

# David Alland

## List of Publications by Year in descending order

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62  
papers

6,896  
citations

147801

31  
h-index

123424

61  
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68  
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68  
docs citations

68  
times ranked

6949  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Molecular Detection of Tuberculosis and Rifampin Resistance. <i>New England Journal of Medicine</i> , 2010, 363, 1005-1015.	27.0	1,936
2	Rapid Detection of <i>Mycobacterium tuberculosis</i> and Rifampin Resistance by Use of On-Demand, Near-Patient Technology. <i>Journal of Clinical Microbiology</i> , 2010, 48, 229-237.	3.9	774
3	Xpert MTB/RIF Ultra for detection of <i>Mycobacterium tuberculosis</i> and rifampicin resistance: a prospective multicentre diagnostic accuracy study. <i>Lancet Infectious Diseases</i> , The, 2018, 18, 76-84.	9.1	474
4	The New Xpert MTB/RIF Ultra: Improving Detection of <i>Mycobacterium tuberculosis</i> and Resistance to Rifampin in an Assay Suitable for Point-of-Care Testing. <i>MBio</i> , 2017, 8, .	4.1	431
5	Population Genetics Study of Isoniazid Resistance Mutations and Evolution of Multidrug-Resistant <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 2640-2649.	3.2	364
6	A standardised method for interpreting the association between mutations and phenotypic drug resistance in <i>Mycobacterium tuberculosis</i> . <i>European Respiratory Journal</i> , 2017, 50, 1701354.	6.7	273
7	Persisting positron emission tomography lesion activity and <i>Mycobacterium tuberculosis</i> mRNA after tuberculosis cure. <i>Nature Medicine</i> , 2016, 22, 1094-1100.	30.7	247
8	Evolution of high-level ethambutol-resistant tuberculosis through interacting mutations in decaprenylphosphoryl- <sup>12</sup> -D-arabinose biosynthetic and utilization pathway genes. <i>Nature Genetics</i> , 2013, 45, 1190-1197.	21.4	191
9	Host blood RNA signatures predict the outcome of tuberculosis treatment. <i>Tuberculosis</i> , 2017, 107, 48-58.	1.9	156
10	Multicenter Evaluation of the Cepheid Xpert Xpress SARS-CoV-2 Test. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	146
11	Antituberculosis thiophenes define a requirement for Pks13 in mycolic acid biosynthesis. <i>Nature Chemical Biology</i> , 2013, 9, 499-506.	8.0	129
12	Evaluation of a Rapid Molecular Drug-Susceptibility Test for Tuberculosis. <i>New England Journal of Medicine</i> , 2017, 377, 1043-1054.	27.0	129
13	Transfer of <i>embB</i> Codon 306 Mutations into Clinical <i>Mycobacterium tuberculosis</i> Strains Alters Susceptibility to Ethambutol, Isoniazid, and Rifampin. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 2027-2034.	3.2	115
14	Bacterial Factors That Predict Relapse after Tuberculosis Therapy. <i>New England Journal of Medicine</i> , 2018, 379, 823-833.	27.0	114
15	Modeling Bacterial Evolution with Comparative-Genome-Based Marker Systems: Application to <i>Mycobacterium tuberculosis</i> Evolution and Pathogenesis. <i>Journal of Bacteriology</i> , 2003, 185, 3392-3399.	2.2	101
16	Phase variation in <i>Mycobacterium tuberculosis glpK</i> produces transiently heritable drug tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19665-19674.	7.1	96
17	A Novel Small-Molecule Inhibitor of the <i>Mycobacterium tuberculosis</i> Demethylmenaquinone Methyltransferase MenG Is Bactericidal to Both Growing and Nutritionally Deprived Persister Cells. <i>MBio</i> , 2017, 8, .	4.1	84
18	Evaluation of Xpert MTB/RIF Versus AFB Smear and Culture to Identify Pulmonary Tuberculosis in Patients With Suspected Tuberculosis From Low and Higher Prevalence Settings. <i>Clinical Infectious Diseases</i> , 2016, 62, 1081-1088.	5.8	68

