleic Acids Research, 1986, 14, 4987-4999.	6.5	88
36	AslFm, the D-Aspartate Ligase Responsible for the Addition of D-Aspartic Acid onto the Peptidoglycan Precursor of <i>Enterococcus faecium</i> . Journal of Biological Chemistry, 2006, 281, 11586-11594.	1.6	85

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37	Role of Penicillin-Binding Protein 5 in Expression of Ampicillin Resistance and Peptidoglycan Structure in <i>Enterococcus faecium</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2001, 45, 2594-2597.	1.4	82
38	Balance between Two Transpeptidation Mechanisms Determines the Expression of $\hat{1}^2$ -Lactam Resistance in <i>Enterococcus faecium</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 35801-35807.	1.6	78
39	Specificity of L,D-Transpeptidases from Gram-positive Bacteria Producing Different Peptidoglycan Chemotypes. <i>Journal of Biological Chemistry</i> , 2007, 282, 13151-13159.	1.6	78
40	Impaired Inhibition by Avibactam and Resistance to the Ceftazidime-Avibactam Combination Due to the D ¹⁷⁹ Y Substitution in the KPC-2 $\hat{1}^2$ -Lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	76
41	Characterization and modelling of VanT: a novel, membrane-bound, serine racemase from vancomycin-resistant <i>Enterococcus gallinarum</i> BM4174. <i>Molecular Microbiology</i> , 1999, 31, 1653-1664.	1.2	75
42	Quantitative high-performance liquid chromatography analysis of the pool levels of undecaprenyl phosphate and its derivatives in bacterial membranes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 213-220.	1.2	75
43	Moderate-Level Resistance to Glycopeptide LY333328 Mediated by Genes of the <i>vanA</i> and <i>vanB</i> Clusters in Enterococci. <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1875-1880.	1.4	74
44	Synthesis of Mosaic Peptidoglycan Cross-bridges by Hybrid Peptidoglycan Assembly Pathways in Gram-positive Bacteria. <i>Journal of Biological Chemistry</i> , 2004, 279, 41546-41556.	1.6	74
45	Inhibition of the $\hat{1}^2$ -Lactamase Bla _{Mab} by Avibactam Improves the <i>In Vitro</i> and <i>In Vivo</i> Efficacy of Imipenem against <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	73
46	Crystal Structures of <i>Weissella viridescens</i> FemX and Its Complex with UDP-MurNAc-Pentapeptide: Insights into FemABX Family Substrates Recognition. <i>Structure</i> , 2004, 12, 257-267.	1.6	71
47	Human- and Plant-Pathogenic <i>Pseudomonas</i> Species Produce Bacteriocins Exhibiting Colicin M-Like Hydrolase Activity towards Peptidoglycan Precursors. <i>Journal of Bacteriology</i> , 2009, 191, 3657-3664.	1.0	68
48	Synthesis of the l-Alanyl-l-alanine Cross-bridge of <i>Enterococcus faecalis</i> Peptidoglycan. <i>Journal of Biological Chemistry</i> , 2002, 277, 45935-45941.	1.6	66
49	Role of N-Acetylglucosaminidase and N-Acetylmuramidase Activities in <i>Enterococcus faecalis</i> Peptidoglycan Metabolism. <i>Journal of Biological Chemistry</i> , 2008, 283, 19845-19853.	1.6	66
50	Characterization of CrgA, a New Partner of the <i>Mycobacterium tuberculosis</i> Peptidoglycan Polymerization Complexes. <i>Journal of Bacteriology</i> , 2011, 193, 3246-3256.	1.0	61
51	<i>In vitro</i> activity of ceftazidime and imipenem against <i>Mycobacterium abscessus</i> complex. <i>Clinical Microbiology and Infection</i> , 2014, 20, O297-O300.	2.8	60
52	Copper inhibits peptidoglycan LD-transpeptidases suppressing $\hat{1}^2$ -lactam resistance due to bypass of penicillin-binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10786-10791.	3.3	59
53	Sequence of the <i>vanY</i> gene required for production of a vancomycin-inducible D,D-carboxypeptidase in <i>Enterococcus faecium</i> BM4147. <i>Gene</i> , 1992, 120, 111-114.	1.0	58
54	Kinetic Features of L,D-Transpeptidase Inactivation Critical for $\hat{1}^2$ -Lactam Antibacterial Activity. <i>PLoS ONE</i> , 2013, 8, e67831.	1.1	56

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55	Bactericidal and intracellular activity of β -lactams against <i>Mycobacterium abscessus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 1556-1563.	1.3	55
56	Role of Class A Penicillin-Binding Proteins in the Expression of β -Lactam Resistance in <i>Enterococcus faecium</i> . <i>Journal of Bacteriology</i> , 2009, 191, 3649-3656.	1.0	54
