Laura E Via

List of Publications by Year
in descending order

111 papers	11,015 citations	28274 55 h-index	32842 100 g-index
120 all docs	120 docs citations	120 times ranked	11865 citing authors

#	Article	IF	Citations
1	Host-directed therapy of tuberculosis based on interleukin-1 and type I interferon crosstalk. Nature, 2014, 511, 99-103.	27.8	650
2	Tuberculous Granulomas Are Hypoxic in Guinea Pigs, Rabbits, and Nonhuman Primates. Infection and Immunity, 2008, 76, 2333-2340.	2.2	570
3	Linezolid for Treatment of Chronic Extensively Drug-Resistant Tuberculosis. New England Journal of Medicine, 2012, 367, 1508-1518.	27.0	496
4	Arrest of Mycobacterial Phagosome Maturation Is Caused by a Block in Vesicle Fusion between Stages Controlled by rab5 and rab7. Journal of Biological Chemistry, 1997, 272, 13326-13331.	3.4	487
5	Neutrophils Are the Predominant Infected Phagocytic Cells in the Airways of Patients With Active Pulmonary TB. Chest, 2010, 137, 122-128.	0.8	444
6	The association between sterilizing activity and drug distribution into tuberculosis lesions. Nature Medicine, 2015, 21, 1223-1227.	30.7	387
7	Mycobacterial phagosome maturation, rab proteins, and intracellular trafficking. Electrophoresis, 1997, 18, 2542-2547.	2.4	320
8	Microenvironments in Tuberculous Granulomas Are Delineated by Distinct Populations of Macrophage Subsets and Expression of Nitric Oxide Synthase and Arginase Isoforms. Journal of Immunology, 2013, 191, 773-784.	0.8	292
9	Inflammatory signaling in human tuberculosis granulomas is spatially organized. Nature Medicine, 2016, 22, 531-538.	30.7	273
10	Genomic analysis of globally diverse Mycobacterium tuberculosis strains provides insights into the emergence and spread of multidrug resistance. Nature Genetics, 2017, 49, 395-402.	21.4	258
11	Persisting positron emission tomography lesion activity and Mycobacterium tuberculosis mRNA after tuberculosis cure. Nature Medicine, 2016, 22, 1094-1100.	30.7	247
12	High-Sensitivity MALDI-MRM-MS Imaging of Moxifloxacin Distribution in Tuberculosis-Infected Rabbit Lungs and Granulomatous Lesions. Analytical Chemistry, 2011, 83, 2112-2118.	6.5	235
13	Uptake of unnatural trehalose analogs as a reporter for Mycobacterium tuberculosis. Nature Chemical Biology, 2011, 7, 228-235.	8.0	202
14	Green fluorescent protein as a marker for gene expression and cell biology of mycobacterial interactions with macrophages. Molecular Microbiology, 1995, 17, 901-912.	2.5	194
15	Prevalence of and risk factors for resistance to second-line drugs in people with multidrug-resistant tuberculosis in eight countries: a prospective cohort study. Lancet, The, 2012, 380, 1406-1417.	13.7	193
16	Mycobacterium tuberculosis is a natural mutant with an inactivated oxidative-stress regulatory gene:implications for sensitivity to isoniazid. Molecular Microbiology, 1995, 17, 889-900.	2.5	182
17	Anti-vascular endothelial growth factor treatment normalizes tuberculosis granuloma vasculature and improves small molecule delivery. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1827-1832.	7.1	167
18	Extreme Drug Tolerance of Mycobacterium tuberculosis in Caseum. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	159

