Valerie Mizrahi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9491278/publications.pdf

Version: 2024-02-01

121 papers	5,305 citations	76196 40 h-index	95083 68 g-index
136 all docs	136 docs citations	136 times ranked	5691 citing authors

#	Article	IF	Citations
1	DnaE2 Polymerase Contributes to In Vivo Survival and the Emergence of Drug Resistance in Mycobacterium tuberculosis. Cell, 2003, 113, 183-193.	13.5	383
2	The role of RelMtb-mediated adaptation to stationary phase in long-term persistence of Mycobacterium tuberculosis in mice. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10026-10031.	3.3	310
3	The Stringent Response of Mycobacterium tuberculosis Is Required for Long-Term Survival. Journal of Bacteriology, 2000, 182, 4889-4898.	1.0	306
4	The resuscitationâ€promoting factors of <i>Mycobacterium tuberculosis</i> are required for virulence and resuscitation from dormancy but are collectively dispensable for growth <i>in vitro</i>. Molecular Microbiology, 2008, 67, 672-684.	1.2	245
5	Identification of New Drug Targets and Resistance Mechanisms in Mycobacterium tuberculosis. PLoS ONE, 2013, 8, e75245.	1.1	223
6	Variation among Genome Sequences of H37Rv Strains of <i>Mycobacterium tuberculosis</i> from Multiple Laboratories. Journal of Bacteriology, 2010, 192, 3645-3653.	1.0	216
7	DNA repair inMycobacterium tuberculosis. What have we learnt from the genome sequence?. Molecular Microbiology, 1998, 29, 1331-1339.	1.2	159
8	Resuscitation-promoting factors as lytic enzymes for bacterial growth and signaling. FEMS Immunology and Medical Microbiology, 2010, 58, 39-50.	2.7	140
9	Tuberculosis Chemotherapy: the Influence of Bacillary Stress and Damage Response Pathways on Drug Efficacy. Clinical Microbiology Reviews, 2006, 19, 558-570.	5.7	129
10	Pathway-Selective Sensitization of Mycobacterium tuberculosis for Target-Based Whole-Cell Screening. Chemistry and Biology, 2012, 19, 844-854.	6.2	123
11	Drug-resistant tuberculosis: challenges and opportunities for diagnosis and treatment. Current Opinion in Pharmacology, 2018, 42, 7-15.	1.7	121
12	Respiratory Flexibility in Response to Inhibition of Cytochrome <i>c</i> Oxidase in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2014, 58, 6962-6965.	1.4	116
13	Essential roles for <i>imuA</i> â€²- and <i>imuB</i> -encoded accessory factors in DnaE2-dependent mutagenesis in <i>Mycobacterium tuberculosis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13093-13098.	3.3	113
14	Mycobacterium tuberculosis. Trends in Microbiology, 2018, 26, 555-556.	3.5	101
15	The impact of drug resistance on <i>Mycobacterium tuberculosis</i> physiology: what can we learn from rifampicin?. Emerging Microbes and Infections, 2014, 3, 1-11.	3.0	100
16	The Complex Mechanism of Antimycobacterial Action of 5-Fluorouracil. Chemistry and Biology, 2015, 22, 63-75.	6.2	90
17	The Inosine Monophosphate Dehydrogenase, GuaB2, Is a Vulnerable New Bactericidal Drug Target for Tuberculosis. ACS Infectious Diseases, 2017, 3, 5-17.	1.8	83
18	Construction and Phenotypic Characterization of an Auxotrophic Mutant of Mycobacterium tuberculosis Defective in l -Arginine Biosynthesis. Infection and Immunity, 2002, 70, 3080-3084.	1.0	81