57	Regulated interactions between partner and non-partner sensors and response regulators that control glycopeptide resistance gene expression in enterococci. <i>Microbiology (United Kingdom)</i> , 1999, 145, 1849-1858.	0.7	52
58	Inactivation Kinetics of a New Target of β -Lactam Antibiotics. <i>Journal of Biological Chemistry</i> , 2011, 286, 22777-22784.	1.6	50
59	<i>In Vitro</i> and Intracellular Activity of Imipenem Combined with Tedizolid, Rifabutin, and Avibactam against <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	48
60	Atomic Model of a Cell-Wall Cross-Linking Enzyme in Complex with an Intact Bacterial Peptidoglycan. <i>Journal of the American Chemical Society</i> , 2014, 136, 17852-17860.	6.6	47
61	Synthesis of Stable Aminoacyl-tRNA Analogues Containing Triazole as a Bioisoster of Esters. <i>Chemistry - A European Journal</i> , 2009, 15, 1929-1938.	1.7	46
62	Critical Impact of Peptidoglycan Precursor Amidation on the Activity of <i>l,d</i> -transpeptidases from <i>Enterococcus faecium</i> and <i>Mycobacterium tuberculosis</i> . <i>Chemistry - A European Journal</i> , 2018, 24, 5743-5747.	1.7	44
63	Single-cell analysis of glycopeptide resistance gene expression in teicoplanin-resistant mutants of a VanB-type <i>Enterococcus faecalis</i> . <i>Molecular Microbiology</i> , 1999, 32, 17-28.	1.2	43
64	Idiosyncratic features in tRNAs participating in bacterial cell wall synthesis. <i>Nucleic Acids Research</i> , 2007, 35, 6870-6883.	6.5	42
65	Specificity determinants for the two tRNA substrates of the cyclodipeptide synthase AlbC from <i>Streptomyces noursei</i> . <i>Nucleic Acids Research</i> , 2014, 42, 7247-7258.	6.5	40
66	Identification of the UDP-MurNAc-Pentapeptide: L-Alanine Ligase for Synthesis of Branched Peptidoglycan Precursors in <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , 2001, 183, 5122-5127.	1.0	39
67	Activation of the <i>l,d</i> -transpeptidation peptidoglycan cross-linking pathway by a metallo-carboxypeptidase in <i>Enterococcus faecium</i> . <i>Molecular Microbiology</i> , 2010, 75, 874-885.	1.2	39
68	Inhibition of β -lactamases of mycobacteria by avibactam and clavulanate. <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, dkw546.	1.3	39
69	Methicillin-Susceptible, Vancomycin-Resistant <i>Staphylococcus aureus</i> , Brazil. <i>Emerging Infectious Diseases</i> , 2015, 21, 1844-1848.	2.0	38
70	The β -lactam-sensitive <i>d,d</i> -carboxypeptidase activity of Pbp4 controls the <i>l,d</i> and <i>d,d</i> transpeptidation pathways in <i>Corynebacterium jeikeium</i> . <i>Molecular Microbiology</i> , 2009, 74, 650-661.	1.2	37
71	Impact of β -Lactamase Inhibition on the Activity of Ceftaroline against <i>Mycobacterium tuberculosis</i> and <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 2938-2941.	1.4	37
72	Combinations of β -Lactam Antibiotics Currently in Clinical Trials Are Efficacious in a DHP-I-Deficient Mouse Model of Tuberculosis Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 4997-4999.	1.4	37

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73	Novel Mechanism of Resistance to Glycopeptide Antibiotics in <i>Enterococcus faecium</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 32254-32262.	1.6	36
74	The Structure of FemX _{Wv} in Complex with a Peptidyl-tRNA Conjugate: Mechanism of Aminoacyl Transfer from Ala-tRNA ^{Ala} to Peptidoglycan Precursors. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7278-7281.	7.2	36
75	Structure of <i>Enterococcus faecium</i> β -Transpeptidase Acylated by Ertapenem Provides Insight into the Inactivation Mechanism. <i>ACS Chemical Biology</i> , 2013, 8, 1140-1146.	1.6	36
76	Diaminopimelic Acid Amidation in <i>Corynebacteriales</i> . <i>Journal of Biological Chemistry</i> , 2015, 290, 13079-13094.	1.6	36
77	Aminoacyl-tRNA recognition by the FemX _{Wv} transferase for bacterial cell wall synthesis. <i>Nucleic Acids Research</i> , 2009, 37, 1589-1601.	6.5	35
78	Structure-Based Site-Directed Mutagenesis of the UDP-MurNAc-Pentapeptide-Binding Cavity of the FemX Alanyl Transferase from <i>Weissella viridescens</i> . <i>Journal of Bacteriology</i> , 2005, 187, 3833-3838.	1.0	34