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19	Host blood RNA signatures predict the outcome of tuberculosis treatment. Tuberculosis, 2017, 107, 48-58.	1.9	156
20	Pharmacokinetic Evaluation of the Penetration of Antituberculosis Agents in Rabbit Pulmonary Lesions. Antimicrobial Agents and Chemotherapy, 2012, 56, 446-457.	3.2	154
21	Absolute Quantitative MALDI Imaging Mass Spectrometry: A Case of Rifampicin in Liver Tissues. Analytical Chemistry, 2016, 88, 2392-2398.	6.5	145
22	Tuberculosis drugsâ€™ distribution and emergence of resistance in patientâ€™s lung lesions: A mechanistic model and tool for regimen and dose optimization. PLoS Medicine, 2019, 16, e1002773.	8.4	139
23	Effects of cytokines on mycobacterial phagosome maturation. Journal of Cell Science, 1998, 111 (Pt 7), 897-905.	2.0	138
24	Mutations in gidB Confer Low-Level Streptomycin Resistance in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2011, 55, 2515-2522.	3.2	130
25	Extensive Drug Resistance Acquired During Treatment of Multidrug-Resistant Tuberculosis. Clinical Infectious Diseases, 2014, 59, 1049-1063.	5.8	129
26	Evaluation of a Rapid Molecular Drug-Susceptibility Test for Tuberculosis. New England Journal of Medicine, 2017, 377, 1043-1054.	27.0	129
27	PET/CT imaging correlates with treatment outcome in patients with multidrug-resistant tuberculosis. Science Translational Medicine, 2014, 6, 265ra166.	12.4	126
28	High Persister Mutants in Mycobacterium tuberculosis. PLoS ONE, 2016, 11, e0155127.	2.5	123
29	PET/CT imaging reveals a therapeutic response to oxazolidinones in macaques and humans with tuberculosis. Science Translational Medicine, 2014, 6, 265ra167.	12.4	116
30	Sputum culture conversion as a prognostic marker for end-of-treatment outcome in patients with multidrug-resistant tuberculosis: a secondary analysis of data from two observational cohort studies. Lancet Respiratory Medicine,the, 2015, 3, 201-209.	10.7	116
31	Elements of signal transduction in Mycobacterium tuberculosis: in vitro phosphorylation and in vivo expression of the response regulator MtrA. Journal of Bacteriology, 1996, 178, 3314-3321.	2.2	111
32	Prediction of Drug Penetration in Tuberculosis Lesions. ACS Infectious Diseases, 2016, 2, 552-563.	3.8	110
33	Metronidazole prevents reactivation of latent Mycobacterium tuberculosis infection in macaques. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14188-14193.	7.1	109
34	Differential Virulence and Disease Progression following Mycobacterium tuberculosis Complex Infection of the Common Marmoset (Callithrix jacchus). Infection and Immunity, 2013, 81, 2909-2919.	2.2	107
35	The wide utility of rabbits as models of human diseases. Experimental and Molecular Medicine, 2018, 50, 1-10.	7.7	103
36	The within-host population dynamics of Mycobacterium tuberculosis vary with treatment efficacy. Genome Biology, 2017, 18, 71.	8.8	95

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37	Extensively Drug-Resistant Tuberculosis in South Korea: Risk Factors and Treatment Outcomes among Patients at a Tertiary Referral Hospital. Clinical Infectious Diseases, 2008, 46, 42-49.	5.8	94
38	Linezolid Trough Concentrations Correlate with Mitochondrial Toxicity-Related Adverse Events in the Treatment of Chronic Extensively Drug-Resistant Tuberculosis. EBioMedicine, 2015, 2, 1627-1633.	6.1	93
39	Infection Dynamics and Response to Chemotherapy in a Rabbit Model of Tuberculosis using [¹⁸ F]2-Fluoro-Deoxy- <scp>d</scp> -Glucose Positron Emission Tomography and Computed Tomography. Antimicrobial Agents and Chemotherapy, 2012, 56, 4391-4402.	3.2	89
40	Meropenem-Clavulanic Acid Shows Activity against Mycobacterium tuberculosis In Vivo. Antimicrobial Agents and Chemotherapy, 2012, 56, 3384-3387.	3.2	89
41	Sensititre MYCOTB MIC Plate for Testing Mycobacterium tuberculosis Susceptibility to First- and Second-Line Drugs. Antimicrobial Agents and Chemotherapy, 2014, 58, 11-18.	3.2	86
42	Fitness costs of rifampicin resistance in <scp>M</scp>ycobacterium tuberculosis are amplified under conditions of nutrient starvation and compensated by mutation in the Î²â€² subunit of <scp>RNA</scp> polymerase. Molecular Microbiology, 2014, 91, 1106-1119.	2.5	85
43	Polymorphisms Associated with Resistance and Cross-Resistance to Aminoglycosides and Capreomycin in Mycobacterium tuberculosis Isolates from South Korean Patients with Drug-Resistant Tuberculosis. Journal of Clinical Microbiology, 2010, 48, 402-411.	3.9	83
44	Plasticity of the Mycobacterium tuberculosis respiratory chain and its impact on tuberculosis drug development. Nature Communications, 2019, 10, 4970.	12.8	82
45	Within patient microevolution of Mycobacterium tuberculosis correlates with heterogeneous responses to treatment. Scientific Reports, 2015, 5, 17507.	3.3	80
46	Rapid detection of Mycobacterium tuberculosis biomarkers in a sandwich immunoassay format using a waveguide-based optical biosensor. Tuberculosis, 2012, 92, 407-416.	1.9	78
47	Essential but Not Vulnerable: Indazole Sulfonamides Targeting Inosine Monophosphate Dehydrogenase as Potential Leads against Mycobacterium tuberculosis. ACS Infectious Diseases, 2017, 3, 18-33.	3.8	77
48	Multidrug-Resistant Tuberculosis Treatment Outcomes in Relation to Treatment and Initial Versus Acquired Second-Line Drug Resistance. Clinical Infectious Diseases, 2016, 62, civ910.	5.8	76
49	Storage lipid studies in tuberculosis reveal that foam cell biogenesis is disease-specific. PLoS Pathogens, 2018, 14, e1007223.	4.7	75
50	Genetic Diversity of Mycobacterium tuberculosis Isolates from a Tertiary Care Tuberculosis Hospital in South Korea. Journal of Clinical Microbiology, 2010, 48, 387-394.	3.9	73
51	Host-Mediated Bioactivation of Pyrazinamide: Implications for Efficacy, Resistance, and Therapeutic Alternatives. ACS Infectious Diseases, 2015, 1, 203-214.	3.8	71
52	Impact of Diabetes and Smoking on Mortality in Tuberculosis. PLoS ONE, 2013, 8, e58044.	2.5	71
53	PD-1 blockade exacerbates Mycobacterium tuberculosis infection in rhesus macaques. Science Immunology, 2021, 6, .	11.9	70
54	Efficacy and Safety of Metronidazole for Pulmonary Multidrug-Resistant Tuberculosis. Antimicrobial Agents and Chemotherapy, 2013, 57, 3903-3909.	3.2	67