#	Article	IF	Citations
19	VapC Toxins from Mycobacterium tuberculosis Are Ribonucleases that Differentially Inhibit Growth and Are Neutralized by Cognate VapB Antitoxins. PLoS ONE, 2011, 6, e21738.	1.1	78
20	Essential but Not Vulnerable: Indazole Sulfonamides Targeting Inosine Monophosphate Dehydrogenase as Potential Leads against <i>Mycobacterium tuberculosis</i>. ACS Infectious Diseases, 2017, 3, 18-33.	1.8	77
21	Production of mutants in amino acid biosynthesis genes of Mycobacterium tuberculosis by homologous recombination. Microbiology (United Kingdom), 1999, 145, 3497-3503.	0.7	77
22	Ribonucleotide Reduction in Mycobacterium tuberculosis : Function and Expression of Genes Encoding Class Ib and Class II Ribonucleotide Reductases. Infection and Immunity, 2003, 71, 6124-6131.	1.0	65
23	Diversity and disease pathogenesis in Mycobacterium tuberculosis. Trends in Microbiology, 2015, 23, 14-21.	3.5	64
24	Validation of CoaBC as a Bactericidal Target in the Coenzyme A Pathway of <i>Mycobacterium tuberculosis</i>. ACS Infectious Diseases, 2016, 2, 958-968.	1.8	62
25	Role of the DinB Homologs Rv1537 and Rv3056 in <i>Mycobacterium tuberculosis</i>. Journal of Bacteriology, 2010, 192, 2220-2227.	1.0	61
26	Identification and validation of novel drug targets in Mycobacterium tuberculosis. Drug Discovery Today, 2017, 22, 503-509.	3.2	59
27	Vitamin B₁₂ metabolism in <i>Mycobacterium tuberculosis</i>. Future Microbiology, 2013, 8, 1405-1418.	1.0	58
28	Detection of Mycobacterium tuberculosis bacilli in bio-aerosols from untreated TB patients. Gates Open Research, 2017, 1, 11.	2.0	58
29	Shortening Treatment for Tuberculosis â€” Back to Basics. New England Journal of Medicine, 2014, 371, 1642-1643.	13.9	57
30	Synthesis and biological evaluation of 2-aminothiazole derivatives as antimycobacterial and antiplasmodial agents. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 560-564.	1.0	56
31	Detection of Mycobacterium tuberculosis bacilli in bio-aerosols from untreated TB patients. Gates Open Research, 2017, 1, 11.	2.0	54
32	Fragment-Based Approach to Targeting Inosine-5â€²-monophosphate Dehydrogenase (IMPDH) from <i>Mycobacterium tuberculosis</i>. Journal of Medicinal Chemistry, 2018, 61, 2806-2822.	2.9	51
33	Translational Research for Tuberculosis Elimination: Priorities, Challenges, and Actions. PLoS Medicine, 2016, 13, e1001965.	3.9	50
34	Arrayed CRISPRi and quantitative imaging describe the morphotypic landscape of essential mycobacterial genes. ELife, 2020, 9, .	2.8	50
35	Susceptibility of Mycobacterium tuberculosis Cytochrome <i>bd</i> Oxidase Mutants to Compounds Targeting the Terminal Respiratory Oxidase, Cytochrome <i>c</i>. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	49
36	2-Mercapto-Quinazolinones as Inhibitors of Type II NADH Dehydrogenase and <i>Mycobacterium tuberculosis</i>: Structureâ€"Activity Relationships, Mechanism of Action and Absorption, Distribution, Metabolism, and Excretion Characterization. ACS Infectious Diseases, 2018, 4, 954-969.	1.8	49

