Alexander Tomasz

List of Publications by Year
in descending order

303	35,956	3334 91	4116 175
papers	citations	h-index	g-index

312	312	312	24856
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genome sequencing in microfabricated high-density picolitre reactors. Nature, 2005, 437, 376-380.	27.8	6,669
2	Tackling antibiotic resistance. Nature Reviews Microbiology, 2011, 9, 894-896.	28.6	919
3	Rapid Pneumococcal Evolution in Response to Clinical Interventions. Science, 2011, 331, 430-434.	12.6	828
4	CD14 Is a pattern recognition receptor. Immunity, 1994, 1, 509-516.	14.3	675
5	The Development of Vancomycin Resistance in a Patient with Methicillin-ResistantStaphylococcus aureusInfection. New England Journal of Medicine, 1999, 340, 517-523.	27.0	603
6	Tracking the <i>in vivo</i> evolution of multidrug resistance in <i>Staphylococcus aureus</i> by whole-genome sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9451-9456.	7.1	557
7	Nomenclature of Major Antimicrobial-Resistant Clones of Streptococcus pneumoniae Defined by the Pneumococcal Molecular Epidemiology Network. Journal of Clinical Microbiology, 2001, 39, 2565-2571.	3.9	479
8	Intercontinental Spread of a Multiresistant Clone of Serotype 23F Streptococcus pneumoniae. Journal of Infectious Diseases, 1991, 164, 302-306.	4.0	463
9	Multiple Antibiotic Resistance in a Bacterium with Suppressed Autolytic System. Nature, 1970, 227, 138-140.	27.8	457
10	Secrets of success of a human pathogen: molecular evolution of pandemic clones of meticillin-resistant Staphylococcus aureus. Lancet Infectious Diseases, The, 2002, 2, 180-189.	9.1	428
11	Horizontal transfer of penicillin-binding protein genes in penicillin-resistant clinical isolates of Streptococcus pneumoniae.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 8842-8846.	7.1	411
12	Multiple-Antibiotic-Resistant Pathogenic Bacteria -- A Report on the Rockefeller University Workshop. New England Journal of Medicine, 1994, 330, 1247-1251.	27.0	386
13	Mechanisms of vancomycin resistance in Staphylococcus aureus. Journal of Clinical Investigation, 2014, 124, 2836-2840.	8.2	385
14	The Induction of Meningeal Inflammation by Components of the Pneumococcal Cell Wall. Journal of Infectious Diseases, 1985, 151, 859-868.	4.0	373
15	Evidence for the Introduction of a Multiresistant Clone of Serotype 6B Streptococcus pneumoniae from Spain to Iceland in the Late 1980s. Journal of Infectious Diseases, 1993, 168, 158-163.	4.0	358
16	An acquired and a native penicillin-binding protein cooperate in building the cell wall of drug-resistant staphylococci. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10886-10891.	7.1	312
17	New mechanism for methicillin resistance in Staphylococcus aureus: clinical isolates that lack the PBP 2a gene and contain normal penicillin-binding proteins with modified penicillin-binding capacity. Antimicrobial Agents and Chemotherapy, 1989, 33, 1869-1874.	3.2	290
18	Stable classes of phenotypic expression in methicillin-resistant clinical isolates of staphylococci. Antimicrobial Agents and Chemotherapy, 1991, 35, 124-129.	3.2	289

#	Article	IF	Citations
19	Expression of methicillin resistance in heterogeneous strains of Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 1986, 29, 85-92.	3.2	286
20	Choline-containing Teichoic Acid As a Structural Component of Pneumococcal Cell Wall and Its Role in Sensitivity to Lysis by an Autolytic Enzyme. Journal of Biological Chemistry, 1970, 245, 287-298.	3.4	284
21	Extremely High Incidence of Antibiotic Resistance in Clinical Isolates of Streptococcus pneumoniae in Hungary. Journal of Infectious Diseases, 1991, 163, 542-548.	4.0	281
22	The evolution of methicillin resistance in Staphylococcus aureus: Similarity of genetic backgrounds in historically early methicillin-susceptible and -resistant isolates and contemporary epidemic clones. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 9865-9870.	7.1	277
23	A Staphylococcus aureus autolysin that has an N-acetylmuramoyl-L-alanine amidase domain and an endo-beta-N-acetylglucosaminidase domain: cloning, sequence analysis, and characterization.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 285-289.	7.1	273
24	The Evolution of Pandemic Clones of Methicillin-ResistantStaphylococcus aureus: Identification of Two Ancestral Genetic Backgrounds and the AssociatedmecElements. Microbial Drug Resistance, 2001, 7, 349-361.	2.0	271
25	Molecular Typing of Methicillin-Resistant<i>Staphylococcus aureus</i>by Pulsed-Field Gel Electrophoresis: Comparison of Results Obtained in a Multilaboratory Effort Using Identical Protocols and MRSA Strains. Microbial Drug Resistance, 2000, 6, 189-198.	2.0	267
26	Inhibition of cell wall turnover and autolysis by vancomycin in a highly vancomycin-resistant mutant of Staphylococcus aureus. Journal of Bacteriology, 1997, 179, 2557-2566.	2.2	265
27	Penicillin-binding proteins of multiply antibiotic-resistant South African strains of Streptococcus pneumoniae. Antimicrobial Agents and Chemotherapy, 1980, 17, 434-442.	3.2	264
28	The Relative Role of Bacterial Cell Wall and Capsule in the Induction of Inflammation in Pneumococcal Meningitis. Journal of Infectious Diseases, 1985, 151, 535-540.	4.0	249
29	Antibiotic Resistance in Streptococcus pneumoniae. Clinical Infectious Diseases, 1997, 24, S85-S88.	5.8	246
30	Multiple changes of penicillin-binding proteins in penicillin-resistant clinical isolates of Streptococcus pneumoniae. Antimicrobial Agents and Chemotherapy, 1980, 17, 364-371.	3.2	245
31	Mechanism of action of penicillin: triggering of the pneumococcal autolytic enzyme by inhibitors of cell wall synthesis.. Proceedings of the National Academy of Sciences of the United States of America, 1975, 72, 4162-4166.	7.1	233
32	Lipoteichoic acid: a specific inhibitor of autolysin activity in Pneumococcus.. Proceedings of the National Academy of Sciences of the United States of America, 1975, 72, 1690-1694.	7.1	233
33	Sigma-B, a putative operon encoding alternate sigma factor of Staphylococcus aureus RNA polymerase: molecular cloning and DNA sequencing. Journal of Bacteriology, 1996, 178, 6036-6042.	2.2	233
34	Antibiotic resistant Staphylococcus aureus: a paradigm of adaptive power. Current Opinion in Microbiology, 2007, 10, 428-435.	5.1	227
35	Biological consequences of the replacement of choline by ethanolamine in the cell wall of Pneumococcus: chanin formation, loss of transformability, and loss of autolysis.. Proceedings of the National Academy of Sciences of the United States of America, 1968, 59, 86-93.	7.1	224
36	The pgdA Gene Encodes for a PeptidoglycanN-Acetylglucosamine Deacetylase in Streptococcus pneumoniae. Journal of Biological Chemistry, 2000, 275, 20496-20501.	3.4	224