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55	Reagent Precoated Targets for Rapid In-Tissue Derivatization of the Anti-Tuberculosis Drug Isoniazid Followed by MALDI Imaging Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2011, 22, 1409-1419.	2.8	65
56	Mycolic acids as diagnostic markers for tuberculosis case detection in humans and drug efficacy in mice. EMBO Molecular Medicine, 2012, 4, 27-37.	6.9	61
57	A Sterilizing Tuberculosis Treatment Regimen Is Associated with Faster Clearance of Bacteria in Cavitary Lesions in Marmosets. Antimicrobial Agents and Chemotherapy, 2015, 59, 4181-4189.	3.2	59
58	Granzyme <scp>B</scp> â€expressing neutrophils correlate with bacterial load in granulomas from <scp> M </scp> ycobacterium tuberculosis â€infected cynomolgus macaques. Cellular Microbiology, 2015, 17, 1085-1097.	2.1	58
59	The extreme sensitivity of Mycobacterium tuberculosis to the front-line antituberculosis drug isoniazid. Nature Biotechnology, 1996, 14, 1557-1561.	17.5	55
60	Natural killer cells are recruited during pulmonary tuberculosis and theirex vivoresponses to mycobacteria vary between healthy human donors in association with<scp>KIR</scp>haplotype. Cellular Microbiology, 2012, 14, 1734-1744.	2.1	55
61	Changes in inflammatory protein and lipid mediator profiles persist after antitubercular treatment of pulmonary and extrapulmonary tuberculosis: A prospective cohort study. Cytokine, 2019, 123, 154759.	3.2	55
62	Rapid Detection of Fluoroquinolone-Resistant and Heteroresistant Mycobacterium tuberculosis by Use of Sloppy Molecular Beacons and Dual Melting-Temperature Codes in a Real-Time PCR Assay. Journal of Clinical Microbiology, 2011, 49, 932-940.	3.9	48
63	Frequency of adverse reactions to first- and second-line anti-tuberculosis chemotherapy in a Korean cohort. International Journal of Tuberculosis and Lung Disease, 2012, 16, 961-966.	1.2	48
64	Predictors of pulmonary tuberculosis treatment outcomes in South Korea: a prospective cohort study, 2005-2012. BMC Infectious Diseases, 2014, 14, 360.	2.9	48
65	Intratracheal exposure of common marmosets to MERS-CoV Jordan-n3/2012 or MERS-CoV EMC/2012 isolates does not result in lethal disease. Virology, 2015, 485, 422-430.	2.4	47
66	Detection of Isoniazid-, Fluoroquinolone-, Amikacin-, and Kanamycin-Resistant Tuberculosis in an Automated, Multiplexed 10-Color Assay Suitable for Point-of-Care Use. Journal of Clinical Microbiology, 2017, 55, 183-198.	3.9	47
67	Association of lipoarabinomannan with high density lipoprotein in blood: Implications for diagnostics. Tuberculosis, 2013, 93, 301-307.	1.9	46
68	Exploring Alternative Biomaterials for Diagnosis of Pulmonary Tuberculosis in HIV-Negative Patients by Use of the GeneXpert MTB/RIF Assay. Journal of Clinical Microbiology, 2013, 51, 4161-4166.	3.9	42
69	Rapid, High-Throughput Detection of Rifampin Resistance and Heteroresistance in Mycobacterium tuberculosis by Use of Sloppy Molecular Beacon Melting Temperature Coding. Journal of Clinical Microbiology, 2012, 50, 2194-2202.	3.9	38
70	Eosinophils are part of the granulocyte response in tuberculosis and promote host resistance in mice. Journal of Experimental Medicine, 2021, 218, .	8.5	38
71	Association between Regimen Composition and Treatment Response in Patients with Multidrug-Resistant Tuberculosis: A Prospective Cohort Study. PLoS Medicine, 2015, 12, e1001932.	8.4	37
72	Bacterial Loads Measured by the Xpert MTB/RIF Assay as Markers of Culture Conversion and Bacteriological Cure in Pulmonary TB. PLoS ONE, 2016, 11, e0160062.	2.5	35

