Gurdyal Besra

List of Publications by Year in Descending Order

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

476 papers	30,000 citations	95 h-index	147 g-index
493 ext. papers	32,941 ext. citations	7.3 avg, IF	6.65 L-index

#	Paper	IF	Citations
476	Identification of thiophene-benzenesulfonamide derivatives for the treatment of multidrug-resistant tuberculosis.. *European Journal of Medicinal Chemistry*, **2022**, 231, 114145	6.8	1
475	The P5-type ATPase ATP13A1 modulates major histocompatibility complex I-related protein 1 (MR1)-mediated antigen presentation.. *Journal of Biological Chemistry*, **2021**, 101542	5.4	0
474	The multi-target aspect of an MmpL3 inhibitor: The BM212 series of compounds bind EthR2, a transcriptional regulator of ethionamide activation. *Cell Surface*, **2021**, 7, 100068	4.8	0
473	Synthesis and recycling of the mycobacterial cell envelope. *Current Opinion in Microbiology*, **2021**, 60, 58-65	7.9	7
472	Discovery of Novel Thiophene-arylamide Derivatives as DprE1 Inhibitors with Potent Antimycobacterial Activities. *Journal of Medicinal Chemistry*, **2021**, 64, 6241-6261	8.3	3
471	CD1a selectively captures endogenous cellular lipids that broadly block T cell response. *Journal of Experimental Medicine*, **2021**, 218,	16.6	1
470	Chemical insights into the search for MAIT cells activators. *Molecular Immunology*, **2021**, 129, 114-120	4.3	0
469	Two-Way Regulation of MmpL3 Expression Identifies and Validates Inhibitors of MmpL3 Function in. *ACS Infectious Diseases*, **2021**, 7, 141-152	5.5	3
468	A multi-targeting pre-clinical candidate against drug-resistant tuberculosis. *Tuberculosis*, **2021**, 129, 102104	2.8	2
467	Biochemical and phenotypic characterisation of the transporter UspABC. *Cell Surface*, **2021**, 7, 100052	4.8	
466	Mycobacterial drug discovery. *RSC Medicinal Chemistry*, **2020**, 11, 1354-1365	3.5	8
465	Development of a novel secondary phenotypic screen to identify hits within the mycobacterial protein synthesis pipeline. *FASEB BioAdvances*, **2020**, 2, 600-612	2.8	1
464	Cryo-EM snapshots of mycobacterial arabinosyltransferase complex EmbB-AcpM. *Protein and Cell*, **2020**, 11, 505-517	7.2	5
463	Ligand-dependent downregulation of MR1 cell surface expression. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 10465-10475	11.5	21
462	Anti-tubercular derivatives of rhein require activation by the monoglyceride lipase Rv0183. *Cell Surface*, **2020**, 6, 100040	4.8	1
461	Targeting mitochondrial dysfunction in MAIT cells limits IL-17 production in obesity. *Cellular and Molecular Immunology*, **2020**, 17, 1193-1195	15.4	10
460	Tuberculosis diagnostics: overcoming ancient challenges with modern solutions. *Emerging Topics in Life Sciences*, **2020**, 4, 423-436	3.5	1