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37	Control of the Competent State in Pneumococcus by a Hormone-Like Cell Product: An Example for a New Type of Regulatory Mechanism in Bacteria. Nature, 1965, 208, 155-159.	27.8	210
38	Reassessment of the number of auxiliary genes essential for expression of high-level methicillin resistance in Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 1994, 38, 2590-2598.	3.2	210
39	Multiple mechanisms of methicillin resistance and improved methods for detection in clinical isolates of Staphylococcus aureus.. Antimicrobial Agents and Chemotherapy, 1991, 35, 632-639.	3.2	209
40	Geographic Distribution of Penicillin-Resistant Clones of Streptococcus pneumoniae: Characterization by Penicillin-Binding Protein Profile, Surface Protein A Typing, and Multilocus Enzyme Analysis. Clinical Infectious Diseases, 1992, 15, 112-118.	5.8	206
41	Antibiotic tolerance among clinical isolates of bacteria. Antimicrobial Agents and Chemotherapy, 1986, 30, 521-527.	3.2	199
42	Complementation of the Essential Peptidoglycan Transpeptidase Function of Penicillin-Binding Protein 2 (PBP2) by the Drug Resistance Protein PBP2A in Staphylococcus aureus. Journal of Bacteriology, 2001, 183, 6525-6531.	2.2	194
43	Methicillin-resistant Staphylococcus aureus emerged long before the introduction of methicillin into clinical practice. Genome Biology, 2017, 18, 130.	8.8	193
44	Overexpression of Genes of the Cell Wall Stimulon in Clinical Isolates of<i>Staphylococcus aureus</i>Exhibiting Vancomycin-Intermediate-<i>S. aureus</i>-Type Resistance to Vancomycin. Journal of Bacteriology, 2006, 188, 1120-1133.	2.2	190
45	Building the national health information infrastructure for personal health, health care services, public health, and research. BMC Medical Informatics and Decision Making, 2003, 3, 1.	3.0	188
46	Molecular Epidemiology of Methicillin-Resistant Staphylococcus aureus in 12 New York Hospitals. Journal of Infectious Diseases, 1998, 178, 164-171.	4.0	183
47	Inhibition of bacterial wall lysins by lipoteichoic acids and related compounds. Biochemical and Biophysical Research Communications, 1975, 67, 1128-1135.	2.1	181
48	Transmission of Multidrug-Resistant Serotype 23F Streptococcus pneumoniae in Group Day Care: Evidence Suggesting Capsular Transformation of the Resistant Strain In Vivo. Journal of Infectious Diseases, 1995, 171, 890-896.	4.0	181
49	Nonsteroidal Anti-Inflammatory Agents in the Therapy for Experimental Pneumococcal Meningitis. Journal of Infectious Diseases, 1987, 155, 985-990.	4.0	177
50	Methicillin-resistantStaphylococcus aureus disease in a portuguese hospital: Characterization of clonal types by a combination of DNA typing methods. European Journal of Clinical Microbiology and Infectious Diseases, 1994, 13, 64-73.	2.9	173
51	Tracking the Evolutionary Origin of the Methicillin Resistance Gene: Cloning and Sequencing of a Homologue of<i>mecA</i>from a Methicillin Susceptible Strain of<i>Staphylococcus sciuri</i>. Microbial Drug Resistance, 1996, 2, 435-441.	2.0	172
52	Role of VraSR in Antibiotic Resistance and Antibiotic-Induced Stress Response in Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2006, 50, 3424-3434.	3.2	171
53	Altered penicillin-binding proteins in methicillin-resistant strains of Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 1981, 19, 726-735.	3.2	170
54	Molecular aspects of methicillin resistance in Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 1994, 33, 7-24.	3.0	170

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55	Penicillin-binding proteins of penicillin-susceptible and intrinsically resistant Neisseria gonorrhoeae. Antimicrobial Agents and Chemotherapy, 1980, 18, 730-737.	3.2	168
56	Recruitment of the mecA Gene Homologue of Staphylococcus sciuri into a Resistance Determinant and Expression of the Resistant Phenotype in Staphylococcus aureus. Journal of Bacteriology, 2001, 183, 2417-2424.	2.2	167
57	Inhibition of the expression of penicillin resistance in Streptococcus pneumoniae by inactivation of cell wall muropeptide branching genes. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4891-4896.	7.1	165
58	Involvement of multiple genetic determinants in high-level methicillin resistance in Staphylococcus aureus. Journal of Bacteriology, 1989, 171, 874-879.	2.2	164
59	Ubiquitous Presence of a<i>mecA</i>Homologue in Natural Isolates of<i>Staphylococcus sciuri</i>. Microbial Drug Resistance, 1996, 2, 377-391.	2.0	162
60	Alterations of Cell Wall Structure and MetabolismAccompany Reduced Susceptibility to Vancomycin in an IsogenicSeries of Clinical Isolates of Staphylococcusaureus. Journal of Bacteriology, 2003, 185, 7103-7110.	2.2	160
61	Antibacterial efficacy of nisin against multidrug-resistant Gram- positive pathogens. Journal of Antimicrobial Chemotherapy, 1998, 41, 341-347.	3.0	159
62	On the nature of the pneumococcal activator substance.. Proceedings of the National Academy of Sciences of the United States of America, 1966, 55, 58-66.	7.1	150
63	Cellular Metabolism in Genetic Transformation of Pneumococci: Requirement for Protein Synthesis During Induction of Competence. Journal of Bacteriology, 1970, 101, 860-871.	2.2	149
64	A biological price of antibiotic resistance: major changes in the peptidoglycan structure of penicillin-resistant pneumococci.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 5415-5419.	7.1	145
65	Capsular Transformation of a Multidrugâ€Resistant<i>Streptococcus pneumoniae</i>In Vivo. Journal of Infectious Diseases, 1998, 177, 707-713.	4.0	145
66	Role of Penicillin-Binding Protein 2 (PBP2) in the Antibiotic Susceptibility and Cell Wall Cross-Linking of Staphylococcus aureus : Evidence for the Cooperative Functioning of PBP2, PBP4, and PBP2A. Journal of Bacteriology, 2005, 187, 1815-1824.	2.2	145
67	Guidelines for Reporting Novel <i>mecA</i> Gene Homologues. Antimicrobial Agents and Chemotherapy, 2012, 56, 4997-4999.	3.2	144
68	Decreased Susceptibilities to Teicoplanin and Vancomycin among Coagulase-Negative Methicillin-Resistant Clinical Isolates of Staphylococci. Antimicrobial Agents and Chemotherapy, 1998, 42, 100-107.	3.2	141
69	High Rates of Multiple Antibiotic Resistance in Streptococcus pneumoniae From Healthy Children Living in Isolated Rural Communities: Association With Cephalosporin Use and Intrafamilial Transmission. Pediatrics, 2001, 108, 856-865.	2.1	130
70	Evolution of a Vancomycin-Intermediate Staphylococcus aureus Strain In Vivo: Multiple Changes in the Antibiotic Resistance Phenotypes of a Single Lineage of Methicillin-Resistant S . aureus under the Impact of Antibiotics Administered for Chemotherapy. Journal of Clinical Microbiology, 2003, 41, 1687-1693.	3.9	127
71	Model for the Mechanism Controlling the Expression of Competent State in Pneumococcus Cultures. Journal of Bacteriology, 1966, 91, 1050-1061.	2.2	123
72	Tolerant Response of Streptococcus sanguis to Beta-Lactams and Other Cell Wall Inhibitors. Antimicrobial Agents and Chemotherapy, 1977, 11, 888-896.	3.2	121

