

# Delphi Chatterjee

## List of Publications by Citations

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98  
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5,180  
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99  
ext. papers

5,598  
ext. citations

6.4  
avg, IF

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L-index

#	Paper	IF	Citations
98	Mycolactone: a polyketide toxin from <i>Mycobacterium ulcerans</i> required for virulence. <i>Science</i> , <b>1999</b> , 283, 854-7	33.3	520
97	Mycobacterial lipoarabinomannan: an extraordinary lipoheteroglycan with profound physiological effects. <i>Glycobiology</i> , <b>1998</b> , 8, 113-20	5.8	307
96	Trafficking and release of mycobacterial lipids from infected macrophages. <i>Traffic</i> , <b>2000</b> , 1, 235-47	5.7	278
95	Inositol phosphate capping of the nonreducing termini of lipoarabinomannan from rapidly growing strains of <i>Mycobacterium</i> . <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 12380-9	5.4	166
94	Molecular interaction of CD1b with lipoglycan antigens. <i>Immunity</i> , <b>1998</b> , 8, 331-40	32.3	165
93	The mycobacterial cell wall: structure, biosynthesis and sites of drug action. <i>Current Opinion in Chemical Biology</i> , <b>1997</b> , 1, 579-88	9.7	153
92	Evolution of high-level ethambutol-resistant tuberculosis through interacting mutations in decaprenylphosphoryl- $\beta$ -arabinose biosynthetic and utilization pathway genes. <i>Nature Genetics</i> , <b>2013</b> , 45, 1190-7	36.3	150
91	The role of the embA and embB gene products in the biosynthesis of the terminal hexaarabinofuranosyl motif of <i>Mycobacterium smegmatis</i> arabinogalactan. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 48854-62	5.4	132
90	Structural mapping of the glycans from the egg glycoproteins of <i>Schistosoma mansoni</i> and <i>Schistosoma japonicum</i> : identification of novel core structures and terminal sequences. <i>Glycobiology</i> , <b>1997</b> , 7, 663-77	5.8	131
89	Structural definition of acylated phosphatidylinositol mannosides from <i>Mycobacterium tuberculosis</i> : definition of a common anchor for lipomannan and lipoarabinomannan. <i>Glycobiology</i> , <b>1995</b> , 5, 117-27	5.8	119
88	The Emb proteins of mycobacteria direct arabinosylation of lipoarabinomannan and arabinogalactan via an N-terminal recognition region and a C-terminal synthetic region. <i>Molecular Microbiology</i> , <b>2003</b> , 50, 69-76	4.1	113
87	Menaquinone synthesis is critical for maintaining mycobacterial viability during exponential growth and recovery from non-replicating persistence. <i>Molecular Microbiology</i> , <b>2009</b> , 72, 85-97	4.1	106
86	Metabolic profiling of lung granuloma in <i>Mycobacterium tuberculosis</i> infected guinea pigs: ex vivo 1H magic angle spinning NMR studies. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 4186-95	5.6	95
85	The pimB gene of <i>Mycobacterium tuberculosis</i> encodes a mannosyltransferase involved in lipoarabinomannan biosynthesis. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 31625-31	5.4	95
84	Truncated structural variants of lipoarabinomannan in ethambutol drug-resistant strains of <i>Mycobacterium smegmatis</i> . Inhibition of arabinan biosynthesis by ethambutol. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 28682-90	5.4	90
83	Biosynthesis of mycobacterial lipoarabinomannan: role of a branching mannosyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 13664-9	11.5	82
82	The two-domain LysX protein of <i>Mycobacterium tuberculosis</i> is required for production of lysinylated phosphatidylglycerol and resistance to cationic antimicrobial peptides. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000534	7.6	79

