William R Jacobs

List of Publications by Year in Descending Order

153 papers	10,884 citations	50 h-index	102 g-index
164 ext. papers	12,838 ext. citations	10 avg, IF	5.98 L-index

#	Paper	IF	Citations
153	The promises and limitations of acetylcysteine as a potentiator of first-line and second-line tuberculosis drugs. *Antimicrobial Agents and Chemotherapy*, **2021**,	5.9	1
152	A recombinant herpes virus expressing influenza hemagglutinin confers protection and induces antibody-dependent cellular cytotoxicity. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
151	Elimination of PknL and MSMEG_4242 in alters the character of the outer cell envelope and selects for mutations in Lsr2. *Cell Surface*, **2021**, 7, 100060	4.8	0
150	A fragment-based approach to assess the ligandability of ArgB, ArgC, ArgD and ArgF in the L-arginine biosynthetic pathway of. *Computational and Structural Biotechnology Journal*, **2021**, 19, 3491-3506	6.8	5
149	Exploiting Pre-Existing CD4 T Cell Help from Bacille Calmette-Guﬁn Vaccination to Improve Antiviral Antibody Responses. *Journal of Immunology*, **2020**, 205, 425-437	5.3	1
148	Infect and Inject **2020**, 113-126		3
147	Loss of phenotypic inheritance associated with mutation leads to increased frequency of small, slow persisters in. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 4152-4157	11.5	7
146	Characterization of Large Deletion Mutants of Mycobacterium tuberculosis Selected for Isoniazid Resistance. *Antimicrobial Agents and Chemotherapy*, **2020**, 64,	5.9	1
145	High-dose ascorbic acid synergizes with anti-PD1 in a lymphoma mouse model. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 1666-1677	11.5	47
144	3-(Phenethylamino)demethyl(oxy)aaptamine as an anti-dormant mycobacterial substance: Isolation, evaluation and total synthesis. *Tetrahedron Letters*, **2020**, 61,	2	4
143	Drivers and sites of diversity in the DNA adenine methylomes of 93 complex clinical isolates. *ELife*, **2020**, 9,	8.9	8
142	High-throughput phenotyping reveals expansive genetic and structural underpinnings of immune variation. *Nature Immunology*, **2020**, 21, 86-100	19.1	15
141	Helicobacter pylori Infections in the Bronx, New York: Surveying Antibiotic Susceptibility and Strain Lineage by Whole-Genome Sequencing. *Journal of Clinical Microbiology*, **2020**, 58,	9.7	11
140	HVEM signaling promotes protective antibody-dependent cellular cytotoxicity (ADCC) vaccine responses to herpes simplex viruses. *Science Immunology*, **2020**, 5,	28	2
139	BCG-Prime and boost with Esx-5 secretion system deletion mutant leads to better protection against clinical strains of Mycobacterium tuberculosis. *Vaccine*, **2020**, 38, 7156-7165	4.1	2
138	Nanoluciferase Reporter Mycobacteriophage for Sensitive and Rapid Detection of Mycobacterium tuberculosis Drug Susceptibility. *Journal of Bacteriology*, **2020**, 202,	3.5	3
137	A Single-Cycle Glycoprotein D Deletion Viral Vaccine Candidate, gD-2, Elicits Polyfunctional Antibodies That Protect against Ocular Herpes Simplex Virus. *Journal of Virology*, **2020**, 94,	6.6	6

136	Genome-wide mutational biases fuel transcriptional diversity in the Mycobacterium tuberculosis complex. *Nature Communications*, **2019**, 10, 3994	17.4	15
135	Derailing the aspartate pathway of Mycobacterium tuberculosis to eradicate persistent infection. *Nature Communications*, **2019**, 10, 4215	17.4	19
134	Early Detection of Emergent Extensively Drug-Resistant Tuberculosis by Flow Cytometry-Based Phenotyping and Whole-Genome Sequencing. *Antimicrobial Agents and Chemotherapy*, **2019**, 63,	5.9	10
133	Infect and Inject: How Exploits Its Major Virulence-Associated Type VII Secretion System, ESX-1. *Microbiology Spectrum*, **2019**, 7,	8.9	20
