

Delphi Chatterjee

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4892560/delphi-chatterjee-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

5,180
citations

42
h-index

70
g-index

99
ext. papers

5,598
ext. citations

6.4
avg, IF

5.05
L-index

#	Paper	IF	Citations
98	Simple manipulation of enzyme-linked immunosorbent assay (ELISA) using an automated microfluidic interface.. <i>Analytical Methods</i> , 2022 , 14, 1774-1781	3.2	1
97	Host and pathogen response to bacteriophage engineered against Mycobacterium abscessus lung infection.. <i>Cell</i> , 2022 ,	56.2	7
96	Monoclonal antibodies from humans with Mycobacterium tuberculosis exposure or latent infection recognize distinct arabinomannan epitopes. <i>Communications Biology</i> , 2021 , 4, 1181	6.7	1
95	Culturing Mycobacteria. <i>Methods in Molecular Biology</i> , 2021 , 2314, 1-58	1.4	2
94	Urine lipoarabinomannan in HIV uninfected, smear negative, symptomatic TB patients: effective sample pretreatment for a sensitive immunoassay and mass spectrometry. <i>Scientific Reports</i> , 2021 , 11, 2922	4.9	4
93	Structural implications of lipoarabinomannan glycans from global clinical isolates in diagnosis of Mycobacterium tuberculosis infection. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101265	5.4	1
92	Immobilization of Proteinase K for urine pretreatment to improve diagnostic accuracy of active tuberculosis. <i>PLoS ONE</i> , 2021 , 16, e0257615	3.7	2
91	Urine lipoarabinomannan as a marker for low-risk of NTM infection in the CF airway. <i>Journal of Cystic Fibrosis</i> , 2020 , 19, 801-807	4.1	6
90	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> , 2020 , 6, 291-301	5.5	11
89	Altered composition and functional profile of high-density lipoprotein in leprosy patients. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008138	4.8	7
88	Altered composition and functional profile of high-density lipoprotein in leprosy patients 2020 , 14, e0008138		
87	Altered composition and functional profile of high-density lipoprotein in leprosy patients 2020 , 14, e0008138		
86	Altered composition and functional profile of high-density lipoprotein in leprosy patients 2020 , 14, e0008138		
85	Altered composition and functional profile of high-density lipoprotein in leprosy patients 2020 , 14, e0008138		
84	Detection of the tuberculosis biomarker mannose-capped lipoarabinomannan in human serum: Impact of sample pretreatment with perchloric acid. <i>Analytica Chimica Acta</i> , 2019 , 1046, 140-147	6.6	7
83	Handheld Raman Spectrometer Instrumentation for Quantitative Tuberculosis Biomarker Detection: A Performance Assessment for Point-of-Need Infectious Disease Diagnostics. <i>Applied Spectroscopy</i> , 2018 , 72, 1104-1115	3.1	13
82	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> , 2018 , 200, 3053-3066	5.3	39