459	The thick waxy coat of mycobacteria, a protective layer against antibiotics and the host's immune system. *Biochemical Journal*, **2020**, 477, 1983-2006	3.8	38
458	Recognising the broad array of approaches available for the diagnosis of ancient tuberculosis: Comment on Infectious diseases and Neolithic transformations (Fuchs et al. 2019 The Holocene 29: 1545–1557). *Holocene*, **2020**, 30, 781-783	2.6	
457	Antibiotics and resistance: the two-sided coin of the mycobacterial cell wall. *Cell Surface*, **2020**, 6, 100044	4.8	7
456	Oldest evidence of tuberculosis in Argentina: A multidisciplinary investigation in an adult male skeleton from Saujil, Tinogasta, Catamarca (905-1030 CE). *Tuberculosis*, **2020**, 125, 101995	2.6	4
455	Evasion of MAIT cell recognition by the African Typhimurium ST313 pathovar that causes invasive disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 20717-20728	11.5	9
454	Structures of cell wall arabinosyltransferases with the anti-tuberculosis drug ethambutol. *Science*, **2020**, 368, 1211-1219	33.3	34
453	Identification and characterization of a novel anti-inflammatory lipid isolated from Mycobacterium vaccae, a soil-derived bacterium with immunoregulatory and stress resilience properties. *Psychopharmacology*, **2019**, 236, 1653-1670	4.7	16
452	Development of a whole-cell high-throughput phenotypic screen to identify inhibitors of mycobacterial amino acid biosynthesis. *FASEB BioAdvances*, **2019**, 1, 246-254	2.8	6
451	The hydrolase LpqI primes mycobacterial peptidoglycan recycling. *Nature Communications*, **2019**, 10, 2647	17.4	10
450	Obesity Reduces mTORC1 Activity in Mucosal-Associated Invariant T Cells, Driving Defective Metabolic and Functional Responses. *Journal of Immunology*, **2019**, 202, 3404-3411	5.3	25
449	Crystal structure of the TreS:Pep2 complex, initiating α-glucan synthesis in the GlgE pathway of mycobacteria. *Journal of Biological Chemistry*, **2019**, 294, 7348-7359	5.4	2
448	Utilisation of the Prestwick Chemical Library to identify drugs that inhibit the growth of mycobacteria. *PLoS ONE*, **2019**, 14, e0213713	3.7	7
447	Promotion or Suppression of Murine Intestinal Polyp Development by iNKT Cell Directed Immunotherapy. *Frontiers in Immunology*, **2019**, 10, 352	8.4	5
446	Sterile activation of invariant natural killer T cells by ER-stressed antigen-presenting cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23671-23681	11.5	9
445	Tissue-specific shaping of the TCR repertoire and antigen specificity of iNKT cells. *ELife*, **2019**, 8,	8.9	6
444	Antimycobacterial drug discovery using Mycobacteria-infected amoebae identifies anti-infectives and new molecular targets. *Scientific Reports*, **2018**, 8, 3939	4.9	17
443	MAIT cell clonal expansion and TCR repertoire shaping in human volunteers challenged with Salmonella Paratyphi A. *Nature Communications*, **2018**, 9, 253	17.4	66
442	Differing roles of CD1d2 and CD1d1 proteins in type I natural killer T cell development and function. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1204-E1213	11.5	16

441	AftD functions as an α-(1 -> 5) arabinofuranosyltransferase involved in the biosynthesis of the mycobacterial cell wall core. *Cell Surface*, **2018**, 1, 2-14	4.8	10
440	Mycobacterial cell wall biosynthesis: a multifaceted antibiotic target. *Parasitology*, **2018**, 145, 116-133	2.7	90
439	Identification and characterization of aspartyl-tRNA synthetase inhibitors against Mycobacterium tuberculosis by an integrated whole-cell target-based approach. *Scientific Reports*, **2018**, 8, 12664	4.9	12
438	Photoactivable Glycolipid Antigens Generate Stable Conjugates with CD1d for Invariant Natural Killer T Cell Activation. *Bioconjugate Chemistry*, **2018**, 29, 3161-3173	6.3	11
437	Deciphering the molecular basis of mycobacteria and lipoglycan recognition by the C-type lectin Dectin-2. *Scientific Reports*, **2018**, 8, 16840	4.9	19
436	Mrp1 is involved in lipid presentation and iNKT cell activation by Streptococcus pneumoniae. *Nature Communications*, **2018**, 9, 4279	17.4	7
435	Identification of novel benzothiopyranone compounds against Mycobacterium tuberculosis through scaffold morphing from benzothiazinones. *European Journal of Medicinal Chemistry*, **2018**, 160, 157-170	6.8	16
434	Novel insight into the reaction of nitro, nitroso and hydroxylamino benzothiazinones and of benzoxacinones with Mycobacterium tuberculosis DprE1. *Scientific Reports*, **2018**, 8, 13473	4.9	22
433	The singular Emb arabinofuranosyltransferase polymerises the α(1 -> 5) arabinan backbone in the early stages of cell wall arabinan biosynthesis. *Cell Surface*, **2018**, 2, 38-53	4.8	4
432	Maintenance of the marginal-zone B cell compartment specifically requires the RNA-binding protein ZFP36L1. *Nature Immunology*, **2017**, 18, 683-693	19.1	35
431	Modular Synthesis of Diverse Natural Product-Like Macrocycles: Discovery of Hits with Antimycobacterial Activity. *Chemistry - A European Journal*, **2017**, 23, 7207-7211	4.8	18
430	The role of hydrophobicity in tuberculosis evolution and pathogenicity. *Scientific Reports*, **2017**, 7, 1315	4.9	38
429	Fluorescent mannosides serve as acceptor substrates for glycosyltransferase and sugar-1-phosphate transferase activities in Euglena gracilis membranes. *Carbohydrate Research*, **2017**, 438, 26-38	2.9	12
428	Disruption of Mycobacterial AftB Results in Complete Loss of Terminal β(1 -> 2) Arabinofuranose Residues of Lipoarabinomannan. *ACS Chemical Biology*, **2017**, 12, 183-190	4.9	13
427	CD1d-mediated activation of group 3 innate lymphoid cells drives IL-22 production. *EMBO Reports*, **2017**, 18, 39-47	6.5	29
426	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	5.3	57
425	Inhibiting mycobacterial tryptophan synthase by targeting the inter-subunit interface. *Scientific Reports*, **2017**, 7, 9430	4.9	34
424	Prioritizing multiple therapeutic targets in parallel using automated DNA-encoded library screening. *Nature Communications*, **2017**, 8, 16081	17.4	42