132	Exacting Edward Jenner revenge: The quest for a new tuberculosis vaccine. *Science Translational Medicine*, **2019**, 11,	17.5	2
131	Immunization of V2V2 T cells programs sustained effector memory responses that control tuberculosis in nonhuman primates. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 6371-6378	11.5	42
130	The Isoniazid Paradigm of Killing, Resistance, and Persistence in Mycobacterium tuberculosis. *Journal of Molecular Biology*, **2019**, 431, 3450-3461	6.5	47
129	The capsule: a cell structure with key implications in pathogenesis. *Biochemical Journal*, **2019**, 476, 1995-2016	3.8	27
128	Generation of IL-3-Secreting CD4 T Cells by Microbial Challenge at Skin and Mucosal Barriers. *ImmunoHorizons*, **2019**, 3, 161-171	2.7	3
127	2165. Helicobacter pylori Infections in the Bronx, New York: Whole-Genome Sequencing for Rapid Genotypic Susceptibility Testing. *Open Forum Infectious Diseases*, **2019**, 6, S734-S735	1	0
126	Small Molecules Targeting Mycobacterium tuberculosis Type II NADH Dehydrogenase Exhibit Antimycobacterial Activity. *Angewandte Chemie*, **2018**, 130, 3536-3540	3.6	5
125	Plasticity of NADH dehydrogenases and their role in virulence. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1599-1604	11.5	31
124	Small Molecules Targeting Mycobacterium tuberculosis Type II NADH Dehydrogenase Exhibit Antimycobacterial Activity. *Angewandte Chemie - International Edition*, **2018**, 57, 3478-3482	16.4	28
123	Vitamin C Potentiates the Killing of Mycobacterium tuberculosis by the First-Line Tuberculosis Drugs Isoniazid and Rifampin in Mice. *Antimicrobial Agents and Chemotherapy*, **2018**, 62,	5.9	22
122	Arginine-deprivation-induced oxidative damage sterilizes. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9779-9784	11.5	41
121	Identification of Mycobacterial Ribosomal Proteins as Targets for CD4 T Cells That Enhance Protective Immunity in Tuberculosis. *Infection and Immunity*, **2018**, 86,	3.7	3
120	A Herpes Simplex Virus (HSV)-2 Single-Cycle Candidate Vaccine Deleted in Glycoprotein D Protects Male Mice From Lethal Skin Challenge With Clinical Isolates of HSV-1 and HSV-2. *Journal of Infectious Diseases*, **2018**, 217, 754-758	7	24
119	A Nonribosomal Peptide Synthase Gene Driving Virulence in Mycobacterium tuberculosis. *MSphere*, **2018**, 3,	5	13

118	Suppression of Th1 Priming by TLR2 Agonists during Cutaneous Immunization Is Mediated by Recruited CCR2 Monocytes. *Journal of Immunology*, **2018**, 201, 3604-3616	5.3	5
117	Reply to Yew et al., "Vitamin C and Mycobacterium tuberculosis Persisters". *Antimicrobial Agents and Chemotherapy*, **2018**, 62,	5.9	
116	Rational Design of Biosafety Level 2-Approved, Multidrug-Resistant Strains of Mycobacterium tuberculosis through Nutrient Auxotrophy. *MBio*, **2018**, 9,	7.8	16
115	Identification of Mycobacterial RplJ/L10 and RpsA/S1 Proteins as Novel Targets for CD4 T Cells. *Infection and Immunity*, **2017**, 85,	3.7	10
114	Enhanced respiration prevents drug tolerance and drug resistance in. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 4495-4500	11.5	93
113	Adoptive Transfer of Phosphoantigen-Specific T Cell Subset Attenuates Infection in Nonhuman Primates. *Journal of Immunology*, **2017**, 198, 4753-4763	5.3	54
112	Defining a temporal order of genetic requirements for development of mycobacterial biofilms. *Molecular Microbiology*, **2017**, 105, 794-809	4.1	23
111	Rifamycin action on RNA polymerase in antibiotic-tolerant results in differentially detectable populations. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E4832-E4840	11.5	35
