

Maurice Boissinot

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

4,948
citations

136950

32
h-index

91884

69
g-index

85
all docs

85
docs citations

85
times ranked

6309
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Real-time monitoring of bead-based DNA hybridization in a microfluidic system: study of amplicon hybridization behavior on solid supports. <i>Analyst</i> , The, 2021, 146, 4226-4234. | 3.5 | 4 |
| 2 | A Sensitive and Accurate Recombinase Polymerase Amplification Assay for Detection of the Primary Bacterial Pathogens Causing Bovine Respiratory Disease. <i>Frontiers in Veterinary Science</i> , 2020, 7, 208. | 2.2 | 16 |
| 3 | Fast and Accurate Bacterial Species Identification in Urine Specimens Using LC-MS/MS Mass Spectrometry and Machine Learning*. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 2492-2505. | 3.8 | 42 |
| 4 | Culture-enriched human gut microbiomes reveal core and accessory resistance genes. <i>Microbiome</i> , 2019, 7, 56. | 11.1 | 23 |
| 5 | “Researcher for a Day” Creating and Shaping a New Generation of Scientific and Medical Researchers. <i>Journal of Microbiology and Biology Education</i> , 2019, 20, . | 1.0 | 0 |
| 6 | <i>Criobacterium bergeronii</i> gen. nov., sp. nov., a new member of the family Peptostreptococcaceae, isolated from human clinical samples. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 71, . | 1.7 | 9 |
| 7 | Empowerment of Women: Closing the Medical Technologies Gender Gap. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2018, 40, 78-83. | 0.7 | 3 |
| 8 | Method for isolation of both lactose-fermenting and “ non-fermenting <i>Escherichia albertii</i> strains from stool samples. <i>Journal of Microbiological Methods</i> , 2018, 154, 134-140. | 1.6 | 11 |
| 9 | Draft Genome Sequence of <i>Romboutsia weinsteini</i> sp. nov. Strain CCRI-19649 T Isolated from Surface Water. <i>Genome Announcements</i> , 2017, 5, . | 0.8 | 8 |
| 10 | Draft Genome Sequence of <i>Romboutsia maritimum</i> sp. nov. Strain CCRI-22766 T , Isolated from Coastal Estuarine Mud. <i>Genome Announcements</i> , 2017, 5, . | 0.8 | 3 |
| 11 | Draft Genome Sequence of a Sporulating and Motile Strain of <i>Lachnotalea glycerini</i> Isolated from Water in Québec City, Canada. <i>Genome Announcements</i> , 2017, 5, . | 0.8 | 0 |
| 12 | Draft Genome Sequence of <i>Criobacterium bergeronii</i> gen. nov., sp. nov., Strain CCRI-22567 T , Isolated from a Vaginal Sample from a Woman with Bacterial Vaginosis. <i>Genome Announcements</i> , 2016, 4, . | 0.8 | 2 |
| 13 | 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 |
| 14 | Recombinase Polymerase Amplification for Diagnostic Applications. <i>Clinical Chemistry</i> , 2016, 62, 947-958. | 3.2 | 457 |
| 15 | 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 |
| 16 | Partial recovery of microbiomes after antibiotic treatment. <i>Gut Microbes</i> , 2016, 7, 428-434. | 9.8 | 43 |
| 17 | Cost-effectiveness analysis of antiviral treatment in the management of seasonal influenza A: point-of-care rapid test versus clinical judgment. <i>Influenza and Other Respiratory Viruses</i> , 2016, 10, 113-121. | 3.4 | 10 |
| 18 | The initial state of the human gut microbiome determines its reshaping by antibiotics. <i>ISME Journal</i> , 2016, 10, 707-720. | 9.8 | 251 |

