Gurdyal Besra

List of Publications by Year
in descending order

483 papers	35,431 citations	2203 99 h-index	6454 157 g-index
493 all docs	493 docs citations	493 times ranked	23590 citing authors

#	Article	IF	Citations
1	Role of the Major Antigen of Mycobacterium tuberculosis in Cell Wall Biogenesis. Science, 1997, 276, 1420-1422.	6.0	701
2	Nuclear-encoded proteins target to the plastid in Toxoplasma gondii and Plasmodium falciparum. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12352-12357.	3.3	691
3	Pathway to Synthesis and Processing of Mycolic Acids in Mycobacterium tuberculosis. Clinical Microbiology Reviews, 2005, 18, 81-101.	5.7	577
4	CD1dâ€“lipid-antigen recognition by the semi-invariant NKT T-cell receptor. Nature, 2007, 448, 44-49.	13.7	533
5	CD1c-mediated T-cell recognition of isoprenoid glycolipids in Mycobacterium tuberculosis infection. Nature, 2000, 404, 884-888.	13.7	436
6	Structural Requirements for Glycolipid Antigen Recognition by CD1b-Restricted T Cells. Science, 1997, 278, 283-286.	6.0	429
7	The embAB genes of Mycobacterium avium encode an arabinosyl transferase involved in cell wall arabinan biosynthesis that is the target for the antimycobacterial drug ethambutol.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 11919-11924.	3.3	417
8	Mycobacterial lipoarabinomannan and related lipoglycans: from biogenesis to modulation of the immune response. Molecular Microbiology, 2004, 53, 391-403.	1.2	385
9	Cytological and Transcript Analyses Reveal Fat and Lazy Persister-Like Bacilli in Tuberculous Sputum. PLoS Medicine, 2008, 5, e75.	3.9	383
10	The crystal structure of human CD1d with and without Î±-galactosylceramide. Nature Immunology, 2005, 6, 819-826.	7.0	363
11	Detection and Molecular Characterization of 9000-Year-Old Mycobacterium tuberculosis from a Neolithic Settlement in the Eastern Mediterranean. PLoS ONE, 2008, 3, e3426.	1.1	340
12	Apolipoprotein-mediated pathways of lipid antigen presentation. Nature, 2005, 437, 906-910.	13.7	323
13	Regulatory iNKT cells lack expression of the transcription factor PLZF and control the homeostasis of Treg cells and macrophages in adipose tissue. Nature Immunology, 2015, 16, 85-95.	7.0	315
14	Genome-Wide Comparison of Medieval and Modern <i>Mycobacterium leprae</i>. Science, 2013, 341, 179-183.	6.0	313
15	Modulation of CD1d-restricted NKT cell responses by using N-acyl variants of Â-galactosylceramides. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3383-3388.	3.3	308
16	Mycobacteria release active membrane vesicles that modulate immune responses in a TLR2-dependent manner in mice. Journal of Clinical Investigation, 2011, 121, 1471-1483.	3.9	300
17	Invariant NKT cells reduce the immunosuppressive activity of influenza A virusâ€“induced myeloid-derived suppressor cells in mice and humans. Journal of Clinical Investigation, 2008, 118, 4036-4048.	3.9	299
18	Invariant natural killer T cells recognize glycolipids from pathogenic Gram-positive bacteria. Nature Immunology, 2011, 12, 966-974.	7.0	295

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19	The complete genome sequence and analysis of Corynebacterium diphtheriae NCTC13129. Nucleic Acids Research, 2003, 31, 6516-6523.	6.5	285
20	Assembly of the Mycobacterial Cell Wall. Annual Review of Microbiology, 2015, 69, 405-423.	2.9	280
21	Invariant natural killer T cells recognize lipid self antigen induced by microbial danger signals. Nature Immunology, 2011, 12, 1202-1211.	7.0	275
22	Mechanism of thioamide drug action against tuberculosis and leprosy. Journal of Experimental Medicine, 2007, 204, 73-78.	4.2	274
23	Activation of the Pro-drug Ethionamide Is Regulated in Mycobacteria. Journal of Biological Chemistry, 2000, 275, 28326-28331.	1.6	262