81	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> , 2018 , 111, 178-187	2.6	27
80	Structural determinants in a glucose-containing lipopolysaccharide from critical for inducing a subset of protective T cells. <i>Journal of Biological Chemistry</i> , 2018 , 293, 9706-9717	5.4	7
79	Detection of the tuberculosis antigenic marker mannose-capped lipoarabinomannan in pretreated serum by surface-enhanced Raman scattering. <i>Analyst, The</i> , 2016 , 142, 186-196	5	31
78	Importance of specimen pretreatment for the low-level detection of mycobacterial lipoarabinomannan in human serum. <i>Analyst, The</i> , 2016 , 142, 177-185	5	13
77	A Subset of Protective $\gamma\delta$ T Cells Is Activated by Novel Mycobacterial Glycolipid Components. <i>Infection and Immunity</i> , 2016 , 84, 2449-62	3.7	21
76	Estimation of D-Arabinose by Gas Chromatography/Mass Spectrometry as Surrogate for Mycobacterial Lipoarabinomannan in Human Urine. <i>PLoS ONE</i> , 2015 , 10, e0144088	3.7	15
75	Tuberculosis in the African continent: A comprehensive review. <i>Pathophysiology</i> , 2015 , 22, 73-83	1.8	13
74	Isolation and purification of Mycobacterium tuberculosis from H37Rv infected guinea pig lungs. <i>Tuberculosis</i> , 2014 , 94, 525-30	2.6	2
73	Lipids and Carbohydrates of Mycobacterium tuberculosis 2014 , 285-306		59
72	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> , 2014 , 289, 30249-30256	5.4	15
71	Evolution of high-level ethambutol-resistant tuberculosis through interacting mutations in decaprenylphosphoryl- β -D-arabinose biosynthetic and utilization pathway genes. <i>Nature Genetics</i> , 2013 , 45, 1190-7	36.3	150
70	Metabolomic signatures in guinea pigs infected with epidemic-associated W-Beijing strains of Mycobacterium tuberculosis. <i>Journal of Proteome Research</i> , 2012 , 11, 4873-84	5.6	43
69	The mycobacterial acyltransferase PapA5 is required for biosynthesis of cell wall-associated phenolic glycolipids. <i>Microbiology (United Kingdom)</i> , 2012 , 158, 1379-1387	2.9	13
68	A bioanalytical method to determine the cell wall composition of Mycobacterium tuberculosis grown in vivo. <i>Analytical Biochemistry</i> , 2012 , 421, 240-9	3.1	28
67	Isolation of a distinct Mycobacterium tuberculosis mannose-capped lipoarabinomannan isoform responsible for recognition by CD1b-restricted T cells. <i>Glycobiology</i> , 2012 , 22, 1118-27	5.8	40
66	Reconstitution of functional mycobacterial arabinosyltransferase AftC proteoliposome and assessment of decaprenylphosphorylarabinose analogues as arabinofuranosyl donors. <i>ACS Chemical Biology</i> , 2011 , 6, 819-28	4.9	20
65	Metabolic profiling of lung granuloma in Mycobacterium tuberculosis infected guinea pigs: ex vivo 1H magic angle spinning NMR studies. <i>Journal of Proteome Research</i> , 2011 , 10, 4186-95	5.6	95
64	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> , 2011 , 18, 260-7		51

63	Glycosylated components of the mycobacterial cell wall: Structure and function 2010 , 147-167		4
62	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> , 2010 , 18, 7121-31	3.4	10
61	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> , 2010 , 20, 3250-3	2.9	14
60	New insights into the early steps of phosphatidylinositol mannoside biosynthesis in mycobacteria: PimBUs an essential enzyme of <i>Mycobacterium smegmatis</i> . <i>Journal of Biological Chemistry</i> , 2009 , 284, 25687-96	5.4	56
59	AftD, a novel essential arabinofuranosyltransferase from mycobacteria. <i>Glycobiology</i> , 2009 , 19, 1235-47	5.8	53
58	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> , 2009 , 5, e1000534	7.6	79
57	Menaquinone synthesis is critical for maintaining mycobacterial viability during exponential growth and recovery from non-replicating persistence. <i>Molecular Microbiology</i> , 2009 , 72, 85-97	4.1	106
56	Lipoglycans of <i>Mycobacterium tuberculosis</i> : isolation, purification, and characterization. <i>Methods in Molecular Biology</i> , 2009 , 465, 23-45	1.4	8
55	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 <i>Mycobacterium tuberculosis</i> mycolyl arabinogalactan. <i>Journal of Biological Chemistry</i> , 2008 , 283, 12992-3000	5.4	74
54	The critical role of embC in <i>Mycobacterium tuberculosis</i> . <i>Journal of Bacteriology</i> , 2008 , 190, 4335-41	3.5	41
53	Lipoarabinomannan of <i>Mycobacterium</i> : mannose capping by a multifunctional terminal mannosyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17973-7	11.5	61
52	Structural analysis and biosynthesis gene cluster of an antigenic glycopeptidolipid from <i>Mycobacterium intracellulare</i> . <i>Journal of Bacteriology</i> , 2008 , 190, 3613-21	3.5	17
51	Transfer of the first arabinofuranose residue to galactan is essential for <i>Mycobacterium smegmatis</i> viability. <i>Journal of Bacteriology</i> , 2008 , 190, 5248-55	3.5	18
50	Identification of <i>Mycobacterium tuberculosis</i> clinical isolates with altered phagocytosis by human macrophages due to a truncated lipoarabinomannan. <i>Journal of Biological Chemistry</i> , 2008 , 283, 31417-28	5.4	53
49	EmbA is an essential arabinosyltransferase in <i>Mycobacterium tuberculosis</i> . <i>Microbiology (United Kingdom)</i> , 2008 , 154, 240-248	2.9	39
48	Characterization of a distinct arabinofuranosyltransferase in <i>Mycobacterium smegmatis</i> . <i>Journal of the American Chemical Society</i> , 2007 , 129, 9650-62	16.4	32
47	Targeting fatty acid biosynthesis for the development of novel chemotherapeutics against <i>Mycobacterium tuberculosis</i> : evaluation of A-ring-modified diphenyl ethers as high-affinity InhA inhibitors. <i>Antimicrobial Agents and Chemotherapy</i> , 2007 , 51, 3562-7	5.9	48
46	New insights into the biosynthesis of mycobacterial lipomannan arising from deletion of a conserved gene. <i>Journal of Biological Chemistry</i> , 2007 , 282, 27133-27140	5.4	53

