

Christopher Weidenmaier

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

5,196
citations

159358

30
h-index

205818

48
g-index

53
all docs

53
docs citations

53
times ranked

6059
citing authors

#	ARTICLE	IF	CITATIONS
1	Human commensals producing a novel antibiotic impair pathogen colonization. <i>Nature</i> , 2016, 535, 511-516.	13.7	667
2	Teichoic acids and related cell-wall glycopolymers in Gram-positive physiology and host interactions. <i>Nature Reviews Microbiology</i> , 2008, 6, 276-287.	13.6	633
3	Role of teichoic acids in <i>Staphylococcus aureus</i> nasal colonization, a major risk factor in nosocomial infections. <i>Nature Medicine</i> , 2004, 10, 243-245.	15.2	503
4	d-Alanylation of Teichoic Acids Promotes Group A <i>Streptococcus</i> Antimicrobial Peptide Resistance, Neutrophil Survival, and Epithelial Cell Invasion. <i>Journal of Bacteriology</i> , 2005, 187, 6719-6725.	1.0	222
5	The commensal lifestyle of <i>Staphylococcus aureus</i> and its interactions with the nasal microbiota. <i>Nature Reviews Microbiology</i> , 2017, 15, 675-687.	13.6	222
6	<i>Staphylococcus aureus</i> Strains Lacking d-Alanine Modifications of Teichoic Acids Are Highly Susceptible to Human Neutrophil Killing and Are Virulence Attenuated in Mice. <i>Journal of Infectious Diseases</i> , 2002, 186, 214-219.	1.9	220
7	Release of <i>Staphylococcus aureus</i> extracellular vesicles and their application as a vaccine platform. <i>Nature Communications</i> , 2018, 9, 1379.	5.8	213
8	Lack of Wall Teichoic Acids in <i>Staphylococcus aureus</i> Leads to Reduced Interactions with Endothelial Cells and to Attenuated Virulence in a Rabbit Model of Endocarditis. <i>Journal of Infectious Diseases</i> , 2005, 191, 1771-1777.	1.9	207
9	Nutrient Limitation Governs <i>Staphylococcus aureus</i> Metabolism and Niche Adaptation in the Human Nose. <i>PLoS Pathogens</i> , 2014, 10, e1003862.	2.1	166
10	Influence of Wall Teichoic Acid on Lysozyme Resistance in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2007, 189, 280-283.	1.0	156
11	DltABCD- and MprF-Mediated Cell Envelope Modifications of <i>Staphylococcus aureus</i> Confer Resistance to Platelet Microbicidal Proteins and Contribute to Virulence in a Rabbit Endocarditis Model. <i>Infection and Immunity</i> , 2005, 73, 8033-8038.	1.0	148
12	<i>Staphylococcus aureus</i> determinants for nasal colonization. <i>Trends in Microbiology</i> , 2012, 20, 243-250.	3.5	127
13	Correlation of Daptomycin Resistance in a Clinical <i>Staphylococcus aureus</i> Strain with Increased Cell Wall Teichoic Acid Production and d-Alanylation. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 3922-3928.	1.4	117
14	Phenotypic and Genotypic Characterization of Daptomycin-Resistant Methicillin-Resistant <i>Staphylococcus aureus</i> Strains: Relative Roles of mprF and dlt Operons. <i>PLoS ONE</i> , 2014, 9, e107426.	1.1	105
15	Ultralarge von Willebrand Factor Fibers Mediate Luminal <i>Staphylococcus aureus</i> Adhesion to an Intact Endothelial Cell Layer Under Shear Stress. <i>Circulation</i> , 2013, 128, 50-59.	1.6	102
16	The Fall of a Dogma? Unexpected High T-Cell Memory Response to <i>Staphylococcus aureus</i> in Humans. <i>Journal of Infectious Diseases</i> , 2015, 212, 830-838.	1.9	97
17	Wall Teichoic Acid Protects <i>Staphylococcus aureus</i> against Antimicrobial Fatty Acids from Human Skin. <i>Journal of Bacteriology</i> , 2009, 191, 4482-4484.	1.0	96
18	Bacterial Resistance to Antimicrobial Host Defenses - An Emerging Target for Novel Antiinfective Strategies?. <i>Current Drug Targets</i> , 2003, 4, 643-649.	1.0	92

