

Definitions and guidelines for research on antibiotic per

Nature Reviews Microbiology

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The search for persistence mechanisms continues. <i>Nature Reviews Microbiology</i> , 2019, 17, 589-589.	28.6	0
2	A single amino acid substitution (H451Y) in <i>Leishmania</i> calcium-dependent kinase SCAMK confers high tolerance and resistance to antimony. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 3231-3239.	3.0	7
3	Antimicrobial resistance three ways: healthcare crisis, major concepts and the relevance of biofilms. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	34
4	Forecasting cell fate during antibiotic exposure using stochastic gene expression. <i>Communications Biology</i> , 2019, 2, 259.	4.4	15
5	Bacterial Heterogeneity and Antibiotic Survival: Understanding and Combatting Persistence and Heteroresistance. <i>Molecular Cell</i> , 2019, 76, 255-267.	9.7	123
6	Single cell ecology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190076.	4.0	11
7	Targeting redox heterogeneity to counteract drug tolerance in replicating <i>Mycobacterium tuberculosis</i> . <i>Science Translational Medicine</i> , 2019, 11, .	12.4	76
8	The Crohn's disease-associated <i>Escherichia coli</i> strain LF82 relies on SOS and stringent responses to survive, multiply and tolerate antibiotics within macrophages. <i>PLoS Pathogens</i> , 2019, 15, e1008123.	4.7	44
9	Historical contingency in the evolution of antibiotic resistance after decades of relaxed selection. <i>PLoS Biology</i> , 2019, 17, e3000397.	5.6	45
10	Reaction Kinetic Models of Antibiotic Heteroresistance. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3965.	4.1	5
11	<i>Salmonella</i> persisters promote the spread of antibiotic resistance plasmids in the gut. <i>Nature</i> , 2019, 573, 276-280.	27.8	169
12	Leveraging Peptide Substrate Libraries to Design Inhibitors of Bacterial Lon Protease. <i>ACS Chemical Biology</i> , 2019, 14, 2453-2462.	3.4	12
13	Hypotonic Shock Facilitates Aminoglycoside Killing of Both Nutrient Shift- and Starvation-Induced Bacterial Persister Cells by Rapidly Enhancing Aminoglycoside Uptake. <i>Frontiers in Microbiology</i> , 2019, 10, 2028.	3.5	17
14	Bacterial Persisters and Infection: Past, Present, and Progressing. <i>Annual Review of Microbiology</i> , 2019, 73, 359-385.	7.3	167
15	Transient antibiotic resistance calls for attention. <i>Nature Microbiology</i> , 2019, 4, 1606-1607.	13.3	15
16	Spreading resistance in <i>Salmonella</i> sleep. <i>Nature Reviews Microbiology</i> , 2019, 17, 645-645.	28.6	0
17	Comparison of Starvation-Induced Persister Cells with Antibiotic-Induced Persister Cells. <i>Current Microbiology</i> , 2019, 76, 1495-1502.	2.2	12
18	Discovery and Therapeutic Targeting of Differentiated Biofilm Subpopulations. <i>Frontiers in Microbiology</i> , 2019, 10, 1908.	3.5	28