81	Structural definition of the non-reducing termini of mannose-capped LAM from Mycobacterium tuberculosis through selective enzymatic degradation and fast atom bombardment-mass spectrometry. <i>Glycobiology</i> , <b>1993</b> , 3, 497-506	5.8	76
80	The identification and location of succinyl residues and the characterization of the interior arabinan region allow for a model of the complete primary structure of Mycobacterium tuberculosis mycolyl arabinogalactan. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 12992-3000	5.4	74
79	Variation in mannose-capped terminal arabinan motifs of lipoarabinomannans from clinical isolates of Mycobacterium tuberculosis and Mycobacterium avium complex. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 3863-71	5.4	73
78	Characterization of Novel Macrolide Toxins, Mycolactones A and B, from a Human Pathogen, Mycobacterium ulcerans. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 6092-6093	16.4	70
77	Structural characterization of glycolipids from the eggs of Schistosoma mansoni and Schistosoma japonicum. <i>Glycobiology</i> , <b>1997</b> , 7, 653-61	5.8	67
76	The variable surface glycolipids of mycobacteria: structures, synthesis of epitopes, and biological properties. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , <b>1995</b> , 51, 169-242	3.7	67
75	Roles of conserved proline and glycosyltransferase motifs of EmbC in biosynthesis of lipoarabinomannan. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 5651-63	5.4	65
74	Mycobacterial glycolipids: isolation, structures, antigenicity, and synthesis of neoantigens. <i>Methods in Enzymology</i> , <b>1989</b> , 179, 215-42	1.7	65
73	The carboxy terminus of EmbC from Mycobacterium smegmatis mediates chain length extension of the arabinan in lipoarabinomannan. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 19512-26	5.4	64
72	Genetic basis for the synthesis of the immunomodulatory mannose caps of lipoarabinomannan in Mycobacterium tuberculosis. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 20027-35	5.4	64
71	5-Methylthiopentose: a new substituent on lipoarabinomannan in Mycobacterium tuberculosis. <i>Journal of Molecular Biology</i> , <b>2002</b> , 316, 89-100	6.5	63
70	Lipoarabinomannan of Mycobacterium: mannose capping by a multifunctional terminal mannosyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 17973-7	11.5	61
69	Identification of the 5-methylthiopentosyl substituent in Mycobacterium tuberculosis lipoarabinomannan. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 3918-22	16.4	61
68	Lipids and Carbohydrates of Mycobacterium tuberculosis <b>2014</b> , 285-306		59
67	Truncated structural variants of lipoarabinomannan in Mycobacterium leprae and an ethambutol-resistant strain of Mycobacterium tuberculosis. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 41227-39	5.4	59
66	New insights into the early steps of phosphatidylinositol mannoside biosynthesis in mycobacteria: PimBUs an essential enzyme of Mycobacterium smegmatis. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 25687-96	5.4	56
65	AftD, a novel essential arabinofuranosyltransferase from mycobacteria. <i>Glycobiology</i> , <b>2009</b> , 19, 1235-47	5.8	53
64	Identification of Mycobacterium tuberculosis clinical isolates with altered phagocytosis by human macrophages due to a truncated lipoarabinomannan. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 31417-28	5.4	53

