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List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,123
citations

172457

29
h-index

214800

47
g-index

50
all docs

50
docs citations

50
times ranked

3489
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial and temporal organization of replicating <i>Escherichia coli</i> chromosomes. <i>Molecular Microbiology</i> , 2003, 49, 731-743.	2.5	360
2	Teichoic acids are temporal and spatial regulators of peptidoglycan cross-linking in <i>Staphylococcus aureus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18991-18996.	7.1	225
3	Cell shape dynamics during the staphylococcal cell cycle. <i>Nature Communications</i> , 2015, 6, 8055.	12.8	208
4	Complementation of the Essential Peptidoglycan Transpeptidase Function of Penicillin-Binding Protein 2 (PBP2) by the Drug Resistance Protein PBP2A in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2001, 183, 6525-6531.	2.2	194
5	Inhibition of the expression of penicillin resistance in <i>Streptococcus pneumoniae</i> by inactivation of cell wall muropeptide branching genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 4891-4896.	7.1	165
6	Peptidoglycan synthesis drives an FtsZ-treadmilling-independent step of cytokinesis. <i>Nature</i> , 2018, 554, 528-532.	27.8	149
7	Antibiotic Resistance As a Stress Response: Complete Sequencing of a Large Number of Chromosomal Loci in <i>Staphylococcus aureus</i> Strain COL That Impact on the Expression of Resistance to Methicillin. <i>Microbial Drug Resistance</i> , 1999, 5, 163-175.	2.0	147
8	<i>Staphylococcus aureus</i> PBP4 Is Essential for β -Lactam Resistance in Community-Acquired Methicillin-Resistant Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 3955-3966.	3.2	146
9	Tracking of controlled <i>Escherichia coli</i> replication fork stalling and restart at repressor-bound DNA in vivo. <i>EMBO Journal</i> , 2006, 25, 2596-2604.	7.8	107
10	Requirements of peptidoglycan structure that allow detection by the <i>Drosophila</i> Toll pathway. <i>EMBO Reports</i> , 2005, 6, 327-333.	4.5	99
11	Sensing of Gram-positive bacteria in <i>Drosophila</i> : GGBP1 is needed to process and present peptidoglycan to PGRP-SA. <i>EMBO Journal</i> , 2006, 25, 5005-5014.	7.8	88
12	<i>Staphylococcus aureus</i> Survives with a Minimal Peptidoglycan Synthesis Machine but Sacrifices Virulence and Antibiotic Resistance. <i>PLoS Pathogens</i> , 2015, 11, e1004891.	4.7	82
13	Fluorescence Ratio Imaging Microscopy Shows Decreased Access of Vancomycin to Cell Wall Synthetic Sites in Vancomycin-Resistant <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 3627-3633.	3.2	74
14	Recombination and chromosome segregation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 61-69.	4.0	70
15	L-Rhamnosylation of <i>Listeria monocytogenes</i> Wall Teichoic Acids Promotes Resistance to Antimicrobial Peptides by Delaying Interaction with the Membrane. <i>PLoS Pathogens</i> , 2015, 11, e1004919.	4.7	70
16	The murMN operon: A functional link between antibiotic resistance and antibiotic tolerance in <i>Streptococcus pneumoniae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1550-1555.	7.1	60
17	Characterization of the murMN Operon Involved in the Synthesis of Branched Peptidoglycan Peptides in <i>Streptococcus pneumoniae</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 27768-27774.	3.4	57
18	Replication fork blockage by transcription factor-DNA complexes in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2006, 34, 5194-5202.	14.5	49