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19	Commentary: Tolerance and Resistance of <i>Pseudomonas aeruginosa</i> Biofilms to Antimicrobial Agents-How <i>P. aeruginosa</i> Can Escape Antibiotics. <i>Frontiers in Microbiology</i> , 2019, 10, 2164.	3.5	9
20	Antibiotics: Combatting Tolerance To Stop Resistance. <i>MBio</i> , 2019, 10, .	4.1	103
21	Quorum sensing modulates the formation of virulent <i>Legionella</i> persisters within infected cells. <i>Nature Communications</i> , 2019, 10, 5216.	12.8	30
22	Muropeptides Stimulate Growth Resumption from Stationary Phase in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2019, 9, 18043.	3.3	10
23	Hijacking of immune defences by biofilms: a multifront strategy. <i>Biofouling</i> , 2019, 35, 1055-1074.	2.2	54
24	Lyme Disease Frontiers: Reconciling <i>Borrelia</i> Biology and Clinical Conundrums. <i>Pathogens</i> , 2019, 8, 299.	2.8	25
25	AcrB: a mean, keen, drug efflux machine. <i>Annals of the New York Academy of Sciences</i> , 2020, 1459, 38-68.	3.8	99
26	Constructing and deconstructing the bacterial cell wall. <i>Protein Science</i> , 2020, 29, 629-646.	7.6	41
27	Proteomic Investigation of Tolerant <i>Escherichia coli</i> Populations from Cyclic Antibiotic Treatment. <i>Journal of Proteome Research</i> , 2020, 19, 900-913.	3.7	39
28	Antibacterial Liquid Metals: Biofilm Treatment <i>via</i> Magnetic Activation. <i>ACS Nano</i> , 2020, 14, 802-817.	14.6	198
29	Proteolytic Queues at ClpXP Increase Antibiotic Tolerance. <i>ACS Synthetic Biology</i> , 2020, 9, 95-103.	3.8	14
30	Setting Our Sights on Infectious Diseases. <i>ACS Infectious Diseases</i> , 2020, 6, 3-13.	3.8	17
31	Determining the Development of Persisters in Extensively Drug-Resistant <i>Acinetobacter baumannii</i> upon Exposure to Polymyxin B-Based Antibiotic Combinations Using Flow Cytometry. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	13
32	Engineering Chirally Blind Protein Pseudocapsids into Antibacterial Persisters. <i>ACS Nano</i> , 2020, 14, 1609-1622.	14.6	42
33	Pulse Dosing of Antibiotic Enhances Killing of a <i>Staphylococcus aureus</i> Biofilm. <i>Frontiers in Microbiology</i> , 2020, 11, 596227.	3.5	10
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35	Investigating the effects of nisin and free fatty acid combined treatment on <i>Listeria monocytogenes</i> inactivation. <i>LWT - Food Science and Technology</i> , 2020, 133, 110115.	5.2	22
36	The social network: Impact of host and microbial interactions on bacterial antibiotic tolerance and persistence. <i>Cellular Signalling</i> , 2020, 75, 109750.	3.6	19

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37	Antibiotic tolerance. PLoS Pathogens, 2020, 16, e1008892.	4.7	38
38	Mechanisms of Drug-Induced Tolerance in Mycobacterium tuberculosis. Clinical Microbiology Reviews, 2020, 34, .	13.6	66
39	Functional roles of microbial cell-to-cell heterogeneity and emerging technologies for analysis and control. Current Opinion in Microbiology, 2020, 57, 87-94.	5.1	19
40	Lactate production by Staphylococcus aureus biofilm inhibits HDAC11 to reprogramme the host immune response during persistent infection. Nature Microbiology, 2020, 5, 1271-1284.	13.3	102
41	Wide lag time distributions break a trade-off between reproduction and survival in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18729-18736.	7.1	72
42	Salmonella intracellular adaptation is key to understand cephalosporin treatment relapse. EBioMedicine, 2020, 56, 102802.	6.1	2
43	Role of Tobramycin in the Induction and Maintenance of Viable but Non-Culturable Pseudomonas aeruginosa in an In Vitro Biofilm Model. Antibiotics, 2020, 9, 399.	3.7	8
44	High-throughput laboratory evolution reveals evolutionary constraints in Escherichia coli. Nature Communications, 2020, 11, 5970.	12.8	37
45	Next-Generation Antibiotics, Bacteriophage Endolysins, and Nanomaterials for Combating Pathogens. Biochemistry (Moscow), 2020, 85, 1374-1388.	1.5	9
47	<i>In Vitro</i> Studies of Persister Cells. Microbiology and Molecular Biology Reviews, 2020, 84, .	6.6	42
48	Mechanisms Protecting Acinetobacter baumannii against Multiple Stresses Triggered by the Host Immune Response, Antibiotics and Outside-Host Environment. International Journal of Molecular Sciences, 2020, 21, 5498.	4.1	41
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51	Inhibition of indole production increases the activity of quinolone antibiotics against E. coli persisters. Scientific Reports, 2020, 10, 11742.	3.3	14
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53	Staphylococcal Biofilm Development: Structure, Regulation, and Treatment Strategies. Microbiology and Molecular Biology Reviews, 2020, 84, .	6.6	307
54	Delving Into the Functional Meaning of Phenotypic Variation in Mycobacterial Persistence: Who Benefits the Most From Programmed Death of Individual Cells?. Microbiology Insights, 2020, 13, 117863612094530.	2.0	1
55	Campylobacter jejuni 11168H Exposed to Penicillin Forms Persister Cells and Cells With Altered Redox Protein Activity. Frontiers in Cellular and Infection Microbiology, 2020, 10, 565975.	3.9	7