110	Investigation of the mycobacterial enzyme HsaD as a potential novel target for anti-tubercular agents using a fragment-based drug design approach. *British Journal of Pharmacology*, **2017**, 174, 2209-2224	8.6	13
109	Origins of Combination Therapy for Tuberculosis: Lessons for Future Antimicrobial Development and Application. *MBio*, **2017**, 8,	7.8	75
108	Addressing the Metabolic Stability of Antitubercular through Machine Learning. *ACS Medicinal Chemistry Letters*, **2017**, 8, 1099-1104	4.3	11
107	Determinants of the Inhibition of DprE1 and CYP2C9 by Antitubercular Thiophenes. *Angewandte Chemie - International Edition*, **2017**, 56, 13011-13015	16.4	24
106	Transcriptome Analysis of Mycobacteria-Specific CD4 T Cells Identified by Activation-Induced Expression of CD154. *Journal of Immunology*, **2017**, 199, 2596-2606	5.3	6
105	An inclusive Research Education Community (iREC): Impact of the SEA-PHAGES program on research outcomes and student learning. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 13531-13536	11.5	78
104	Balancing Trained Immunity with Persistent Immune Activation and the Risk of Simian Immunodeficiency Virus Infection in Infant Macaques Vaccinated with Attenuated Mycobacterium tuberculosis or Mycobacterium bovis BCG Vaccine. *Vaccine Journal*, **2017**, 24,		30
103	Establishing Models of Herpes Simplex Virus Type 2 Superinfection of Herpes Simplex Virus Type 1 Seropositive Mice to Test The Efficacy of a Novel Vaccine. *Open Forum Infectious Diseases*, **2017**, 4, S309-S309	3	
102	Gene Deletion in Herpes Simplex Virus Type 2 Enhances Dendritic Cell Function and T Cell Activation. *Frontiers in Immunology*, **2017**, 8, 1523	8.4	13
101	Mycobacterium tuberculosis EsxH inhibits ESCRT-dependent CD4 T-cell activation. *Nature Microbiology*, **2016**, 2, 16232	26.6	45

100	Post-translational Acetylation of MbtA Modulates Mycobacterial Siderophore Biosynthesis. *Journal of Biological Chemistry*, **2016**, 291, 22315-22326	5.4	16
99	Suppression of autophagy and antigen presentation by Mycobacterium tuberculosis PE_PGRS47. *Nature Microbiology*, **2016**, 1, 16133	26.6	96
98	Dual-Reporter Mycobacteriophages (?DRMs) Reveal Preexisting Mycobacterium tuberculosis Persistent Cells in Human Sputum. *MBio*, **2016**, 7,	7.8	44
97	Vaccine-Elicited Mucosal and Systemic Antibody Responses Are Associated with Reduced Simian Immunodeficiency Viremia in Infant Rhesus Macaques. *Journal of Virology*, **2016**, 90, 7285-7302	6.6	24
96	Targeting Mycobacterium tuberculosis Tumor Necrosis Factor Alpha-Downregulating Genes for the Development of Antituberculous Vaccines. *MBio*, **2016**, 7,	7.8	26
95	Postprimary Tuberculosis and Macrophage Necrosis: Is There a Big ConNECtion?. *MBio*, **2016**, 7, e01589-15	7.8	11
94	Central Role of Pyruvate Kinase in Carbon Co-catabolism of Mycobacterium tuberculosis. *Journal of Biological Chemistry*, **2016**, 291, 7060-9	5.4	29
93	Separable roles for Mycobacterium tuberculosis ESX-3 effectors in iron acquisition and virulence. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E348-57	11.5	105
92	Interleukin-17A as a Biomarker for Bovine Tuberculosis. *Vaccine Journal*, **2016**, 23, 168-80		30
91	Synthesis and biological activity of alkynoic acids derivatives against mycobacteria. *Chemistry and Physics of Lipids*, **2016**, 194, 125-38	3.7	3
90	HSV-2 gD elicits FcR-effector antibodies that protect against clinical isolates. *JCI Insight*, **2016**, 1,	9.9	39
89	Metabolic Network for the Biosynthesis of Intra- and Extracellular Glucans Required for Virulence of Mycobacterium tuberculosis. *PLoS Pathogens*, **2016**, 12, e1005768	7.6	35
88	Trehalose-6-Phosphate-Mediated Toxicity Determines Essentiality of OtsB2 in Mycobacterium tuberculosis In Vitro and in Mice. *PLoS Pathogens*, **2016**, 12, e1006043	7.6	26