79	Functional and Structural Characterization of PaeM, a Colicin M-like Bacteriocin Produced by <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 37395-37405.	1.6	33
80	In vitro activity of tedizolid against the <i>Mycobacterium abscessus</i> complex. <i>Diagnostic Microbiology and Infectious Disease</i> , 2018, 90, 186-189.	0.8	33
81	Synthesis of Avibactam Derivatives and Activity on β -Lactamases and Peptidoglycan Biosynthesis Enzymes of <i>Mycobacteria</i> . <i>Chemistry - A European Journal</i> , 2018, 24, 8081-8086.	1.7	30
82	Regulation of icosahedral virion capsid size by the in vivo activity of a cloned gene product.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 2428-2432.	3.3	29
83	Dynamics Induced by β -Lactam Antibiotics in the Active Site of <i>Bacillus subtilis</i> β -Transpeptidase. <i>Structure</i> , 2012, 20, 850-861.	1.6	29
84	Reversible inactivation of a peptidoglycan transpeptidase by a β -lactam antibiotic mediated by β -lactam-ring recyclization in the enzyme active site. <i>Scientific Reports</i> , 2017, 7, 9136.	1.6	29
85	Structural insight into YcbB-mediated beta-lactam resistance in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2019, 10, 1849.	5.8	29
86	Stable Analogues of Aminoacyl-tRNA for Inhibition of an Essential Step of Bacterial Cell-Wall Synthesis. <i>Journal of the American Chemical Society</i> , 2007, 129, 12642-12643.	6.6	28
87	Hydrolysis of Clavulanate by <i>Mycobacterium tuberculosis</i> β -Lactamase BlaC Harboring a Canonical SDN Motif. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 5714-5720.	1.4	28
88	In Vitro and Intracellular Activity of Imipenem Combined with Rifabutin and Avibactam against <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	28
89	Two-Step Acquisition of Resistance to the Teicoplanin-Gentamicin Combination by VanB-Type <i>Enterococcus faecalis</i> In Vitro and in Experimental Endocarditis. <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 476-482.	1.4	27
90	The Elucidation of the Structure of <i>Thermotoga maritima</i> Peptidoglycan Reveals Two Novel Types of Cross-link. <i>Journal of Biological Chemistry</i> , 2009, 284, 21856-21862.	1.6	27

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91	Decoding the Logic of the tRNA Regiospecificity of Nonribosomal FemX _{Wv} Aminoacyl Transferase. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5115-5119.	7.2	26
92	Kinetic Analysis of <i>Enterococcus faecium</i> β -, γ -Transpeptidase Inactivation by Carbapenems. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 3409-3412.	1.4	25
93	Serine/Threonine Protein Phosphatase-Mediated Control of the Peptidoglycan Cross-Linking β -, γ - β -Transpeptidase Pathway in <i>Enterococcus faecium</i> . <i>MBio</i> , 2014, 5, e01446-14.	1.8	25
94	Routes of Synthesis of Carbapenems for Optimizing Both the Inactivation of β -, γ -Transpeptidase Ldt _{Mt1} of <i>Mycobacterium tuberculosis</i> and the Stability toward Hydrolysis by β -Lactamase BlaC. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 3427-3438.	2.9	23
95	Peptidoglycan Cross-Linking Activity of β -, γ -Transpeptidases from <i>Clostridium difficile</i> and Inactivation of These Enzymes by β -Lactams. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	23
96	Recognition of Peptidoglycan Fragments by the Transpeptidase PBP4 From <i>Staphylococcus aureus</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 3223.	1.5	23
97	Efficient Access to Peptidyl- ϵ -RNA Conjugates for Picomolar Inhibition of Non-ribosomal FemX _{Wv} Aminoacyl Transferase. <i>Chemistry - A European Journal</i> , 2013, 19, 1357-1363.	1.7	22
98	Peptidoglycan Cross-Linking in Glycopeptide-Resistant Actinomycetales. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 1749-1756.	1.4	22
99	Impact of peptidoglycan ϵ -acetylation on autolytic activities of the <i>Enterococcus faecalis</i> N ϵ -acetylglucosaminidase AtIA and N ϵ -acetylmuramidase AtIB. <i>FEBS Letters</i> , 2009, 583, 3033-3038.	1.3	21
100	Inhibition by Avibactam and Clavulanate of the β -Lactamases KPC-2 and CTX-M-15 Harboring the Substitution N ¹³² G in the Conserved SDN Motif. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	21
101	Combination of Amino Acid Substitutions Leading to CTX-M-15-Mediated Resistance to the Ceftazidime-Avibactam Combination. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	21