45	A major cell wall lipopeptide of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2006 , 281, 5209-15	5.4	30
44	The carboxy terminus of EmbC from <i>Mycobacterium smegmatis</i> mediates chain length extension of the arabinan in lipoarabinomannan. <i>Journal of Biological Chemistry</i> , 2006 , 281, 19512-26	5.4	64
43	Genetic basis for the synthesis of the immunomodulatory mannose caps of lipoarabinomannan in <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2006 , 281, 20027-35	5.4	64
42	Biosynthesis of mycobacterial lipoarabinomannan: role of a branching mannosyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 13664-9	11.5	82
41	Characterization of a specific arabinosyltransferase activity involved in mycobacterial arabinan biosynthesis. <i>Chemistry and Biology</i> , 2006 , 13, 787-95		30
40	Characterization of D-arabinosyltransferase activity involved in mycobacterial arabinan biosynthesis using specific synthetic acceptors. <i>FASEB Journal</i> , 2006 , 20, LB56	0.9	
39	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> , 2005 , 15, 139-51	5.8	50
38	<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> , 2005 , 56, 1262-73	4.1	27
37	Roles of conserved proline and glycosyltransferase motifs of EmbC in biosynthesis of lipoarabinomannan. <i>Journal of Biological Chemistry</i> , 2005 , 280, 5651-63	5.4	65
36	Truncated structural variants of lipoarabinomannan in <i>Mycobacterium leprae</i> and an ethambutol-resistant strain of <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2004 , 279, 41227-39	5.4	59
35	Identification of the 5-methylthiopentose substituent in <i>Mycobacterium tuberculosis</i> lipoarabinomannan. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3918-22	16.4	61
34	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> , 2003 , 50, 69-76	4.1	113
33	<i>Mycobacterium avium</i> infection and modulation of human macrophage gene expression. <i>Journal of Immunology</i> , 2002 , 169, 6286-97	5.3	36
32	<i>Mycobacterium avium</i> complex promotes recruitment of monocyte hosts for HIV-1 and bacteria. <i>Journal of Immunology</i> , 2002 , 169, 3854-62	5.3	18
31	5-Methylthiopentose: a new substituent on lipoarabinomannan in <i>Mycobacterium tuberculosis</i> . <i>Journal of Molecular Biology</i> , 2002 , 316, 89-100	6.5	63
30	Synthetic mannosides act as acceptors for mycobacterial alpha1-6 mannosyltransferase. <i>Bioorganic and Medicinal Chemistry</i> , 2001 , 9, 815-24	3.4	32
29	Variation in mannose-capped terminal arabinan motifs of lipoarabinomannans from clinical isolates of <i>Mycobacterium tuberculosis</i> and <i>Mycobacterium avium</i> complex. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3863-71	5.4	73
28	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> , 2001 , 276, 48854-62	5.4	132