87	Increased TNF-?IFN-?IL-2 and Decreased TNF-?IFN-?Production by Central Memory T Cells Are Associated with Protective Responses against Bovine Tuberculosis Following BCG Vaccination. *Frontiers in Immunology*, **2016**, 7, 421	8.4	29
86	Deletion of a dehydratase important for intracellular growth and cording renders rough Mycobacterium abscessus avirulent. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4228-37	11.5	47
85	The Type of Growth Medium Affects the Presence of a Mycobacterial Capsule and Is Associated With Differences in Protective Efficacy of BCG Vaccination Against Mycobacterium tuberculosis. *Journal of Infectious Diseases*, **2016**, 214, 426-37	7	22
84	CD4+ T-cell-independent mechanisms suppress reactivation of latent tuberculosis in a macaque model of HIV coinfection. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E5636-44	11.5	84
83	Fluorescent Reporter DS6A Mycobacteriophages Reveal Unique Variations in Infectibility and Phage Production in Mycobacteria. *Journal of Bacteriology*, **2016**, 198, 3220-3232	3.5	18

82	Evolution of a thienopyrimidine antitubercular relying on medicinal chemistry and metabolomics insights. *Tetrahedron Letters*, **2015**, 56, 3246-3250	2	19
81	Stable Expression of Lentiviral Antigens by Quality-Controlled Recombinant Mycobacterium bovis BCG Vectors. *Vaccine Journal*, **2015**, 22, 726-41		14
80	Whole genome comparison of a large collection of mycobacteriophages reveals a continuum of phage genetic diversity. *ELife*, **2015**, 4, e06416	8.9	171
79	A Novel Reporter Phage To Detect Tuberculosis and Rifampin Resistance in a High-HIV-Burden Population. *Journal of Clinical Microbiology*, **2015**, 53, 2188-94	9.7	19
78	Auranofin exerts broad-spectrum bactericidal activities by targeting thiol-redox homeostasis. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 4453-8	11.5	190
77	Aging-related anatomical and biochemical changes in lymphatic collectors impair lymph transport, fluid homeostasis, and pathogen clearance. *Aging Cell*, **2015**, 14, 582-94	9.9	74
76	Structural characterization of muropeptides from Chlamydia trachomatis peptidoglycan by mass spectrometry resolves "chlamydial anomaly". *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11660-5	11.5	44
75	Essential roles of methionine and S-adenosylmethionine in the autarkic lifestyle of Mycobacterium tuberculosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10008-13	11.5	83
74	The Complete Genome Sequence of the Emerging Pathogen Mycobacterium haemophilum Explains Its Unique Culture Requirements. *MBio*, **2015**, 6, e01313-15	7.8	22
73	Herpes simplex type 2 virus deleted in glycoprotein D protects against vaginal, skin and neural disease. *ELife*, **2015**, 4,	8.9	79
72	Genetic dissection of mycobacterial biofilms. *Methods in Molecular Biology*, **2015**, 1285, 215-26	1.4	14
71	Measurements of the in vitro anti-mycobacterial activity of ivermectin are method-dependent. *Journal of Antimicrobial Chemotherapy*, **2014**, 69, 1723-4	5.1	4
70	Noncanonical SMC protein in Mycobacterium smegmatis restricts maintenance of Mycobacterium fortuitum plasmids. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13264-71	11.5	27
69	ESX1-dependent fractalkine mediates chemotaxis and Mycobacterium tuberculosis infection in humans. *Tuberculosis*, **2014**, 94, 262-70	2.6	7
68	Gene Transfer in Mycobacterium tuberculosis: Shuttle Phasmids to Enlightenment. *Microbiology Spectrum*, **2014**, 2,	8.9	10
67	Resistance to Isoniazid and Ethionamide in Mycobacterium tuberculosis: Genes, Mutations, and Causalities. *Microbiology Spectrum*, **2014**, 2, MGM2-0014-2013	8.9	145
