

Rangarajan Sampath

List of Publications by Year in descending order

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papers

4,955
citations

94433

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docs citations

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times ranked

4701
citing authors

#	ARTICLE	IF	CITATIONS
1	The governance of personal data for COVID-19 response: perspective from the Access to COVID-19 Tools Accelerator. <i>BMJ Global Health</i> , 2021, 6, e006095.	4.7	3
2	Informing Antibiotic Treatment Decisions: Evaluating Rapid Molecular Diagnostics To Identify Susceptibility and Resistance to Carbapenems against <i>Acinetobacter</i> spp. in PRIMERS III. <i>Journal of Clinical Microbiology</i> , 2017, 55, 134-144.	3.9	26
3	The effect of empiric antimicrobial treatment duration on detection of bacterial DNA in sterile surgical specimens. <i>PLoS ONE</i> , 2017, 12, e0171074.	2.5	5
4	The IRIDICA BAC BSI Assay: Rapid, Sensitive and Culture-Independent Identification of Bacteria and <i>Candida</i> in Blood. <i>PLoS ONE</i> , 2016, 11, e0158186.	2.5	62
5	Prosthetic Valve Endocarditis Caused by <i>Bartonella henselae</i> : A Case Report of Molecular Diagnostics Informing Nonsurgical Management. <i>Open Forum Infectious Diseases</i> , 2016, 3, ofw202.	0.9	3
6	Rapid Molecular Diagnostics, Antibiotic Treatment Decisions, and Developing Approaches to Inform Empiric Therapy: PRIMERS I and II. <i>Clinical Infectious Diseases</i> , 2016, 62, 181-189.	5.8	52
7	Rapid Diagnosis of Infection in the Critically Ill, a Multicenter Study of Molecular Detection in Bloodstream Infections, Pneumonia, and Sterile Site Infections*. <i>Critical Care Medicine</i> , 2015, 43, 2283-2291.	0.9	159
8	Enterovirus D68 Associated Acute Respiratory Distress Syndrome in Adult, United States, 2014. <i>Emerging Infectious Diseases</i> , 2015, 21, 914-916.	4.3	23
9	Salvage microbiology: opportunities and challenges in the detection of bacterial pathogens following initiation of antimicrobial treatment. <i>Expert Review of Molecular Diagnostics</i> , 2015, 15, 349-360.	3.1	15
10	Corrigendum to "Evaluation of PCR electro-spray-ionization mass spectrometry for rapid molecular diagnosis of bovine mastitis" (<i>J. Dairy Sci.</i> 96:3611-3620). <i>Journal of Dairy Science</i> , 2015, 98, 718.	3.4	0
11	Diagnosis of Prosthetic Joint Infection by Use of PCR-Electrospray Ionization Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2014, 52, 642-649.	3.9	54
12	Detection of Prosthetic Joint Infection by Use of PCR-Electrospray Ionization Mass Spectrometry Applied to Synovial Fluid. <i>Journal of Clinical Microbiology</i> , 2014, 52, 2202-2205.	3.9	32
13	Analytical characterization of an assay designed to detect and identify diverse agents of disseminated viral infection. <i>Journal of Clinical Virology</i> , 2014, 59, 177-183.	3.1	4
14	Improved Sensitivity for Molecular Detection of Bacterial and <i>Candida</i> Infections in Blood. <i>Journal of Clinical Microbiology</i> , 2014, 52, 3164-3174.	3.9	145
15	Acute respiratory distress caused by <i>Neosartorya udagawae</i> . <i>Medical Mycology Case Reports</i> , 2014, 6, 1-5.	1.3	6
16	Identification of Occult <i>Fusobacterium nucleatum</i> Central Nervous System Infection by Use of PCR-Electrospray Ionization Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2014, 52, 3462-3464.	3.9	9
17	Detection and identification of viral pathogens in patients with hand, foot, and mouth disease by multilocus PCR, reverse-transcription PCR and electrospray ionization mass spectrometry. <i>Journal of Clinical Virology</i> , 2014, 59, 115-119.	3.1	13
18	<i>Ureaplasma parvum</i> Prosthetic Joint Infection Detected by PCR. <i>Journal of Clinical Microbiology</i> , 2014, 52, 2248-2250.	3.9	19