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19	Wall Teichoic Acids of <i>Staphylococcus aureus</i> Limit Recognition by the <i>Drosophila</i> Peptidoglycan Recognition Protein-SA to Promote Pathogenicity. <i>PLoS Pathogens</i> , 2011, 7, e1002421.	4.7	46
20	Distribution of the Mosaic Structured murM Genes among Natural Populations of <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2000, 182, 6798-6805.	2.2	45
21	Thioridazine Induces Major Changes in Global Gene Expression and Cell Wall Composition in Methicillin-Resistant <i>Staphylococcus aureus</i> USA300. <i>PLoS ONE</i> , 2013, 8, e64518.	2.5	44
22	Cell wall branches, penicillin resistance and the secrets of the MurM protein. <i>Trends in Microbiology</i> , 2003, 11, 547-553.	7.7	42
23	Hydrolysis of peptidoglycan is modulated by amidation of <i>meso</i> -diaminopimelic acid and M_{2+} in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2017, 104, 972-988.	2.5	42
24	Role of murE in the Expression of β -Lactam Antibiotic Resistance in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2004, 186, 1705-1713.	2.2	41
25	Synthesis of capsular polysaccharide at the division septum of <i>Streptococcus pneumoniae</i> is dependent on a bacterial tyrosine kinase. <i>Molecular Microbiology</i> , 2011, 82, 515-534.	2.5	41
26	The pentaglycine bridges of <i>Staphylococcus aureus</i> peptidoglycan are essential for cell integrity. <i>Scientific Reports</i> , 2019, 9, 5010.	3.3	38
27	Peptidoglycan Branched Stem Peptides Contribute to <i>Streptococcus pneumoniae</i> Virulence by Inhibiting Pneumolysin Release. <i>PLoS Pathogens</i> , 2015, 11, e1004996.	4.7	37
28	Peptidoglycan recognition protein-SD provides versatility of receptor formation in <i>Drosophila</i> immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11881-11886.	7.1	35
29	An early cytoplasmic step of peptidoglycan synthesis is associated to MreB in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2014, 91, 348-362.	2.5	35
30	The Invertebrate Lysozyme Effector ILYS-3 Is Systemically Activated in Response to Danger Signals and Confers Antimicrobial Protection in <i>C. elegans</i> . <i>PLoS Pathogens</i> , 2016, 12, e1005826.	4.7	33
31	Bacterial autolysins trim cell surface peptidoglycan to prevent detection by the <i>Drosophila</i> innate immune system. <i>ELife</i> , 2014, 3, e02277.	6.0	32
32	Accessibility to Peptidoglycan Is Important for the Recognition of Gram-Positive Bacteria in <i>Drosophila</i> . <i>Cell Reports</i> , 2019, 27, 2480-2492.e6.	6.4	32
33	Functional Analysis of <i>Streptococcus pneumoniae</i> MurM Reveals the Region Responsible for Its Specificity in the Synthesis of Branched Cell Wall Peptides. <i>Journal of Biological Chemistry</i> , 2001, 276, 39618-39628.	3.4	31
34	Revisiting Anti-tuberculosis Therapeutic Strategies That Target the Peptidoglycan Structure and Synthesis. <i>Frontiers in Microbiology</i> , 2019, 10, 190.	3.5	31
35	Cell Wall Glycans Mediate Recognition of the Dairy Bacterium <i>Streptococcus thermophilus</i> by Bacteriophages. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	30
36	A comparative genomics approach for identifying host-range determinants in <i>Streptococcus thermophilus</i> bacteriophages. <i>Scientific Reports</i> , 2019, 9, 7991.	3.3	26

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37	The Role of murMNO operon in Penicillin Resistance and Antibiotic Tolerance of <i>Streptococcus pneumoniae</i> . <i>Microbial Drug Resistance</i> , 2001, 7, 303-316.	2.0	24
38	Construction of Improved Tools for Protein Localization Studies in <i>Streptococcus pneumoniae</i> . <i>PLoS ONE</i> , 2013, 8, e55049.	2.5	23
39	Analysis of Cell Wall Teichoic Acids in <i>Staphylococcus aureus</i> . <i>Methods in Molecular Biology</i> , 2016, 1440, 201-213.	0.9	17
40	eHooke: A tool for automated image analysis of spherical bacteria based on cell cycle progression. <i>Biological Imaging</i> , 2021, 1, e3.	2.2	11
41	A molecular link between cell wall biosynthesis, translation fidelity, and stringent response in <i>Streptococcus pneumoniae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
42	A top-down chemo-enzymatic approach towards N-acetylglucosamine-N-acetylmuramic oligosaccharides: Chitosan as a reliable template. <i>Carbohydrate Polymers</i> , 2019, 224, 115133.	10.2	7
43	The Mycobacteriophage Ms6 LysB N-Terminus Displays Peptidoglycan Binding Affinity. <i>Viruses</i> , 2021, 13, 1377.	3.3	6
44	Optimization of Fluorescent Tools for Cell Biology Studies in Gram-Positive Bacteria. <i>PLoS ONE</i> , 2014, 9, e113796.	2.5	5
45	From a Natural Polymer to Relevant NAG&NAM Precursors. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 2544-2551.	2.7	5
46	Assembly of Peptidoglycan Fragments&A Synthetic Challenge. <i>Pharmaceuticals</i> , 2020, 13, 392.	3.8	2
47	Encapsulation of the septal cell wall protects <i>Streptococcus pneumoniae</i> from its major peptidoglycan hydrolase and host defenses. <i>PLoS Pathogens</i> , 2022, 18, e1010516.	4.7	2