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73	Inactivation of the srtA Gene Affects Localization of Surface Proteins and Decreases Adhesion of Streptococcus pneumoniae to Human Pharyngeal Cells In Vitro. Infection and Immunity, 2003, 71, 2758-2765.	2.2	121
74	Penicillin-Binding Proteins and the Antibacterial Effectiveness of Î²-Lactam Antibiotics. Clinical Infectious Diseases, 1986, 8, S260-S278.	5.8	119
75	Inactivated pbp4 in Highly Glycopeptide-resistant Laboratory Mutants of Staphylococcus aureus. Journal of Biological Chemistry, 1999, 274, 18942-18946.	3.4	119
76	Genetic Pathway in Acquisition and Loss of Vancomycin Resistance in a Methicillin Resistant Staphylococcus aureus (MRSA) Strain of Clonal Type USA300. PLoS Pathogens, 2012, 8, e1002505.	4.7	117
77	Pneumococcal Forssman Antigen. Journal of Biological Chemistry, 1973, 248, 6394-6397.	3.4	115
78	Frequent Recovery of a Single Clonal Type of Multidrug-Resistant Staphylococcus aureus from Patients in Two Hospitals in Taiwan and China. Journal of Clinical Microbiology, 2003, 41, 159-163.	3.9	114
79	Penicillin-Binding Protein Families: Evidence for the Clonal Nature of Penicillin Resistance in Clinical Isolates of Pneumococci. Journal of Infectious Diseases, 1989, 159, 16-25.	4.0	113
80	Properties of a Novel PBP2A Protein Homolog from Staphylococcus aureus Strain LGA251 and Its Contribution to the Î²-Lactam-resistant Phenotype. Journal of Biological Chemistry, 2012, 287, 36854-36863.	3.4	110
81	A pneumococcal clinical isolate with high-level resistance to cefotaxime and ceftriaxone. Antimicrobial Agents and Chemotherapy, 1992, 36, 886-889.	3.2	109
82	Peptidoglycan<i>N</i>-Acetylglucosamine Deacetylase, a Putative Virulence Factor in<i>Streptococcus pneumoniae</i>. Infection and Immunity, 2002, 70, 7176-7178.	2.2	109
83	Increased amounts of a novel penicillin-binding protein in a strain of methicillin-resistant Staphylococcus aureus exposed to nafcillin.. Journal of Clinical Investigation, 1985, 76, 325-331.	8.2	105
84	Gradual Alterations in Cell Wall Structure and Metabolism in Vancomycin-Resistant Mutants of <i>Staphylococcus aureus</i>. Journal of Bacteriology, 1999, 181, 7566-7570.	2.2	103
85	Altered muropeptide composition in Staphylococcus aureus strains with an inactivated femA locus. Journal of Bacteriology, 1993, 175, 2779-2782.	2.2	102
86	Isolation and characterization of a Tn551-autolysis mutant of Staphylococcus aureus. Journal of Bacteriology, 1992, 174, 4952-4959.	2.2	101
87	Characterization of Staphylococcus aureus Cell Wall Glycan Strands, Evidence for a New Î²-N-Acetylglucosaminidase Activity. Journal of Biological Chemistry, 2000, 275, 9910-9918.	3.4	101
88	Two bactericidal targets for penicillin in pneumococci: autolysis-dependent and autolysis-independent killing mechanisms. Antimicrobial Agents and Chemotherapy, 1990, 34, 33-39.	3.2	100
89	Role of PBP1 in Cell Division of Staphylococcus aureus. Journal of Bacteriology, 2007, 189, 3525-3531.	2.2	100
90	Triggering of autolytic cell wall degradation in Escherichia coli by beta-lactam antibiotics. Antimicrobial Agents and Chemotherapy, 1979, 16, 838-848.	3.2	99

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91	Abnormal Peptidoglycan Produced in a Methicillin-Resistant Strain of Staphylococcus aureus Grown in the Presence of Methicillin: Functional Role for Penicillin-Binding Protein 2A in Cell Wall Synthesis. Antimicrobial Agents and Chemotherapy, 1993, 37, 342-346.	3.2	99
92	Requirements of peptidoglycan structure that allow detection by the <i>Drosophila</i> Toll pathway. EMBO Reports, 2005, 6, 327-333.	4.5	99
93	Penicillin Tolerance in Multiply Drug-Resistant Natural Isolates of Streptococcus pneumoniae. Journal of Infectious Diseases, 1985, 152, 365-372.	4.0	96
94	Carriage of Respiratory Tract Pathogens and Molecular Epidemiology of<i>Streptococcus pneumoniae</i>Colonization in Healthy Children Attending Day Care Centers in Lisbon, Portugal. Microbial Drug Resistance, 1999, 5, 19-29.	2.0	96
95	THE FINE STRUCTURE OF DIPLOCOCCUS PNEUMONIAE. Journal of Cell Biology, 1964, 22, 453-467.	5.2	93
96	Suppression of lytic effect of beta lactams on Escherichia coli and other bacteria.. Proceedings of the National Academy of Sciences of the United States of America, 1976, 73, 3293-3297.	7.1	92
97	Insertional inactivation of the major autolysin gene of Streptococcus pneumoniae. Journal of Bacteriology, 1988, 170, 5931-5934.	2.2	91
98	High Level Oxacillin and Vancomycin Resistance and Altered Cell Wall Composition in Staphylococcus aureus Carrying the Staphylococcal mecA and the Enterococcal vanA Gene Complex. Journal of Biological Chemistry, 2004, 279, 3398-3407.	3.4	91
99	Attenuation of penicillin resistance in a peptidoglycan O-acetyl transferase mutant of Streptococcus pneumoniae. Molecular Microbiology, 2006, 61, 1497-1509.	2.5	91
100	Identification of Genetic Determinants and Enzymes Involved with the Amidation of Glutamic Acid Residues in the Peptidoglycan of Staphylococcus aureus. PLoS Pathogens, 2012, 8, e1002508.	4.7	90
101	Isolation and analysis of cell wall components from Streptococcus pneumoniae. Analytical Biochemistry, 2012, 421, 657-666.	2.4	90
102	Specificity of DNA uptake in genetic transformation of gonococci. Biochemical and Biophysical Research Communications, 1979, 86, 97-104.	2.1	87
103	Carriage of Internationally Spread Clones ofStreptococcus pneumoniaewith Unusual Drug Resistance Patterns in Children Attending Day Care Centers in Lisbon, Portugal. Journal of Infectious Diseases, 2000, 182, 1153-1160.	4.0	87
104	RADIOAUTOGRAPHIC EVIDENCE FOR EQUATORIAL WALL GROWTH IN A GRAM-POSITIVE BACTERIUM. Journal of Cell Biology, 1970, 47, 786-790.	5.2	85
105	Development of Methicillin Resistance in Clinical Isolates of Staphylococcus sciuri by Transcriptional Activation of the mecA Homologue Native to the Species. Journal of Bacteriology, 2003, 185, 645-653.	2.2	84
106	THE ROLE OF AUTOLYSINS IN CELL DEATH. Annals of the New York Academy of Sciences, 1974, 235, 439-447.	3.8	80
107	Molecular Epidemiologic Characterization of Penicillin-ResistantStreptococcus pneumoniaeInvasive Pediatric Isolates Recovered in Six Latin-American Countries: An Overview. Microbial Drug Resistance, 1998, 4, 195-207.	2.0	80
108	Penicillin Resistance and Defective Lysis in Clinical Isolates of Pneumococci: Evidence for Two Kinds of Antibiotic Pressure Operating in the Clinical Environment. Journal of Infectious Diseases, 1988, 157, 1150-1157.	4.0	79

