David Alland

List of Publications by Year
in descending order

62 papers	6,896 citations	147801 31 h-index	123424 61 g-index
68 all docs	68 docs citations	68 times ranked	6949 citing authors

#	Article	IF	Citations
1	RT-PCR negative COVID-19. BMC Infectious Diseases, 2022, 22, 149.	2.9	13
2	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 Mycobacterium tuberculosis-Positive Sputum. Journal of Clinical Microbiology, 2021, 59, .	3.9	43
3	Inactivation of SARS-CoV-2 virus in saliva using a guanidium based transport medium suitable for RT-PCR diagnostic assays. PLoS ONE, 2021, 16, e0252687.	2.5	11
4	Reversible gene silencing through frameshift indels and frameshift scars provide adaptive plasticity for Mycobacterium tuberculosis. Nature Communications, 2021, 12, 4702.	12.8	14
5	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
6	A Simple Reverse Transcriptase PCR Melting-Temperature Assay To Rapidly Screen for Widely Circulating SARS-CoV-2 Variants. Journal of Clinical Microbiology, 2021, 59, e0084521.	3.9	48
7	Mycobacterium tuberculosis progresses through two phases of latent infection in humans. Nature Communications, 2020, 11, 4870.	12.8	36
8	Multicenter Evaluation of the Cepheid Xpert Xpress SARS-CoV-2 Test. Journal of Clinical Microbiology, 2020, 58, .	3.9	146
9	Detection of drug resistant Mycobacterium tuberculosis by high-throughput sequencing of DNA isolated from acid fast bacilli smears. PLoS ONE, 2020, 15, e0232343.	2.5	7
10	Rapidly Correcting Frameshift Mutations in the Mycobacterium tuberculosis <i>orn</i> Gene Produce Reversible Ethambutol Resistance and Small-Colony-Variant Morphology. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	5
11	Reply to Vargas and Farhat: Mycobacterium tuberculosis glpK mutants in human tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3913-3914.	7.1	3
12	Quantitative 18F-FDG PET-CT scan characteristics correlate with tuberculosis treatment response. EJNMMI Research, 2020, 10, 8.	2.5	27
13	Phase variation in <i>Mycobacterium tuberculosis glpK</i> produces transiently heritable drug tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19665-19674.	7.1	96
14	Automatic Identification of Individual <i>rpoB</i> Gene Mutations Responsible for Rifampin Resistance in Mycobacterium tuberculosis by Use of Melting Temperature Signatures Generated by the Xpert MTB/RIF Ultra Assay. Journal of Clinical Microbiology, 2019, 58, .	3.9	18
15	Multiplex Detection of Three Select Agents Directly from Blood by Use of the GeneXpert System. Journal of Clinical Microbiology, 2019, 57, .	3.9	6
16	Lack of association of novel mutation Asp397Gly in aftB gene with ethambutol resistance in clinical isolates of Mycobacterium tuberculosis. Tuberculosis, 2019, 115, 49-55.	1.9	3
17	Intensity of exposure to pulmonary tuberculosis determines risk of tuberculosis infection and disease. European Respiratory Journal, 2018, 51, 1701578.	6.7	46
18	Polymorphisms in Rv3806c (ubiA) and the upstream region of embA in relation to ethambutol resistance in clinical isolates of Mycobacterium tuberculosis from North India. Tuberculosis, 2018, 108, 41-46.	1.9	9

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19	Xpert MTB/RIF Ultra for detection of Mycobacterium tuberculosis and rifampicin resistance: a prospective multicentre diagnostic accuracy study. Lancet Infectious Diseases, The, 2018, 18, 76-84.	9.1	474
20	Synergistic Lethality of a Binary Inhibitor of Mycobacterium tuberculosis KasA. MBio, 2018, 9, .	4.1	37
21	Bacterial Factors That Predict Relapse after Tuberculosis Therapy. New England Journal of Medicine, 2018, 379, 823-833.	27.0	114
22	Molecular Detection of Mycobacterium tuberculosis from Stools in Young Children by Use of a Novel Centrifugation-Free Processing Method. Journal of Clinical Microbiology, 2018, 56, .	3.9	23
23	A Novel Small-Molecule Inhibitor of the <i>Mycobacterium tuberculosis</i> Demethylmenaquinone Methyltransferase MenG Is Bactericidal to Both Growing and Nutritionally Deprived Persister Cells. MBio, 2017, 8, .	4.1	84
24	Sensitive Detection of Francisella tularensis Directly from Whole Blood by Use of the GeneXpert System. Journal of Clinical Microbiology, 2017, 55, 291-301.	3.9	10
25	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
26	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. MBio, 2017, 8, .	4.1	431
27	Evaluation of a Rapid Molecular Drug-Susceptibility Test for Tuberculosis. New England Journal of Medicine, 2017, 377, 1043-1054.	27.0	129
28	Host blood RNA signatures predict the outcome of tuberculosis treatment. Tuberculosis, 2017, 107, 48-58.	1.9	156
29	Rapid Detection of Bacillus anthracis Bloodstream Infections by Use of a Novel Assay in the GeneXpert System. Journal of Clinical Microbiology, 2017, 55, 2964-2971.	3.9	13
30	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
31	A standardised method for interpreting the association between mutations and phenotypic drug resistance in<i>Mycobacterium tuberculosis</i>. European Respiratory Journal, 2017, 50, 1701354.	6.7	273
32	Incident Mycobacterium tuberculosis infection in household contacts of infectious tuberculosis patients in Brazil. BMC Infectious Diseases, 2017, 17, 576.	2.9	14
33	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
34	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
35	High Systemic Exposure of Pyrazinoic Acid Has Limited Antituberculosis Activity in Murine and Rabbit Models of Tuberculosis. Antimicrobial Agents and Chemotherapy, 2016, 60, 4197-4205.	3.2	21
36	Feasibility and Operational Performance of Tuberculosis Detection by Loop-Mediated Isothermal Amplification Platform in Decentralized Settings: Results from a Multicenter Study. Journal of Clinical Microbiology, 2016, 54, 1984-1991.	3.9	37