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19	Whole Genome Sequencing of <i>Mycobacterium tuberculosis</i> Reveals Slow Growth and Low Mutation Rates during Latent Infections in Humans. <i>PLoS ONE</i> , 2014, 9, e91024.	2.5	66
20	Phosphorylation of KasB Regulates Virulence and Acid-Fastness in <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , 2014, 10, e1004115.	4.7	63
21	Allelic Exchange and Mutant Selection Demonstrate that Common Clinical <i>embCAB</i> Gene Mutations Only Modestly Increase Resistance to Ethambutol in <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 103-108.	3.2	52
22	Rapid Universal Identification of Bacterial Pathogens from Clinical Cultures by Using a Novel Sloppy Molecular Beacon Melting Temperature Signature Technique. <i>Journal of Clinical Microbiology</i> , 2010, 48, 258-267.	3.9	48
23	Rapid Detection of Fluoroquinolone-Resistant and Heteroresistant <i>Mycobacterium tuberculosis</i> by Use of Sloppy Molecular Beacons and Dual Melting-Temperature Codes in a Real-Time PCR Assay. <i>Journal of Clinical Microbiology</i> , 2011, 49, 932-940.	3.9	48
24	A Simple Reverse Transcriptase PCR Melting-Temperature Assay To Rapidly Screen for Widely Circulating SARS-CoV-2 Variants. <i>Journal of Clinical Microbiology</i> , 2021, 59, e0084521.	3.9	48
25	Detection of Isoniazid-, Fluoroquinolone-, Amikacin-, and Kanamycin-Resistant Tuberculosis in an Automated, Multiplexed 10-Color Assay Suitable for Point-of-Care Use. <i>Journal of Clinical Microbiology</i> , 2017, 55, 183-198.	3.9	47
26	Intensity of exposure to pulmonary tuberculosis determines risk of tuberculosis infection and disease. <i>European Respiratory Journal</i> , 2018, 51, 1701578.	6.7	46
27	Xpert MTB/XDR: a 10-Color Reflex Assay Suitable for Point-of-Care Settings To Detect Isoniazid, Fluoroquinolone, and Second-Line-Injectable-Drug Resistance Directly from <i>Mycobacterium tuberculosis</i> -Positive Sputum. <i>Journal of Clinical Microbiology</i> , 2021, 59, .	3.9	43
28	Feasibility and Operational Performance of Tuberculosis Detection by Loop-Mediated Isothermal Amplification Platform in Decentralized Settings: Results from a Multicenter Study. <i>Journal of Clinical Microbiology</i> , 2016, 54, 1984-1991.	3.9	37
29	Synergistic Lethality of a Binary Inhibitor of <i>Mycobacterium tuberculosis</i> KasA. <i>MBio</i> , 2018, 9, .	4.1	37
30	<i>Mycobacterium tuberculosis</i> progresses through two phases of latent infection in humans. <i>Nature Communications</i> , 2020, 11, 4870.	12.8	36
31	Bacterial Loads Measured by the Xpert MTB/RIF Assay as Markers of Culture Conversion and Bacteriological Cure in Pulmonary TB. <i>PLoS ONE</i> , 2016, 11, e0160062.	2.5	35
32	Importance of Cough and <i>M. tuberculosis</i> Strain Type as Risks for Increased Transmission within Households. <i>PLoS ONE</i> , 2014, 9, e100984.	2.5	32
33	Integration of Published Information Into a Resistance-Associated Mutation Database for <i>Mycobacterium tuberculosis</i> . <i>Journal of Infectious Diseases</i> , 2015, 211, S50-S57.	4.0	32
34	Genotypic Susceptibility Testing of <i>Mycobacterium tuberculosis</i> 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. <i>Journal of Clinical Microbiology</i> , 2015, 53, 43-51.	3.9	32
35	Quantitative 18F-FDG PET-CT scan characteristics correlate with tuberculosis treatment response. <i>EJNMMI Research</i> , 2020, 10, 8.	2.5	27
36	Discordance of Tuberculin Skin Test and Interferon Gamma Release Assay in Recently Exposed Household Contacts of Pulmonary TB Cases in Brazil. <i>PLoS ONE</i> , 2014, 9, e96564.	2.5	26

