

# Luke J Alderwick

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,618  
citations

361413

20  
h-index

414414

32  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2003  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct liquid extraction surface analysis mass spectrometry of cell wall lipids from mycobacteria: Salt additives for decreased spectral complexity. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8523.	1.5	5
2	Structure-based in silico approaches for drug discovery against <i>Mycobacterium tuberculosis</i> . <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3708-3719.	4.1	10
3	HIV Drugs Inhibit Transfer of Plasmids Carrying Extended-Spectrum $\beta$ -Lactamase and Carbapenemase Genes. <i>MBio</i> , 2020, 11, .	4.1	22
4	Inhibition of <i>Mycobacterium tuberculosis</i> InhA: Design, synthesis and evaluation of new di-triclosan derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115744.	3.0	14
5	OR28-03 Drug Repurposing Identifies Inhibitors of the Proteostasis Network to Augment Radioiodine Uptake in Combinatorial Approaches Targeting Thyroid Cancer. <i>Journal of the Endocrine Society</i> , 2020, 4, .	0.2	0
6	Crystal structure of the TreS:Pep2 complex, initiating $\beta$ -glucan synthesis in the GlgE pathway of mycobacteria. <i>Journal of Biological Chemistry</i> , 2019, 294, 7348-7359.	3.4	8
7	Utilisation of the Prestwick Chemical Library to identify drugs that inhibit the growth of mycobacteria. <i>PLoS ONE</i> , 2019, 14, e0213713.	2.5	13
8	Development of anti-virulence polymers targeting mycobacteria. <i>Access Microbiology</i> , 2019, 1, .	0.5	0
9	AftD functions as an $\alpha$ -D-glucosyltransferase involved in the biosynthesis of the mycobacterial cell wall core. <i>Cell Surface</i> , 2018, 1, 2-14.	3.0	14
10	The singular <i>Corynebacterium glutamicum</i> Emb arabinofuranosyltransferase polymerises the $\alpha$ -D-glucosyl arabinan backbone in the early stages of cell wall arabinan biosynthesis. <i>Cell Surface</i> , 2018, 2, 38-53.	3.0	8
11	Disruption of Mycobacterial AftB Results in Complete Loss of Terminal $\alpha$ -D-Glucosyl Arabinofuranose Residues of Lipoarabinomannan. <i>ACS Chemical Biology</i> , 2017, 12, 183-190.	3.4	17
12	Lipopolysaccharide structure impacts the entry kinetics of bacterial outer membrane vesicles into host cells. <i>PLoS Pathogens</i> , 2017, 13, e1006760.	4.7	63
13	Lcp1 Is a Phosphotransferase Responsible for Ligating Arabinogalactan to Peptidoglycan in <i>Mycobacterium tuberculosis</i> . <i>MBio</i> , 2016, 7, .	4.1	42
14	Ankyrin-mediated self-protection during cell invasion by the bacterial predator <i>Bdellovibrio bacteriovorus</i> . <i>Nature Communications</i> , 2015, 6, 8884.	12.8	37
15	The Mycobacterial Cell Wall $\alpha$ -D-Glucosyl Peptidoglycan and Arabinogalactan. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015, 5, a021113.	6.2	168
16	Non-Replicating <i>Mycobacterium tuberculosis</i> Elicits a Reduced Infectivity Profile with Corresponding Modifications to the Cell Wall and Extracellular Matrix. <i>PLoS ONE</i> , 2014, 9, e87329.	2.5	64
17	Benzothiazinones Mediate Killing of <i>Corynebacterineae</i> by Blocking Decaprenyl Phosphate Recycling Involved in Cell Wall Biosynthesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 6177-6187.	3.4	34
18	Elucidation of a protein-protein interaction network involved in <i>Corynebacterium glutamicum</i> cell wall biosynthesis as determined by bacterial two-hybrid analysis. <i>Glycoconjugate Journal</i> , 2014, 31, 475-483.	2.7	12

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19	Biochemical and Structural Characterization of Mycobacterial Aspartyl-tRNA Synthetase AspS, a Promising TB Drug Target. PLoS ONE, 2014, 9, e113568.	2.5	31
20	Synthesis of Î±-Glucan in Mycobacteria Involves a Hetero-octameric Complex of Trehalose Synthase TreS and Maltokinase Pep2. ACS Chemical Biology, 2013, 8, 2245-2255.	3.4	27
21	Structural basis of inhibition of <i>Mycobacterium tuberculosis</i> DprE1 by benzothiazinone inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11354-11359.	7.1	194
22	Biochemical characterization of the Mycobacterium tuberculosis phosphoribosyl-1-pyrophosphate synthetase. Glycobiology, 2011, 21, 410-425.	2.5	41
23	The C-Terminal Domain of the Arabinosyltransferase Mycobacterium tuberculosis EmbC Is a Lectin-Like Carbohydrate Binding Module. PLoS Pathogens, 2011, 7, e1001299.	4.7	55
24	A truncated lipoglycan from mycobacteria with altered immunological properties. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2634-2639.	7.1	47
25	Identification of a Terminal Rhamnopyranosyltransferase (RptA) Involved in <i>Corynebacterium glutamicum</i> Cell Wall Biosynthesis. Journal of Bacteriology, 2009, 191, 4879-4887.	2.2	12
26	Biosynthesis of mycobacterial arabinogalactan: identification of a novel Î±(1â†’3) arabinofuranosyltransferase. Molecular Microbiology, 2008, 69, 1191-1206.	2.5	88
27	Expression, purification and characterisation of soluble GlfT and the identification of a novel galactofuranosyltransferase Rv3782 involved in priming GlfT-mediated galactan polymerisation in Mycobacterium tuberculosis. Protein Expression and Purification, 2008, 58, 332-341.	1.3	37
28	Tuberculosis: a balanced diet of lipids and carbohydrates. Biochemical Society Transactions, 2008, 36, 555-565.	3.4	14
29	Topology and mutational analysis of the single Emb arabinofuranosyltransferase of Corynebacterium glutamicum as a model of Emb proteins of Mycobacterium tuberculosis. Glycobiology, 2007, 17, 210-219.	2.5	36
30	Identification of a Novel Arabinofuranosyltransferase AftB Involved in a Terminal Step of Cell Wall Arabinan Biosynthesis in Corynebacteriaceae, such as Corynebacterium glutamicum and Mycobacterium tuberculosis. Journal of Biological Chemistry, 2007, 282, 14729-14740.	3.4	114
31	Identification of a Novel Arabinofuranosyltransferase (AftA) Involved in Cell Wall Arabinan Biosynthesis in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2006, 281, 15653-15661.	3.4	143
32	Arabinan-deficient mutants of Corynebacterium glutamicum and the consequent flux in decaprenylmonophosphoryl-d-arabinose metabolism. Glycobiology, 2006, 16, 1073-1081.	2.5	39
33	Molecular structure of EmbR, a response element of Ser/Thr kinase signaling in Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2558-2563.	7.1	76
34	Deletion of Cg-emb in Corynebacteriaceae Leads to a Novel Truncated Cell Wall Arabinogalactan, whereas Inactivation of Cg-ubiA Results in an Arabinan-deficient Mutant with a Cell Wall Galactan Core. Journal of Biological Chemistry, 2005, 280, 32362-32371.	3.4	132