423	Structural determination of lipid antigens captured at the CD1d-T-cell receptor interface. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 8348-8353	11.5	29
422	Determinants of the Inhibition of DprE1 and CYP2C9 by Antitubercular Thiophenes. *Angewandte Chemie*, **2017**, 129, 13191-13195	3.6	0
421	Determinants of the Inhibition of DprE1 and CYP2C9 by Antitubercular Thiophenes. *Angewandte Chemie - International Edition*, **2017**, 56, 13011-13015	16.4	24
420	Positive Diagnosis of Ancient Leprosy and Tuberculosis Using Ancient DNA and Lipid Biomarkers. *Diversity*, **2017**, 9, 46	2.5	11
419	Colworth prize lecture 2016: exploiting new biological targets from a whole-cell phenotypic screening campaign for TB drug discovery. *Microbiology (United Kingdom)*, **2017**, 163, 1385-1388	2.9	3
418	Lcp1 Is a Phosphotransferase Responsible for Ligating Arabinogalactan to Peptidoglycan in Mycobacterium tuberculosis. *MBio*, **2016**, 7,	7.8	35
417	THPP target assignment reveals EchA6 as an essential fatty acid shuttle in mycobacteria. *Nature Microbiology*, **2016**, 1, 15006	26.6	45
416	Identification of KasA as the cellular target of an anti-tubercular scaffold. *Nature Communications*, **2016**, 7, 12581	17.4	51
415	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-1β in Macrophages. *Journal of Crohn's and Colitis*, **2016**, 10, 593-606	1.5	60
414	The actin cytoskeleton modulates the activation of iNKT cells by segregating CD1d nanoclusters on antigen-presenting cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E772-81	11.5	26
413	Atypical natural killer T-cell receptor recognition of CD1d-lipid antigens. *Nature Communications*, **2016**, 7, 10570	17.4	26
412	"Endocytic pH regulates cell surface localization of glycolipid antigen loaded CD1d complexes". *Chemistry and Physics of Lipids*, **2016**, 194, 49-57	3.7	4
411	Human autoreactive T cells recognize CD1b and phospholipids. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 380-5	11.5	58
410	Pathogenic mycobacteria achieve cellular persistence by inhibiting the Niemann-Pick Type C disease cellular pathway. *Wellcome Open Research*, **2016**, 1, 18	4.8	13
409	Identification of a Desaturase Involved in Mycolic Acid Biosynthesis in Mycobacterium smegmatis. *PLoS ONE*, **2016**, 11, e0164253	3.7	20
408	Novel inhibitors of Mycobacterium tuberculosis GuaB2 identified by a target based high-throughput phenotypic screen. *Scientific Reports*, **2016**, 6, 38986	4.9	15
407	Structural and functional analysis of the solute-binding protein UspC from Mycobacterium tuberculosis that is specific for amino sugars. *Open Biology*, **2016**, 6,	7	17
406	Non-glycosidic compounds can stimulate both human and mouse iNKT cells. *European Journal of Immunology*, **2016**, 46, 1224-34	6.1	13