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73	Interleukin (IL)-15 and IL-2 Reciprocally Regulate Expression of the Chemokine Receptor CX3CR1 through Selective NFAT1- and NFAT2-dependent Mechanisms. Journal of Biological Chemistry, 2004, 279, 48520-48534.	3.4	34
74	Molecular degree of perturbation of plasma inflammatory markers associated with tuberculosis reveals distinct disease profiles between Indian and Chinese populations. Scientific Reports, 2019, 9, 8002.	3.3	33
75	Genotypic Susceptibility Testing of Mycobacterium tuberculosis Isolates for Amikacin and Kanamycin Resistance by Use of a Rapid Sloppy Molecular Beacon-Based Assay Identifies More Cases of Low-Level Drug Resistance than Phenotypic Lowenstein-Jensen Testing. Journal of Clinical Microbiology, 2015, 53, 43-51.	3.9	32
76	Clinical Research and Development of Tuberculosis Diagnostics: Moving From Silos to Synergy. Journal of Infectious Diseases, 2012, 205, S159-S168.	4.0	30
77	Mathematical Model of Oxygen Transport in Tuberculosis Granulomas. Annals of Biomedical Engineering, 2016, 44, 863-872.	2.5	29
78	Discovery and Structureâ€“Activity-Relationship Study of N-Alkyl-5-hydroxypyrimidinone Carboxamides as Novel Antitubercular Agents Targeting Decaprenylphosphoryl-Î²-<scp>d</scp>-ribose 2â€²-Oxidase. Journal of Medicinal Chemistry, 2018, 61, 9952-9965.	6.4	29
79	Nuclear imaging: A powerful novel approach for tuberculosis. Nuclear Medicine and Biology, 2014, 41, 777-784.	0.6	28
80	Quantitative 18F-FDG PET-CT scan characteristics correlate with tuberculosis treatment response. EJNMMI Research, 2020, 10, 8.	2.5	27
81	Improved rapid molecular diagnosis of multidrug-resistant tuberculosis using a new reverse hybridization assay, REBA MTB-MDR. Journal of Medical Microbiology, 2011, 60, 1447-1454.	1.8	25
82	Fourteen-day PET/CT imaging to monitor drug combination activity in treated individuals with tuberculosis. Science Translational Medicine, 2021, 13, .	12.4	25
83	Association of Antigen-Stimulated Release of Tumor Necrosis Factor-Alpha in Whole Blood with Response to Chemotherapy in Patients with Pulmonary Multidrug-Resistant Tuberculosis. Respiration, 2010, 80, 275-284.	2.6	23
84	Functional inactivation of pulmonary MAIT cells following 5-OP-RU treatment of non-human primates. Mucosal Immunology, 2021, 14, 1055-1066.	6.0	23
85	Comparison of methods for isolation of Mycobacterium avium complex DNA for use in PCR and RAPD fingerprinting. Journal of Microbiological Methods, 1995, 21, 151-161.	1.6	22
86	Mutations in Extensively Drugâ€ResistantMycobacterium tuberculosisThat Do Not Code for Known Drugâ€Resistance Mechanisms. Journal of Infectious Diseases, 2010, 201, 881-888.	4.0	22
87	Using biomarkers to predict TB treatment duration (Predict TB): a prospective, randomized, noninferiority, treatment shortening clinical trial. Gates Open Research, 2017, 1, 9.	1.1	22
88	Rhabdomyolysis in a Patient Treated With Linezolid for Extensively Drug-Resistant Tuberculosis. Clinical Infectious Diseases, 2012, 54, 1624-1627.	5.8	21
89	Evaluation of the diagnostic utility of a whole-blood interferon-Î³ assay for determining the risk of exposure to Mycobacterium tuberculosis in Bacille Calmette-Guerin (BCG)-vaccinated individuals. Diagnostic Microbiology and Infectious Disease, 2008, 61, 181-186.	1.8	19
90	The Medicinal Chemistry of Tuberculosis Chemotherapy. Topics in Medicinal Chemistry, 2011, , 47-124.	0.8	17