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109	Cloning, Characterization, and Inactivation of the Gene pbpC, Encoding Penicillin-Binding Protein 3 ofStaphylococcus aureus. Journal of Bacteriology, 2000, 182, 1074-1079.	2.2	78
110	International Clones of Methicillin-Resistant Staphylococcus aureus in Two Hospitals in Miami, Florida. Journal of Clinical Microbiology, 2004, 42, 542-547.	3.9	78
111	The Mechanism of Heterogeneous Beta-Lactam Resistance in MRSA: Key Role of the Stringent Stress Response. PLoS ONE, 2013, 8, e82814.	2.5	78
112	Insertional inactivation of the mec gene in a transposon mutant of a methicillin-resistant clinical isolate of Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 1990, 34, 1777-1779.	3.2	77
113	Naturally occurring peptidoglycan variants of Streptococcus pneumoniae. Journal of Bacteriology, 1996, 178, 168-174.	2.2	77
114	â€œDiplophageâ€ A bacteriophage of Diplococcus pneumoniae. Virology, 1975, 63, 577-582.	2.4	76
115	The Pneumococcus at the Gates. New England Journal of Medicine, 1995, 333, 514-515.	27.0	76
116	Wide geographic distribution of a unique methicillin-resistant Staphylococcus aureus clone in Hungarian hospitals. Clinical Microbiology and Infection, 1997, 3, 289-296.	6.0	76
117	Variable recombination dynamics during the emergence, transmission and â€˜disarmingâ€™ of a multidrug-resistant pneumococcal clone. BMC Biology, 2014, 12, 49.	3.8	75
118	Genetic Diversity and Clonal Patterns among Antibiotic-Susceptible and -Resistant <i>Streptococcus pneumoniae</i> Colonizing Children: Day Care Centers as Autonomous Epidemiological Units. Journal of Clinical Microbiology, 2000, 38, 4137-4144.	3.9	75
119	Fluorescence Ratio Imaging Microscopy Shows Decreased Access of Vancomycin to Cell Wall Synthetic Sites in Vancomycin-Resistant<i>Staphylococcus aureus</i>. Antimicrobial Agents and Chemotherapy, 2007, 51, 3627-3633.	3.2	74
120	Novel Penicillin-Resistant Clones of Streptococcus pneumoniae in the Czech Republic and in Slovakia. Microbial Drug Resistance, 1995, 1, 71-78.	2.0	73
121	Genetic Organization of the <i>mecA</i> Region in Methicillin-Susceptible and Methicillin-Resistant Strains of <i>Staphylococcus sciuri</i>. Journal of Bacteriology, 1998, 180, 236-242.	2.2	73
122	Molecular Epidemiology of Penicillin-Resistant <i>Streptococcus pneumoniae</i> Isolates Recovered in Italy from 1993 to 1996. Journal of Clinical Microbiology, 1998, 36, 2944-2949.	3.9	72
123	Teichoic acid-containing muropeptides from Streptococcus pneumoniae as substrates for the pneumococcal autolysin. Journal of Bacteriology, 1987, 169, 447-453.	2.2	71
124	Characterization of tRNA-dependent Peptide Bond Formation by MurM in the Synthesis of Streptococcus pneumoniae Peptidoglycan. Journal of Biological Chemistry, 2008, 283, 6402-6417.	3.4	70
125	Novel Determinants of Antibiotic Resistance: Identification of Mutated Loci in Highly Methicillin-Resistant Subpopulations of Methicillin-Resistant Staphylococcus aureus. MBio, 2014, 5, e01000.	4.1	70
126	Alterations in Penicillin-Binding Proteins of Clinical and Laboratory Isolates of Pathogenic Streptococcus pneumoniae with Low Levels of Penicillin Resistance. Journal of Infectious Diseases, 1986, 153, 83-89.	4.0	69

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127	Extensive and Genome-Wide Changes in the Transcription Profile of Staphylococcus aureus Induced by Modulating the Transcription of the Cell Wall Synthesis Gene murF. Journal of Bacteriology, 2007, 189, 2376-2391.	2.2	69
128	Penicillin-resistant and penicillin-tolerant mutants of group A Streptococci. Antimicrobial Agents and Chemotherapy, 1982, 22, 128-136.	3.2	67
129	On the physiological functions of teichoic acids. Journal of Supramolecular Structure, 1975, 3, 1-16.	2.3	66
130	The femR315 gene from Staphylococcus aureus, the interruption of which results in reduced methicillin resistance, encodes a phosphoglucosamine mutase. Journal of Bacteriology, 1997, 179, 5321-5325.	2.2	66
131	New faces of an old pathogen: emergence and spread of multidrug-resistant Streptococcus pneumoniae. American Journal of Medicine, 1999, 107, 55-62.	1.5	65
132	Transforming growth factor beta 2 inhibits cerebrovascular changes and brain edema formation in the tumor necrosis factor alpha-independent early phase of experimental pneumococcal meningitis.. Journal of Experimental Medicine, 1992, 176, 265-268.	8.5	64
133	A Phosphoglucomutase-Like Gene Essential for the Optimal Expression of Methicillin Resistance in<i>Staphylococcus aureus</i>: Molecular Cloning and DNA Sequencing. Microbial Drug Resistance, 1996, 2, 277-286.	2.0	64
134	Whole-Genome Sequencing Reveals a Link Between Î²-Lactam Resistance and Synthetases of the Alarmone (p)ppGpp in<i>Staphylococcus aureus</i>. Microbial Drug Resistance, 2013, 19, 153-159.	2.0	64
135	Evolutionary Origin of the Staphylococcal Cassette Chromosome <i>mec</i> (SCC <i>mec</i>). Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	64
136	A High Incidence of Prophage Carriage among Natural Isolates of Streptococcus pneumoniae. Journal of Bacteriology, 1999, 181, 3618-3625.	2.2	64
137	Early Stages in DNA Binding and Uptake During Genetic Transformation of Pneumococci. Proceedings of the National Academy of Sciences of the United States of America, 1974, 71, 1493-1498.	7.1	63
138	Evidence for the evolutionary steps leading to mecA-mediated Î²-lactam resistance in staphylococci. PLoS Genetics, 2017, 13, e1006674.	3.5	63
139	Heterogeneously Vancomycin-Resistant <i>Staphylococcus epidermidis</i> Strain Causing Recurrent Peritonitis in a Dialysis Patient during Vancomycin Therapy. Journal of Clinical Microbiology, 1999, 37, 39-44.	3.9	62
140	A highly vancomycin-resistant laboratory mutant ofStaphylococcus aureus. FEMS Microbiology Letters, 1996, 142, 161-166.	1.8	61
141	Identification of the teichoic acid phosphorylcholine esterase in Streptococcus pneumoniae. Molecular Microbiology, 2001, 39, 1610-1622.	2.5	61
142	The murMN operon: A functional link between antibiotic resistance and antibiotic tolerance in Streptococcus pneumoniae. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1550-1555.	7.1	60
143	Suppression of the Lytic and Bactericidal Effects of Cell Wall-Inhibitory Antibiotics. Antimicrobial Agents and Chemotherapy, 1976, 10, 697-706.	3.2	58
144	Evidence for a dual role of PBP1 in the cell division and cell separation of <i>Staphylococcus aureus</i>. Molecular Microbiology, 2009, 72, 895-904.	2.5	58

