

Rangarajan Sampath

List of Publications by Year in descending order

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85
papers

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94433

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87
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	RNAMotif, an RNA secondary structure definition and search algorithm. <i>Nucleic Acids Research</i> , 2001, 29, 4724-4735.	14.5	421
3	Ibis T5000: a universal biosensor approach for microbiology. <i>Nature Reviews Microbiology</i> , 2008, 6, 553-558.	28.6	296
4	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
5	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
6	New technology for rapid molecular diagnosis of bloodstream infections. <i>Expert Review of Molecular Diagnostics</i> , 2010, 10, 399-415.	3.1	165
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	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
9	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
10	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
11	Generation of Genic Diversity among <i>Streptococcus pneumoniae</i> Strains via Horizontal Gene Transfer during a Chronic Polyclonal Pediatric Infection. <i>PLoS Pathogens</i> , 2010, 6, e1001108.	4.7	141
12	TIGER: the universal biosensor. <i>International Journal of Mass Spectrometry</i> , 2005, 242, 23-41.	1.5	140
13	Global Surveillance of Emerging Influenza Virus Genotypes by Mass Spectrometry. <i>PLoS ONE</i> , 2007, 2, e489.	2.5	122
14	Rapid Identification of Emerging Infectious Agents Using PCR and Electrospray Ionization Mass Spectrometry. <i>Annals of the New York Academy of Sciences</i> , 2007, 1102, 109-120.	3.8	97
15	Rapid Identification of Emerging Pathogens: Coronavirus. <i>Emerging Infectious Diseases</i> , 2005, 11, 373-379.	4.3	94
16	Direct broad-range detection of alphaviruses in mosquito extracts. <i>Virology</i> , 2007, 368, 286-295.	2.4	84
17	Rapid Determination of Quinolone Resistance in <i>Acinetobacter</i> spp. <i>Journal of Clinical Microbiology</i> , 2009, 47, 1436-1442.	3.9	82
18	Detection and Identification of <i>Ehrlichia</i> 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

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19	Rapid Molecular Genotyping and Clonal Complex Assignment of <i>Staphylococcus aureus</i> Isolates by PCR Coupled to Electrospray Ionization-Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2009, 47, 1733-1741.	3.9	63
20	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
21	Occurrence, Distribution, and Origins of <i>Streptococcus pneumoniae</i> Serotype 6C, a Recently Recognized Serotype. <i>Journal of Clinical Microbiology</i> , 2009, 47, 64-72.	3.9	61
22	Pathogen Profiling: Rapid Molecular Characterization of <i>Staphylococcus aureus</i> by PCR/Electrospray Ionization-Mass Spectrometry and Correlation with Phenotype. <i>Journal of Clinical Microbiology</i> , 2009, 47, 3129-3137.	3.9	60
23	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
24	Rapid Diagnosis of Bloodstream Infections with PCR Followed by Mass Spectrometry. <i>PLoS ONE</i> , 2013, 8, e62108.	2.5	54
25	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
26	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
27	Exhaled Aerosol Transmission of Pandemic and Seasonal H1N1 Influenza Viruses in the Ferret. <i>PLoS ONE</i> , 2012, 7, e33118.	2.5	49
28	Rapid Detection and Molecular Serotyping of Adenovirus by Use of PCR Followed by Electrospray Ionization Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2008, 46, 644-651.	3.9	47
29	Discovery of RNA structural elements using evolutionary computation. <i>Nucleic Acids Research</i> , 2002, 30, 5310-5317.	14.5	46
30	Rapid and High-Throughput Detection of Highly Pathogenic Bacteria by Ibis PLEX-ID Technology. <i>PLoS ONE</i> , 2012, 7, e39928.	2.5	46
31	PCR-Electrospray Ionization Mass Spectrometry for Direct Detection of Pathogens and Antimicrobial Resistance from Heart Valves in Patients with Infective Endocarditis. <i>Journal of Clinical Microbiology</i> , 2013, 51, 2040-2046.	3.9	46
32	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
33	Enhanced Diagnostic Yields of Bacteremia and Candidemia in Blood Specimens by PCR-Electrospray Ionization Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2013, 51, 3535-3541.	3.9	43
34	PCR Followed by Electrospray Ionization Mass Spectrometry for Broad-Range Identification of Fungal Pathogens. <i>Journal of Clinical Microbiology</i> , 2013, 51, 959-966.	3.9	43
35	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
36	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

