

# Michel G Bergeron

## List of Publications by Year in descending order

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84  
papers

7,663  
citations

94433

37  
h-index

60623

81  
g-index

86  
all docs

86  
docs citations

86  
times ranked

9146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Colorimetric and Fluorometric Detection of Nucleic Acids Using Cationic Polythiophene Derivatives. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1548-1551.	13.8	472
2	Recombinase Polymerase Amplification for Diagnostic Applications. <i>Clinical Chemistry</i> , 2016, 62, 947-958.	3.2	457
3	Human Metapneumovirus Infections in Hospitalized Children <sup>1</sup> . <i>Emerging Infectious Diseases</i> , 2003, 9, 634-640.	4.3	395
4	Species-Specific and Ubiquitous-DNA-Based Assays for Rapid Identification of <i>Staphylococcus aureus</i> . <i>Journal of Clinical Microbiology</i> , 1998, 36, 618-623.	3.9	392
5	Correlation between the Resistance Genotype Determined by Multiplex PCR Assays and the Antibiotic Susceptibility Patterns of <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 231-238.	3.2	359
6	Fluorescent Polymeric Transducer for the Rapid, Simple, and Specific Detection of Nucleic Acids at the Zeptomole Level. <i>Journal of the American Chemical Society</i> , 2004, 126, 4240-4244.	13.7	344
7	Development of a PCR Assay for Rapid Detection of Enterococci. <i>Journal of Clinical Microbiology</i> , 1999, 37, 3497-3503.	3.9	310
8	Vancomycin-Modified Nanoparticles for Efficient Targeting and Preconcentration of Gram-Positive and Gram-Negative Bacteria. <i>ACS Nano</i> , 2008, 2, 1777-1788.	14.6	282
9	Development of a PCR Assay for Identification of Staphylococci at Genus and Species Levels. <i>Journal of Clinical Microbiology</i> , 2001, 39, 2541-2547.	3.9	278
10	Rapid Detection of Group B Streptococci in Pregnant Women at Delivery. <i>New England Journal of Medicine</i> , 2000, 343, 175-179.	27.0	260
11	Direct Molecular Detection of Nucleic Acids by Fluorescence Signal Amplification. <i>Journal of the American Chemical Society</i> , 2005, 127, 12673-12676.	13.7	255
12	The initial state of the human gut microbiome determines its reshaping by antibiotics. <i>ISME Journal</i> , 2016, 10, 707-720.	9.8	251
13	Role of Galectin-3 as an Adhesion Molecule for Neutrophil Extravasation During Streptococcal Pneumonia. <i>Journal of Immunology</i> , 2002, 168, 1813-1822.	0.8	225
14	Rapid Detection of <i>Clostridium difficile</i> in Feces by Real-Time PCR. <i>Journal of Clinical Microbiology</i> , 2003, 41, 730-734.	3.9	199
15	Cytokine Kinetics and Other Host Factors in Response to Pneumococcal Pulmonary Infection in Mice. <i>Infection and Immunity</i> , 1998, 66, 912-922.	2.2	197
16	Development of Conventional and Real-Time PCR Assays for the Rapid Detection of Group B Streptococci. <i>Clinical Chemistry</i> , 2000, 46, 324-331.	3.2	181
17	Evaluating Anxiety and Depression in HIV-Infected Patients. <i>Journal of Personality Assessment</i> , 1998, 71, 349-367.	2.1	147
18	Human Bocavirus Infections in Hospitalized Children and Adults. <i>Emerging Infectious Diseases</i> , 2008, 14, 217-221.	4.3	139