66	Improving Mycobacterium bovis bacillus Calmette-Guﬁn as a vaccine delivery vector for viral antigens by incorporation of glycolipid activators of NKT cells. *PLoS ONE*, **2014**, 9, e108383	3.7	21
65	Recombinant Mycobacterium bovis bacillus Calmette-Guﬁn vectors prime for strong cellular responses to simian immunodeficiency virus gag in rhesus macaques. *Vaccine Journal*, **2014**, 21, 1385-95		10

64	Succinate dehydrogenase is the regulator of respiration in Mycobacterium tuberculosis. *PLoS Pathogens*, **2014**, 10, e1004510	7.6	61
63	Phosphorylation of KasB regulates virulence and acid-fastness in Mycobacterium tuberculosis. *PLoS Pathogens*, **2014**, 10, e1004115	7.6	51
62	Genomics and proteomics of mycobacteriophage patience, an accidental tourist in the Mycobacterium neighborhood. *MBio*, **2014**, 5, e02145	7.8	32
61	Specialized transduction designed for precise high-throughput unmarked deletions in Mycobacterium tuberculosis. *MBio*, **2014**, 5, e01245-14	7.8	83
60	Essentiality of succinate dehydrogenase in Mycobacterium smegmatis and its role in the generation of the membrane potential under hypoxia. *MBio*, **2014**, 5,	7.8	46
59	A Mycobacterium tuberculosis cytochrome bd oxidase mutant is hypersensitive to bedaquiline. *MBio*, **2014**, 5, e01275-14	7.8	56
58	An obligately aerobic soil bacterium activates fermentative hydrogen production to survive reductive stress during hypoxia. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11479-84	11.5	74
57	Vaccine-induced Intestinal and Salivary IgA Correlates with Reduced Viremia in Orally-challenged Neonatal Macaques. *AIDS Research and Human Retroviruses*, **2014**, 30, A242-A243	1.6	
56	Herpes simplex virus type 2 glycoprotein H interacts with integrin □□3 to facilitate viral entry and calcium signaling in human genital tract epithelial cells. *Journal of Virology*, **2014**, 88, 10026-38	6.6	42
55	Measurements of the in vitro anti-mycobacterial activity of ivermectin are method-dependent--authorsQresponse. *Journal of Antimicrobial Chemotherapy*, **2014**, 69, 1725-6	5.1	
54	Gene deletions in Mycobacterium bovis BCG stimulate increased CD8+ T cell responses. *Infection and Immunity*, **2014**, 82, 5317-26	3.7	12
53	Reduced virulence of an extensively drug-resistant outbreak strain of Mycobacterium tuberculosis in a murine model. *PLoS ONE*, **2014**, 9, e94953	3.7	16
52	A neonatal oral -SIV prime / intramuscular MVA-SIV boost combination vaccine induces both SIV and -specific immune responses in infant macaques. *Trials in Vaccinology*, **2013**, 2, 53-63		18
51	In vitro culture medium influences the vaccine efficacy of Mycobacterium bovis BCG. *Vaccine*, **2012**, 30, 1038-49	4.1	34
50	(2)GFP10, a high-intensity fluorophage, enables detection and rapid drug susceptibility testing of Mycobacterium tuberculosis directly from sputum samples. *Journal of Clinical Microbiology*, **2012**, 50, 1362-9	9.7	58
49	Alteration of Metabolic Program by whiB6 Enhances Tuberculosis Persistence. *FASEB Journal*, **2012**, 26, 222.3	0.9	
48	A recombinant Mycobacterium smegmatis induces potent bactericidal immunity against Mycobacterium tuberculosis. *Nature Medicine*, **2011**, 17, 1261-8	50.5	154
47	Reporter phage and breath tests: emerging phenotypic assays for diagnosing active tuberculosis, antibiotic resistance, and treatment efficacy. *Journal of Infectious Diseases*, **2011**, 204 Suppl 4, S1142-50	7	24

46	Defects in glycopeptidolipid biosynthesis confer phage I3 resistance in Mycobacterium smegmatis. *Microbiology (United Kingdom)*, **2009**, 155, 4050-4057	2.9	25
45	Identification of Mycobacterium tuberculosis Counterimmune (cim) Mutants in Immunodeficient Mice by Differential Screening. *Infection and Immunity*, **2009**, 77, 927-927	3.7	78