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37	Geographic Differences in the Contribution of <i>ubiA</i> Mutations to High-Level Ethambutol Resistance in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2016, 60, 4101-4105.	3.2	24
38	Persisting positron emission tomography lesion activity and Mycobacterium tuberculosis mRNA after tuberculosis cure. Nature Medicine, 2016, 22, 1094-1100.	30.7	247
39	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
40	Performance of the G4 XpertÂ® MTB/RIF assay for the detection of Mycobacterium tuberculosis and rifampin resistance: a retrospective case-control study of analytical and clinical samples from high- and low-tuberculosis prevalence settings. BMC Infectious Diseases, 2016, 16, 764.	2.9	11
41	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. Clinical Infectious Diseases, 2016, 62, 1081-1088.	5.8	68
42	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
43	Integration of Published Information Into a Resistance-Associated Mutation Database for Mycobacterium tuberculosis. Journal of Infectious Diseases, 2015, 211, S50-S57.	4.0	32
44	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
45	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
46	Importance of Cough and M. tuberculosis Strain Type as Risks for Increased Transmission within Households. PLoS ONE, 2014, 9, e100984.	2.5	32
47	Phosphorylation of KasB Regulates Virulence and Acid-Fastness in Mycobacterium tuberculosis. PLoS Pathogens, 2014, 10, e1004115.	4.7	63
48	Nucleic acid extraction using a rapid, chemical free, ultrasonic technique for point-of-care diagnostics. , 2014, , .		2
49	Prospective Cross-Sectional Evaluation of the Small Membrane Filtration Method for Diagnosis of Pulmonary Tuberculosis. Journal of Clinical Microbiology, 2014, 52, 2513-2520.	3.9	10
50	Whole Genome Sequencing of Mycobacterium tuberculosis Reveals Slow Growth and Low Mutation Rates during Latent Infections in Humans. PLoS ONE, 2014, 9, e91024.	2.5	66
51	Discordance of Tuberculin Skin Test and Interferon Gamma Release Assay in Recently Exposed Household Contacts of Pulmonary TB Cases in Brazil. PLoS ONE, 2014, 9, e96564.	2.5	26
52	Evolution of high-level ethambutol-resistant tuberculosis through interacting mutations in decaprenylphosphoryl-Î²-D-arabinose biosynthetic and utilization pathway genes. Nature Genetics, 2013, 45, 1190-1197.	21.4	191
53	Antituberculosis thiophenes define a requirement for Pks13 in mycolic acid biosynthesis. Nature Chemical Biology, 2013, 9, 499-506.	8.0	129
54	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

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55	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>. Antimicrobial Agents and Chemotherapy, 2010, 54, 103-108.	3.2	52
56	Rapid Detection of <i>Mycobacterium tuberculosis</i> and Rifampin Resistance by Use of On-Demand, Near-Patient Technology. Journal of Clinical Microbiology, 2010, 48, 229-237.	3.9	774
57	Rapid Universal Identification of Bacterial Pathogens from Clinical Cultures by Using a Novel Sloppy Molecular Beacon Melting Temperature Signature Technique. Journal of Clinical Microbiology, 2010, 48, 258-267.	3.9	48
58	Rapid Molecular Detection of Tuberculosis and Rifampin Resistance. New England Journal of Medicine, 2010, 363, 1005-1015.	27.0	1,936
59	Transfer of <i>embB</i> Codon 306 Mutations into Clinical <i>Mycobacterium tuberculosis</i> Strains Alters Susceptibility to Ethambutol, Isoniazid, and Rifampin. Antimicrobial Agents and Chemotherapy, 2008, 52, 2027-2034.	3.2	115
60	Population Genetics Study of Isoniazid Resistance Mutations and Evolution of Multidrug-Resistant Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2006, 50, 2640-2649.	3.2	364
61	Modeling Bacterial Evolution with Comparative-Genome-Based Marker Systems: Application to Mycobacterium tuberculosis Evolution and Pathogenesis. Journal of Bacteriology, 2003, 185, 3392-3399.	2.2	101
62	Rapid and Sensitive Detection of Mycobacterium DNA Using Cepheid SmartCyclerÂ® and Tube Lysis System. Clinical Chemistry, 2001, 47, 1917-1918.	3.2	12