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19	Multiplex Real-Time PCR Assay for Detection of Influenza and Human Respiratory Syncytial Viruses. <i>Journal of Clinical Microbiology</i> , 2004, 42, 45-51.	3.9	136
20	Multiplex PCR assays for the detection of clinically relevant antibiotic resistance genes in staphylococci isolated from patients infected after cardiac surgery. <i>Journal of Antimicrobial Chemotherapy</i> , 2000, 46, 527-534.	3.0	132
21	Identification of Methicillin-Resistant <i>Staphylococcus aureus</i> Carriage in Less than 1 Hour during a Hospital Surveillance Program. <i>Clinical Infectious Diseases</i> , 2005, 40, 976-981.	5.8	128
22	Rapid molecular theranostics in infectious diseases. <i>Drug Discovery Today</i> , 2002, 7, 1092-1101.	6.4	120
23	Role of Chemokines and Formyl Peptides in Pneumococcal Pneumonia-Induced Monocyte/Macrophage Recruitment. <i>Journal of Immunology</i> , 2001, 166, 7353-7361.	0.8	107
24	Analytical comparison of nine PCR primer sets designed to detect the presence of <i>Escherichia coli</i> / <i>Shigella</i> in water samples. <i>Water Research</i> , 2009, 43, 3019-3028.	11.3	104
25	Microfluidic Device for Rapid (<15 min) Automated Microarray Hybridization. <i>Clinical Chemistry</i> , 2005, 51, 1836-1844.	3.2	103
26	Use of tuf Sequences for Genus-Specific PCR Detection and Phylogenetic Analysis of 28 Streptococcal Species. <i>Journal of Clinical Microbiology</i> , 2004, 42, 3686-3695.	3.9	102
27	Rapid Detection of Shiga Toxin-Producing Bacteria in Feces by Multiplex PCR with Molecular Beacons on the Smart Cycler. <i>Journal of Clinical Microbiology</i> , 2002, 40, 1436-1440.	3.9	89
28	Distribution and Clinical Impact of Human Respiratory Syncytial Virus Genotypes in Hospitalized Children over 2 Winter Seasons. <i>Journal of Infectious Diseases</i> , 2006, 193, 54-58.	4.0	87
29	Preventing Antibiotic Resistance through Rapid Genotypic Identification of Bacteria and of Their Antibiotic Resistance Genes in the Clinical Microbiology Laboratory. <i>Journal of Clinical Microbiology</i> , 1998, 36, 2169-2172.	3.9	77
30	Infection with Human Metapneumovirus Predisposes Mice to Severe Pneumococcal Pneumonia. <i>Journal of Virology</i> , 2009, 83, 1341-1349.	3.4	72
31	Detection of target DNA using fluorescent cationic polymer and peptide nucleic acid probes on solid support. <i>BMC Biotechnology</i> , 2005, 5, 10.	3.3	59
32	Next revolution in the molecular theranostics of infectious diseases: microfabricated systems for personalized medicine. <i>Expert Review of Molecular Diagnostics</i> , 2006, 6, 433-450.	3.1	50
33	Infectious Disease Management through Point-of-Care Personalized Medicine Molecular Diagnostic Technologies. <i>Journal of Personalized Medicine</i> , 2012, 2, 50-70.	2.5	50
34	Evidence for Horizontal Gene Transfer in Evolution of Elongation Factor Tu in Enterococci. <i>Journal of Bacteriology</i> , 2000, 182, 6913-6920.	2.2	48
35	A proteomic analysis of penicillin resistance in <i>Streptococcus pneumoniae</i> reveals a novel role for PstS, a subunit of the phosphate ABC transporter. <i>Molecular Microbiology</i> , 2005, 58, 1430-1440.	2.5	43
36	Partial recovery of microbiomes after antibiotic treatment. <i>Gut Microbes</i> , 2016, 7, 428-434.	9.8	43