44	Genome analysis of multi- and extensively-drug-resistant tuberculosis from KwaZulu-Natal, South Africa. *PLoS ONE*, **2009**, 4, e7778	3.7	126
43	Fluoromycobacteriophages for rapid, specific, and sensitive antibiotic susceptibility testing of Mycobacterium tuberculosis. *PLoS ONE*, **2009**, 4, e4870	3.7	76
42	Mycothiol biosynthesis is essential for ethionamide susceptibility in Mycobacterium tuberculosis. *Molecular Microbiology*, **2008**, 69, 1316-29	4.1	132
41	Analyses of Mycobacterium tuberculosis proteins. *Current Protocols in Microbiology*, **2007**, Chapter 10, Unit 10A.4	7.1	1
40	Genetic Manipulation of Mycobacterium tuberculosis. *Current Protocols in Microbiology*, **2007**, Chapter 10, Unit 10A.2	7.1	99
39	Laboratory maintenance of Mycobacterium tuberculosis. *Current Protocols in Microbiology*, **2007**, Chapter 10, Unit 10A.1	7.1	28
38	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, 5157-62	11.5	153
37	Two polyketide-synthase-associated acyltransferases are required for sulfolipid biosynthesis in Mycobacterium tuberculosis. *Microbiology (United Kingdom)*, **2007**, 153, 513-520	2.9	43
36	Isolation and analysis of Mycobacterium tuberculosis mycolic acids. *Current Protocols in Microbiology*, **2007**, Chapter 10, Unit 10A.3	7.1	14
35	Induction of high levels of protective immunity in mice after vaccination using dendritic cells infected with auxotrophic mutants of Mycobacterium tuberculosis. *Immunology Letters*, **2006**, 103, 196-9	4.1	3
34	Protection elicited by two glutamine auxotrophs of Mycobacterium tuberculosis and in vivo growth phenotypes of the four unique glutamine synthetase mutants in a murine model. *Infection and Immunity*, **2006**, 74, 6491-5	3.7	26
33	Mycobacterium tuberculosis DeltaRD1 DeltapanCD: a safe and limited replicating mutant strain that protects immunocompetent and immunocompromised mice against experimental tuberculosis. *Vaccine*, **2006**, 24, 6309-20	4.1	149
32	Trans-cyclopropanation of mycolic acids on trehalose dimycolate suppresses Mycobacterium tuberculosis -induced inflammation and virulence. *Journal of Clinical Investigation*, **2006**, 116, 1660-7	15.9	155
31	The Mycobacterium tuberculosis iniA gene is essential for activity of an efflux pump that confers drug tolerance to both isoniazid and ethambutol. *Molecular Microbiology*, **2005**, 55, 1829-40	4.1	133
30	Characterization of Mycobacterium smegmatis expressing the Mycobacterium tuberculosis fatty acid synthase I (fas1) gene. *Journal of Bacteriology*, **2004**, 186, 4051-5	3.5	59
29	Protection elicited by a double leucine and pantothenate auxotroph of Mycobacterium tuberculosis in guinea pigs. *Infection and Immunity*, **2004**, 72, 3031-7	3.7	103

28	Efficient allelic exchange and transposon mutagenesis in Mycobacterium avium by specialized transduction. *Applied and Environmental Microbiology*, **2003**, 69, 5039-44	4.8	18
27	Detection and drug-susceptibility testing of M. tuberculosis from sputum samples using luciferase reporter phage: comparison with the Mycobacteria Growth Indicator Tube (MGIT) system. *Diagnostic Microbiology and Infectious Disease*, **2003**, 45, 53-61	2.9	49
26	The primary mechanism of attenuation of bacillus Calmette-Guerin is a loss of secreted lytic function required for invasion of lung interstitial tissue. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 12420-5	11.5	555
25	Rapid identification and susceptibility testing of Mycobacterium tuberculosis from MGIT cultures with luciferase reporter mycobacteriophages. *Journal of Medical Microbiology*, **2003**, 52, 557-561	3.2	47
24	A pantothenate auxotroph of Mycobacterium tuberculosis is highly attenuated and protects mice against tuberculosis. *Nature Medicine*, **2002**, 8, 1171-4	50.5	290