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19	Direct Detection of Indirect Transmission of Streptobacillus moniliformis Rat Bite Fever Infection. Journal of Clinical Microbiology, 2014, 52, 2259-2261.	3.9	12
20	Rapid detection and differentiation of human noroviruses using RT-PCR coupled to electrospray ionization mass spectrometry. Food Microbiology, 2014, 44, 71-80.	4.2	2
21	Molecular genotyping of Acinetobacter spp. isolated in Arizona, USA, using multilocus PCR and mass spectrometry. Journal of Medical Microbiology, 2013, 62, 1295-1300.	1.8	4
22	Evaluation of PCR electrospray-ionization mass spectrometry for rapid molecular diagnosis of bovine mastitis. Journal of Dairy Science, 2013, 96, 3611-3620.	3.4	13
23	Enhanced Diagnostic Yields of Bacteremia and Candidemia in Blood Specimens by PCR-Electrospray Ionization Mass Spectrometry. Journal of Clinical Microbiology, 2013, 51, 3535-3541.	3.9	43
24	PCR-Electrospray Ionization Mass Spectrometry for Direct Detection of Pathogens and Antimicrobial Resistance from Heart Valves in Patients with Infective Endocarditis. Journal of Clinical Microbiology, 2013, 51, 2040-2046.	3.9	46
25	Survey of Culture, GoldenGate Assay, Universal Biosensor Assay, and 16S rRNA Gene Sequencing as Alternative Methods of Bacterial Pathogen Detection. Journal of Clinical Microbiology, 2013, 51, 3263-3269.	3.9	25
26	PCR and Electrospray Ionization Mass Spectrometry for Detection of Persistent Enterococcus faecalis in Cerebrospinal Fluid following Treatment of Postoperative Ventriculitis. Journal of Clinical Microbiology, 2013, 51, 3464-3466.	3.9	9
27	PCR Followed by Electrospray Ionization Mass Spectrometry for Broad-Range Identification of Fungal Pathogens. Journal of Clinical Microbiology, 2013, 51, 959-966.	3.9	43
28	Broad-Spectrum Biosensor Capable of Detecting and Identifying Diverse Bacterial and Candida Species in Blood. Journal of Clinical Microbiology, 2013, 51, 2670-2678.	3.9	32
29	Rapid Identification and Differentiation of Non-O157 Shiga Toxin-Producing Escherichia coli Using Polymerase Chain Reaction Coupled to Electrospray Ionization Mass Spectrometry. Foodborne Pathogens and Disease, 2013, 10, 737-743.	1.8	8
30	The value and validation of broad spectrum biosensors for diagnosis and biodefense. Virulence, 2013, 4, 752-758.	4.4	9
31	Microbiota Evaluation of Patients With a Boston Type I Keratoprosthesis Treated With Topical 0.5% Moxifloxacin and 5% Povidone-Iodine. Cornea, 2013, 32, 407-411.	1.7	37
32	Rapid Diagnosis of Bloodstream Infections with PCR Followed by Mass Spectrometry. PLoS ONE, 2013, 8, e62108.	2.5	54
33	Salvage Microbiology: Detection of Bacteria Directly from Clinical Specimens following Initiation of Antimicrobial Treatment. PLoS ONE, 2013, 8, e66349.	2.5	30
34	Identification of Streptococcus intermedius Central Nervous System Infection by Use of PCR and Electrospray Ionization Mass Spectrometry. Journal of Clinical Microbiology, 2012, 50, 4160-4162.	3.9	17
35	Detection of heartworm infection in dogs via PCR amplification and electrospray ionization mass spectrometry of nucleic acid extracts from whole blood samples. American Journal of Veterinary Research, 2012, 73, 854-859.	0.6	11
36	Rapid Identification of Aspergillus terreus from Bronchoalveolar Lavage Fluid by PCR and Electrospray Ionization with Mass Spectrometry. Journal of Clinical Microbiology, 2012, 50, 2529-2530.	3.9	12