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37	Development of a Rapid PCR Assay Specific for <i>Staphylococcus saprophyticus</i> and Application to Direct Detection from Urine Samples. <i>Journal of Clinical Microbiology</i> , 2000, 38, 3280-3284.	3.9	41
38	Correlation between microarray DNA hybridization efficiency and the position of short capture probe on the target nucleic acid. <i>BioTechniques</i> , 2005, 39, 89-96.	1.8	41
39	Genetic diversity and molecular evolution of the major human metapneumovirus surface glycoproteins over a decade. <i>Journal of Clinical Virology</i> , 2013, 58, 541-547.	3.1	41
40	Pulmonary and Systemic Host Response to <i>Streptococcus pneumoniae</i> and <i>Klebsiella pneumoniae</i> Bacteremia in Normal and Immunosuppressed Mice. <i>Infection and Immunity</i> , 2001, 69, 5294-5304.	2.2	38
41	Isothermal Recombinase Polymerase Amplification Assay Applied to the Detection of Group B Streptococci in Vaginal/Anal Samples. <i>Clinical Chemistry</i> , 2014, 60, 660-666.	3.2	37
42	Molecular Method for Detection of Total Coliforms in Drinking Water Samples. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4074-4084.	3.1	37
43	Infections by Human Coronavirus-NL in Hospitalized Children. <i>Pediatric Infectious Disease Journal</i> , 2005, 24, 1045-1048.	2.0	35
44	Pathogenesis of Pneumococcal Pneumonia in Cyclophosphamide-Induced Leukopenia in Mice. <i>Infection and Immunity</i> , 2002, 70, 4226-4238.	2.2	33
45	Specific Magnetic Bead-Based Capture of Genomic DNA from Clinical Samples: Application to the Detection of Group B Streptococci in Vaginal/Anal Swabs. <i>Clinical Chemistry</i> , 2007, 53, 1570-1576.	3.2	33
46	Method for rapid and sensitive detection of <i>Enterococcus</i> sp. and <i>Enterococcus faecalis/faecium</i> cells in potable water samples. <i>Water Research</i> , 2011, 45, 2342-2354.	11.3	33
47	Toward rapid real-time molecular diagnostic to guide smart use of antimicrobials. <i>Current Opinion in Microbiology</i> , 2002, 5, 478-482.	5.1	32
48	Amplification Strategy Using Aggregates of Ferrocene-Containing Cationic Polythiophene for Sensitive and Specific Electrochemical Detection of DNA. <i>Analytical Chemistry</i> , 2011, 83, 8086-8092.	6.5	32
49	Title is missing!. <i>AIDS and Behavior</i> , 1999, 3, 167-175.	2.7	31
50	Ceftriaxone pharmacokinetics in interleukin-10-treated murine pneumococcal pneumonia. <i>Journal of Antimicrobial Chemotherapy</i> , 2005, 55, 721-726.	3.0	29
51	Immunomodulating Effects of HMR 3004 on Pulmonary Inflammation Caused by Heat-Killed <i>Streptococcus pneumoniae</i> in Mice. <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 3309-3312.	3.2	28
52	Differential Contribution of Bacterial N-Formyl-Methionyl-Leucyl- Phenylalanine and Host-Derived CXC Chemokines to Neutrophil Infiltration into Pulmonary Alveoli during Murine Pneumococcal Pneumonia. <i>Infection and Immunity</i> , 2007, 75, 5361-5367.	2.2	27
53	Polythiophene Biosensor for Rapid Detection of Microbial Particles in Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4544-4548.	8.0	26
54	Kinetic Study of the Inflammatory Response in <i>Streptococcus pneumoniae</i> Experimental Pneumonia Treated with the Ketolide HMR 3004. <i>Antimicrobial Agents and Chemotherapy</i> , 2001, 45, 252-262.	3.2	24