24	The evaluation of forty-three plant species for in vitro antimycobacterial activities; isolation of active constituents from Psoralea corylifolia and Sanguinaria canadensis. Journal of Ethnopharmacology, 2002, 79, 57-67.	2.0	256
25	Lipoarabinomannan and related glycoconjugates: structure, biogenesis and role in<i>Mycobacterium tuberculosis</i>physiology and hostâ€“pathogen interaction. FEMS Microbiology Reviews, 2011, 35, 1126-1157.	3.9	246
26	The Methyl-Branched Fortifications of Mycobacterium tuberculosis. Chemistry and Biology, 2002, 9, 545-553.	6.2	242
27	Innate and cytokine-driven signals, rather than microbial antigens, dominate in natural killer T cell activation during microbial infection. Journal of Experimental Medicine, 2011, 208, 1163-1177.	4.2	239
28	Mycolic Acid Structure Determines the Fluidity of the Mycobacterial Cell Wall. Journal of Biological Chemistry, 1996, 271, 29545-29551.	1.6	236
29	Sequencing and analysis of the genome of the Whipple's disease bacterium Tropheryma whipplei. Lancet, The, 2003, 361, 637-644.	6.3	232
30	Thiolactomycin and Related Analogues as Novel Anti-mycobacterial Agents Targeting KasA and KasB Condensing Enzymes inMycobacterium tuberculosis. Journal of Biological Chemistry, 2000, 275, 16857-16864.	1.6	231
31	A new interpretation of the structure of the mycolyl-arabinogalactan complex of Mycobacterium tuberculosis as revealed through characterization of oligoglycosylalditol fragments by fast-atom bombardment mass spectrometry and 1H nuclear magnetic resonance spectroscopy. Biochemistry, 1995, 34, 4257-4266.	1.2	227
32	The length of lipids bound to human CD1d molecules modulates the affinity of NKT cell TCR and the threshold of NKT cell activation. Journal of Experimental Medicine, 2007, 204, 1131-1144.	4.2	206
33	NK T cells provide lipid antigen-specific cognate help for B cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8339-8344.	3.3	205
34	Recognition of Lyso-Phospholipids by Human Natural Killer T Lymphocytes. PLoS Biology, 2009, 7, e1000228.	2.6	203
35	Invariant natural killer T cells direct B cell responses to cognate lipid antigen in an IL-21-dependent manner. Nature Immunology, 2012, 13, 44-50.	7.0	195
36	Deletion of kasB in Mycobacterium tuberculosis causes loss of acid-fastness and subclinical latent tuberculosis in immunocompetent mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5157-5162.	3.3	194

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37	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.	3.3	194
38	A Subset of Liver NK T Cells Is Activated during Leishmania donovani Infection by CD1d-bound Lipophosphoglycan. Journal of Experimental Medicine, 2004, 200, 895-904.	4.2	191
39	Identification of a gene involved in the biosynthesis of cyclopropanated mycolic acids in Mycobacterium tuberculosis.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 6630-6634.	3.3	190
40	A highly conserved transcriptional repressor controls a large regulon involved in lipid degradation in <i>Mycobacterium smegmatis</i> and <i>Mycobacterium tuberculosis</i>. Molecular Microbiology, 2007, 65, 684-699.	1.2	190
41	TheMycobacterium tuberculosisFAS-II condensing enzymes: their role in mycolic acid biosynthesis, acid-fastness, pathogenesis and in future drug development. Molecular Microbiology, 2007, 64, 1442-1454.	1.2	188
42	Identification of a small molecule with activity against drug-resistant and persistent tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2510-7.	3.3	188
43	CD169+ macrophages present lipid antigens to mediate early activation of iNKT cells in lymph nodes. Nature Immunology, 2010, 11, 303-312.	7.0	186
44	Natural killer T cells in adipose tissue prevent insulin resistance. Journal of Clinical Investigation, 2012, 122, 3343-3354.	3.9	185