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145	Effect of benzylpenicillin on the synthesis and structure of the cell envelope of Neisseria gonorrhoeae. Antimicrobial Agents and Chemotherapy, 1978, 13, 514-526.	3.2	57
146	The role of complement in inflammation during experimental pneumococcal meningitis. Microbial Pathogenesis, 1986, 1, 15-32.	2.9	57
147	Characterization of the murMN Operon Involved in the Synthesis of Branched Peptidoglycan Peptides in Streptococcus pneumoniae. Journal of Biological Chemistry, 2000, 275, 27768-27774.	3.4	57
148	Cocrystal Structures of Diaminopimelate Decarboxylase. Structure, 2002, 10, 1499-1508.	3.3	57
149	Testing the Efficacy of a Molecular Surveillance Network: Methicillin-Resistant<i>Staphylococcus aureus</i>(MRSA) and Vancomycin-Resistant<i>Enterococcus faecium</i>(VREF) Genotypes in Six Hospitals in the Metropolitan New York City Area. Microbial Drug Resistance, 1996, 2, 343-351.	2.0	56
150	Role of the Stringent Stress Response in the Antibiotic Resistance Phenotype of Methicillin-Resistant Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2016, 60, 2311-2317.	3.2	55
151	Transglycosylase and endopeptidase participate in the degradation of murein during autolysis of Escherichia coli. Journal of Bacteriology, 1986, 167, 759-765.	2.2	54
152	Role of murF in Cell Wall Biosynthesis: Isolation and Characterization of a murF Conditional Mutant of Staphylococcus aureus. Journal of Bacteriology, 2006, 188, 2543-2553.	2.2	54
153	Antibiotic Susceptibility of Streptococcus pneumoniae Isolates in Portugal. A Multicenter Study Between 1989 and 1993. Microbial Drug Resistance, 1995, 1, 59-69.	2.0	53
154	The nature of cell wall-derived inflammatory components of pneumococci. Pediatric Infectious Disease Journal, 1989, 8, 902.	2.0	49
155	Inactivation of the Methicillin Resistance Gene<i>mecA</i>in Vancomycin-Resistant<i>Staphylococcus aureus</i>. Microbial Drug Resistance, 1999, 5, 253-257.	2.0	49
156	Penicillin-Binding Proteins and Cell Wall Composition in Î²-Lactam-Sensitive and -Resistant Strains of <i>Staphylococcus sciuri</i>. Journal of Bacteriology, 2008, 190, 508-514.	2.2	49
157	An autoradiographic study of genetic transformation.. Proceedings of the National Academy of Sciences of the United States of America, 1968, 60, 1216-1222.	7.1	48
158	Alterations in kinetic properties of penicillin-binding proteins of penicillin-resistant Streptococcus pneumoniae. Antimicrobial Agents and Chemotherapy, 1986, 30, 57-63.	3.2	48
159	Penicillin-Binding Protein 2 Is Essential for Expression of High-Level Vancomycin Resistance and Cell Wall Synthesis in Vancomycin- Resistant Staphylococcus aureus Carrying the Enterococcal vanA Gene Complex. Antimicrobial Agents and Chemotherapy, 2004, 48, 4566-4573.	3.2	48
160	Inhibition of cell wall synthesis and acylation of the penicillin binding proteins during prolonged exposure of growing Streptococcus pneumoniae to benzylpenicillin. FEBS Journal, 1985, 151, 475-483.	0.2	47
161	Multiplicity of Genetic Backgrounds among VancomycinResistant<i>Enterococcus faecium</i>Isolates Recovered from an Outbreak in a New York City Hospital. Microbial Drug Resistance, 1996, 2, 309-317.	2.0	47
162	Inhibition of the Autolytic System by Vancomycin Causes Mimicry of Vancomycin-Intermediate <i>Staphylococcus aureus</i> -Type Resistance, Cell Concentration Dependence of the MIC, and Antibiotic Tolerance in Vancomycin-Susceptible <i>S. aureus</i>. Antimicrobial Agents and Chemotherapy, 2006, 50, 527-533.	3.2	47

#	Article	IF	Citations
163	The Essential<i>tacF</i>Gene Is Responsible for the Choline-Dependent Growth Phenotype of<i>Streptococcus pneumoniae</i>. Journal of Bacteriology, 2007, 189, 7105-7111.	2.2	47
164	Effect of Penicillin on the Adherence of Streptococcus sanguis In Vitro and in the Rabbit Model of Endocarditis. Journal of Clinical Investigation, 1983, 71, 668-675.	8.2	47
165	Hypersusceptibility of penicillin-treated group B streptococci to bactericidal activity of human polymorphonuclear leukocytes. Antimicrobial Agents and Chemotherapy, 1981, 19, 745-753.	3.2	46
166	Autolysis-resistant peptidoglycan of anomalous composition in amino-acid-starved Escherichia coli. Journal of Bacteriology, 1988, 170, 1373-1376.	2.2	46
167	In Vivo Stability of Heterogeneous Expression Classes in Clinical Isolates of Methicillin-Resistant Staphylococci. Journal of Infectious Diseases, 1991, 164, 883-887.	4.0	45
168	Distribution of the Mosaic StructuredmurM Genes among Natural Populations ofStreptococcus pneumoniae. Journal of Bacteriology, 2000, 182, 6798-6805.	2.2	45
169	Perturbation of Cell Wall Synthesis Suppresses Autolysis in<i>Staphylococcus aureus</i>: Evidence for Coregulation of Cell Wall Synthetic and Hydrolytic Enzymes. Journal of Bacteriology, 2007, 189, 7573-7580.	2.2	45
170	Autolysis and Cell Wall Degradation in a Choline-Independent Strain of<i>Streptococcus pneumoniae</i>. Microbial Drug Resistance, 1997, 3, 391-400.	2.0	44
171	High-Level Resistance of Staphylococcus aureus to Î²-Lactam Antibiotics Mediated by Penicillin-Binding Protein 4 (PBP4). Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	44
172	DNA Uptake during Genetic Transformation and the Growing Zone of the Cell Envelope. Proceedings of the National Academy of Sciences of the United States of America, 1971, 68, 1848-1852.	7.1	43
173	Possible role of a choline-containing teichoic acid in the maintenance of normal cell shape and physiology in Streptococcus oralis. Journal of Bacteriology, 1993, 175, 1717-1722.	2.2	43
174	Drastic reduction in the virulence of Streptococcus pneumoniae expressing type 2 capsular polysaccharide but lacking choline residues in the cell wall. Molecular Microbiology, 2006, 60, 93-107.	2.5	43
175	The Cell Wall of <i>Streptococcus pneumoniae</i>. Microbiology Spectrum, 2019, 7, .	3.0	43
176	Suppression of Glycopeptide Resistance in a Highly Teicoplanin-Resistant Mutant of<i>Staphylococcus aureus</i>by Transposon Inactivation of Genes Involved in Cell Wall Synthesis. Microbial Drug Resistance, 1998, 4, 159-168.	2.0	42
177	Geographic Distribution of Penicillin Resistance ofStreptococcus pneumoniaein Brazil: Genetic Relatedness. Microbial Drug Resistance, 1998, 4, 209-217.	2.0	42
178	Cell wall branches, penicillin resistance and the secrets of the MurM protein. Trends in Microbiology, 2003, 11, 547-553.	7.7	42
179	Molecular Characterization of the Complete 23F Capsular Polysaccharide Locus of <i>Streptococcus pneumoniae</i>. Journal of Bacteriology, 1998, 180, 5273-5278.	2.2	42
180	The Mechanism of an Osmotic Instability Induced in E. coli K-12 by 5-Fluorouracil*. Biochemistry, 1962, 1, 543-552.	2.5	41