#	Article	IF	Citations
37	Function and Regulation of Class I Ribonucleotide Reductase-Encoding Genes in Mycobacteria. Journal of Bacteriology, 2009, 191, 985-995.	1.0	48
38	Functional Analysis of Molybdopterin Biosynthesis in Mycobacteria Identifies a Fused Molybdopterin Synthase in <i>Mycobacterium tuberculosis</i>. Journal of Bacteriology, 2011, 193, 98-106.	1.0	48
39	Expression of Mycobacterium smegmatis Pyrazinamidase in Mycobacterium tuberculosis Confers Hypersensitivity to Pyrazinamide and Related Amides. Journal of Bacteriology, 2000, 182, 5479-5485.	1.0	47
40	Transmission of drug-resistant tuberculosis in HIV-endemic settings. Lancet Infectious Diseases, The, 2019, 19, e77-e88.	4.6	47
41	SOS induction in mycobacteria: analysis of the DNAâ€binding activity of a LexAâ€like repressor and its role in DNA damage induction of the recA gene from Mycobacterium smegmatis. Molecular Microbiology, 1997, 26, 643-653.	1.2	46
42	Molybdenum cofactor: A key component ofMycobacterium tuberculosispathogenesis?. Critical Reviews in Microbiology, 2014, 40, 18-29.	2.7	45
43	Targeting DNA Replication and Repair for the Development of Novel Therapeutics against Tuberculosis. Frontiers in Molecular Biosciences, 2017, 4, 75.	1.6	42
44	Priming the tuberculosis drug pipeline: new antimycobacterial targets and agents. Current Opinion in Microbiology, 2018, 45, 39-46.	2.3	40
45	Real-Time Investigation of Tuberculosis Transmission: Developing the Respiratory Aerosol Sampling Chamber (RASC). PLoS ONE, 2016, 11, e0146658.	1.1	40
46	Bioluminescent Reporters for Rapid Mechanism of Action Assessment in Tuberculosis Drug Discovery. Antimicrobial Agents and Chemotherapy, 2016, 60, 6748-6757.	1.4	38
47	A High-Throughput Screen against Pantothenate Synthetase (PanC) Identifies 3-Biphenyl-4-Cyanopyrrole-2-Carboxylic Acids as a New Class of Inhibitor with Activity against Mycobacterium tuberculosis. PLoS ONE, 2013, 8, e72786.	1.1	35
48	Detection and treatment of subclinical tuberculosis. Tuberculosis, 2012, 92, 447-452.	0.8	33
49	The application of tetracyclineregulated gene expression systems in the validation of novel drug targets in Mycobacterium tuberculosis. Frontiers in Microbiology, 2015, 6, 812.	1.5	33
50	Expanding Benzoxazole-Based Inosine 5â€²-Monophosphate Dehydrogenase (IMPDH) Inhibitor Structureâ€"Activity As Potential Antituberculosis Agents. Journal of Medicinal Chemistry, 2018, 61, 4739-4756.	2.9	33
51	The Tuberculosis Drug Accelerator at year 10: what have we learned?. Nature Medicine, 2021, 27, 1333-1337.	15.2	32
52	Nucleotide Metabolism and DNA Replication. Microbiology Spectrum, 2014, 2, .	1.2	31
53	Capture and visualization of live Mycobacterium tuberculosis bacilli from tuberculosis patient bioaerosols. PLoS Pathogens, 2021, 17, e1009262.	2.1	30
54	Foam Cells Control Mycobacterium tuberculosis Infection. Frontiers in Microbiology, 2020, 11, 1394.	1.5	28

#	Article	IF	Citations
55	The Influence of HIV on the Evolution of Mycobacterium tuberculosis. Molecular Biology and Evolution, 2017, 34, 1654-1668.	3.5	27
56	Predictive modeling targets thymidylate synthase ThyX in Mycobacterium tuberculosis. Scientific Reports, 2016, 6, 27792.	1.6	25
57	Synthesis and Structureâ€"Activity relationship of 1-(5-isoquinolinesulfonyl)piperazine analogues as inhibitorsÂofÂMycobacterium tuberculosis IMPDH. European Journal of Medicinal Chemistry, 2019, 174, 309-329.	2.6	25
58	Novel Antitubercular 6-Dialkylaminopyrimidine Carboxamides from Phenotypic Whole-Cell High Throughput Screening of a SoftFocus Library: Structureâ€"Activity Relationship and Target Identification Studies. Journal of Medicinal Chemistry, 2017, 60, 10118-10134.	2.9	22
59	Identification of aminopyrimidineâ€sulfonamides as potent modulators of Wag31â€mediated cell elongation in mycobacteria. Molecular Microbiology, 2017, 103, 13-25.	1.2	22
60	In Vitro Analysis of Rates and Spectra of Mutations in a Polymorphic Region of the Rv0746 PE_PGRS Gene of Mycobacterium tuberculosis. Journal of Bacteriology, 2007, 189, 2190-2195.	1.0	21
61	<i>N</i> -Acetylglucosamine-1-Phosphate Transferase, WecA, as a Validated Drug Target in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	20
62	Reaction intermediate analogues as bisubstrate inhibitors of pantothenate synthetase. Bioorganic and Medicinal Chemistry, 2014, 22, 1726-1735.	1.4	19
63	DNA Metabolism in Mycobacterial Pathogenesis. Current Topics in Microbiology and Immunology, 2013, 374, 27-51.	0.7	18
64	<i>bis</i> -Molybdopterin Guanine Dinucleotide Is Required for Persistence of Mycobacterium tuberculosis in Guinea Pigs. Infection and Immunity, 2015, 83, 544-550.	1.0	18
65	Setting Our Sights on Infectious Diseases. ACS Infectious Diseases, 2020, 6, 3-13.	1.8	17
66	COVID-19 research in Africa. Science, 2020, 368, 919-919.	6.0	16
67	Developing Synergistic Drug Combinations To Restore Antibiotic Sensitivity in Drug-Resistant Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2021, 65, .	1.4	16
68	The Coming of Age of Drug-Susceptibility Testing for Tuberculosis. New England Journal of Medicine, 2018, 379, 1474-1475.	13.9	15
69	Harnessing Biological Insight to Accelerate Tuberculosis Drug Discovery. Accounts of Chemical Research, 2019, 52, 2340-2348.	7.6	15
70	A derivative of Mycobacterium smegmatis mc2155 that lacks the duplicated chromosomal region. Tuberculosis, 2006, 86, 438-444.	0.8	14
71	Death of <i>Mycobacterium tuberculosis</i> by <scp>l</scp> -arginine starvation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9658-9660.	3.3	12
72	DNA Replication Fidelity in the Mycobacterium tuberculosis Complex. Advances in Experimental Medicine and Biology, 2017, 1019, 247-262.	0.8	11