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37	Concurrent Serotyping and Genotyping of Pneumococci by Use of PCR and Electrospray Ionization Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2012, 50, 2018-2025.	3.9	23
38	Monitoring seasonal influenza A evolution: Rapid 2009 pandemic H1N1 surveillance with an reverse transcription-polymerase chain reaction/electro-spray ionization mass spectrometry assay. <i>Journal of Clinical Virology</i> , 2012, 54, 332-336.	3.1	16
39	Comparative Analysis of Two Broad-Range PCR Assays for Pathogen Detection in Positive-Blood-Culture Bottles: PCR-High-Resolution Melting Analysis versus PCR-Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2012, 50, 3287-3292.	3.9	37
40	Comprehensive Biothreat Cluster Identification by PCR/Electrospray-Ionization Mass Spectrometry. <i>PLoS ONE</i> , 2012, 7, e36528.	2.5	33
41	Rapid and High-Throughput Detection of Highly Pathogenic Bacteria by Ibis PLEX-ID Technology. <i>PLoS ONE</i> , 2012, 7, e39928.	2.5	46
42	Exhaled Aerosol Transmission of Pandemic and Seasonal H1N1 Influenza Viruses in the Ferret. <i>PLoS ONE</i> , 2012, 7, e33118.	2.5	49
43	Simultaneous Identification of Mycobacterial Isolates to the Species Level and Determination of Tuberculosis Drug Resistance by PCR Followed by Electrospray Ionization Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2011, 49, 908-917.	3.9	30
44	Reverse transcription polymerase chain reaction and electrospray ionization mass spectrometry for identifying acute viral upper respiratory tract infections. <i>Diagnostic Microbiology and Infectious Disease</i> , 2011, 69, 179-186.	1.8	34
45	RT-PCR/electrospray ionization mass spectrometry approach in detection and characterization of influenza viruses. <i>Expert Review of Molecular Diagnostics</i> , 2011, 11, 41-52.	3.1	37
46	Advanced Techniques for Detection and Identification of Viral Contaminants Using the Ibis PLEX-ID Universal Biosensor. <i>PDA Journal of Pharmaceutical Science and Technology</i> , 2011, 65, 690-690.	0.5	2
47	Rapid identification viruses from nasal pharyngeal aspirates in acute viral respiratory infections by RT-PCR and electrospray ionization mass spectrometry. <i>Journal of Virological Methods</i> , 2011, 173, 60-66.	2.1	50
48	Molecular Characterization of Drug-Resistant Mycobacterium tuberculosis Isolates Circulating in China by Multilocus PCR and Electrospray Ionization Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2011, 49, 2719-2721.	3.9	19
49	Transmission of Aerosolized Seasonal H1N1 Influenza A to Ferrets. <i>PLoS ONE</i> , 2011, 6, e24448.	2.5	21
50	Genomic Signature-Based Identification of Influenza A Viruses Using RT-PCR/Electro-Spray Ionization Mass Spectrometry (ESI-MS) Technology. <i>PLoS ONE</i> , 2010, 5, e13293.	2.5	38
51	Application of the Ibis-T5000 Pan-Orthopoxvirus Assay to Quantitatively Detect Monkeypox Viral Loads in Clinical Specimens from Macaques Experimentally Infected with Aerosolized Monkeypox Virus. <i>American Journal of Tropical Medicine and Hygiene</i> , 2010, 82, 318-323.	1.4	21
52	Detection and Identification of Ehrlichia Species in Blood by Use of PCR and Electrospray Ionization Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2010, 48, 472-478.	3.9	74
53	Rapid identification of blaKPC-possessing Enterobacteriaceae by PCR/electrospray ionization-mass spectrometry. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 1833-1834.	3.0	22
54	Identification of Pathogenic Vibrio Species by Multilocus PCR-Electrospray Ionization Mass Spectrometry and Its Application to Aquatic Environments of the Former Soviet Republic of Georgia. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1996-2001.	3.1	17