405	Morphological and biomolecular evidence for tuberculosis in 8th century AD skeletons from B□megyer-Cs□k□i domb, Hungary. *Tuberculosis*, **2015**, 95 Suppl 1, S35-41	2.6	6
404	A migration-driven model for the historical spread of leprosy in medieval Eastern and Central Europe. *Infection, Genetics and Evolution*, **2015**, 31, 250-6	4.5	35
403	7000 year-old tuberculosis cases from Hungary - Osteological and biomolecular evidence. *Tuberculosis*, **2015**, 95 Suppl 1, S13-7	2.6	19
402	Inflammation-induced formation of fat-associated lymphoid clusters. *Nature Immunology*, **2015**, 16, 819-828	19.1	128
401	A Subset of CD8□ Invariant NKT Cells in a Humanized Mouse Model. *Journal of Immunology*, **2015**, 195, 1459-69	5.3	6
400	A Novel Glycolipid Antigen for NKT Cells That Preferentially Induces IFN-□ Production. *Journal of Immunology*, **2015**, 195, 924-33	5.3	23
399	Ancient DNA analysis - An established technique in charting the evolution of tuberculosis and leprosy. *Tuberculosis*, **2015**, 95 Suppl 1, S140-4	2.6	21
398	Human tuberculosis predates domestication in ancient Syria. *Tuberculosis*, **2015**, 95 Suppl 1, S4-S12	2.6	38
397	Lipid biomarkers provide evolutionary signposts for the oldest known cases of tuberculosis. *Tuberculosis*, **2015**, 95 Suppl 1, S127-32	2.6	21
396	Cognate interaction with iNKT cells expands IL-10-producing B regulatory cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 12474-9	11.5	23
395	Novel derivatives of nitro-substituted salicylic acids: Synthesis, antimicrobial activity and cytotoxicity. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7292-301	3.4	8
394	Assembly of the Mycobacterial Cell Wall. *Annual Review of Microbiology*, **2015**, 69, 405-23	17.5	202
393	Identification of a Potent Microbial Lipid Antigen for Diverse NKT Cells. *Journal of Immunology*, **2015**, 195, 2540-51	5.3	32
392	Whole Cell Target Engagement Identifies Novel Inhibitors of Mycobacterium tuberculosis Decaprenylphosphoryl-□-d-ribose Oxidase. *ACS Infectious Diseases*, **2015**, 1, 615-26	5.5	36
391	Endocytic pH regulates cell surface localization of glycolipid antigen loaded CD1d complexes. *Chemistry and Physics of Lipids*, **2015**, 191, 75-83	3.7	4
390	Regulatory iNKT cells lack expression of the transcription factor PLZF and control the homeostasis of T(reg) cells and macrophages in adipose tissue. *Nature Immunology*, **2015**, 16, 85-95	19.1	243
389	In contrast to other species, □-Galactosylceramide (□-GalCer) is not an immunostimulatory NKT cell agonist in horses. *Developmental and Comparative Immunology*, **2015**, 49, 49-58	3.2	4
388	Mycolic acids: deciphering and targeting the Achilles' heel of the tubercle bacillus. *Molecular Microbiology*, **2015**, 98, 7-16	4.1	44

