Delphi Chatterjee

List of Publications by Year
in descending order

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99	6,159	53794	74163
papers	citations	45 h-index	75 g-index

100	100	100	4467
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simple manipulation of enzyme-linked immunosorbent assay (ELISA) using an automated microfluidic interface. Analytical Methods, 2022, 14, 1774-1781.	2.7	9
2	Host and pathogen response to bacteriophage engineered against Mycobacterium abscessus lung infection. Cell, 2022, 185, 1860-1874.e12.	28.9	93
3	Culturing Mycobacteria. Methods in Molecular Biology, 2021, 2314, 1-58.	0.9	10
4	Urine lipoarabinomannan in HIV uninfected, smear negative, symptomatic TB patients: effective sample pretreatment for a sensitive immunoassay and mass spectrometry. Scientific Reports, 2021, 11, 2922.	3.3	14
5	Structural implications of lipoarabinomannan glycans from global clinical isolates in diagnosis of Mycobacterium tuberculosis infection. Journal of Biological Chemistry, 2021, 297, 101265.	3.4	15
6	Immobilization of Proteinase K for urine pretreatment to improve diagnostic accuracy of active tuberculosis. PLoS ONE, 2021, 16, e0257615.	2.5	13
7	Monoclonal antibodies from humans with Mycobacterium tuberculosis exposure or latent infection recognize distinct arabinomannan epitopes. Communications Biology, 2021, 4, 1181.	4.4	12
8	Comparative Structural Study of Terminal Ends of Lipoarabinomannan from Mice Infected Lung Tissues and Urine of a Tuberculosis Positive Patient. ACS Infectious Diseases, 2020, 6, 291-301.	3.8	23
9	Urine lipoarabinomannan as a marker for low-risk of NTM infection in the CF airway. Journal of Cystic Fibrosis, 2020, 19, 801-807.	0.7	14
10	Altered composition and functional profile of high-density lipoprotein in leprosy patients. PLoS Neglected Tropical Diseases, 2020, 14, e0008138.	3.0	10
11	Altered composition and functional profile of high-density lipoprotein in leprosy patients. , 2020, 14, e0008138.		0
12	Altered composition and functional profile of high-density lipoprotein in leprosy patients. , 2020, 14, e0008138.		0
13	Altered composition and functional profile of high-density lipoprotein in leprosy patients. , 2020, 14, e0008138.		0
14	Altered composition and functional profile of high-density lipoprotein in leprosy patients. , 2020, 14, e0008138.		0
15	Detection of the tuberculosis biomarker mannose-capped lipoarabinomannan in human serum: Impact of sample pretreatment with perchloric acid. Analytica Chimica Acta, 2019, 1046, 140-147.	5.4	12
16	Handheld Raman Spectrometer Instrumentation for Quantitative Tuberculosis Biomarker Detection: A Performance Assessment for Point-of-Need Infectious Disease Diagnostics. Applied Spectroscopy, 2018, 72, 1104-1115.	2.2	16
17	Characterization of the Antigenic Heterogeneity of Lipoarabinomannan, the Major Surface Glycolipid of Mycobacterium tuberculosis, and Complexity of Antibody Specificities toward This Antigen. Journal of Immunology, 2018, 200, 3053-3066.	0.8	58
18	Structural determinants in a glucose-containing lipopolysaccharide from Mycobacterium tuberculosis critical for inducing a subset of protective T cells. Journal of Biological Chemistry, 2018, 293, 9706-9717.	3.4	8

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19	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. Tuberculosis, 2018, 111, 178-187.	1.9	48
20	Detection of the tuberculosis antigenic marker mannose-capped lipoarabinomannan in pretreated serum by surface-enhanced Raman scattering. Analyst, The, 2017, 142, 186-196.	3.5	44