45	MmpL Genes Are Associated with Mycolic Acid Metabolism in Mycobacteria and Corynebacteria. Chemistry and Biology, 2012, 19, 498-506.	6.2	179
46	B cell receptor-mediated uptake of CD1d-restricted antigen augments antibody responses by recruiting invariant NKT cell help<i>in vivo</i>. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8345-8350.	3.3	178
47	Molecular Interaction of CD1b with Lipoglycan Antigens. Immunity, 1998, 8, 331-340.	6.6	177
48	Trehalose-recycling ABC transporter LpqY-SugA-SugB-SugC is essential for virulence of <i>Mycobacterium tuberculosis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21761-21766.	3.3	177
49	Overexpression ofinhA, but notkasA, confers resistance to isoniazid and ethionamide inMycobacterium smegmatis,M. bovisBCG andM. tuberculosis. Molecular Microbiology, 2002, 46, 453-466.	1.2	176
50	PPARÎ³ controls CD1d expression by turning on retinoic acid synthesis in developing human dendritic cells. Journal of Experimental Medicine, 2006, 203, 2351-2362.	4.2	176
51	Inflammation-induced formation of fat-associated lymphoid clusters. Nature Immunology, 2015, 16, 819-828.	7.0	175
52	Modulation of human natural killer T cell ligands on TLR-mediated antigen-presenting cell activation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20490-20495.	3.3	173
53	A Type II Pathway for Fatty Acid Biosynthesis Presents Drug Targets in Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2003, 47, 297-301.	1.4	171
54	Crystal structure of the secreted form of antigen 85C reveals potential targets for mycobacterial drugs and vaccines. Nature Structural Biology, 2000, 7, 141-146.	9.7	170

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55	Mycobacterium tuberculosis pks12 Produces a Novel Polyketide Presented by CD1c to T Cells. Journal of Experimental Medicine, 2004, 200, 1559-1569.	4.2	166
56	Identification and Substrate Specificity of Î²-Ketoacyl (Acyl Carrier Protein) Synthase III (mtFabH) from Mycobacterium tuberculosis. Journal of Biological Chemistry, 2000, 275, 28201-28207.	1.6	165
57	Identification of Novel Imidazo[1,2-a]pyridine Inhibitors Targeting M. tuberculosis QcrB. PLoS ONE, 2012, 7, e52951.	1.1	162
58	Activation of invariant natural killer T cells by lipid excess promotes tissue inflammation, insulin resistance, and hepatic steatosis in obese mice. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1143-52.	3.3	160
59	Acyl-CoA Carboxylases (accD2 and accD3), Together with a Unique Polyketide Synthase (Cg-pks), Are Key to Mycolic Acid Biosynthesis in Corynebacterianeae Such as Corynebacterium glutamicum and Mycobacterium tuberculosis. Journal of Biological Chemistry, 2004, 279, 44847-44857.	1.6	159
60	Kinetics and Cellular Site of Glycolipid Loading Control the Outcome of Natural Killer T Cell Activation. Immunity, 2009, 30, 888-898.	6.6	159
61	Lysosomal Trafficking, Antigen Presentation, and Microbial Killing Are Controlled by the Arf-like GTPase Arl8b. Immunity, 2011, 35, 182-193.	6.6	159
62	Biosynthesis of Mycobacterial Lipoarabinomannan. Journal of Biological Chemistry, 1997, 272, 18460-18466.	1.6	151
63	Galactan Biosynthesis in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2001, 276, 26430-26440.	1.6	147
64	Lipid length controls antigen entry into endosomal and nonendosomal pathways for CD1b presentation. Nature Immunology, 2002, 3, 435-442.	7.0	146
65	Unique Mechanism of Action of the Thiourea Drug Isoxyl on Mycobacterium tuberculosis. Journal of Biological Chemistry, 2003, 278, 53123-53130.	1.6	145
66	Mycobacterial cell wall biosynthesis: a multifaceted antibiotic target. Parasitology, 2018, 145, 116-133.	0.7	145
67	Biosynthesis of the Linkage Region of the Mycobacterial Cell Wall. Journal of Biological Chemistry, 1996, 271, 7820-7828.	1.6	144