387	Pathophysiological Implications of Cell Envelope Structure in Mycobacterium tuberculosis and Related Taxa **2015**,		16
386	Mycobacterial dihydrofolate reductase inhibitors identified using chemogenomic methods and in vitro validation. *PLoS ONE*, **2015**, 10, e0121492	3.7	32
385	MKAN27435 is required for the biosynthesis of higher subclasses of lipooligosaccharides in Mycobacterium kansasii. *PLoS ONE*, **2015**, 10, e0122804	3.7	8
384	Antigen Specificity of Type I NKT Cells Is Governed by TCR β-Chain Diversity. *Journal of Immunology*, **2015**, 195, 4604-14	5.3	23
383	Ancient mycobacterial lipids: Key reference biomarkers in charting the evolution of tuberculosis. *Tuberculosis*, **2015**, 95 Suppl 1, S133-9	2.6	24
382	Osteological, biomolecular and geochemical examination of an early anglo-saxon case of lepromatous leprosy. *PLoS ONE*, **2015**, 10, e0124282	3.7	28
381	Discrimination between bacterial phenotypes using glyco-nanoparticles and the impact of polymer coating on detection readouts. *Journal of Materials Chemistry B*, **2014**, 2, 1490-1498	7.3	41
380	Selectfluor and NFSI exo-glycal fluorination strategies applied to the enhancement of the binding affinity of galactofuranosyltransferase GlfT2 inhibitors. *Chemistry - A European Journal*, **2014**, 20, 15208-15	5.8	21
379	Genetics of Mycobacterial Arabinogalactan and Lipoarabinomannan Assembly. *Microbiology Spectrum*, **2014**, 2, MGM2-0013-2013	8.9	12
378	Non-replicating Mycobacterium tuberculosis elicits a reduced infectivity profile with corresponding modifications to the cell wall and extracellular matrix. *PLoS ONE*, **2014**, 9, e87329	3.7	45
377	Improving Mycobacterium bovis bacillus Calmette-Guérin as a vaccine delivery vector for viral antigens by incorporation of glycolipid activators of NKT cells. *PLoS ONE*, **2014**, 9, e108383	3.7	21
376	Lipids and Carbohydrates of Mycobacterium tuberculosis **2014**, 285-306		59
375	Benzothiazinones mediate killing of Corynebacterineae by blocking decaprenyl phosphate recycling involved in cell wall biosynthesis. *Journal of Biological Chemistry*, **2014**, 289, 6177-87	5.4	24
374	Elucidation of a protein-protein interaction network involved in Corynebacterium glutamicum cell wall biosynthesis as determined by bacterial two-hybrid analysis. *Glycoconjugate Journal*, **2014**, 31, 475-83	3	9
373	The molecular bases of δ/β T cell-mediated antigen recognition. *Journal of Experimental Medicine*, **2014**, 211, 2599-615	16.6	41
372	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, 13433-8	11.5	75
371	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	11.5	77
370	A single subset of dendritic cells controls the cytokine bias of natural killer T cell responses to diverse glycolipid antigens. *Immunity*, **2014**, 40, 105-16	32.3	79

