

Lok-To Sham

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,982
citations

331670

21
h-index

477307

29
g-index

33
all docs

33
docs citations

33
times ranked

2048
citing authors

#	ARTICLE	IF	CITATIONS
1	MurJ is the flippase of lipid-linked precursors for peptidoglycan biogenesis. <i>Science</i> , 2014, 345, 220-222.	12.6	278
2	MurJ and a novel lipid II flippase are required for cell wall biogenesis in <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6437-6442.	7.1	166
3	Essential PcsB putative peptidoglycan hydrolase interacts with the essential FtsX _{Spn} cell division protein in <i>Streptococcus pneumoniae</i> D39. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1061-9.	7.1	149
4	FtsEX is required for CwlO peptidoglycan hydrolase activity during cell wall elongation in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2013, 89, 1069-1083.	2.5	145
5	Polymorphism and regulation of the <i>spxB</i> (pyruvate oxidase) virulence factor gene by a CBS HotDog domain protein (SpxR) in serotype 2 <i>Streptococcus pneumoniae</i> . <i>Molecular Microbiology</i> , 2008, 67, 729-746.	2.5	115
6	Maturing <i>Mycobacterium smegmatis</i> peptidoglycan requires non-canonical crosslinks to maintain shape. <i>ELife</i> , 2018, 7, .	6.0	108
7	Requirement of essential P _{2x} and GpsB for septal ring closure in <i>Streptococcus pneumoniae</i> D39. <i>Molecular Microbiology</i> , 2013, 90, 939-955.	2.5	103
8	A new structural paradigm in copper resistance in <i>Streptococcus pneumoniae</i> . <i>Nature Chemical Biology</i> , 2013, 9, 177-183.	8.0	85
9	Selective Penicillin-Binding Protein Imaging Probes Reveal Substructure in Bacterial Cell Division. <i>ACS Chemical Biology</i> , 2012, 7, 1746-1753.	3.4	82
10	Identification and Characterization of Noncoding Small RNAs in <i>Streptococcus pneumoniae</i> Serotype 2 Strain D39. <i>Journal of Bacteriology</i> , 2010, 192, 264-279.	2.2	70
11	Kinetic Characterization of the WalRK _{Spn} (VicRK) Two-Component System of <i>Streptococcus pneumoniae</i> : Dependence of WalK _{Spn} (VicK) Phosphatase Activity on Its PAS Domain. <i>Journal of Bacteriology</i> , 2010, 192, 2346-2358.	2.2	70
12	Influences of Capsule on Cell Shape and Chain Formation of Wild-Type and <i>pcsB</i> Mutants of Serotype 2 <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2009, 191, 3024-3040.	2.2	69
13	Recent advances in pneumococcal peptidoglycan biosynthesis suggest new vaccine and antimicrobial targets. <i>Current Opinion in Microbiology</i> , 2012, 15, 194-203.	5.1	66
14	Characterization of Mutants Deficient in the l,d-Carboxypeptidase (DacB) and WalRK (VicRK) Regulon, Involved in Peptidoglycan Maturation of <i>Streptococcus pneumoniae</i> Serotype 2 Strain D39. <i>Journal of Bacteriology</i> , 2011, 193, 2290-2300.	2.2	57
15	Dynamic Distribution of the SecA and SecY Translocase Subunits and Septal Localization of the HtrA Surface Chaperone/Protease during <i>Streptococcus pneumoniae</i> D39 Cell Division. <i>MBio</i> , 2011, 2, .	4.1	57
16	Structure and mutagenic analysis of the lipid II flippase MurJ from <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6709-6714.	7.1	52
17	Involvement of FtsE ATPase and FtsX Extracellular Loops 1 and 2 in FtsEX-PcsB Complex Function in Cell Division of <i>Streptococcus pneumoniae</i> D39. <i>MBio</i> , 2013, 4, .	4.1	48
18	Cell envelope defects of different capsule null mutants in K1 hypervirulent <i>Klebsiella pneumoniae</i> can affect bacterial pathogenesis. <i>Molecular Microbiology</i> , 2020, 113, 889-905.	2.5	47

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19	Localization and Cellular Amounts of the WalRKJ (VicRKX) Two-Component Regulatory System Proteins in Serotype 2 <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2010, 192, 4388-4394.	2.2	46
20	DegUâ€phosphate activates expression of the anti-â€sigma factor FlgM in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2011, 81, 1092-1108.	2.5	44
21	A viral protein antibiotic inhibits lipid II flippase activity. <i>Nature Microbiology</i> , 2017, 2, 1480-1484.	13.3	33
22	Capillary leakage provides nutrients and antioxidants for rapid pneumococcal proliferation in influenza-infected lower airways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31386-31397.	7.1	28
23	Loss of specificity variants of WzxC suggest that substrate recognition is coupled with transporter opening in MOPâ€family flippases. <i>Molecular Microbiology</i> , 2018, 109, 633-641.	2.5	16
24	Decoding capsule synthesis in <i>Streptococcus pneumoniae</i> . <i>FEMS Microbiology Reviews</i> , 2021, 45, .	8.6	12
25	High-Throughput Mutagenesis and Cross-Complementation Experiments Reveal Substrate Preference and Critical Residues of the Capsule Transporters in <i>Streptococcus pneumoniae</i> . <i>MBio</i> , 2021, 12, e0261521.	4.1	10
26	RNA thermosensors facilitate <i>Streptococcus pneumoniae</i> and <i>Haemophilus influenzae</i> immune evasion. <i>PLoS Pathogens</i> , 2021, 17, e1009513.	4.7	8
27	The bacterial tyrosine kinase system CpsBCD governs the length of capsule polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	7
28	Mechanistic Study of Utilization of Water-Insoluble <i>Saccharomyces cerevisiae</i> Glucans by <i>Bifidobacterium breve</i> Strain JCM1192. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	6
29	SARS-CoV-2 Spike Protein and Mouse Coronavirus Inhibit Biofilm Formation by <i>Streptococcus pneumoniae</i> and <i>Staphylococcus aureus</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 3291.	4.1	3