#	Article	IF	Citations
181	Role of murE in the Expression of Î²-Lactam Antibiotic Resistance in Staphylococcus aureus. Journal of Bacteriology, 2004, 186, 1705-1713.	2.2	41
182	AntimicrobialsThe challenge of antibiotic resistant bacterial pathogens: the medical need, the market and prospects for new antimicrobial agents. Current Opinion in Microbiology, 2004, 7, 435-438.	5.1	40
183	Transcriptional Analysis of the <i>Staphylococcus aureus</i> Penicillin Binding Protein 2 Gene. Journal of Bacteriology, 1998, 180, 6077-6081.	2.2	40
184	Modulation of bacteriolysis by cooperative effects of penicillin-binding proteins 1a and 3 in Escherichia coli. Antimicrobial Agents and Chemotherapy, 1986, 30, 659-663.	3.2	39
185	Distribution of Methicillin-Resistant<i>Staphylococcus aureus</i>Clones Among Health Care Facilities in Connecticut, New Jersey, and Pennsylvania. Microbial Drug Resistance, 2000, 6, 245-251.	2.0	39
186	Multilocus Sequence Typing ofStreptococcus pneumoniaeClones with Unusual Drug Resistance Patterns: Genetic Backgrounds and Relatedness to Other Epidemic Clones. Journal of Infectious Diseases, 2001, 184, 1206-1210.	4.0	39
187	Alternative Mutational Pathways to Intermediate Resistance to Vancomycin in Methicillin-Resistant Staphylococcus aureus. Journal of Infectious Diseases, 2013, 208, 67-74.	4.0	39
188	Escherichia coli Mutants Tolerant to Beta-Lactam Antibiotics. Journal of Bacteriology, 1979, 140, 955-963.	2.2	39
189	pH-dependent penicillin tolerance of group B streptococci. Antimicrobial Agents and Chemotherapy, 1981, 20, 128-135.	3.2	38
190	Altered murein composition in a DD-carboxypeptidase mutant of Streptococcus pneumoniae. Journal of Bacteriology, 1992, 174, 5152-5155.	2.2	38
191	Separation of abnormal cell wall composition from penicillin resistance through genetic transformation of Streptococcus pneumoniae. Journal of Bacteriology, 1996, 178, 1788-1792.	2.2	38
192	Ubiquitous Distribution of the Competence Related GenescomAandcomCAmong Isolates ofStreptococcus pneumoniae. Microbial Drug Resistance, 1997, 3, 39-52.	2.0	38
193	Reconstruction of the Phenotypes of Methicillin-Resistant <i>Staphylococcus aureu</i> s by Replacement of the Staphylococcal Cassette Chromosome <i>mec</i> with a Plasmid-Borne Copy of <i>Staphylococcus sciuri pbpD</i> Gene. Antimicrobial Agents and Chemotherapy, 2009, 53, 435-441.	3.2	38
194	Induction of autolysis in nongrowing Escherichia coli. Journal of Bacteriology, 1986, 167, 1077-1080.	2.2	36
195	Multiple methicillin-resistant Staphylococcus aureus strains as a cause for a single outbreak of severe disease in hospitalized neonates. Pediatric Infectious Disease Journal, 1992, 11, 184-188.	2.0	36
196	Teichoic Acid Phosphorylcholine Esterase. Journal of Biological Chemistry, 1974, 249, 7032-7034.	3.4	36
197	Penicillin-Binding Proteins in Bacteria. Annals of Internal Medicine, 1982, 96, 502.	3.9	35
198	Triggering of Pneumococcal Autolysis by Lysozyme. Journal of Infectious Diseases, 1993, 167, 684-690.	4.0	35

#	Article	IF	Citations
199	Spread of the Serotype 23F Multidrug-Resistant<i>Streptococcus pneumoniae</i>Clone to South Korea. Microbial Drug Resistance, 1997, 3, 105-109.	2.0	35
200	Physiological properties of penicillin-binding proteins in group A streptococci. Antimicrobial Agents and Chemotherapy, 1981, 19, 872-880.	3.2	34
201	Î²-Lactam Antibiotic Resistance in Gram-Positive Bacterial Pathogens of the Upper Respiratory Tract: A Brief Overview of Mechanisms. Microbial Drug Resistance, 1995, 1, 103-109.	2.0	34
202	Enzyme replacement in a bacterium: Phenotypic correction by the experimental introduction of the wild type enzyme into a live enzyme defective mutant pneumococcus. Biochemical and Biophysical Research Communications, 1975, 65, 1311-1319.	2.1	33
203	TheStaphylococcus aureusTransposon Tn551: Complete Nucleotide Sequence and Transcriptional Analysis of the Expression of the Erythromycin Resistance Gene. Microbial Drug Resistance, 1999, 5, 1-7.	2.0	33
204	Appearance of a Protein â€œAgglutininâ€•on the Spheroplast Membrane of Pneumococci During Induction of Competence. Journal of Bacteriology, 1971, 105, 1213-1215.	2.2	33
205	Binding of the competence factor to receptors in the spheroplast membrane of pneumococci. Biochemical and Biophysical Research Communications, 1970, 41, 1342-1349.	2.1	32
206	Lethal Effect of a Heterologous Murein Hydrolase on Penicillin-Treated Streptococcus sanguis. Antimicrobial Agents and Chemotherapy, 1980, 17, 235-246.	3.2	32
207	Serotypes and Clonal Types of Penicillin-SusceptibleStreptococcus pneumoniaeCausing Invasive Disease in Children in Five Latin American Countries. Microbial Drug Resistance, 2005, 11, 195-204.	2.0	32
208	Molecular Types of Methicillin-Resistant Staphylococcus aureus and Methicillin-Sensitive S. aureus Strains Causing Skin and Soft Tissue Infections and Nasal Colonization, Identified in Community Health Centers in New York City. Journal of Clinical Microbiology, 2015, 53, 2648-2658.	3.9	32
209	Molecular Characterization of Penicillin-Resistant <i>Streptococcus pneumoniae</i> Isolates from Bulgaria. Journal of Clinical Microbiology, 1999, 37, 638-648.	3.9	32
210	Secretion of Cell Wall Polymers into the Growth Medium of Lysis-Defective Pneumococci During Treatment with Penicillin and Other Inhibitors of Cell Wall Synthesis. Antimicrobial Agents and Chemotherapy, 1978, 13, 293-301.	3.2	31
211	Acquisition of New Capsular Genes Among Clinical Isolates of Antibiotic-Resistant<i>Streptococcus pneumoniae</i>. Microbial Drug Resistance, 1999, 5, 241-246.	2.0	31
212	Functional Analysis of Streptococcus pneumoniae MurM Reveals the Region Responsible for Its Specificity in the Synthesis of Branched Cell Wall Peptides. Journal of Biological Chemistry, 2001, 276, 39618-39628.	3.4	31
213	A sandwich adhesin on Streptococcus pneumoniae attaching to human oropharyngeal epithelial cells in vitro. Microbial Pathogenesis, 1988, 4, 267-278.	2.9	30
214	Structural Characterization of an Abnormally Cross-linked Muropeptide Dimer That Is Accumulated in the Peptidoglycan of Methicillin- and Cefotaxime-resistant Mutants of Staphylococcus aureus. Journal of Biological Chemistry, 1997, 272, 29053-29059.	3.4	30
215	Penicillin-Resistant<i>Streptococcus pneumoniae</i>in Colombia: Presence of International Epidemic Clones. Microbial Drug Resistance, 1998, 4, 233-239.	2.0	30
216	The Apparent Importation of Penicillin-Resistant Capsular Type 14 Spanish/French Clone ofStreptococcus pneumoniaeinto Uruguay in the Early 1990s. Microbial Drug Resistance, 1998, 4, 219-224.	2.0	30