68	Cd1b-Mediated T Cell Recognition of a Glycolipid Antigen Generated from Mycobacterial Lipid and Host Carbohydrate during Infection. Journal of Experimental Medicine, 2000, 192, 965-976.	4.2	144
69	EthR, a repressor of the TetR/CamR family implicated in ethionamide resistance in mycobacteria, octamerizes cooperatively on its operator. Molecular Microbiology, 2003, 51, 175-188.	1.2	144
70	Identification of a Novel Arabinofuranosyltransferase (AftA) Involved in Cell Wall Arabinan Biosynthesis in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2006, 281, 15653-15661.	1.6	143
71	EthA, a Common Activator of Thiocarbamide-Containing Drugs Acting on Different Mycobacterial Targets. Antimicrobial Agents and Chemotherapy, 2007, 51, 1055-1063.	1.4	143
72	Self-poisoning of Mycobacterium tuberculosis by targeting GlgE in an Î±-glucan pathway. Nature Chemical Biology, 2010, 6, 376-384.	3.9	141

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73	The Crystal Structure of Human CD1b with a Bound Bacterial Glycolipid. Journal of Immunology, 2004, 172, 2382-2388.	0.4	137
74	Influenza infection in suckling mice expands an NKT cell subset that protects against airway hyperreactivity. Journal of Clinical Investigation, 2011, 121, 57-69.	3.9	137
75	An FHA Phosphoprotein Recognition Domain Mediates Protein EmbR Phosphorylation by PknH, a Ser/Thr Protein Kinase fromMycobacterium tuberculosisâ€. Biochemistry, 2003, 42, 15300-15309.	1.2	136
76	Synthesis of the Arabinose Donor .beta.-D-Arabinofuranosyl-1-monophosphoryldecaprenol, Development of a Basic Arabinosyl-Transferase Assay, and Identification of Ethambutol as an Arabinosyl Transferase Inhibitor. Journal of the American Chemical Society, 1995, 117, 11829-11832.	6.6	135
77	Deletion of Cg-emb in Corynebacterianeae 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.	1.6	132
78	Recognition of microbial and mammalian phospholipid antigens by NKT cells with diverse TCRs. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1827-1832.	3.3	129
79	Impaired selection of invariant natural killer T cells in diverse mouse models of glycosphingolipid lysosomal storage diseases. Journal of Experimental Medicine, 2006, 203, 2293-2303.	4.2	127
80	Functional Role of the PE Domain and Immunogenicity of the <i>Mycobacterium tuberculosis</i> Triacylglycerol Hydrolase LipY. Infection and Immunity, 2008, 76, 127-140.	1.0	127
81	The mannose cap of mycobacterial lipoarabinomannan does not dominate the Mycobacteriumâ€"host interaction. Cellular Microbiology, 2008, 10, 930-944.	1.1	124
82	Combined NKT cell activation and influenza virus vaccination boosts memory CTL generation and protective immunity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3330-3335.	3.3	123
83	Tetrahydropyrazolo[1,5-a]Pyrimidine-3-Carboxamide and N-Benzyl-6â€²,7â€²-Dihydrospiro[Piperidine-4,4â€²-Thieno[3,2-c]Pyran] Analogues with Bactericidal Efficacy against Mycobacterium tuberculosis Targeting MmpL3. PLoS ONE, 2013, 8, e60933.	1.1	123
84	Zebrafish embryo screen for mycobacterial genes involved in the initiation of granuloma formation reveals a newly identified ESX-1 component. DMM Disease Models and Mechanisms, 2011, 4, 526-536.	1.2	122
85	Ethambutol, a cell wall inhibitor of Mycobacterium tuberculosis, elicits l-glutamate efflux of Corynebacterium glutamicum. Microbiology (United Kingdom), 2005, 151, 1359-1368.	0.7	116
86	Antimycobacterial Activities of Isoxyl and New Derivatives through the Inhibition of Mycolic Acid Synthesis. Antimicrobial Agents and Chemotherapy, 1999, 43, 1042-1051.	1.4	114
87	Identification of a Novel Arabinofuranosyltransferase AftB Involved in a Terminal Step of Cell Wall Arabinan Biosynthesis in Corynebacterianeae, such as Corynebacterium glutamicum and Mycobacterium tuberculosis. Journal of Biological Chemistry, 2007, 282, 14729-14740.	1.6	114