27	Mycobacterial lysocardiolipin is exported from phagosomes upon cleavage of cardiolipin by a macrophage-derived lysosomal phospholipase A2. <i>Journal of Immunology</i> , 2001 , 167, 2187-92	5:3	53
26	Trafficking and release of mycobacterial lipids from infected macrophages. <i>Traffic</i> , 2000 , 1, 235-47	5:7	278
25	Altered expression profile of the surface glycopeptidolipids in drug-resistant clinical isolates of <i>Mycobacterium avium</i> complex. <i>Journal of Biological Chemistry</i> , 1999 , 274, 9778-85	5:4	42
24	The <i>pimB</i> gene of <i>Mycobacterium tuberculosis</i> encodes a mannosyltransferase involved in lipoarabinomannan biosynthesis. <i>Journal of Biological Chemistry</i> , 1999 , 274, 31625-31	5:4	95
23	Mycolactone: a polyketide toxin from <i>Mycobacterium ulcerans</i> required for virulence. <i>Science</i> , 1999 , 283, 854-7	33:3	520
22	Characterization of Novel Macrolide Toxins, Mycolactones A and B, from a Human Pathogen, <i>Mycobacterium ulcerans</i> . <i>Journal of the American Chemical Society</i> , 1999 , 121, 6092-6093	16:4	70
21	Molecular interaction of CD1b with lipoglycan antigens. <i>Immunity</i> , 1998 , 8, 331-40	32:3	165
20	Mycobacterial lipoarabinomannan: an extraordinary lipoheteroglycan with profound physiological effects. <i>Glycobiology</i> , 1998 , 8, 113-20	5:8	307
19	Identification and recombinant expression of a <i>Mycobacterium avium</i> rhamnosyltransferase gene (<i>rtfA</i>) involved in glycopeptidolipid biosynthesis. <i>Journal of Bacteriology</i> , 1998 , 180, 5567-73	3:5	44
18	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> , 1997 , 7, 663-77	5:8	131
17	Structural characterization of glycosphingolipids from the eggs of <i>Schistosoma mansoni</i> and <i>Schistosoma japonicum</i> . <i>Glycobiology</i> , 1997 , 7, 653-61	5:8	67
16	The mycobacterial cell wall: structure, biosynthesis and sites of drug action. <i>Current Opinion in Chemical Biology</i> , 1997 , 1, 579-88	9:7	153
15	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> , 1996 , 271, 28682-90	5:4	90
14	Novel O-methylated terminal glucuronic acid characterizes the polar glycopeptidolipids of <i>Mycobacterium habana</i> strain TMC 5135. <i>Journal of Biological Chemistry</i> , 1996 , 271, 12333-42	5:4	23
13	Inositol phosphate capping of the nonreducing termini of lipoarabinomannan from rapidly growing strains of <i>Mycobacterium</i> . <i>Journal of Biological Chemistry</i> , 1995 , 270, 12380-9	5:4	166
12	Structural definition of acylated phosphatidylinositol mannosides from <i>Mycobacterium tuberculosis</i> : definition of a common anchor for lipomannan and lipoarabinomannan. <i>Glycobiology</i> , 1995 , 5, 117-27	5:8	119
11	The variable surface glycolipids of mycobacteria: structures, synthesis of epitopes, and biological properties. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 1995 , 51, 169-242	3:7	67
10	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> , 1994 , 8, 299-305		15

9	Leprosy-specific neoglycoconjugates: synthesis and application to serodiagnosis of leprosy. <i>Methods in Enzymology</i> , 1994 , 242, 27-37	1.7	2
8	Structural definition of the non-reducing termini of mannose-capped LAM from <i>Mycobacterium tuberculosis</i> through selective enzymatic degradation and fast atom bombardment-mass spectrometry. <i>Glycobiology</i> , 1993 , 3, 497-506	5.8	76
7	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> , 1992 , 237, 57-77	2.9	18
6	<i>Mycobacterium</i> glycolipids: isolation, structures, antigenicity, and synthesis of neoantigens. <i>Methods in Enzymology</i> , 1989 , 179, 215-42	1.7	65
5	Synthesis and immunoreactivity of neoglycoproteins containing the trisaccharide unit of phenolic glycolipid I of <i>Mycobacterium leprae</i> . <i>Carbohydrate Research</i> , 1988 , 183, 241-60	2.9	27
4	Synthesis of tetrasaccharides related to the antigenic determinants from the glycopeptidolipid antigens of serovars 9 and 25 in the <i>Mycobacterium avium</i> -M. intracellulare-M. scrofulaceum serocomplex. <i>Carbohydrate Research</i> , 1986 , 150, 133-50	2.9	17
3	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 disaccharide-octyl-neoglycoprotein. <i>Carbohydrate Research</i> , 1986 , 156, 39-56	2.9	39
2	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> , 1986 , 35, 167-72	3.2	8
1	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> , 1984 , 62, 2728-2735	0.9	14