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37	Geographic Differences in the Contribution of <i>ubiA</i> Mutations to High-Level Ethambutol Resistance in <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 4101-4105.	3.2	24
38	Molecular Detection of <i>Mycobacterium tuberculosis</i> from Stools in Young Children by Use of a Novel Centrifugation-Free Processing Method. <i>Journal of Clinical Microbiology</i> , 2018, 56, .	3.9	23
39	Using biomarkers to predict TB treatment duration (Predict TB): a prospective, randomized, noninferiority, treatment shortening clinical trial. <i>Gates Open Research</i> , 2017, 1, 9.	1.1	22
40	High Systemic Exposure of Pyrazinoic Acid Has Limited Antituberculosis Activity in Murine and Rabbit Models of Tuberculosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 4197-4205.	3.2	21
41	Automatic Identification of Individual <i>rpoB</i> Gene Mutations Responsible for Rifampin Resistance in <i>Mycobacterium tuberculosis</i> by Use of Melting Temperature Signatures Generated by the Xpert MTB/RIF Ultra Assay. <i>Journal of Clinical Microbiology</i> , 2019, 58, .	3.9	18
42	Incident <i>Mycobacterium tuberculosis</i> infection in household contacts of infectious tuberculosis patients in Brazil. <i>BMC Infectious Diseases</i> , 2017, 17, 576.	2.9	14
43	Reversible gene silencing through frameshift indels and frameshift scars provide adaptive plasticity for <i>Mycobacterium tuberculosis</i> . <i>Nature Communications</i> , 2021, 12, 4702.	12.8	14
44	Rapid Detection of <i>Bacillus anthracis</i> Bloodstream Infections by Use of a Novel Assay in the GeneXpert System. <i>Journal of Clinical Microbiology</i> , 2017, 55, 2964-2971.	3.9	13
45	RT-PCR negative COVID-19. <i>BMC Infectious Diseases</i> , 2022, 22, 149.	2.9	13
46	Rapid and Sensitive Detection of <i>Mycobacterium</i> DNA Using Cepheid SmartCycler® and Tube Lysis System. <i>Clinical Chemistry</i> , 2001, 47, 1917-1918.	3.2	12
47	Comparative Evaluation of Sloppy Molecular Beacon and Dual-Labeled Probe Melting Temperature Assays to Identify Mutations in <i>Mycobacterium tuberculosis</i> Resulting in Rifampin, Fluoroquinolone and Aminoglycoside Resistance. <i>PLoS ONE</i> , 2015, 10, e0126257.	2.5	12
48	Performance of the G4 Xpert® MTB/RIF assay for the detection of <i>Mycobacterium tuberculosis</i> and rifampin resistance: a retrospective case-control study of analytical and clinical samples from high- and low-tuberculosis prevalence settings. <i>BMC Infectious Diseases</i> , 2016, 16, 764.	2.9	11
49	Inactivation of SARS-CoV-2 virus in saliva using a guanidium based transport medium suitable for RT-PCR diagnostic assays. <i>PLoS ONE</i> , 2021, 16, e0252687.	2.5	11
50	Prospective Cross-Sectional Evaluation of the Small Membrane Filtration Method for Diagnosis of Pulmonary Tuberculosis. <i>Journal of Clinical Microbiology</i> , 2014, 52, 2513-2520.	3.9	10
51	Sensitive Detection of <i>Francisella tularensis</i> Directly from Whole Blood by Use of the GeneXpert System. <i>Journal of Clinical Microbiology</i> , 2017, 55, 291-301.	3.9	10
52	Polymorphisms in Rv3806c ( <i>ubiA</i> ) and the upstream region of <i>embA</i> in relation to ethambutol resistance in clinical isolates of <i>Mycobacterium tuberculosis</i> from North India. <i>Tuberculosis</i> , 2018, 108, 41-46.	1.9	9
53	Detection of drug resistant <i>Mycobacterium tuberculosis</i> by high-throughput sequencing of DNA isolated from acid fast bacilli smears. <i>PLoS ONE</i> , 2020, 15, e0232343.	2.5	7
54	Multiplex Detection of Three Select Agents Directly from Blood by Use of the GeneXpert System. <i>Journal of Clinical Microbiology</i> , 2019, 57, .	3.9	6

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55	A snapshot of the predominant single nucleotide polymorphism cluster groups of Mycobacterium tuberculosis clinical isolates in Delhi, India. Tuberculosis, 2016, 100, 72-81.	1.9	5
56	Strains of Mycobacterium tuberculosis transmitting infection in Brazilian households and those associated with community transmission of tuberculosis. Tuberculosis, 2017, 104, 79-86.	1.9	5
57	Rapidly Correcting Frameshift Mutations in the Mycobacterium tuberculosis <i>rrs</i> Gene Produce Reversible Ethambutol Resistance and Small-Colony-Variant Morphology. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	5
58	Improving the Sensitivity of the Xpert MTB/RIF Assay on Sputum Pellets by Decreasing the Amount of Added Sample Reagent: a Laboratory and Clinical Evaluation. Journal of Clinical Microbiology, 2015, 53, 1258-1263.	3.9	4
59	Lack of association of novel mutation Asp397Gly in <i>infA</i> gene with ethambutol resistance in clinical isolates of Mycobacterium tuberculosis. Tuberculosis, 2019, 115, 49-55.	1.9	3
60	Reply to Vargas and Farhat: Mycobacterium tuberculosis <i>glpK</i> mutants in human tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3913-3914.	7.1	3
61	Sample collection and transport strategies to enhance yield, accessibility, and biosafety of COVID-19 RT-PCR testing. Journal of Medical Microbiology, 2021, 70, .	1.8	3
62	Nucleic acid extraction using a rapid, chemical free, ultrasonic technique for point-of-care diagnostics. , 2014, , .		2