88	Biochemical Characterization of Acyl Carrier Protein (AcpM) and Malonyl-CoA:AcpM Transacylase (mtFabD), Two Major Components ofMycobacterium tuberculosis Fatty Acid Synthase II. Journal of Biological Chemistry, 2001, 276, 27967-27974.	1.6	113
89	3-Ketosteroid 9ÃŽÂ±-hydroxylase is an essential factor in the pathogenesis of<i>Mycobacterium tuberculosis</i>. Molecular Microbiology, 2010, 75, 107-121.	1.2	113
90	Inhibition of UDP-Gal Mutase and Mycobacterial Galactan Biosynthesis by Pyrrolidine Analogues of Galactofuranose. Tetrahedron Letters, 1997, 38, 6733-6736.	0.7	112

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91	Mycolic acid biosynthesis and enzymic characterization of the Î²-ketoacyl-ACP synthase A-condensing enzyme from Mycobacterium tuberculosis. Biochemical Journal, 2002, 364, 423-430.	1.7	112
92	Thiacetazone, an Antitubercular Drug that Inhibits Cyclopropanation of Cell Wall Mycolic Acids in Mycobacteria. PLoS ONE, 2007, 2, e1343.	1.1	112
93	Cord Factor and Peptidoglycan Recapitulate the Th17-Promoting Adjuvant Activity of Mycobacteria through Mincle/CARD9 Signaling and the Inflammasome. Journal of Immunology, 2013, 190, 5722-5730.	0.4	112
94	Recognition of Î²-linked self glycolipids mediated by natural killer T cell antigen receptors. Nature Immunology, 2011, 12, 827-833.	7.0	111
95	Biosynthesis of the Galactan Component of the Mycobacterial Cell Wall. Journal of Biological Chemistry, 2000, 275, 33890-33897.	1.6	108
96	Structural Study of Lipomannan and Lipoarabinomannan fromMycobacterium chelonae. Journal of Biological Chemistry, 2002, 277, 30635-30648.	1.6	107
97	Ppm1, a novel polyprenol monophosphomannose synthase from Mycobacterium tuberculosis. Biochemical Journal, 2002, 365, 441-450.	1.7	107
98	A Molecular Basis for the Exquisite CD1d-Restricted Antigen Specificity and Functional Responses of Natural Killer T Cells. Immunity, 2011, 34, 327-339.	6.6	107
99	MAIT cell clonal expansion and TCR repertoire shaping in human volunteers challenged with Salmonella ParatyphiÂA. Nature Communications, 2018, 9, 253.	5.8	107
100	The use of microarray analysis to determine the gene expression profiles of Mycobacterium tuberculosis in response to anti-bacterial compounds. Tuberculosis, 2004, 84, 263-274.	0.8	106
101	A mycolic acidâ€"specific CD1-restricted T cell population contributes to acute and memory immune responses in human tuberculosis infection. Journal of Clinical Investigation, 2011, 121, 2493-2503.	3.9	106
102	A structural basis for selection and cross-species reactivity of the semi-invariant NKT cell receptor in CD1d/glycolipid recognition. Journal of Experimental Medicine, 2006, 203, 661-673.	4.2	105
103	Truncated Structural Variants of Lipoarabinomannan in Ethambutol Drug-resistant Strains of Mycobacterium smegmatis. Journal of Biological Chemistry, 1996, 271, 28682-28690.	1.6	104
104	The pimB Gene of Mycobacterium tuberculosis Encodes a Mannosyltransferase Involved in Lipoarabinomannan Biosynthesis. Journal of Biological Chemistry, 1999, 274, 31625-31631.	1.6	104
105	Keto-Mycolic Acid-Dependent Pellicle Formation Confers Tolerance to Drug-Sensitive Mycobacterium tuberculosis. MBio, 2013, 4, e00222-13.	1.8	103
106	The Condensing Activities of the Mycobacterium tuberculosis Type II Fatty Acid Synthase Are Differentially Regulated by Phosphorylation. Journal of Biological Chemistry, 2006, 281, 30094-30103.	1.6	101
107	Innate Recognition of Cell Wall Î²-Glucans Drives Invariant Natural Killer T Cell Responses against Fungi. Cell Host and Microbe, 2011, 10, 437-450.	5.1	101
108	Metagenomic Analysis of Tuberculosis in a Mummy. New England Journal of Medicine, 2013, 369, 289-290.	13.9	101