102	Fighting resistant tuberculosis with old compounds: the carbapenem paradigm. <i>Clinical Microbiology and Infection</i> , 2011, 17, 1755-1756.	2.8	20
103	Discovery of the first inhibitors of bacterial enzyme d-aspartate ligase from <i>Enterococcus faecium</i> (Aslfm). <i>European Journal of Medicinal Chemistry</i> , 2013, 67, 208-220.	2.6	19
104	Bactericidal Activity of Gentamicin against <i>Enterococcus faecalis</i> In Vitro and In Vivo. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 2077-2080.	1.4	17
105	Colicin M, a peptidoglycan lipid-II-degrading enzyme: potential use for antibacterial means?. <i>Biochemical Society Transactions</i> , 2012, 40, 1522-1527.	1.6	17
106	Characterization of Colicin M and its Orthologs Targeting Bacterial Cell Wall Peptidoglycan Biosynthesis. <i>Microbial Drug Resistance</i> , 2012, 18, 222-229.	0.9	17
107	Involvement of the Eukaryote-Like Kinase-Phosphatase System and a Protein That Interacts with Penicillin-Binding Protein 5 in Emergence of Cephalosporin Resistance in Cephalosporin-Sensitive Class A Penicillin-Binding Protein Mutants in <i>Enterococcus faecium</i> . <i>MBio</i> , 2016, 7, e02188-15.	1.8	17
108	Diazabicyclooctane Functionalization for Inhibition of β -Lactamases from Enterobacteria. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 5257-5273.	2.9	17

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109	Ceftazidime-Avibactam Resistance Mediated by the N ³⁴⁶ Y Substitution in Various AmpC β -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	1.4	17
110	The <i>In Vitro</i> Contribution of Autolysins to Bacterial Killing Elicited by Amoxicillin Increases with Inoculum Size in <i>Enterococcus faecalis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 910-912.	1.4	15
111	Colicin M hydrolyses branched lipids II from Gram-positive bacteria. <i>Biochimie</i> , 2012, 94, 985-990.	1.3	15
112	Expression of Glycopeptide Resistance Gene in Response to Vancomycin and Teicoplanin in the Cardiac Vegetations of Rabbits Infected with VanB-type <i>Enterococcus faecalis</i> . <i>Journal of Infectious Diseases</i> , 2004, 189, 90-97.	1.9	13
113	Role of endopeptidases in peptidoglycan synthesis mediated by alternative cross-linking enzymes in <i>Escherichia coli</i> . <i>EMBO Journal</i> , 2021, 40, e108126.	3.5	13
114	Electrophilic RNA for Peptidyl RNA Synthesis and Site-Specific Cross-Linking with tRNA-Binding Enzymes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13553-13557.	7.2	11
115	Activity-Based Protein Profiling Reveals That Cephalosporins Selectively Active on Non-replicating <i>Mycobacterium tuberculosis</i> Bind Multiple Protein Families and Spare Peptidoglycan Transpeptidases. <i>Frontiers in Microbiology</i> , 2020, 11, 1248.	1.5	11
116	Heterogeneity of genes conferring high-level resistance to erythromycin by inactivation in enterobacteria. <i>Annales De L'Institut Pasteur Microbiologie</i> , 1986, 137, 125-134.	0.8	10
117	Contribution of the Autolysin AtIA to the Bactericidal Activity of Amoxicillin against <i>Enterococcus faecalis</i> JH2-2. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 1667-1669.	1.4	10
118	Vancomycin sensing. <i>Nature Chemical Biology</i> , 2010, 6, 313-315.	3.9	10
119	Cleavage Specificity of <i>Enterococcus faecalis</i> EnpA (EF1473), a Peptidoglycan Endopeptidase Related to the LytM/Lysostaphin Family of Metallopeptidases. <i>Journal of Molecular Biology</i> , 2010, 398, 507-517.	2.0	10
120	Tryptophan Fluorescence Quenching in β -Lactam-Interacting Proteins Is Modulated by the Structure of Intermediates and Final Products of the Acylation Reaction. <i>ACS Infectious Diseases</i> , 2019, 5, 1169-1176.	1.8	9
121	Electrophilic RNA for Peptidyl RNA Synthesis and Site-Specific Cross-Linking with tRNA-Binding Enzymes. <i>Angewandte Chemie</i> , 2016, 128, 13751-13755.	1.6	8
122	A phasmid shuttle vector for the cloning of complex operons in <i>Salmonella</i> . <i>Plasmid</i> , 1990, 23, 42-58.	0.4	7
123	Mutation Landscape of Acquired Cross-Resistance to Glycopeptide and β -Lactam Antibiotics in <i>Enterococcus faecium</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 5306-5315.	1.4	7
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