369	Biochemical and structural characterization of mycobacterial aspartyl-tRNA synthetase AspS, a promising TB drug target. *PLoS ONE*, **2014**, 9, e113568	3.7	23
368	Mannan core branching of lipo(arabino)mannan is required for mycobacterial virulence in the context of innate immunity. *Cellular Microbiology*, **2013**, 15, 2093-108	3.9	24
367	Design, synthesis, and functional activity of labeled CD1d glycolipid agonists. *Bioconjugate Chemistry*, **2013**, 24, 586-94	6.3	11
366	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	11.5	150
365	Gold nanoparticle-linked analysis of carbohydrate-protein interactions, and polymeric inhibitors, using unlabelled proteins; easy measurements using a 'simple' digital camera. *Journal of Materials Chemistry B*, **2013**, 1, 2665-2672	7.3	20
364	Saposins modulate human invariant Natural Killer T cells self-reactivity and facilitate lipid exchange with CD1d molecules during antigen presentation. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E4753-61	11.5	30
363	Disruption of the serine/threonine protein kinase H affects phthiocerol dimycocerosates synthesis in Mycobacterium tuberculosis. *Microbiology (United Kingdom)*, **2013**, 159, 726-736	2.9	20
362	The mechanism of splenic invariant NKT cell activation dictates localization in vivo. *Journal of Immunology*, **2013**, 191, 572-82	5.3	39
361	Genome-wide comparison of medieval and modern Mycobacterium leprae. *Science*, **2013**, 341, 179-83	33.3	240
360	Synthesis of α-glucan in mycobacteria involves a hetero-octameric complex of trehalose synthase TreS and Maltokinase Pep2. *ACS Chemical Biology*, **2013**, 8, 2245-55	4.9	24
359	A chemical proteomics approach to profiling the ATP-binding proteome of Mycobacterium tuberculosis. *Molecular and Cellular Proteomics*, **2013**, 12, 1644-60	7.6	32
358	Metagenomic analysis of tuberculosis in a mummy. *New England Journal of Medicine*, **2013**, 369, 289-90	59.2	82
357	Keto-mycolic acid-dependent pellicle formation confers tolerance to drug-sensitive Mycobacterium tuberculosis. *MBio*, **2013**, 4, e00222-13	7.8	77
356	α-mannosylceramide activates type I natural killer t cells to induce tumor immunity without inducing long-term functional anergy. *Clinical Cancer Research*, **2013**, 19, 4404-11	12.9	14
355	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, 1827-32	11.5	107
354	The bovine CD1D gene has an unusual gene structure and is expressed but cannot present α-galactosylceramide with a C26 fatty acid. *International Immunology*, **2013**, 25, 91-8	4.9	15
353	Endoplasmic reticulum glycoprotein quality control regulates CD1d assembly and CD1d-mediated antigen presentation. *Journal of Biological Chemistry*, **2013**, 288, 16391-16402	5.4	6
352	Cord factor and peptidoglycan recapitulate the Th17-promoting adjuvant activity of mycobacteria through mincle/CARD9 signaling and the inflammasome. *Journal of Immunology*, **2013**, 190, 5722-30	5.3	91

351	Role for lysosomal phospholipase A2 in iNKT cell-mediated CD1d recognition. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 5097-102	11.5	28
350	IpsA, a novel LacI-type regulator, is required for inositol-derived lipid formation in Corynebacteria and Mycobacteria. *BMC Biology*, **2013**, 11, 122	7.3	25
349	Detection and strain typing of ancient Mycobacterium leprae from a medieval leprosy hospital. *PLoS ONE*, **2013**, 8, e62406	3.7	35
348	Tetrahydropyrazolo[1,5-a]pyrimidine-3-carboxamide and N-benzyl-6',7'-dihydrospiro[piperidine-4,4'-thieno[3,2-c]pyran] analogues with bactericidal efficacy against Mycobacterium tuberculosis targeting MmpL3. *PLoS ONE*, **2013**, 8, e60933	3.7	103
347	Osteological and biomolecular evidence of a 7000-year-old case of hypertrophic pulmonary osteopathy secondary to tuberculosis from neolithic hungary. *PLoS ONE*, **2013**, 8, e78252	3.7	40
346	Gram-positive bacterial lipoglycans based on a glycosylated diacylglycerol lipid anchor are microbe-associated molecular patterns recognized by TLR2. *PLoS ONE*, **2013**, 8, e81593	3.7	13
345	Expression of CD1c enhances human invariant NKT cell activation by □GalCer. *Cancer Immunity*, **2013**, 13, 9		7
344	SAP expression in invariant NKT cells is required for cognate help to support B-cell responses. *Blood*, **2012**, 120, 122-9	2.2	30
343	Structural basis of inhibition of Mycobacterium tuberculosis DprE1 by benzothiazinone inhibitors. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 11354-9	11.5	152
342	Amide analogues of CD1d agonists modulate iNKT-cell-mediated cytokine production. *ACS Chemical Biology*, **2012**, 7, 847-55	4.9	22
341	Arabinogalactan and lipoarabinomannan biosynthesis: structure, biogenesis and their potential as drug targets. *Future Microbiology*, **2012**, 7, 129-47	2.9	42
340	New CD1d agonists: synthesis and biological activity of 6?-triazole-substituted □galactosyl ceramides. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 4348-52	2.9	25
339	Differential effects of Mycobacterium bovis--derived polar and apolar lipid fractions on bovine innate immune cells. *Veterinary Research*, **2012**, 43, 54	3.8	17
338	Mycobacterium tuberculosis complex lipid virulence factors preserved in the 17,000-year-old skeleton of an extinct bison, Bison antiquus. *PLoS ONE*, **2012**, 7, e41923	3.7	44
337	Invariant natural killer T cells are not affected by lysosomal storage in patients with Niemann-Pick disease type C. *European Journal of Immunology*, **2012**, 42, 1886-92	6.1	11
336	Unexpected link between lipooligosaccharide biosynthesis and surface protein release in Mycobacterium marinum. *Journal of Biological Chemistry*, **2012**, 287, 20417-29	5.4	39
335	Structure and function of Mycobacterium tuberculosis meso-diaminopimelic acid (DAP) biosynthetic enzymes. *FEMS Microbiology Letters*, **2012**, 330, 10-6	2.9	16
334	Towards multivalent CD1d ligands: synthesis and biological activity of homodimeric □galactosyl ceramide analogues. *Carbohydrate Research*, **2012**, 356, 152-62	2.9	23