63	New insights into the biosynthesis of mycobacterial lipomannan arising from deletion of a conserved gene. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 27133-27140	5-4	53
62	Mycobacterial lysocardiolipin is exported from phagosomes upon cleavage of cardiolipin by a macrophage-derived lysosomal phospholipase A2. <i>Journal of Immunology</i> , <b>2001</b> , 167, 2187-92	5-3	53
61	Analysis of antibody responses to Mycobacterium leprae phenolic glycolipid I, lipoarabinomannan, and recombinant proteins to define disease subtype-specific antigenic profiles in leprosy. <i>Vaccine Journal</i> , <b>2011</b> , 18, 260-7		51
60	Rapid structural characterization of the arabinogalactan and lipoarabinomannan in live mycobacterial cells using 2D and 3D HR-MAS NMR: structural changes in the arabinan due to ethambutol treatment and gene mutation are observed. <i>Glycobiology</i> , <b>2005</b> , 15, 139-51	5-8	50
59	Targeting fatty acid biosynthesis for the development of novel chemotherapeutics against Mycobacterium tuberculosis: evaluation of A-ring-modified diphenyl ethers as high-affinity InhA inhibitors. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2007</b> , 51, 3562-7	5-9	48
58	Identification and recombinant expression of a Mycobacterium avium rhamnosyltransferase gene (rtfA) involved in glycopeptidolipid biosynthesis. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 5567-73	3-5	44
57	Metabolomic signatures in guinea pigs infected with epidemic-associated W-Beijing strains of Mycobacterium tuberculosis. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 4873-84	5-6	43
56	Altered expression profile of the surface glycopeptidolipids in drug-resistant clinical isolates of Mycobacterium avium complex. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 9778-85	5-4	42
55	The critical role of embC in Mycobacterium tuberculosis. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 4335-41	3-5	41
54	Isolation of a distinct Mycobacterium tuberculosis mannose-capped lipoarabinomannan isoform responsible for recognition by CD1b-restricted T cells. <i>Glycobiology</i> , <b>2012</b> , 22, 1118-27	5-8	40
53	Characterization of the Antigenic Heterogeneity of Lipoarabinomannan, the Major Surface Glycolipid of , and Complexity of Antibody Specificities toward This Antigen. <i>Journal of Immunology</i> , <b>2018</b> , 200, 3053-3066	5-3	39
52	Chemical synthesis and seroreactivity of O-(3,6-di-O-methyl-beta-D-glucopyranosyl)-(1----4)-O-(2,3-di-O-methyl-alpha-L-rhamnopyranosyl)-(1----9)-oxynonanoyl-bovine serum albumin--the leprosy-specific, natural lipomannan antigen. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 22751-56	2-9	39
51	EmbA is an essential arabinosyltransferase in Mycobacterium tuberculosis. <i>Microbiology (United Kingdom)</i> , <b>2008</b> , 154, 240-248	2-9	39
50	Mycobacterium avium infection and modulation of human macrophage gene expression. <i>Journal of Immunology</i> , <b>2002</b> , 169, 6286-97	5-3	36
49	Characterization of a distinct arabinofuranosyltransferase in Mycobacterium smegmatis. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9650-62	16-4	32
48	Synthetic mannosides act as acceptors for mycobacterial alpha1-6 mannosyltransferase. <i>Bioorganic and Medicinal Chemistry</i> , <b>2001</b> , 9, 815-24	3-4	32
47	Detection of the tuberculosis antigenic marker mannose-capped lipoarabinomannan in pretreated serum by surface-enhanced Raman scattering. <i>Analyst, The</i> , <b>2016</b> , 142, 186-196	5	31
46	A major cell wall lipopeptide of Mycobacterium avium subspecies paratuberculosis. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 5209-15	5-4	30