#	Article	IF	Citations
217	Comparative Study of the Susceptibilities of Major Epidemic Clones of Methicillin-Resistant <i>Staphylococcus aureus</i> to Oxacillin and to the New Broad-Spectrum Cephalosporin Ceftobiprole. Antimicrobial Agents and Chemotherapy, 2008, 52, 2709-2717.	3.2	30
218	Molecular Evolution in a Multidrug-Resistant Lineage of <i>Streptococcus pneumoniae</i> : Emergence of Strains Belonging to the Serotype 6B Icelandic Clone That Lost Antibiotic Resistance Traits. Journal of Clinical Microbiology, 2000, 38, 1375-1381.	3.9	30
219	Editorial: The Prospects of Treatment Failure in the Chemotherapy of Infectious Diseases in the 1990s. Microbial Drug Resistance, 1995, 1, 1-4.	2.0	29
220	Penicillin-Resistant and Multidrug-Resistant <i>Streptococcus pneumoniae</i> in a Pediatrie Hospital in Zagreb, Croatia. Microbial Drug Resistance, 1995, 1, 169-176.	2.0	28
221	Characterization of Cell Wall Polymers Secreted into the Growth Medium of Lysis-Defective Pneumococci During Treatment with Penicillin and Other Inhibitors of Cell Wall Synthesis. Antimicrobial Agents and Chemotherapy, 1978, 13, 302-311.	3.2	27
222	MUREIN HYDROLASE DEFECT IN THE BETA LACTAM TOLERANT MUTANTS OFESCHERICHIA COLI. FEMS Microbiology Letters, 1980, 7, 133-136.	1.8	27
223	Penicillin-ResistantStreptococcus pneumoniaein Argentina: Frequent Occurrence of an Internationally Spread Serotype 14 Clone. Microbial Drug Resistance, 1998, 4, 225-231.	2.0	27
224	Pilot Study of the Genetic Diversity of the Pneumococcal Nasopharyngeal Flora among Children Attending Day Care Centers. Journal of Clinical Microbiology, 2002, 40, 3577-3585.	3.9	27
225	Weapons of Microbial Drug Resistance Abound in Soil Flora. Science, 2006, 311, 342-343.	12.6	27
226	MRSA Causing Infections in Hospitals in Greater Metropolitan New York: Major Shift in the Dominant Clonal Type between 1996 and 2014. PLoS ONE, 2016, 11, e0156924.	2.5	27
227	Predominance of the Multiresistant 23F International Clone ofStreptococcus pneumoniaeamong Isolates from Mexico. Microbial Drug Resistance, 1998, 4, 241-246.	2.0	26
228	THE PENICILLIN-BINDING PROTEINS OF STREPTOCOCCUS PNEUMONIAE GROWN UNDER LYSIS-PERMISSIVE AND LYSIS-PROTECTIVE (TOLERANT) CONDITIONS. FEMS Microbiology Letters, 1980, 7, 127-131.	1.8	25
229	The Structure of the Cell Wall Peptidoglycan ofBacillus cereusRSVF1, a Strain Closely Related toBacillus anthracis. Microbial Drug Resistance, 2004, 10, 77-82.	2.0	25
230	Relationship Between the Competence Antigen and the Competence-Activator Substance in Pneumococci. Journal of Bacteriology, 1965, 90, 1226-1232.	2.2	25
231	The Role ofmurMNOperon in Penicillin Resistance and Antibiotic Tolerance ofStreptococcus pneumoniae. Microbial Drug Resistance, 2001, 7, 303-316.	2.0	24
232	Full-Genome Sequencing Identifies in the Genetic Background Several Determinants That Modulate the Resistance Phenotype in Methicillin-Resistant Staphylococcus aureus Strains Carrying the Novel <i>mecC</i> Gene. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	24
233	Diversity of Penicillinâ€NonsusceptibleStreptococcus pneumoniaeCirculating in Iceland after the Introduction of Penicillinâ€Resistant Clone Spain6Bâ€2. Journal of Infectious Diseases, 2002, 186, 966-975.	4.0	23
234	X-ray structure of an M. jannaschii DNA-binding protein: Implications for antibiotic resistance in S. aureus. Proteins: Structure, Function and Bioinformatics, 2002, 50, 170-173.	2.6	23

#	Article	IF	Citations
235	Essential role of choline for pneumococcal virulence in an experimental model of meningitis. Journal of Internal Medicine, 2008, 264, 143-154.	6.0	23
236	Differences in Genotype and Virulence among Four Multidrug-Resistant Streptococcus pneumoniae Isolates Belonging to the PMEN1 Clone. PLoS ONE, 2011, 6, e28850.	2.5	23
237	Inhibition of lysis by antibody against phage-associated lysin and requirement of choline residues in the cell wall for progeny phage release inStreptococcus pneumoniae. Current Microbiology, 1983, 8, 137-140.	2.2	22
238	In Vivo Capsular Switch in Streptococcus pneumoniae â€“ Analysis by Whole Genome Sequencing. PLoS ONE, 2012, 7, e47983.	2.5	22
239	Recurrent peritonitis in a patient on dialysis and prophylactic vancomycin. Lancet, The, 1998, 351, 880-881.	13.7	21
240	Benefit and risk in the Î²-lactam antibiotic-resistance strategies of Streptococcus pneumoniae and Staphylococcus aureus. Trends in Microbiology, 1994, 2, 380-385.	7.7	20
241	Heterogeneous oxacillin-resistant phenotypes and production of PBP2A by oxacillin-susceptible/mecA-positive MRSA strains from Africa. Journal of Antimicrobial Chemotherapy, 2016, 71, 2804-2809.	3.0	20
242	Methylprednisolone attenuates inflammation, increase of brain water content and intracranial pressure, but does not influence cerebral blood flow changes in experimental pneumococcal meningitis. Brain Research, 1994, 644, 25-31.	2.2	19
243	Membrane Lipoteichoic Acid Is Not a Precursor to Wall Teichoic Acid in Pneumococci. Journal of Bacteriology, 1975, 122, 335-337.	2.2	19
244	Intermediate-Type Vancomycin Resistance (VISA) in Genetically-Distinct Staphylococcus aureus Isolates Is Linked to Specific, Reversible Metabolic Alterations. PLoS ONE, 2014, 9, e97137.	2.5	18
245	Different Pathways of Choline Metabolism in Two Choline-Independent Strains of<i>Streptococcus pneumoniae</i>and Their Impact on Virulence. Journal of Bacteriology, 2008, 190, 5907-5914.	2.2	17
246	Drastic changes in the peptidoglycan composition of penicillin resistant laboratory mutants ofStreptococcus pneumoniae. FEMS Microbiology Letters, 1995, 130, 31-35.	1.8	16
247	Drastic changes in the peptidoglycan composition of penicillin resistant laboratory mutants of. FEMS Microbiology Letters, 1995, 130, 31-35.	1.8	16
248	High-Level Î²-Lactam Resistance and Cell Wall Synthesis Catalyzed by the mecA Homologue of Staphylococcus sciuri Introduced into Staphylococcus aureus. Journal of Bacteriology, 2005, 187, 6651-6658.	2.2	16
249	Antibiotic Resistance as a Stress Response: Recovery of High-Level Oxacillin Resistance in Methicillin-Resistant Staphylococcus aureus â€œAuxiliaryâ€•(<i>fem</i>) Mutants by Induction of the Stringent Stress Response. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	16
250	Genetic Determinants of High-Level Oxacillin Resistance in Methicillin-Resistant Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	16
251	The activity of the pneumococcal autolytic system and the fate of the bacterium during ingestion by rabbit polymorphonuclear leukocytes. Journal of Cellular Physiology, 1977, 92, 155-160.	4.1	15
252	Role of Teichoic Acid Choline Moieties in the Virulence of <i>Streptococcus pneumoniae</i>. Infection and Immunity, 2009, 77, 2824-2831.	2.2	15