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109	A<i>Mycobacterium tuberculosis</i>Mutant Lacking the<i>groEL</i>Homologue<i>cpn60.1</i>Is Viable but Fails To Induce an Inflammatory Response in Animal Models of Infection. Infection and Immunity, 2008, 76, 1535-1546.	1.0	100
110	Comparative cell wall core biosynthesis in the mycolated pathogens,Mycobacterium tuberculosisandCorynebacterium diphtheriae. FEMS Microbiology Reviews, 2004, 28, 225-250.	3.9	99
111	Crystal Structure of the TetR/CamR Family Repressor Mycobacterium tuberculosis EthR Implicated in Ethionamide Resistance. Journal of Molecular Biology, 2004, 340, 1095-1105.	2.0	99
112	Interplay of Cytokines and Microbial Signals in Regulation of CD1d Expression and NKT Cell Activation. Journal of Immunology, 2005, 175, 3584-3593.	0.4	99
113	The Two Carboxylases of Corynebacterium glutamicum Essential for Fatty Acid and Mycolic Acid Synthesis. Journal of Bacteriology, 2007, 189, 5257-5264.	1.0	99
114	Structural elucidation of a novel family of acyltrehaloses from Mycobacterium tuberculosis. Biochemistry, 1992, 31, 9832-9837.	1.2	98
115	A semi-invariant VÎ±10+ T cell antigen receptor defines a population of natural killer T cells with distinct glycolipid antigenâ€"recognition properties. Nature Immunology, 2011, 12, 616-623.	7.0	97
116	Saposin B is the dominant saposin that facilitates lipid binding to human CD1d molecules. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5551-5556.	3.3	96
117	Activation of Human Mucosal-Associated Invariant T Cells Induces CD40L-Dependent Maturation of Monocyte-Derived and Primary Dendritic Cells. Journal of Immunology, 2017, 199, 2631-2638.	0.4	96
118	Essential role for autophagy during invariant NKT cell development. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5678-87.	3.3	95
119	Arylamine N-Acetyltransferase Is Required for Synthesis of Mycolic Acids and Complex Lipids in Mycobacterium bovis BCG and Represents a Novel Drug Target. Journal of Experimental Medicine, 2004, 199, 1191-1199.	4.2	93
120	Mycolic Acid Modification by the mmaA4 Gene of M. tuberculosis Modulates IL-12 Production. PLoS Pathogens, 2008, 4, e1000081.	2.1	92
121	Identification of the apparent carrier in mycolic acid synthesis.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 12735-12739.	3.3	91
122	CD1d-restricted T cell activation by nonlipidic small molecules. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13578-13583.	3.3	91
123	Conserved and Heterogeneous Lipid Antigen Specificities of CD1d-Restricted NKT Cell Receptors. Journal of Immunology, 2006, 176, 3625-3634.	0.4	91
124	The T cell antigen receptor expressed by VÂ14i NKT cells has a unique mode of glycosphingolipid antigen recognition. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12254-12259.	3.3	90
125	A Single Subset of Dendritic Cells Controls the Cytokine Bias of Natural Killer T Cell Responses to Diverse Glycolipid Antigens. Immunity, 2014, 40, 105-116.	6.6	90
126	The M. tuberculosis antigen 85 complex and mycolyltransferase activity. Letters in Applied Microbiology, 2002, 34, 233-237.	1.0	88

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127	Biosynthesis of mycobacterial arabinogalactan: identification of a novel Î±(1â†'3) arabinofuranosyltransferase. Molecular Microbiology, 2008, 69, 1191-1206.	1.2	88
128	Galectin-3 Plays an Important Pro-inflammatory Role in the Induction Phase of Acute Colitis by Promoting Activation of NLRP3 Inflammasome and Production of IL-1Î² in Macrophages. Journal of Crohn's and Colitis, 2016, 10, 593-606.	0.6	87
129	Mycobacterial arabinan biosynthesis: the use of synthetic arabinoside acceptors in the development of an arabinosyl transfer assay. Glycobiology, 1997, 7, 1121-1128.	1.3	86