45	Characterization of a specific arabinosyltransferase activity involved in mycobacterial arabinan biosynthesis. <i>Chemistry and Biology</i> , <b>2006</b> , 13, 787-95		30
44	A bioanalytical method to determine the cell wall composition of <i>Mycobacterium tuberculosis</i> grown in vivo. <i>Analytical Biochemistry</i> , <b>2012</b> , 421, 240-9	3.1	28
43	Detection of lipoarabinomannan in urine and serum of HIV-positive and HIV-negative TB suspects using an improved capture-enzyme linked immuno absorbent assay and gas chromatography/mass spectrometry. <i>Tuberculosis</i> , <b>2018</b> , 111, 178-187	2.6	27
42	<i>Mycobacterium avium</i> 104 deleted of the methyltransferase D gene by allelic replacement lacks serotype-specific glycopeptidolipids and shows attenuated virulence in mice. <i>Molecular Microbiology</i> , <b>2005</b> , 56, 1262-73	4.1	27
41	Synthesis and immunoreactivity of neoglycoproteins containing the trisaccharide unit of phenolic glycolipid I of <i>Mycobacterium leprae</i> . <i>Carbohydrate Research</i> , <b>1988</b> , 183, 241-60	2.9	27
40	Novel O-methylated terminal glucuronic acid characterizes the polar glycopeptidolipids of <i>Mycobacterium habana</i> strain TMC 5135. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 12333-42	5.4	23
39	A Subset of Protective CD4 T Cells Is Activated by Novel Mycobacterial Glycolipid Components. <i>Infection and Immunity</i> , <b>2016</b> , 84, 2449-62	3.7	21
38	Reconstitution of functional mycobacterial arabinosyltransferase AftC proteoliposome and assessment of decaprenylphosphorylarabinose analogues as arabinofuranosyl donors. <i>ACS Chemical Biology</i> , <b>2011</b> , 6, 819-28	4.9	20
37	Transfer of the first arabinofuranose residue to galactan is essential for <i>Mycobacterium smegmatis</i> viability. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 5248-55	3.5	18
36	<i>Mycobacterium avium</i> complex promotes recruitment of monocyte hosts for HIV-1 and bacteria. <i>Journal of Immunology</i> , <b>2002</b> , 169, 3854-62	5.3	18
35	Structures of the glycopeptidolipid antigens of serovars 25 and 26 of the <i>Mycobacterium avium</i> serocomplex, synthesis of allyl glycosides of the outer disaccharide units and serology of the derived neoglycoproteins. <i>Carbohydrate Research</i> , <b>1992</b> , 237, 57-77	2.9	18
34	Structural analysis and biosynthesis gene cluster of an antigenic glycopeptidolipid from <i>Mycobacterium intracellulare</i> . <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 3613-21	3.5	17
33	Synthesis of tetrasaccharides related to the antigenic determinants from the glycopeptidolipid antigens of serovars 9 and 25 in the <i>Mycobacterium avium</i> -M. <i>intracellulare</i> -M. <i>scrofulaceum</i> serocomplex. <i>Carbohydrate Research</i> , <b>1986</b> , 150, 133-50	2.9	17
32	Estimation of D-Arabinose by Gas Chromatography/Mass Spectrometry as Surrogate for Mycobacterial Lipoarabinomannan in Human Urine. <i>PLoS ONE</i> , <b>2015</b> , 10, e0144088	3.7	15
31	A single arabinan chain is attached to the phosphatidylinositol mannosyl core of the major immunomodulatory mycobacterial cell envelope glycoconjugate, lipoarabinomannan. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 30249-30256	5.4	15
30	Lipoarabinomannan from <i>Mycobacterium tuberculosis</i> modulates the generation of reactive nitrogen intermediates by gamma interferon-activated macrophages. <i>FEMS Immunology and Medical Microbiology</i> , <b>1994</b> , 8, 299-305		15
29	A modified synthesis and serological evaluation of neoglycoproteins containing the natural disaccharide of PGL-I from <i>Mycobacterium leprae</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2010</b> , 20, 3250-3	2.9	14
28	The hex-5-enose degradation: zinc dust cleavage of 6-deoxy-6-iodo-D-galactopyranosidic linkages in methylated di- and trisaccharides. <i>Canadian Journal of Chemistry</i> , <b>1984</b> , 62, 2728-2735	0.9	14