21	Importance of specimen pretreatment for the low-level detection of mycobacterial lipoarabinomannan in human serum. Analyst, The, 2017, 142, 177-185.	3.5	20
22	A Subset of Protective Î³ ₉ Î´ ₂ T Cells Is Activated by Novel Mycobacterial Glycolipid Components. Infection and Immunity, 2016, 84, 2449-2462.	2.2	27
23	Estimation of D-Arabinose by Gas Chromatography/Mass Spectrometry as Surrogate for Mycobacterial Lipoarabinomannan in Human Urine. PLoS ONE, 2015, 10, e0144088.	2.5	23
24	Tuberculosis in the African continent: A comprehensive review. Pathophysiology, 2015, 22, 73-83.	2.2	15
25	A Single Arabinan Chain Is Attached to the Phosphatidylinositol Mannosyl Core of the Major Immunomodulatory Mycobacterial Cell Envelope Glycoconjugate, Lipoarabinomannan. Journal of Biological Chemistry, 2014, 289, 30249-30256.	3.4	16
26	Isolation and purification of Mycobacterium tuberculosis from H37Rv infected guinea pig lungs. Tuberculosis, 2014, 94, 525-530.	1.9	3
27	Evolution of high-level ethambutol-resistant tuberculosis through interacting mutations in decaprenylphosphoryl-Î²-D-arabinose biosynthetic and utilization pathway genes. Nature Genetics, 2013, 45, 1190-1197.	21.4	191
28	Isolation of a distinct Mycobacterium tuberculosis mannose-capped lipoarabinomannan isoform responsible for recognition by CD1b-restricted T cells. Glycobiology, 2012, 22, 1118-1127.	2.5	46
29	Metabolomic Signatures in Guinea Pigs Infected with Epidemic-Associated W-Beijing Strains of Mycobacterium tuberculosis. Journal of Proteome Research, 2012, 11, 4873-4884.	3.7	47
30	The mycobacterial acyltransferase PapA5 is required for biosynthesis of cell wall-associated phenolic glycolipids. Microbiology (United Kingdom), 2012, 158, 1379-1387.	1.8	15
31	A bioanalytical method to determine the cell wall composition of Mycobacterium tuberculosis grown in vivo. Analytical Biochemistry, 2012, 421, 240-249.	2.4	35
32	Metabolic Profiling of Lung Granuloma in Mycobacterium tuberculosis Infected Guinea Pigs: Ex vivo ¹H Magic Angle Spinning NMR Studies. Journal of Proteome Research, 2011, 10, 4186-4195.	3.7	112
33	Reconstitution of Functional Mycobacterial Arabinosyltransferase AftC Proteoliposome and Assessment of Decaprenylphosphorylarabinose Analogues as Arabinofuranosyl Donors. ACS Chemical Biology, 2011, 6, 819-828.	3.4	24
34	Analysis of Antibody Responses to Mycobacterium leprae Phenolic Glycolipid I, Lipoarabinomannan, and Recombinant Proteins To Define Disease Subtype-Specific Antigenic Profiles in Leprosy. Vaccine Journal, 2011, 18, 260-267.	3.1	65
35	Development of a plate-based scintillation proximity assay for the mycobacterial AftB enzyme involved in cell wall arabinan biosynthesis. Bioorganic and Medicinal Chemistry, 2010, 18, 7121-7131.	3.0	10
36	A modified synthesis and serological evaluation of neoglycoproteins containing the natural disaccharide of PGL-I from Mycobacterium leprae. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3250-3253.	2.2	14

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37	Glycosylated components of the mycobacterial cell wall. , 2010, , 147-167.		4
38	New Insights into the Early Steps of Phosphatidylinositol Mannoside Biosynthesis in Mycobacteria. Journal of Biological Chemistry, 2009, 284, 25687-25696.	3.4	70
39	AftD, a novel essential arabinofuranosyltransferase from mycobacteria. Glycobiology, 2009, 19, 1235-1247.	2.5	61
40	The Two-Domain LysX Protein of Mycobacterium tuberculosis Is Required for Production of Lysinylated Phosphatidylglycerol and Resistance to Cationic Antimicrobial Peptides. PLoS Pathogens, 2009, 5, e1000534.	4.7	97