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91	An In Vitro Caseum Binding Assay that Predicts Drug Penetration in Tuberculosis Lesions. Journal of Visualized Experiments, 2017, , .	0.3	17
92	One Size Fits All? Not in In Vivo Modeling of Tuberculosis Chemotherapeutics. Frontiers in Cellular and Infection Microbiology, 2021, 11, 613149.	3.9	17
93	Mild SARS-CoV-2 infection in rhesus macaques is associated with viral control prior to antigen-specific T cell responses in tissues. Science Immunology, 2022, 7, eabo0535.	11.9	17
94	A semi-automatic technique to quantify complex tuberculous lung lesions on 18F-fluorodeoxyglucose positron emission tomography/computerised tomography images. EJNMMI Research, 2018, 8, 55.	2.5	16
95	CD4 TÂcells are rapidly depleted from tuberculosis granulomas following acute SIV co-infection. Cell Reports, 2022, 39, 110896.	6.4	15
96	Very Low Doses of Mycobacterium tuberculosis Yield Diverse Host Outcomes in Common Marmosets (Callithrix jacchus). Comparative Medicine, 2016, 66, 412-419.	1.0	14
97	Additional Drug Resistance of Multidrug-Resistant Tuberculosis in Patients in 9 Countries. Emerging Infectious Diseases, 2015, 21, 977-983.	4.3	13
98	Interferon-gamma response to the treatment of active pulmonary and extra-pulmonary tuberculosis. International Journal of Tuberculosis and Lung Disease, 2017, 21, 1145-1149.	1.2	13
99	A Rabbit Model to Study Antibiotic Penetration at the Site of Infection for Nontuberculous Mycobacterial Lung Disease: Macrolide Case Study. Antimicrobial Agents and Chemotherapy, 2022, 66, aac0221221.	3.2	13
100	Visualizing the dynamics of tuberculosis pathology using molecular imaging. Journal of Clinical Investigation, 2021, 131, .	8.2	12
101	Lesion Penetration and Activity Limit the Utility of Second-Line Injectable Agents in Pulmonary Tuberculosis. Antimicrobial Agents and Chemotherapy, 2021, 65, e0050621.	3.2	12
102	Comparative Evaluation of Sloppy Molecular Beacon and Dual-Labeled Probe Melting Temperature Assays to Identify Mutations in Mycobacterium tuberculosis Resulting in Rifampin, Fluoroquinolone and Aminoglycoside Resistance. PLoS ONE, 2015, 10, e0126257.	2.5	12
103	Utility of the REBA MTB-rifaÂ® assay for rapid detection of rifampicin resistant Mycobacterium Tuberculosis. BMC Infectious Diseases, 2013, 13, 478.	2.9	9
104	Inhibition of CorA-Dependent Magnesium Homeostasis Is Cidal in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	9
105	Metaplastic ossification in the cartilage of the bronchus of a patient with chronic multi-drug resistant tuberculosis: a case report. Journal of Medical Case Reports, 2010, 4, 156.	0.8	8
106	Computed Tomography-Based Biomarker for Longitudinal Assessment of Disease Burden in Pulmonary Tuberculosis. Molecular Imaging and Biology, 2019, 21, 19-24.	2.6	7
107	Sputum lipoarabinomannan (LAM) as a biomarker to determine sputum mycobacterial load: exploratory and model-based analyses of integrated data from four cohorts. BMC Infectious Diseases, 2022, 22, 327.	2.9	7
108	The Transcription Factor NFATp Plays a Key Role in Susceptibility to TB in Mice. PLoS ONE, 2012, 7, e41427.	2.5	6

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109	Linezolid For Extensively Drug Resistant Pulmonary Tuberculosis. , 2011, , .		1
110	Abstract B59: Mathematical Model of Oxygen Transport in Tuberculosis Granulomas. , 2017, , .		0
111	Predicting TB treatment outcomes using baseline risk and treatment response markers: developing the PredictTB early treatment completion criteria. Gates Open Research, 0, 4, 157.	1.1	0