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55	Portable devices and mobile instruments for infectious diseases point-of-care testing. Expert Review of Molecular Diagnostics, 2017, 17, 471-494.	3.1	23
56	Culture-enriched human gut microbiomes reveal core and accessory resistance genes. Microbiome, 2019, 7, 56.	11.1	23
57	Superparamagnetic Nanoparticle~Polystyrene Bead Conjugates as Pathogen Capture Mimics: A Parametric Study of Factors Affecting Capture Efficiency and Specificity. Langmuir, 2008, 24, 3493-3502.	3.5	22
58	Divergence among Genes Encoding the Elongation Factor Tu of <i>Yersinia</i> Species. Journal of Bacteriology, 2008, 190, 7548-7558.	2.2	22
59	The GenePOC Platform, a Rational Solution for Extreme Point-of-Care Testing. Micromachines, 2016, 7, 94.	2.9	22
60	A low-cost, disposable card for rapid polymerase chain reaction. Colloids and Surfaces B: Biointerfaces, 2007, 58, 52-60.	5.0	21
61	Immunomodulation of Pneumococcal Pulmonary Infection with <i>N<sup>G</sup>-Monomethyl-L-Arginine</i> . Antimicrobial Agents and Chemotherapy, 1999, 43, 2283-2290.	3.2	20
62	Real-Time PCR Assay for Detection of Fluoroquinolone Resistance Associated with <i>grlA</i> Mutations in <i>Staphylococcus aureus</i> . Journal of Clinical Microbiology, 2003, 41, 3246-3251.	3.9	20
63	Analytical limits of three $\beta$ -glucosidase-based commercial culture methods used in environmental microbiology, to detect enterococci. Water Science and Technology, 2009, 60, 943-955.	2.5	20
64	Reduction by Cefodizime of the Pulmonary Inflammatory Response Induced by Heat-Killed <i>Streptococcus pneumoniae</i> in Mice. Antimicrobial Agents and Chemotherapy, 1998, 42, 2527-2533.	3.2	18
65	CSCI/RCPSC HENRY FRIESEN LECTURE: Revolutionizing the practice of medicine through rapid (< 1h) DNA-based diagnostics. Clinical and Investigative Medicine, 2008, 31, 265.	0.6	18
66	Influence of Cefodizime on Pulmonary Inflammatory Response to Heat-Killed <i>Klebsiella pneumoniae</i> in Mice. Antimicrobial Agents and Chemotherapy, 1999, 43, 2291-2294.	3.2	17
67	Preventing Antibiotic Resistance Using Rapid DNA-Based Diagnostic Tests. Infection Control and Hospital Epidemiology, 1998, 19, 560-564.	1.8	16
68	A Sensitive and Accurate Recombinase Polymerase Amplification Assay for Detection of the Primary Bacterial Pathogens Causing Bovine Respiratory Disease. Frontiers in Veterinary Science, 2020, 7, 208.	2.2	16
69	Impact of DNA Sequence and Oligonucleotide Length on a Polythiophene-Based Fluorescent DNA Biosensor. Macromolecular Bioscience, 2013, 13, 717-722.	4.1	15
70	In Vivo Activity and Pharmacokinetics of Ziracin (SCH27899), a New Long-Acting Everninomicin Antibiotic, in a Murine Model of Penicillin-Susceptible or Penicillin-Resistant Pneumococcal Pneumonia. Antimicrobial Agents and Chemotherapy, 2000, 44, 1010-1018.	3.2	14
71	Development of a species-specific DNA probe for <i>Moraxella (Branhamella) catarrhalis</i> . Molecular and Cellular Probes, 1991, 5, 37-48.	2.1	11
72	Method for isolation of both lactose-fermenting and " non-fermenting <i>Escherichia albertii</i> strains from stool samples. Journal of Microbiological Methods, 2018, 154, 134-140.	1.6	11

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73	Comparative analysis of classical and molecular microbiology methods for the detection of <i>Escherichia coli</i> and <i>Enterococcus</i> spp. in well water. <i>Journal of Environmental Monitoring</i> , 2012, 14, 2983.	2.1	8
74	Genetic tools for the simultaneous identification of bacterial species and their antibiotic resistance genes: impact on clinical practice. <i>International Journal of Antimicrobial Agents</i> , 2000, 16, 1-3.	2.5	7
75	POC Tests in Microbial Diagnostics. <i>Methods in Microbiology</i> , 2015, 42, 87-110.	0.8	7
76	NEW DNA-BASED PCR APPROACHES FOR RAPID REAL-TIME DETECTION AND PREVENTION OF GROUP B STREPTOCOCCAL INFECTIONS IN NEWBORNS AND PREGNANT WOMEN. <i>Reproductive Medicine Review</i> , 2003, 11, 25-41.	0.3	5
77	Real-time monitoring of bead-based DNA hybridization in a microfluidic system: study of amplicon hybridization behavior on solid supports. <i>Analyst, The</i> , 2021, 146, 4226-4234.	3.5	4
78	New molecular technologies against infectious diseases during space flight. <i>Acta Astronautica</i> , 2008, 63, 769-775.	3.2	3
79	The requirements and challenges of a mobile laboratory for onsite water microbiology assessment. <i>Water Practice and Technology</i> , 2016, 11, 198-209.	2.0	3
80	Use of phylogenetical analysis to predict susceptibility of pathogenic <i>Candida</i> spp. to antifungal drugs. <i>Journal of Microbiological Methods</i> , 2016, 131, 51-60.	1.6	1
81	Rapid Detection of Group B Streptococci Using the LightCycler Instrument. , 2002, , 107-114.		1
82	Bacterial Genotypic Drug Resistance Assays. , 2017, , 1465-1499.		1
83	Rapid molecular identification of fecal origin-colonies growing on <i>Enterococcus</i> spp.-specific culture methods. <i>Journal of Water and Health</i> , 2017, 15, 239-250.	2.6	0
84	PULMONARY INFECTIONS IN THE IMMUNOCOMPROMISED HOST. , 2008, , 583-596.		0