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56	Predicting toxins found in toxin-antitoxin systems with a role in host-induced <i>Burkholderia pseudomallei</i> persistence. <i>Scientific Reports</i> , 2020, 10, 16923.	3.3	6
57	High-Level Antibiotic Tolerance of a Clinically Isolated <i>Enterococcus faecalis</i> Strain. <i>Applied and Environmental Microbiology</i> , 2020, 87, .	3.1	2
58	Combating Antibiotic Tolerance Through Activating Bacterial Metabolism. <i>Frontiers in Microbiology</i> , 2020, 11, 577564.	3.5	23
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62	Incubation with a Complex Orange Essential Oil Leads to Evolved Mutants with Increased Resistance and Tolerance. <i>Pharmaceuticals</i> , 2020, 13, 239.	3.8	8
63	<i>Staphylococcus aureus</i> ATP Synthase Promotes Biofilm Persistence by Influencing Innate Immunity. <i>MBio</i> , 2020, 11, .	4.1	25
64	Dead cells release a "necrosignal"™ that activates antibiotic survival pathways in bacterial swarms. <i>Nature Communications</i> , 2020, 11, 4157.	12.8	48
65	Metabolic stress promotes stop-codon readthrough and phenotypic heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22167-22172.	7.1	19
66	The Persister Character of Clinical Isolates of <i>Staphylococcus aureus</i> Contributes to Faster Evolution to Resistance and Higher Survival in THP-1 Monocytes: A Study With Moxifloxacin. <i>Frontiers in Microbiology</i> , 2020, 11, 587364.	3.5	11
67	Fluorescent macrolide probes " synthesis and use in evaluation of bacterial resistance. <i>RSC Chemical Biology</i> , 2020, 1, 395-404.	4.1	28
68	Bacterial Persister-Cells and Spores in the Food Chain: Their Potential Inactivation by Antimicrobial Peptides (AMPs). <i>International Journal of Molecular Sciences</i> , 2020, 21, 8967.	4.1	14
69	Antitoxin μ Reverses Toxin η -Facilitated Ampicillin Dormants. <i>Toxins</i> , 2020, 12, 801.	3.4	5
70	The within-host evolution of antimicrobial resistance in <i>Mycobacterium tuberculosis</i> . <i>FEMS Microbiology Reviews</i> , 2021, 45, .	8.6	23
71	Understanding tolerance to cell wall-active antibiotics. <i>Annals of the New York Academy of Sciences</i> , 2021, 1496, 35-58.	3.8	22
72	Persistent Cancer Cells: The Deadly Survivors. <i>Cell</i> , 2020, 183, 860-874.	28.9	157
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74	Phenol-Soluble Modulins Modulate Persister Cell Formation in <i>Staphylococcus aureus</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 573253.	3.5	11
75	In Vivo Imaging with Genetically Encoded Redox Biosensors. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8164.	4.1	33
76	Antimicrobial Peptide Induced-Stress Renders <i>Staphylococcus aureus</i> Susceptible to Toxic Nucleoside Analogs. <i>Frontiers in Immunology</i> , 2020, 11, 1686.	4.8	7
77	Clinical Mutations That Partially Activate the Stringent Response Confer Multidrug Tolerance in <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	16
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79	Identification of FDA-approved antivirulence drugs targeting the <i>Pseudomonas aeruginosa</i> quorum sensing effector protein PqsE. <i>Virulence</i> , 2020, 11, 652-668.	4.4	28
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81	Antimicrobial Resistance in ESKAPE Pathogens. <i>Clinical Microbiology Reviews</i> , 2020, 33, .	13.6	898
82	Characterization of fosfomycin heteroresistance among multidrug-resistant <i>Escherichia coli</i> isolates from hospitalized patients in Rio de Janeiro, Brazil. <i>Journal of Global Antimicrobial Resistance</i> , 2020, 22, 584-593.	2.2	8
83	Extreme Antibiotic Persistence via Heterogeneity-Generating Mutations Targeting Translation. <i>MSystems</i> , 2020, 5, .	3.8	28
84	Evolutionary causes and consequences of bacterial antibiotic persistence. <i>Nature Reviews Microbiology</i> , 2020, 18, 479-490.	28.6	113
85	Anti-MRSA agent discovery using <i>Caenorhabditis elegans</i> -based high-throughput screening. <i>Journal of Microbiology</i> , 2020, 58, 431-444.	2.8	10
86	Bacterial metabolic heterogeneity: origins and applications in engineering and infectious disease. <i>Current Opinion in Biotechnology</i> , 2020, 64, 183-189.	6.6	19
87	Drug-induced tolerance: the effects of antibiotic pre-exposure in <i>Stenotrophomonas maltophilia</i> . <i>Future Microbiology</i> , 2020, 15, 497-508.	2.0	6
88	Mutations in ArgS Arginine-tRNA Synthetase Confer Additional Antibiotic Tolerance Protection to Extended-Spectrum- β -Lactamase-Producing <i>Burkholderia thailandensis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	1
89	A Physiological Basis for Nonheritable Antibiotic Resistance. <i>MBio</i> , 2020, 11, .	4.1	39
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91	An RNA biology perspective on species-specific programmable RNA antibiotics. <i>Molecular Microbiology</i> , 2020, 113, 550-559.	2.5	30