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19	A Nasal Epithelial Receptor for <i>Staphylococcus aureus</i> WTA Governs Adhesion to Epithelial Cells and Modulates Nasal Colonization. <i>PLoS Pathogens</i> , 2014, 10, e1004089.	2.1	91
20	Differential roles of sortase-anchored surface proteins and wall teichoic acid in <i>Staphylococcus aureus</i> nasal colonization. <i>International Journal of Medical Microbiology</i> , 2008, 298, 505-513.	1.5	87
21	Increased Cell Wall Teichoic Acid Production and D-alanylation Are Common Phenotypes among Daptomycin-Resistant Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) Clinical Isolates. <i>PLoS ONE</i> , 2013, 8, e67398.	1.1	86
22	Wall Teichoic Acid Glycosylation Governs <i>Staphylococcus aureus</i> Nasal Colonization. <i>MBio</i> , 2015, 6, e00632.	1.8	84
23	Wall teichoic acids mediate increased virulence in <i>Staphylococcus aureus</i> . <i>Nature Microbiology</i> , 2017, 2, 16257.	5.9	81
24	Wall Teichoic Acid Deficiency in <i>Staphylococcus aureus</i> Confers Selective Resistance to Mammalian Group IIA Phospholipase A ₂ and Human β -Defensin 3. <i>Infection and Immunity</i> , 2008, 76, 2169-2176.	1.0	61
25	Antibiotic Selection Pressure Determination through Sequence-Based Metagenomics. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 7335-7345.	1.4	61
26	Entry, Intracellular Survival, and Multinucleated-Giant-Cell-Forming Activity of <i>Burkholderia pseudomallei</i> in Human Primary Phagocytic and Nonphagocytic Cells. <i>Infection and Immunity</i> , 2017, 85, .	1.0	50
27	Analysis of a long-term outbreak of XDR <i>Pseudomonas aeruginosa</i> : a molecular epidemiological study. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 1322-1330.	1.3	46
28	Langerhans Cells Sense <i>Staphylococcus aureus</i> Wall Teichoic Acid through Langerin To Induce Inflammatory Responses. <i>MBio</i> , 2019, 10, .	1.8	46
29	Glucose Augments Killing Efficiency of Daptomycin Challenged <i>Staphylococcus aureus</i> Persisters. <i>PLoS ONE</i> , 2016, 11, e0150907.	1.1	43
30	Cell wall glycopolymers of Firmicutes and their role as nonprotein adhesins. <i>FEBS Letters</i> , 2016, 590, 3758-3771.	1.3	37
31	<i>Staphylococcus epidermidis</i> clones express <i>Staphylococcus aureus</i> -type wall teichoic acid to shift from a commensal to pathogen lifestyle. <i>Nature Microbiology</i> , 2021, 6, 757-768.	5.9	37
32	Structure and Function of Surface Polysaccharides of <i>Staphylococcus aureus</i> . <i>Current Topics in Microbiology and Immunology</i> , 2015, 409, 57-93.	0.7	35
33	The Zwitterionic Cell Wall Teichoic Acid of <i>Staphylococcus aureus</i> Provokes Skin Abscesses in Mice by a Novel CD4+ T-Cell-Dependent Mechanism. <i>PLoS ONE</i> , 2010, 5, e13227.	1.1	32
34	<i>Staphylococcus aureus</i> subverts cutaneous defense by D-alanylation of teichoic acids. <i>Experimental Dermatology</i> , 2013, 22, 294-296.	1.4	31
35	Function and regulation of <i>Staphylococcus aureus</i> wall teichoic acids and capsular polysaccharides. <i>International Journal of Medical Microbiology</i> , 2019, 309, 151333.	1.5	31
36	Phenotypic heterogeneity and temporal expression of the capsular polysaccharide in <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , 2015, 98, 1073-1088.	1.2	27

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37	Analysis of Staphylococcus aureus wall teichoic acid glycoepitopes by Fourier Transform Infrared Spectroscopy provides novel insights into the staphylococcal glycode. Scientific Reports, 2018, 8, 1889.	1.6	24
38	Characterization of the Structure and Biological Functions of a Capsular Polysaccharide Produced by Staphylococcus saprophyticus. Journal of Bacteriology, 2010, 192, 4618-4626.	1.0	22
39	Proteolytic Degradation of reduced Human Beta Defensin 1 generates a Novel Antibiotic Octapeptide. Scientific Reports, 2019, 9, 3640.	1.6	20
40	Staphylococcal Enterotoxins Dose-Dependently Modulate the Generation of Myeloid-Derived Suppressor Cells. Frontiers in Cellular and Infection Microbiology, 2018, 8, 321.	1.8	17
41	Revisiting the regulation of the capsular polysaccharide biosynthesis gene cluster in <i>Staphylococcus aureus</i> . Molecular Microbiology, 2019, 112, 1083-1099.	1.2	17
42	Reply to "Nasal colonization by Staphylococcus aureus". Nature Medicine, 2004, 10, 447-447.	15.2	4
43	A Novel Fluorescence-Labeled Curcumin Conjugate: Synthesis, Evaluation and Imaging on Human Cell Lines. Current Pharmaceutical Design, 2018, 24, 1821-1826.	0.9	3
44	Staphylococcus aureus blocks insulin function. Nature Microbiology, 2018, 3, 533-534.	5.9	2
45	Fluorescein-labeled Bacitracin and Daptomycin Conjugates: Synthesis, Fluorescence Imaging and Evaluation. Medicinal Chemistry, 2016, 13, 57-64.	0.7	2
46	Synthesis of a Novel Curcumin Derivative as a Potential Imaging Probe in Alzheimer's Disease Imaging. Current Alzheimer Research, 2019, 16, 723-731.	0.7	1
47	Chemosensitization of Prostate Carcinoma Cells with a Receptor-directed Smac Conjugate. Medicinal Chemistry, 2016, 12, 412-418.	0.7	1
48	DltABCD-mediated d-alanylation of teichoic acids in Group A Streptococcus confers innate immune resistance. International Congress Series, 2006, 1289, 254-256.	0.2	0