#	Article	IF	Citations
253	The glucosaminidase domain of Atl â€“ the major <i>Staphylococcus aureus</i> autolysin â€“ has <scp>DNA</scp> â€binding activity. MicrobiologyOpen, 2014, 3, 247-256.	3.0	15
254	Inhibitory Effects and Metabolism of 5-Fluoropyrimidine Derivatives in Pneumococcus. Journal of Bacteriology, 1971, 106, 412-420.	2.2	15
255	Prophage Carriage as a Molecular Epidemiological Marker in Streptococcus pneumoniae. Journal of Clinical Microbiology, 1999, 37, 3308-3315.	3.9	15
256	Changes in composition of peptidoglycan during maturation of the cell wall in pneumococci. Journal of Bacteriology, 1990, 172, 5961-5967.	2.2	14
257	Inhibitors of genetic recombination in pneumococci.. Proceedings of the National Academy of Sciences of the United States of America, 1977, 74, 296-299.	7.1	13
258	A link in transcription between the native pbpB and the acquired mecA gene in a strain of Staphylococcus aureus. Microbiology (United Kingdom), 2006, 152, 2549-2558.	1.8	13
259	Virulence Potential and Genome-Wide Characterization of Drug Resistant Streptococcus pneumoniae Clones Selected In Vivo by the 7-Valent Pneumococcal Conjugate Vaccine. PLoS ONE, 2013, 8, e74867.	2.5	13
260	Recurrent Furunculosis Caused by a Community-AcquiredStaphylococcus aureusStrain Belonging to the USA300 Clone. Microbial Drug Resistance, 2015, 21, 237-243.	2.0	12
261	Contribution of Pneumococcal Cell Wall to Experimental Otitis Media Pathogenesis. Annals of Otology, Rhinology and Laryngology, 1988, 97, 28-30.	1.1	11
262	Protein-bound choline is released from the pneumococcal autolytic enzyme during adsorption of the enzyme to cell wall particles. Journal of Bacteriology, 1990, 172, 2241-2244.	2.2	11
263	Carriage and antibiotic resistance of respiratory pathogens and molecular epidemiology of antibiotic-resistant Streptococcus pneumoniae colonizing children in day-care centers in Lisbon: the Portuguese day-care center initiative. Clinical Microbiology and Infection, 1999, 5, 4S55-4S63.	6.0	11
264	Accelerated evolution: Emergence of multidrug resistant gram-positive bacterial pathogens in the 1990's. Netherlands Journal of Medicine, 1998, 52, 219-227.	0.5	10
265	EURISWEB â€“ Web-based epidemiological surveillance of antibiotic-resistant pneumococci in Day Care Centers. BMC Medical Informatics and Decision Making, 2003, 3, 9.	3.0	10
266	Phenotypic signatures and genetic determinants of oxacillin tolerance in a laboratory mutant of Staphylococcus aureus. PLoS ONE, 2018, 13, e0199707.	2.5	10
267	The Staphylococcal Cell Wall. Microbiology Spectrum, 2019, 7, .	3.0	10
268	Transcriptional Analysis of theStaphylococcus aureus Penicillin Binding Protein 2 Gene. Journal of Bacteriology, 1998, 180, 6077-6081.	2.2	10
269	The Bacterial Cell Surface. Nature, 1971, 234, 389-392.	27.8	9
270	Induction of normal levels of genetic transformation in a class of endonuclease-defective mutants of pneumococci. Biochemical and Biophysical Research Communications, 1978, 83, 1067-1076.	2.1	9

#	Article	IF	Citations
271	Mechanism of pneumococcal cell wall degradation in vitro and in vivo. Journal of Bacteriology, 1989, 171, 114-119.	2.2	9
272	Penicillin-ResistantStreptococcus pneumoniaein Metropolitan New York Hospitals: Case Control Study and Molecular Typing of Resistant Isolates. Microbial Drug Resistance, 2001, 7, 137-152.	2.0	9
273	Expression of High-Level Methicillin Resistance inStaphylococcus aureusfrom theStaphylococcus sciuri mecAHomologue: Role of Mutation(s) in the Genetic Background and in the Coding Region ofmecA. Microbial Drug Resistance, 2005, 11, 215-224.	2.0	9
274	Synthesis of penicillin-binding proteins in penicillin-treatedStreptococcus pneumoniae. FEMS Microbiology Letters, 1984, 22, 301-305.	1.8	8
275	From the Bench to the Barbershop: Community Engagement to Raise Awareness About Community-Acquired Methicillin-Resistant Staphylococcus aureus and Hepatitis C Virus Infection. Progress in Community Health Partnerships: Research, Education, and Action, 2016, 10, 413-423.	0.3	8
276	Evaluation of Topical Lysostaphin as a Novel Treatment for Instrumented Rhesus Macaques (<i>Macaca) Tj ETQq0 0 0 rgBT /Overlock 10 2020, 70, 335-347.	1.0	8
277	The challenge of multiresistant Streptococcus pneumoniae: international initiatives in day-care centers and the use of molecular epidemiologic techniques. Clinical Microbiology and Infection, 1999, 5, 4S64-4S68.	6.0	7
278	â€œIntelligence coupâ€•for drug designers: crystal structure of Staphylococcus aureus Î²-lactam resistance protein PBP2A. Lancet, The, 2003, 361, 795-796.	13.7	7
279	Cellular Factors in Genetic Transformation. Scientific American, 1969, 220, 38-44.	1.0	6
280	Role of a Sodium-Dependent Symporter Homologue in the Thermosensitivity of Î²-Lactam Antibiotic Resistance and Cell Wall Composition in <i>Staphylococcus aureus</i>. Antimicrobial Agents and Chemotherapy, 2008, 52, 505-512.	3.2	6
281	The Cell Wall of<i>Streptococcus pneumoniae</i>. , 0, , 230-240.		6
282	Antimicrobials. Current Opinion in Microbiology, 2010, 13, 547-550.	5.1	5
283	<i>Staphylococcus aureus</i>Infecting and Colonizing Experimental Animals, Macaques, in a Research Animal Facility. Microbial Drug Resistance, 2019, 25, 54-62.	2.0	5
284	The Staphylococcal Cell Wall. , 0, , 443-455.		5
285	Selective Utilization of Pyrimidine Deoxyribonucleosides for Deoxyribonucleic Acid Synthesis in Pneumococcus. Journal of Bacteriology, 1973, 113, 1356-1362.	2.2	5
286	Factors affecting sensitivity of group B streptococci to an exogenous murein hydrolase. Canadian Journal of Microbiology, 1985, 31, 417-422.	1.7	4
287	5-Fluoropyrimidine-Resistant Mutants of Pneumococcus. Journal of Bacteriology, 1973, 113, 1348-1355.	2.2	4
288	Impact of the Stringent Stress Response on the Expression of Methicillin Resistance in Staphylococcaceae Strains Carrying mecA, mecA1 and mecC. Antibiotics, 2022, 11, 255.	3.7	4

#	Article	IF	Citations
289	Degradation of the penicillin binding proteins in aminoglycoside-treated group A streptococci. FEMS Microbiology Letters, 1981, 10, 323-326.	1.8	3
290	Selective lysis of cultures and cell walls of penicillin-resistant but not penicillin-susceptible Streptococcus pneumoniae strains by a murein hydrolase complex. Journal of Bacteriology, 1995, 177, 3316-3319.	2.2	3
291	The CEM-NET initiative: Molecular biology and epidemiology in alliance â€" Tracking antibiotic-resistant staphylococci and pneumococci in hospitals and in the community. International Journal of Medical Microbiology, 2011, 301, 623-629.	3.6	3
292	Comparative Effectiveness Study of Home-Based Interventions to Prevent CA-MRSA Infection Recurrence. Antibiotics, 2021, 10, 1105.	3.7	3
293	Stability of clonally related DNA fingerprints and cell-wall peptide patterns in geographic isolates of multiresistant epidemic clones of Streptococcus pneumoniae. International Journal of Infectious Diseases, 1997, 2, 91-98.	3.3	2
294	Evolution of Molecular Techniques for the Characterization of MRSA Clones. , 2012, , 571-592.		2
295	The use of whole genome sequencing to solve an epidemiological puzzle. EMBO Molecular Medicine, 2013, 5, 486-487.	6.9	2
296	Ability of Antibiotic-Resistant Nonvaccine-Type Pneumococcal Clones to Cause Otitis Media in an Infant Mouse Model of Pneumococcalâ€"Influenza Virus Coinfection. Microbial Drug Resistance, 2016, 22, 97-101.	2.0	2
297	The Staphylococcal Cell Wall. , 0, , 574-591.		1
298	The Cell Wall ofStreptococcus pneumoniae. , 2019, , 284-303.		1
299	The Mechanism of Competence for DNA Uptake and Transformation in Pneumococci. , 1975, , 27-43.		1
300	Multiple Stages in the Evolution of Methicillin-Resistant Staphylococcus aureus. , 0, , 333-346.		1
301	Lessons from the First Antibiotic Era. , 0, , 198-216.		1
302	Topic: Methicillin-resistantStaphylococcus aureus and penicillin-resistant pneumococci. Journal of Urban Health, 1988, 75, 510-510.	3.6	0
303	Topic: Methicillin-resistantStaphylococcus aureus and penicillin-resistant pneumococci. Journal of Urban Health, 1998, 75, 510-510.	3.6	0