41	Menaquinone synthesis is critical for maintaining mycobacterial viability during exponential growth and recovery from nonâ€replicating persistence. Molecular Microbiology, 2009, 72, 85-97.	2.5	141
42	Lipoglycans of Mycobacterium tuberculosis: Isolation, Purification, and Characterization. Methods in Molecular Biology, 2009, 465, 23-45.	0.9	10
43	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. Journal of Biological Chemistry, 2008, 283, 12992-13000.	3.4	82
44	The Critical Role ofembCinMycobacterium tuberculosis. Journal of Bacteriology, 2008, 190, 4335-4341.	2.2	51
45	Lipoarabinomannan of Mycobacterium : Mannose capping by a multifunctional terminal mannosyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17973-17977.	7.1	73
46	Structural Analysis and Biosynthesis Gene Cluster of an Antigenic Glycopeptidolipid fromMycobacterium intracellulare. Journal of Bacteriology, 2008, 190, 3613-3621.	2.2	17
47	Transfer of the First Arabinofuranose Residue to Galactan Is Essential for Mycobacterium smegmatis Viability. Journal of Bacteriology, 2008, 190, 5248-5255.	2.2	19
48	Identification of Mycobacterium tuberculosis Clinical Isolates with Altered Phagocytosis by Human Macrophages Due to a Truncated Lipoarabinomannan. Journal of Biological Chemistry, 2008, 283, 31417-31428.	3.4	60
49	EmbA is an essential arabinosyltransferase in Mycobacterium tuberculosis. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overloc	1.8	51
50	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. Antimicrobial Agents and Chemotherapy, 2007, 51, 3562-3567.	3.2	54
51	New Insights into the Biosynthesis of Mycobacterial Lipomannan Arising from Deletion of a Conserved Gene. Journal of Biological Chemistry, 2007, 282, 27133-27140.	3.4	60
52	Characterization of a Distinct Arabinofuranosyltransferase inMycobacteriumsmegmatis. Journal of the American Chemical Society, 2007, 129, 9650-9662.	13.7	33
53	Characterization of a Specific Arabinosyltransferase Activity Involved in Mycobacterial Arabinan Biosynthesis. Chemistry and Biology, 2006, 13, 787-795.	6.0	32
54	A Major Cell Wall Lipopeptide of Mycobacterium avium subspecies paratuberculosis. Journal of Biological Chemistry, 2006, 281, 5209-5215.	3.4	33

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55	The Carboxy Terminus of EmbC from Mycobacterium smegmatis Mediates Chain Length Extension of the Arabinan in Lipoarabinomannan. Journal of Biological Chemistry, 2006, 281, 19512-19526.	3.4	75
56	Genetic Basis for the Synthesis of the Immunomodulatory Mannose Caps of Lipoarabinomannan in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2006, 281, 20027-20035.	3.4	68
57	Biosynthesis of mycobacterial lipoarabinomannan: Role of a branching mannosyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13664-13669.	7.1	91
58	Characterization of Dâ€arabinosyltransferase activity involved in mycobacterial arabinan biosynthesis using specific synthetic acceptors. FASEB Journal, 2006, 20, LB56.	0.5	0
59	Mycobacterium avium 104 deleted of the methyltransferase D gene by allelic replacement lacks serotype-specific glycopeptidolipids and shows attenuated virulence in mice. Molecular Microbiology, 2005, 56, 1262-1273.	2.5	29
60	Roles of Conserved Proline and Glycosyltransferase Motifs of EmbC in Biosynthesis of Lipoarabinomannan. Journal of Biological Chemistry, 2005, 280, 5651-5663.	3.4	68