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55	Pyoderma Gangrenosumâ€“Like Ulcer in a Patient With X-Linked Agammaglobulinemia. Archives of Dermatology, 2010, 146, 523-6.	1.4	27
56	Generation of Genic Diversity among Streptococcus pneumoniae Strains via Horizontal Gene Transfer during a Chronic Polyclonal Pediatric Infection. PLoS Pathogens, 2010, 6, e1001108.	4.7	141
57	New technology for rapid molecular diagnosis of bloodstream infections. Expert Review of Molecular Diagnostics, 2010, 10, 399-415.	3.1	165
58	Rapid identification of vector-borne flaviviruses by mass spectrometry. Molecular and Cellular Probes, 2010, 24, 219-228.	2.1	36
59	A "silent culture-negative" abdominal aortic mycotic aneurysm: Rapid detection of Bartonella species using PCR and high-throughput mass spectrometry. Hawaii Medical Journal, 2010, 69, 68-9.	0.4	8
60	Rapid molecular assays for microbial contaminant monitoring in the bioprocess industry. PDA Journal of Pharmaceutical Science and Technology, 2010, 64, 458-64.	0.5	8
61	Rapid Determination of Quinolone Resistance in <i>Acinetobacter</i> spp. Journal of Clinical Microbiology, 2009, 47, 1436-1442.	3.9	82
62	Rapid Molecular Genotyping and Clonal Complex Assignment of Staphylococcus aureus Isolates by PCR Coupled to Electrospray Ionization-Mass Spectrometry. Journal of Clinical Microbiology, 2009, 47, 1733-1741.	3.9	63
63	Occurrence, Distribution, and Origins of Streptococcus pneumoniae Serotype 6C, a Recently Recognized Serotype. Journal of Clinical Microbiology, 2009, 47, 64-72.	3.9	61
64	Pathogen Profiling: Rapid Molecular Characterization of <i>Staphylococcus aureus</i> by PCR/Electrospray Ionization-Mass Spectrometry and Correlation with Phenotype. Journal of Clinical Microbiology, 2009, 47, 3129-3137.	3.9	60
65	Rapid and High-Throughput pan-Orthopoxvirus Detection and Identification using PCR and Mass Spectrometry. PLoS ONE, 2009, 4, e6342.	2.5	25
66	Ibis T5000: a universal biosensor approach for microbiology. Nature Reviews Microbiology, 2008, 6, 553-558.	28.6	296
67	Genotypic Evolution of Acinetobacter baumannii Strains in an Outbreak Associated With War Trauma. Infection Control and Hospital Epidemiology, 2008, 29, 553-555.	1.8	24
68	Rapid Detection and Molecular Serotyping of Adenovirus by Use of PCR Followed by Electrospray Ionization Mass Spectrometry. Journal of Clinical Microbiology, 2008, 46, 644-651.	3.9	47
69	High-Resolution Genotyping of <i>Campylobacter</i> Species by Use of PCR and High-Throughput Mass Spectrometry. Journal of Clinical Microbiology, 2008, 46, 1220-1225.	3.9	30
70	Direct broad-range detection of alphaviruses in mosquito extracts. Virology, 2007, 368, 286-295.	2.4	84
71	Rapid Identification of Emerging Infectious Agents Using PCR and Electrospray Ionization Mass Spectrometry. Annals of the New York Academy of Sciences, 2007, 1102, 109-120.	3.8	97
72	Global Surveillance of Emerging Influenza Virus Genotypes by Mass Spectrometry. PLoS ONE, 2007, 2, e489.	2.5	122

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73	Analysis of Antibiotic Resistance Genes in Multidrug-Resistant <i>Acinetobacter</i> sp. Isolates from Military and Civilian Patients Treated at the Walter Reed Army Medical Center. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 4114-4123.	3.2	457
74	Identification of <i>Acinetobacter</i> Species and Genotyping of <i>Acinetobacter baumannii</i> by Multilocus PCR and Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2006, 44, 2921-2932.	3.9	156
75	TIGER: the universal biosensor. <i>International Journal of Mass Spectrometry</i> , 2005, 242, 23-41.	1.5	140
76	Identification of conserved regulatory RNA structures in prokaryotic metabolic pathway genes. <i>BioSystems</i> , 2005, 80, 145-154.	2.0	17
77	Base composition analysis of human mitochondrial DNA using electrospray ionization mass spectrometry: A novel tool for the identification and differentiation of humans. <i>Analytical Biochemistry</i> , 2005, 344, 53-69.	2.4	45
78	SAR by MS: Discovery of a New Class of RNA-Binding Small Molecules for the Hepatitis C Virus: Internal Ribosome Entry Site IIA Subdomain. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 7099-7102.	6.4	149
79	Rapid Identification of Emerging Pathogens: Coronavirus. <i>Emerging Infectious Diseases</i> , 2005, 11, 373-379.	4.3	94
80	Rapid identification and strain-typing of respiratory pathogens for epidemic surveillance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8012-8017.	7.1	165
81	The Microbial Rosetta Stone database: A common structure for microbial biosecurity threat agents. <i>Journal of Forensic Sciences</i> , 2005, 50, 1380-5.	1.6	8
82	Discovery of RNA structural elements using evolutionary computation. <i>Nucleic Acids Research</i> , 2002, 30, 5310-5317.	14.5	46
83	A bioinformatics based approach to discover small RNA genes in the <i>Escherichia coli</i> genome. <i>BioSystems</i> , 2002, 65, 157-177.	2.0	217
84	RNAMotif, an RNA secondary structure definition and search algorithm. <i>Nucleic Acids Research</i> , 2001, 29, 4724-4735.	14.5	421
85	Analysis of diagnostic product portfolios using the Portfolio-To-Impact modelling tool. <i>F1000Research</i> , 0, 10, 116.	1.6	0