#	Article	IF	Citations
73	Flow cytometry method for absolute counting and single-cell phenotyping of mycobacteria. Scientific Reports, 2021, 11, 18661.	1.6	11
74	DNA-Dependent Binding of Nargenicin to DnaE1 Inhibits Replication in <i>Mycobacterium tuberculosis</i>. ACS Infectious Diseases, 2022, 8, 612-625.	1.8	11
75	Cytokines and Chemokines inMycobacterium tuberculosisInfection. , 2017, , 33-72.		10
76	6,11-Dioxobenzo[<i>f</i>]pyrido[1,2-<i>a</i>]indoles Kill <i>Mycobacterium tuberculosis</i> by Targeting Ironâ€“Sulfur Protein Rv0338c (IspQ), A Putative Redox Sensor. ACS Infectious Diseases, 2020, 6, 3015-3025.	1.8	9
77	Inhibiting Mycobacterium tuberculosis CoaBC by targeting an allosteric site. Nature Communications, 2021, 12, 143.	5.8	8
78	Cleavage of the moaX-encoded fused molybdopterin synthase from Mycobacterium tuberculosis is necessary for activity. BMC Microbiology, 2015, 15, 22.	1.3	7
79	Human Immunology of Tuberculosis. , 2017, , 213-237.		6
80	Targeting Phenotypically Tolerant<i>Mycobacterium tuberculosis</i>. , 0, , 317-360.		6
81	Biological Profiling Enables Rapid Mechanistic Classification of Phenotypic Screening Hits and Identification of KatG Activation-Dependent Pyridine Carboxamide Prodrugs With Activity Against Mycobacterium tuberculosis. Frontiers in Cellular and Infection Microbiology, 2020, 10, 582416.	1.8	6
82	Renewing the Fight Against TB with an Old Vaccine. Cell, 2020, 180, 829-831.	13.5	6
83	<i>De Novo</i> Cobalamin Biosynthesis, Transport, and Assimilation and Cobalamin-Mediated Regulation of Methionine Biosynthesis in Mycobacterium smegmatis. Journal of Bacteriology, 2021, 203, .	1.0	5
84	Shortening the Short Course of Tuberculosis Treatment. New England Journal of Medicine, 2021, 384, 1764-1765.	13.9	5
85	Serial measurement of M. tuberculosis in blood from critically-ill patients with HIV-associated tuberculosis. EBioMedicine, 2022, 78, 103949.	2.7	5
86	Oxidative Phosphorylation as a Target Space for Tuberculosis: Success, Caution, and Future Directions. , 0, , 295-316.		4
87	Mouse and Guinea Pig Models of Tuberculosis. , 2017, , 143-162.		4
88	Expanding the anti-TB arsenal. Science, 2019, 363, 457-458.	6.0	4
89	Preclinical Efficacy Testing of New Drug Candidates. , 0, , 269-293.		3
90	Evolution of<i>Mycobacterium tuberculosis</i>: New Insights into Pathogenicity and Drug Resistance. , 0, , 495-515.		3