130	The thick waxy coat of mycobacteria, a protective layer against antibiotics and the host's immune system. Biochemical Journal, 2020, 477, 1983-2006.	1.7	86
131	Lysosomal Localization of Murine CD1d Mediated by AP-3 Is Necessary for NK T Cell Development. Journal of Immunology, 2003, 171, 4149-4155.	0.4	85
132	Lipid composition and transcriptional response of Mycobacterium tuberculosis grown under iron-limitation in continuous culture: identification of a novel wax ester. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537	0.7	85
133	Human autoreactive T cells recognize CD1b and phospholipids. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 380-385.	3.3	85
134	Characterization of a putative Î±-mannosyltransferase involved in phosphatidylinositol trimannoside biosynthesis in Mycobacterium tuberculosis. Biochemical Journal, 2002, 363, 437-447.	1.7	84
135	Activation of iNKT cells by a distinct constituent of the endogenous glucosylceramide fraction. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13433-13438.	3.3	83
136	Structures of cell wall arabinosyltransferases with the anti-tuberculosis drug ethambutol. Science, 2020, 368, 1211-1219.	6.0	82
137	Improved Outcomes in NOD Mice Treated with a Novel Th2 Cytokine-Biasing NKT Cell Activator. Journal of Immunology, 2007, 178, 1415-1425.	0.4	81
138	Role of Phosphatidylinositol Mannosides in the Interaction between Mycobacteria and DC-SIGN. Infection and Immunity, 2009, 77, 4538-4547.	1.0	81
139	Mycobacterium tuberculosis Antigen 85A and 85C Structures Confirm Binding Orientation and Conserved Substrate Specificity. Journal of Biological Chemistry, 2004, 279, 36771-36777.	1.6	80
140	Identification of the lipooligosaccharide biosynthetic gene cluster from Mycobacterium marinum. Molecular Microbiology, 2007, 63, 1345-1359.	1.2	79
141	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.	3.3	76
142	Cutting Edge: Nonglycosidic CD1d Lipid Ligands Activate Human and Murine Invariant NKT Cells. Journal of Immunology, 2008, 180, 6452-6456.	0.4	76
143	Two functional FAS-I type fatty acid synthases in Corynebacterium glutamicum. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overl	0.7	75
144	The role of hydrophobicity in tuberculosis evolution and pathogenicity. Scientific Reports, 2017, 7, 1315.	1.6	75

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145	Incorporation of NKT Cell-Activating Glycolipids Enhances Immunogenicity and Vaccine Efficacy of <i>Mycobacterium bovis</i> Bacillus Calmette-Gueìrin. Journal of Immunology, 2009, 183, 1644-1656.	0.4	74
146	Identification of an Î±(1â†’6) mannopyranosyltransferase (MptA), involved in <i>Corynebacterium glutamicum</i> lipomanann biosynthesis, and identification of its orthologue in <i>Mycobacterium tuberculosis</i>. Molecular Microbiology, 2007, 65, 1503-1517.	1.2	73
147	Mannan Chain Length Controls Lipoglycans Signaling via and Binding to TLR2. Journal of Immunology, 2008, 180, 6696-6702.	0.4	73
148	Identification of KasA as the cellular target of an anti-tubercular scaffold. Nature Communications, 2016, 7, 12581.	5.8	72
149	Preparation of Cell-Wall Fractions from Mycobacteria. , 1998, 101, 91-108.		71
150	Structure, function and biosynthesis of the <i>Mycobacterium tuberculosis</i> cell wall: arabinogalactan and lipoarabinomannan assembly with a view to discovering new drug targets. Biochemical Society Transactions, 2007, 35, 1325-1328.	1.6	71
151	Serum lipids regulate dendritic cell CD1 expression and function. Immunology, 2008, 125, 289-301.	2.0	71
152	Primary deficiency of microsomal triglyceride transfer protein in human abetalipoproteinemia is associated with loss of CD1 function. Journal of Clinical Investigation, 2010, 120, 2889-2899.	3.9	71
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