27	Importance of specimen pretreatment for the low-level detection of mycobacterial lipoarabinomannan in human serum. <i>Analyst, The</i> , <b>2016</b> , 142, 177-185	5	13
26	Handheld Raman Spectrometer Instrumentation for Quantitative Tuberculosis Biomarker Detection: A Performance Assessment for Point-of-Need Infectious Disease Diagnostics. <i>Applied Spectroscopy</i> , <b>2018</b> , 72, 1104-1115	3.1	13
25	Tuberculosis in the African continent: A comprehensive review. <i>Pathophysiology</i> , <b>2015</b> , 22, 73-83	1.8	13
24	The mycobacterial acyltransferase PapA5 is required for biosynthesis of cell wall-associated phenolic glycolipids. <i>Microbiology (United Kingdom)</i> , <b>2012</b> , 158, 1379-1387	2.9	13
23	Comparative Structural Study of Terminal Ends of Lipoarabinomannan from Mice Infected Lung Tissues and Urine of a Tuberculosis Positive Patient. <i>ACS Infectious Diseases</i> , <b>2020</b> , 6, 291-301	5.5	11
22	Development of a plate-based scintillation proximity assay for the mycobacterial AftB enzyme involved in cell wall arabinan biosynthesis. <i>Bioorganic and Medicinal Chemistry</i> , <b>2010</b> , 18, 7121-31	3.4	10
21	A simplified serological test for leprosy based on a 3,6-di-O-methylglucose-containing synthetic antigen. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>1986</b> , 35, 167-72	3.2	8
20	Lipoglycans of Mycobacterium tuberculosis: isolation, purification, and characterization. <i>Methods in Molecular Biology</i> , <b>2009</b> , 465, 23-45	1.4	8
19	Detection of the tuberculosis biomarker mannose-capped lipoarabinomannan in human serum: Impact of sample pretreatment with perchloric acid. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1046, 140-147	6.6	7
18	Altered composition and functional profile of high-density lipoprotein in leprosy patients. <i>PLoS Neglected Tropical Diseases</i> , <b>2020</b> , 14, e0008138	4.8	7
17	Structural determinants in a glucose-containing lipopolysaccharide from critical for inducing a subset of protective T cells. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 9706-9717	5.4	7
16	Host and pathogen response to bacteriophage engineered against Mycobacterium abscessus lung infection.. <i>Cell</i> , <b>2022</b> ,	56.2	7
15	Urine lipoarabinomannan as a marker for low-risk of NTM infection in the CF airway. <i>Journal of Cystic Fibrosis</i> , <b>2020</b> , 19, 801-807	4.1	6
14	Glycosylated components of the mycobacterial cell wall: Structure and function <b>2010</b> , 147-167		4
13	Urine lipoarabinomannan in HIV uninfected, smear negative, symptomatic TB patients: effective sample pretreatment for a sensitive immunoassay and mass spectrometry. <i>Scientific Reports</i> , <b>2021</b> , 11, 2922	4.9	4
12	Isolation and purification of Mycobacterium tuberculosis from H37Rv infected guinea pig lungs. <i>Tuberculosis</i> , <b>2014</b> , 94, 525-30	2.6	2
11	Leprosy-specific neoglycoconjugates: synthesis and application to serodiagnosis of leprosy. <i>Methods in Enzymology</i> , <b>1994</b> , 242, 27-37	1.7	2
10	Culturing Mycobacteria. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2314, 1-58	1.4	2

9	Immobilization of Proteinase K for urine pretreatment to improve diagnostic accuracy of active tuberculosis. <i>PLoS ONE</i> , <b>2021</b> , 16, e0257615	3.7	2
8	Monoclonal antibodies from humans with Mycobacterium tuberculosis exposure or latent infection recognize distinct arabinomannan epitopes. <i>Communications Biology</i> , <b>2021</b> , 4, 1181	6.7	1
7	Structural implications of lipoarabinomannan glycans from global clinical isolates in diagnosis of Mycobacterium tuberculosis infection. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101265	5.4	1
6	Simple manipulation of enzyme-linked immunosorbent assay (ELISA) using an automated microfluidic interface.. <i>Analytical Methods</i> , <b>2022</b> , 14, 1774-1781	3.2	1
5	Characterization of D-arabinosyltransferase activity involved in mycobacterial arabinan biosynthesis using specific synthetic acceptors. <i>FASEB Journal</i> , <b>2006</b> , 20, LB56	0.9	
4	Altered composition and functional profile of high-density lipoprotein in leprosy patients <b>2020</b> , 14, e0008138		
3	Altered composition and functional profile of high-density lipoprotein in leprosy patients <b>2020</b> , 14, e0008138		
2	Altered composition and functional profile of high-density lipoprotein in leprosy patients <b>2020</b> , 14, e0008138		
1	Altered composition and functional profile of high-density lipoprotein in leprosy patients <b>2020</b> , 14, e0008138		