333	MmpL genes are associated with mycolic acid metabolism in mycobacteria and corynebacteria. *Chemistry and Biology*, **2012**, 19, 498-506		141
332	Identification of novel imidazo[1,2-a]pyridine inhibitors targeting M. tuberculosis QcrB. *PLoS ONE*, **2012**, 7, e52951	3.7	135
331	Saposins utilize two strategies for lipid transfer and CD1 antigen presentation. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 4357-64	11.5	38
330	Deletion of manC in Corynebacterium glutamicum results in a phospho-myo-inositol mannoside- and lipoglycan-deficient mutant. *Microbiology (United Kingdom)*, **2012**, 158, 1908-1917	2.9	11
329	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	11.5	137
328	Differential arabinan capping of lipoarabinomannan modulates innate immune responses and impacts T helper cell differentiation. *Journal of Biological Chemistry*, **2012**, 287, 44173-83	5.4	14
327	Human and mouse type I natural killer T cell antigen receptors exhibit different fine specificities for CD1d-antigen complex. *Journal of Biological Chemistry*, **2012**, 287, 39139-48	5.4	31
326	Natural killer T cells in adipose tissue prevent insulin resistance. *Journal of Clinical Investigation*, **2012**, 122, 3343-54	15.9	155
325	Identification of novel Mt-Guab2 inhibitor series active against M. tuberculosis. *PLoS ONE*, **2012**, 7, e33886	3.7	20
324	The ppm operon is essential for acylation and glycosylation of lipoproteins in Corynebacterium glutamicum. *PLoS ONE*, **2012**, 7, e46225	3.7	23
323	Ppm1-encoded polyprenyl monophosphomannose synthase activity is essential for lipoglycan synthesis and survival in mycobacteria. *PLoS ONE*, **2012**, 7, e48211	3.7	22
322	Invariant natural killer T cells direct B cell responses to cognate lipid antigen in an IL-21-dependent manner. *Nature Immunology*, **2011**, 13, 44-50	19.1	162
321	Identification of novel diphenyl urea inhibitors of Mt-GuaB2 active against Mycobacterium tuberculosis. *Microbiology (United Kingdom)*, **2011**, 157, 290-299	2.9	32
320	Recognition of □linked self glycolipids mediated by natural killer T cell antigen receptors. *Nature Immunology*, **2011**, 12, 827-33	19.1	99
319	Synthesis of a versatile building block for the preparation of 6-N-derivatized □galactosyl ceramides: rapid access to biologically active glycolipids. *Journal of Organic Chemistry*, **2011**, 76, 320-3	4.2	32
318	A semi-invariant V□10+ T cell antigen receptor defines a population of natural killer T cells with distinct glycolipid antigen-recognition properties. *Nature Immunology*, **2011**, 12, 616-23	19.1	87
317	Innate recognition of cell wall □glucans drives invariant natural killer T cell responses against fungi. *Cell Host and Microbe*, **2011**, 10, 437-50	23.4	93
316	Critical role for invariant chain in CD1d-mediated selection and maturation of V□14-invariant NKT cells. *Immunology Letters*, **2011**, 139, 33-41	4.1	14

315	Lysosomal trafficking, antigen presentation, and microbial killing are controlled by the Arf-like GTPase Arl8b. *Immunity*, **2011**, 35, 182-93	32.3	118
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