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95	Monocyte metabolic reprogramming promotes pro-inflammatory activity and <i>Staphylococcus aureus</i> biofilm clearance. <i>PLoS Pathogens</i> , 2020, 16, e1008354.	4.7	49
96	Local and Universal Action: The Paradoxes of Indole Signalling in Bacteria. <i>Trends in Microbiology</i> , 2020, 28, 566-577.	7.7	55
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104	A pursuit of <i>Staphylococcus aureus</i> continues: a role of persister cells. <i>Archives of Pharmacal Research</i> , 2020, 43, 630-638.	6.3	36
105	Antimicrobial Susceptibility Testing of Antimicrobial Peptides to Better Predict Efficacy. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 326.	3.9	70
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111	Antibiotic resistance: turning evolutionary principles into clinical reality. <i>FEMS Microbiology Reviews</i> , 2020, 44, 171-188.	8.6	154
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114	When antibiotics fail: a clinical and microbiological perspective on antibiotic tolerance and persistence of Staphylococcus aureus. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 1071-1086.	3.0	37
115	Innovative Technologies for Market Leadership. <i>Future of Business and Finance</i> , 2020, , .	0.4	5
116	Tolerance and Persister Formation in Oral Streptococci. <i>Antibiotics</i> , 2020, 9, 167.	3.7	6
117	Linking bacterial growth, survival, and multicellularity “small signaling molecules as triggers and drivers. <i>Current Opinion in Microbiology</i> , 2020, 55, 57-66.	5.1	59
118	Chemical, Metabolic, and Cellular Characterization of a FtsZ Inhibitor Effective Against Burkholderia cenocepacia. <i>Frontiers in Microbiology</i> , 2020, 11, 562.	3.5	5
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120	Compounding Effects of Climate Warming and Antibiotic Resistance. <i>IScience</i> , 2020, 23, 101024.	4.1	54
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122	Antimicrobial zinc toxicity in Mf's: ZnT1 pays the toll. <i>Journal of Leukocyte Biology</i> , 2021, 109, 281-282.	3.3	0
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127	Pseudomonas aeruginosa adaptation and evolution in patients with cystic fibrosis. <i>Nature Reviews Microbiology</i> , 2021, 19, 331-342.	28.6	213

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129	The Polyaminoisoprenyl Potentiator NV716 Revives Old Disused Antibiotics against Intracellular Forms of Infection by Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	9
130	Quorum sensing controls persistence, resuscitation, and virulence of <i>Legionella</i> subpopulations in biofilms. ISME Journal, 2021, 15, 196-210.	9.8	36
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139	Undecanoic Acid, Lauric Acid, and N-Tridecanoic Acid Inhibit <i>Escherichia coli</i> Persistence and Biofilm Formation. Journal of Microbiology and Biotechnology, 2021, 31, 130-136.	2.1	14
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145	The multifaceted nature of antimicrobial peptides: current synthetic chemistry approaches and future directions. Chemical Society Reviews, 2021, 50, 7820-7880.	38.1	187

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148	Contribution of Drugs Interfering with Protein and Cell Wall Synthesis to the Persistence of <i>Pseudomonas aeruginosa</i> Biofilms: An In Vitro Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1628.	4.1	1
149	Metabolites Potentiate Nitrofurans in Nongrowing <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	8
150	Reversing Bacterial Resistance to Gold Nanoparticles by Size Modulation. <i>Nano Letters</i> , 2021, 21, 1992-2000.	9.1	46
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152	Approaches for characterizing and tracking hospital-associated multidrug-resistant bacteria. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 2585-2606.	5.4	21
153	MazF toxin causes alterations in <i>Staphylococcus aureus</i> transcriptome, translome and proteome that underlie bacterial dormancy. <i>Nucleic Acids Research</i> , 2021, 49, 2085-2101.	14.5	14
154	Antibiotics functionalization intervened morphological, chemical and electronic modifications in chitosan nanoparticles. <i>Nano Structures Nano Objects</i> , 2021, 25, 100657.	3.5	8
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158	Antibiotics modulate attractive interactions in bacterial colonies affecting survivability under combined treatment. <i>PLoS Pathogens</i> , 2021, 17, e1009251.	4.7	15
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