23	Characterization of a Mycobacterium tuberculosis H37Rv transposon library reveals insertions in 351 ORFs and mutants with altered virulence. *Microbiology (United Kingdom)*, **2002**, 148, 2975-2986	2.9	117
22	Genetic methods for deciphering virulence determinants of Mycobacterium tuberculosis. *Methods in Enzymology*, **2002**, 358, 67-99	1.7	55
21	Specialized transduction: an efficient method for generating marked and unmarked targeted gene disruptions in Mycobacterium tuberculosis, M. bovis BCG and M. smegmatis. *Microbiology (United Kingdom)*, **2002**, 148, 3007-3017	2.9	458
20	Crystal structures of mycolic acid cyclopropane synthases from Mycobacterium tuberculosis. *Journal of Biological Chemistry*, **2002**, 277, 11559-69	5.4	137
19	Infection of mice with aerosolized Mycobacterium tuberculosis: use of a nose-only apparatus for delivery of low doses of inocula and design of an ultrasafe facility. *Applied and Environmental Microbiology*, **2002**, 68, 4646-9	4.8	8
18	Sterilization of Mycobacterium tuberculosis Erdman samples by antimicrobial fixation in a biosafety level 3 laboratory. *Journal of Clinical Microbiology*, **2001**, 39, 769-71	9.7	20
17	The Mycobacterium tuberculosis cmaA2 gene encodes a mycolic acid trans-cyclopropane synthetase. *Journal of Biological Chemistry*, **2001**, 276, 2228-33	5.4	108
16	Evidence that mycobacterial PE_PGRS proteins are cell surface constituents that influence interactions with other cells. *Infection and Immunity*, **2001**, 69, 7326-33	3.7	214
15	Microbial pathogenesis of Mycobacterium tuberculosis: dawn of a discipline. *Cell*, **2001**, 104, 477-85	56.2	221
14	Transposon mutagenesis in mycobacteria using conditionally replicating mycobacteriophages. *Methods in Molecular Medicine*, **2001**, 54, 43-57		4
13	Pyrazinamide inhibits the eukaryotic-like fatty acid synthetase I (FASI) of Mycobacterium tuberculosis. *Nature Medicine*, **2000**, 6, 1043-7	50.5	204
12	Persistence of Mycobacterium tuberculosis in macrophages and mice requires the glyoxylate shunt enzyme isocitrate lyase. *Nature*, **2000**, 406, 735-8	50.4	1091
11	Attenuation of and protection induced by a leucine auxotroph of Mycobacterium tuberculosis. *Infection and Immunity*, **2000**, 68, 2888-98	3.7	229

10	A novel mycolic acid cyclopropane synthetase is required for cording, persistence, and virulence of Mycobacterium tuberculosis. *Molecular Cell*, **2000**, 5, 717-27	17.6	540
9	Inactivation of the inhA-encoded fatty acid synthase II (FASII) enoyl-acyl carrier protein reductase induces accumulation of the FASI end products and cell lysis of Mycobacterium smegmatis. *Journal of Bacteriology*, **2000**, 182, 4059-67	3.5	212
8	Complex lipid determines tissue-specific replication of Mycobacterium tuberculosis in mice. *Nature*, **1999**, 402, 79-83	50.4	625
7	The mabA gene from the inhA operon of Mycobacterium tuberculosis encodes a 3-ketoacyl reductase that fails to confer isoniazid resistance. *Microbiology (United Kingdom)*, **1998**, 144 (Pt 10), 2697-2704	2.9	66
6	The emb operon, a gene cluster of Mycobacterium tuberculosis involved in resistance to ethambutol. *Nature Medicine*, **1997**, 3, 567-70	50.5	352
5	Auxotrophic vaccines for tuberculosis. *Nature Medicine*, **1996**, 2, 334-7	50.5	151
4	The immunogenicity of recombinant Mycobacterium smegmatis bearing BCG genes. *Microbiology (United Kingdom)*, **1995**, 141 (Pt 5), 1239-1245	2.9	16
3	Leprosy vaccine. *Nature*, **1994**, 368, 579	50.4	3
2	Introduction of foreign DNA into mycobacteria using a shuttle phasmid. *Nature*, **1987**, 327, 532-5	50.4	278
1	Molecular Genetic Strategies for Identifying Virulence Determinants of Mycobacterium tuberculosis	253-268	10