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37	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
38	Microbiota Evaluation of Patients With a Boston Type I Keratoprosthesis Treated With Topical 0.5% Moxifloxacin and 5% Povidone-Iodine. <i>Cornea</i> , 2013, 32, 407-411.	1.7	37
39	Rapid identification of vector-borne flaviviruses by mass spectrometry. <i>Molecular and Cellular Probes</i> , 2010, 24, 219-228.	2.1	36
40	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
41	Comprehensive Biothreat Cluster Identification by PCR/Electrospray-Ionization Mass Spectrometry. <i>PLoS ONE</i> , 2012, 7, e36528.	2.5	33
42	Broad-Spectrum Biosensor Capable of Detecting and Identifying Diverse Bacterial and Candida Species in Blood. <i>Journal of Clinical Microbiology</i> , 2013, 51, 2670-2678.	3.9	32
43	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
44	High-Resolution Genotyping of <i>Campylobacter</i> Species by Use of PCR and High-Throughput Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2008, 46, 1220-1225.	3.9	30
45	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
46	Salvage Microbiology: Detection of Bacteria Directly from Clinical Specimens following Initiation of Antimicrobial Treatment. <i>PLoS ONE</i> , 2013, 8, e66349.	2.5	30
47	Pyoderma Gangrenosum-Like Ulcer in a Patient With X-Linked Agammaglobulinemia. <i>Archives of Dermatology</i> , 2010, 146, 523-6.	1.4	27
48	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
49	Survey of Culture, GoldenGate Assay, Universal Biosensor Assay, and 16S rRNA Gene Sequencing as Alternative Methods of Bacterial Pathogen Detection. <i>Journal of Clinical Microbiology</i> , 2013, 51, 3263-3269.	3.9	25
50	Rapid and High-Throughput pan-Orthopoxvirus Detection and Identification using PCR and Mass Spectrometry. <i>PLoS ONE</i> , 2009, 4, e6342.	2.5	25
51	Genotypic Evolution of <i>Acinetobacter baumannii</i> Strains in an Outbreak Associated With War Trauma. <i>Infection Control and Hospital Epidemiology</i> , 2008, 29, 553-555.	1.8	24
52	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
53	Enterovirus D68-Associated Acute Respiratory Distress Syndrome in Adult, United States, 2014. <i>Emerging Infectious Diseases</i> , 2015, 21, 914-916.	4.3	23
54	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

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55	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
56	Transmission of Aerosolized Seasonal H1N1 Influenza A to Ferrets. <i>PLoS ONE</i> , 2011, 6, e24448.	2.5	21
57	Molecular Characterization of Drug-Resistant <i>Mycobacterium tuberculosis</i> 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
58	<i>Ureaplasma parvum</i> Prosthetic Joint Infection Detected by PCR. <i>Journal of Clinical Microbiology</i> , 2014, 52, 2248-2250.	3.9	19
59	Identification of conserved regulatory RNA structures in prokaryotic metabolic pathway genes. <i>BioSystems</i> , 2005, 80, 145-154.	2.0	17
60	Identification of Pathogenic <i>Vibrio</i> 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
61	Identification of <i>Streptococcus intermedius</i> Central Nervous System Infection by Use of PCR and Electrospray Ionization Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2012, 50, 4160-4162.	3.9	17
62	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
63	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
64	Evaluation of PCR electrospray-ionization mass spectrometry for rapid molecular diagnosis of bovine mastitis. <i>Journal of Dairy Science</i> , 2013, 96, 3611-3620.	3.4	13
65	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
66	Rapid Identification of <i>Aspergillus terreus</i> from Bronchoalveolar Lavage Fluid by PCR and Electrospray Ionization with Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2012, 50, 2529-2530.	3.9	12
67	Direct Detection of Indirect Transmission of <i>Streptobacillus moniliformis</i> Rat Bite Fever Infection. <i>Journal of Clinical Microbiology</i> , 2014, 52, 2259-2261.	3.9	12
68	Detection of heartworm infection in dogs via PCR amplification and electrospray ionization mass spectrometry of nucleic acid extracts from whole blood samples. <i>American Journal of Veterinary Research</i> , 2012, 73, 854-859.	0.6	11
69	PCR and Electrospray Ionization Mass Spectrometry for Detection of Persistent <i>Enterococcus faecalis</i> in Cerebrospinal Fluid following Treatment of Postoperative Ventriculitis. <i>Journal of Clinical Microbiology</i> , 2013, 51, 3464-3466.	3.9	9
70	The value and validation of broad spectrum biosensors for diagnosis and biodefense. <i>Virulence</i> , 2013, 4, 752-758.	4.4	9
71	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
72	Rapid Identification and Differentiation of Non-O157 Shiga Toxin-producing <i>Escherichia coli</i> Using Polymerase Chain Reaction Coupled to Electrospray Ionization Mass Spectrometry. <i>Foodborne Pathogens and Disease</i> , 2013, 10, 737-743.	1.8	8

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73	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
74	The Microbial Rosetta Stone database: A common structure for microbial biosecurity threat agents. Journal of Forensic Sciences, 2005, 50, 1380-5.	1.6	8
75	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
76	Acute respiratory distress caused by Neosartorya udagawae. Medical Mycology Case Reports, 2014, 6, 1-5.	1.3	6
77	The effect of empiric antimicrobial treatment duration on detection of bacterial DNA in sterile surgical specimens. PLoS ONE, 2017, 12, e0171074.	2.5	5
78	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
79	Analytical characterization of an assay designed to detect and identify diverse agents of disseminated viral infection. Journal of Clinical Virology, 2014, 59, 177-183.	3.1	4
80	Prosthetic Valve Endocarditis Caused by Bartonella henselae: A Case Report of Molecular Diagnostics Informing Nonsurgical Management. Open Forum Infectious Diseases, 2016, 3, ofw202.	0.9	3
81	The governance of personal data for COVID-19 response: perspective from the Access to COVID-19 Tools Accelerator. BMJ Global Health, 2021, 6, e006095.	4.7	3
82	Advanced Techniques for Detection and Identification of Viral Contaminants Using the Ibis PLEX-ID Universal Biosensor. PDA Journal of Pharmaceutical Science and Technology, 2011, 65, 690-690.	0.5	2
83	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
84	Corrigendum to "Evaluation of PCR electrospray-ionization mass spectrometry for rapid molecular diagnosis of bovine mastitis" (J. Dairy Sci. 96:3611-3620). Journal of Dairy Science, 2015, 98, 718.	3.4	0
85	Analysis of diagnostic product portfolios using the Portfolio-To-Impact modelling tool. F1000Research, 0, 10, 116.	1.6	0