#	Article	IF	Citations
91	The Minimal Unit of Infection:<i>Mycobacterium tuberculosis</i>in the Macrophage. , 0, , 635-652.		3
92	Targeting <i>Mycobacterium tuberculosis</i> CoaBC through Chemical Inhibition of 4â€²-Phosphopantothenoyl-<scp>l</scp>-cysteine Synthetase (CoaB) Activity. ACS Infectious Diseases, 2021, 7, 1666-1679.	1.8	3
93	Tuberculosis Diagnostics: State of the Art and Future Directions. , 0, , 361-378.		2
94	Acid-Fast Positive and Acid-Fast Negative<i>Mycobacterium tuberculosis</i>: The Koch Paradox. , 0, , 517-532.		2
95	Mycobacterial Biofilms: Revisiting Tuberculosis Bacilli in Extracellular Necrotizing Lesions. , 0, , 533-539.		2
96	Metabolic Perspectives on Persistence. , 2017, , 653-669.		2
97	A novel inducible mutagenesis system in Mycobacterium tuberculosis. FASEB Journal, 2012, 26, 222.1.	0.2	2
98	Clinical Testing of Tuberculosis Vaccine Candidates. , 2017, , 193-211.		1
99	The Immune Interaction between HIV-1 Infection andMycobacterium tuberculosis. , 2017, , 239-268.		1
100	Impact of the GeneXpert MTB/RIF Technology on Tuberculosis Control. , 2017, , 389-410.		1
101	Epigenetic Phosphorylation Control of<i>Mycobacterium tuberculosis</i>Infection and Persistence. , 0, , 557-580.		1
102	DNA Replication in Mycobacterium tuberculosis. , 2017, , 581-606.		1
103	The Sec Pathways and Exportomes of Mycobacterium tuberculosis. , 2017, , 607-625.		1
104	The Role of ESX-1 in Mycobacterium tuberculosis Pathogenesis. , 2017, , 627-634.		1
105	Regulation of Immunity to Tuberculosis. , 2017, , 73-93.		1
106	Phenotypic Heterogeneity in<i>Mycobacterium tuberculosis</i>. , 0, , 671-697.		1
107	The Memory Immune Response to Tuberculosis. , 2017, , 95-115.		1
108	Pathology of Tuberculosis: How the Pathology of Human Tuberculosis Informs and Directs Animal Models. , 0, , 117-129.		1

#	Article	IF	Citations
109	The Role of Resuscitation Promoting Factors in the Virulence of Mycobacterium tuberculosis. FASEB Journal, 2007, 21, A207.	0.2	1
110	Nucleotide Metabolism and DNA Replication. , 0, , 633-656.		1
111	Innate Immune Responses to Tuberculosis. , 2017, , 1-31.		0
112	Latent Mycobacterium tuberculosis Infection and Interferon-Gamma Release Assays. , 2017, , 379-388.		0
113	The Role of Host Genetics (and Genomics) in Tuberculosis. , 2017, , 411-452.		0
114	The Evolutionary History, Demography, and Spread of the Mycobacterium tuberculosis Complex. , 2017, , 453-473.		0
115	Impact of Genetic Diversity on the Biology ofMycobacterium tuberculosisComplex Strains. , 2017, , 475-493.		0
116	Killing Mycobacterium tuberculosis In Vitro: What Model Systems Can Teach Us. , 2017, , 541-556.		0
117	Mycobacterium tuberculosisin the Face of Host-Imposed Nutrient Limitation. , 2017, , 699-715.		0
118	Animal Models of Tuberculosis: An Overview. , 2017, , 131-142.		0
119	Non-Human Primate Models of Tuberculosis. , 0, , 163-176.		0
120	Experimental Infection Models of Tuberculosis in Domestic Livestock. , 2017, , 177-191.		0
121	A19â€,The impact of HIV-1 on the evolution of Mycobacterium tuberculosis. Virus Evolution, 2018, 4, .	2.2	0