61	Truncated Structural Variants of Lipoarabinomannan in Mycobacterium leprae and an Ethambutol-resistant Strain of Mycobacterium tuberculosis. Journal of Biological Chemistry, 2004, 279, 41227-41239.	3.4	64
62	Identification of the 5-Methylthiopentosyl Substituent inMycobacterium tuberculosis Lipoarabinomannan. Angewandte Chemie - International Edition, 2004, 43, 3918-3922.	13.8	67
63	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. Glycobiology, 2004, 15, 139-151.	2.5	55
64	The Emb proteins of mycobacteria direct arabinosylation of lipoarabinomannan and arabinogalactan via an N-terminal recognition region and a C-terminal synthetic region. Molecular Microbiology, 2003, 50, 69-76.	2.5	126
65	Mycobacterium aviumInfection and Modulation of Human Macrophage Gene Expression. Journal of Immunology, 2002, 169, 6286-6297.	0.8	50
66	Mycobacterium aviumComplex Promotes Recruitment of Monocyte Hosts for HIV-1 and Bacteria. Journal of Immunology, 2002, 169, 3854-3862.	0.8	21
67	5-methylthiopentose: a new substituent on lipoarabinomannan in Mycobacterium tuberculosis. Journal of Molecular Biology, 2002, 316, 89-100.	4.2	74
68	Synthetic mannosides act as acceptors for mycobacterial Î±1-6 mannosyltransferase. Bioorganic and Medicinal Chemistry, 2001, 9, 815-824.	3.0	42
69	Variation in Mannose-capped Terminal Arabinan Motifs of Lipoarabinomannans from Clinical Isolates of Mycobacterium tuberculosis and Mycobacterium avium Complex. Journal of Biological Chemistry, 2001, 276, 3863-3871.	3.4	85
70	The Role of the embA and embB Gene Products in the Biosynthesis of the Terminal Hexaarabinofuranosyl Motif of Mycobacterium smegmatisArabinogalactan. Journal of Biological Chemistry, 2001, 276, 48854-48862.	3.4	155
71	Mycobacterial Lysocardiolipin Is Exported from Phagosomes upon Cleavage of Cardiolipin by a Macrophage-Derived Lysosomal Phospholipase A2. Journal of Immunology, 2001, 167, 2187-2192.	0.8	58
72	Trafficking and Release of Mycobacterial Lipids from Infected Macrophages. Traffic, 2000, 1, 235-247.	2.7	316

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73	Altered Expression Profile of the Surface Glycopeptidolipids in Drug-resistant Clinical Isolates of Mycobacterium aviumComplex. Journal of Biological Chemistry, 1999, 274, 9778-9785.	3.4	48
74	The pimB Gene of Mycobacterium tuberculosis Encodes a Mannosyltransferase Involved in Lipoarabinomannan Biosynthesis. Journal of Biological Chemistry, 1999, 274, 31625-31631.	3.4	104
75	Mycolactone: A Polyketide Toxin from Mycobacterium ulcerans Required for Virulence. Science, 1999, 283, 854-857.	12.6	602
76	Characterization of Novel Macrolide Toxins, Mycolactones A and B, from a Human Pathogen,Mycobacterium ulcerans. Journal of the American Chemical Society, 1999, 121, 6092-6093.	13.7	76
77	Molecular Interaction of CD1b with Lipoglycan Antigens. Immunity, 1998, 8, 331-340.	14.3	177
78	Mycobacterial lipoarabinomannan: An extraordinary lipoheteroglycan with profound physiological effects. Glycobiology, 1998, 8, 113-120.	2.5	333
79	Identification and Recombinant Expression of a Mycobacterium avium Rhamnosyltransferase Gene () Tj ETQq1 1 0.784314 rgBT /Over	2.2	52
80	Structural mapping of the glycans from the egg glycoproteins of Schistosoma mansoni and Schistosoma japonicum: identification of novel core structures and terminal sequences. Glycobiology, 1997, 7, 663-677.	2.5	136
81	Structural characterization of glycosphingolipids from the eggs of Schistosoma mansoni and Schistosoma japonicum. Glycobiology, 1997, 7, 653-661.	2.5	74
82	The mycobacterial cell wall: structure, biosynthesis and sites of drug action. Current Opinion in Chemical Biology, 1997, 1, 579-588.	6.1	166
83	Truncated Structural Variants of Lipoarabinomannan in Ethambutol Drug-resistant Strains of Mycobacterium smegmatis. Journal of Biological Chemistry, 1996, 271, 28682-28690.	3.4	104
84	Novel O-Methylated Terminal Glucuronic Acid Characterizes the Polar Glycopeptidolipids of Mycobacterium habana Strain TMC 5135. Journal of Biological Chemistry, 1996, 271, 12333-12342.	3.4	26
85	Inositol Phosphate Capping of the Nonreducing Termini of Lipoarabinomannan from Rapidly Growing Strains of Mycobacterium. Journal of Biological Chemistry, 1995, 270, 12380-12389.	3.4	190
86	Structural definition of acylated phosphatidylinositol mannosides from Mycobacterium tuberculosis: definition of a common anchor for lipomannan and lipoarabinomannan. Glycobiology, 1995, 5, 117-127.	2.5	131
87	The Variable Surface Glycolipids of Mycobacteria: Structures, Synthesis of Epitopes, And Biological Properties. Advances in Carbohydrate Chemistry and Biochemistry, 1995, 51, 169-242.	0.9	79
88	Lipoarabinomannan fromMycobacterium tuberculosismodulates the generation of reactive nitrogen intermediates by gamma interferon-activated macrophages. FEMS Immunology and Medical Microbiology, 1994, 8, 299-305.	2.7	19
89	[3] Leprosy-specific neoglycoconjugates: Synthesis and application to serodiagnosis of leprosy. Methods in Enzymology, 1994, 242, 27-37.	1.0	3
90	Lipoarabinomannan from Mycobacterium tuberculosis modulates the generation of reactive nitrogen intermediates by gamma interferon-activated macrophages. FEMS Immunology and Medical Microbiology, 1994, 8, 299-305.	2.7	2

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91	Structural definition of the non-reducing termini of mannose-capped LAM from Mycobacterium tuberculosis through selective enzymatic degradation and fast atom bombardment-mass spectrometry. Glycobiology, 1993, 3, 497-506.	2.5	87
92	Structures of the glycopeptidolipid antigens of serovars 25and 26 of the Mycobacterium aviumserocomplex, synthesis of allyl glycosides of the outer disaccharide units and serology of the derived neoglycoproteins. Carbohydrate Research, 1992, 237, 57-77.	2.3	19
93	[15] Mycobacterial glycolipids: Isolation, structures, antigenicity, and synthesis of neoantigens. Methods in Enzymology, 1989, 179, 215-242.	1.0	78
94	Synthesis and immunoreactivity of neoglycoproteins containing the trisaccharide unit of phenolic glycolipid I of Mycobacterium leprae. Carbohydrate Research, 1988, 183, 241-260.	2.3	34
95	Synthesis of tetrasaccharides related to the antigenic determinants from the glycopeptidolipid antigens of serovars 9 and 25 in the Mycobacterium avium-M. intracellulare-M. scrofulaceum serocomplex. Carbohydrate Research, 1986, 150, 133-150.	2.3	21
96	Chemical synthesis and seroreactivity of O-(3,6-di-O-methyl-Î²-d-glucopyranosyl)-(1â†'4)-O-(2,3-di-O-methyl-Î±-lrhamnopyranosyl)-(1â†'9)-oxynonanoyl-bovine serum albuminâ€"the leprosy-specific, natural disaccharide-octyl-neoglycoprotein. Carbohydrate Research, 1986, 156, 39-56.	2.3	51
97	A Simplified Serological Test for Leprosy Based on a 3,6-di-O-Methylglucose-Containing Synthetic Antigen. American Journal of Tropical Medicine and Hygiene, 1986, 35, 167-172.	1.4	12
98	The hex-5-enose degradation: zinc dust cleavage of 6-deoxy-6-iodo-Î±-D-galactopyranosidic linkages in methylated di- and trisaccharides. Canadian Journal of Chemistry, 1984, 62, 2728-2735.	1.1	16
99	Lipids and Carbohydrates ofMycobacterium tuberculosis. , 0, , 285-306.		65