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|----|--|------|-----------|
| 19 | Michel G Bergeron "MGB" a True Success. Canadian Journal of Infectious Diseases and Medical Microbiology, 2015, 26, 287-288. | 1.9 | 3 |
| 20 | From cellular lysis to microarray detection, an integrated thermoplastic elastomer (TPE) point of care Lab on a Disc. Lab on A Chip, 2015, 15, 406-416. | 6.0 | 69 |
| 21 | Influence of sequence mismatches on the specificity of recombinase polymerase amplification technology. Molecular and Cellular Probes, 2015, 29, 116-121. | 2.1 | 143 |
| 22 | Structured oligonucleotides for target indexing to allow single-vessel PCR amplification and solid support microarray hybridization. Analyst, The, 2015, 140, 912-921. | 3.5 | 5 |
| 23 | Dielectric resonating microspheres for biosensing: An optical approach to a biological problem. American Journal of Physics, 2014, 82, 510-520. | 0.7 | 4 |
| 24 | Isothermal Recombinase Polymerase Amplification Assay Applied to the Detection of Group B Streptococci in Vaginal/Anal Samples. Clinical Chemistry, 2014, 60, 660-666. | 3.2 | 37 |
| 25 | Portable bead-based fluorescence detection system for multiplex nucleic acid testing: a case study with Bacillus anthracis. Microfluidics and Nanofluidics, 2014, 16, 1075-1087. | 2.2 | 8 |
| 26 | Abilities of the mCP Agar Method and CRENAME Alpha Toxin-Specific Real-Time PCR Assay To Detect Clostridium perfringens Spores in Drinking Water. Applied and Environmental Microbiology, 2013, 79, 7654-7661. | 3.1 | 16 |
| 27 | Impact of DNA Sequence and Oligonucleotide Length on a Polythiophene-Based Fluorescent DNA Biosensor. Macromolecular Bioscience, 2013, 13, 717-722. | 4.1 | 15 |
| 28 | Differentiation Between Analyte Adsorption and Homogenous Index Sensing in WGM Biodetection. IEEE Sensors Journal, 2013, 13, 229-233. | 4.7 | 6 |
| 29 | Rapid Filtration Separation-Based Sample Preparation Method for Bacillus Spores in Powdery and Environmental Matrices. Applied and Environmental Microbiology, 2012, 78, 1505-1512. | 3.1 | 13 |
| 30 | Enterococcus ureasiticus sp. nov. and Enterococcus quebecensis sp. nov., isolated from water. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1314-1320. | 1.7 | 37 |
| 31 | Comparative analysis of classical and molecular microbiology methods for the detection of Escherichia coli and Enterococcus spp. in well water. Journal of Environmental Monitoring, 2012, 14, 2983. | 2.1 | 8 |
| 32 | Development of a real-time PCR assay for the specific detection and identification of Streptococcus pseudopneumoniae using the recA gene. Clinical Microbiology and Infection, 2012, 18, 1089-1096. | 6.0 | 19 |
| 33 | Identification of Thermophilic Bacterial Strains Producing Thermotolerant Hydrolytic Enzymes from Manure Compost. Indian Journal of Microbiology, 2012, 52, 41-47. | 2.7 | 34 |
| 34 | The development of a silica nanoparticle-based label-free DNA biosensor. Nanoscale, 2011, 3, 3747. | 5.6 | 14 |
| 35 | Rapid Concentration and Molecular Enrichment Approach for Sensitive Detection of Escherichia coli and Shigella Species in Potable Water Samples. Applied and Environmental Microbiology, 2011, 77, 6199-6207. | 3.1 | 54 |
| 36 | Method for rapid and sensitive detection of Enterococcus sp. and Enterococcus faecalis/faecium cells in potable water samples. Water Research, 2011, 45, 2342-2354. | 11.3 | 33 |

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|----|---|------|-----------|
| 37 | Ability of three DNA-based assays to identify presumptive <i>Escherichia coli</i> colonies isolated from water by the culture-based mFC agar method. <i>Water Research</i> , 2011, 45, 2638-2646. | 11.3 | 10 |
| 38 | Extraction of nucleic acids from bacterial spores using bead-based mechanical lysis on a plastic chip. <i>Engineering in Life Sciences</i> , 2011, 11, 174-181. | 3.6 | 9 |
| 39 | Toward Automatic Label-Free Whispering Gallery Modes Biodetection with a Quantum Dot-Coated Microsphere Population. <i>Nanoscale Research Letters</i> , 2010, 5, 524-532. | 5.7 | 33 |
| 40 | Internal Control for Nucleic Acid Testing Based on the Use of Purified <i>Bacillus atrophaeus</i> subsp. <i>globigii</i> Spores. <i>Journal of Clinical Microbiology</i> , 2009, 47, 751-757. | 3.9 | 34 |
| 41 | <i>Clostridium lavalense</i> sp. nov., a glycopeptide-resistant species isolated from human faeces. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2009, 59, 498-503. | 1.7 | 45 |
| 42 | Analytical limits of three β -glucosidase-based commercial culture methods used in environmental microbiology, to detect enterococci. <i>Water Science and Technology</i> , 2009, 60, 943-955. | 2.5 | 20 |
| 43 | Evolutionary relationships among salivarius streptococci as inferred from multilocus phylogenies based on 16S rRNA-encoding, <i>recA</i> , <i>secA</i> , and <i>secY</i> gene sequences. <i>BMC Microbiology</i> , 2009, 9, 232. | 3.3 | 15 |
| 44 | 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 |
| 45 | Onsite Microbiological Quality Monitoring of Raw Source Water in Cree Community of Mistissini. <i>Water Quality Research Journal of Canada</i> , 2009, 44, 345-354. | 2.7 | 10 |
| 46 | Subcutaneous injection of <i>Mycobacterium ulcerans</i> causes necrosis, chronic inflammatory response and fibrosis in skeletal muscle. <i>Microbes and Infection</i> , 2008, 10, 1236-1243. | 1.9 | 10 |
| 47 | 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 |
| 48 | Analytical limits of four β -glucuronidase and β -galactosidase-based commercial culture methods used to detect <i>Escherichia coli</i> and total coliforms. <i>Journal of Microbiological Methods</i> , 2008, 75, 506-514. | 1.6 | 41 |
| 49 | <i>Ruminococcus gauvreauii</i> sp. nov., a glycopeptide-resistant species isolated from a human faecal specimen. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008, 58, 1393-1397. | 1.7 | 62 |
| 50 | Divergence among Genes Encoding the Elongation Factor Tu of <i>Yersinia</i> Species. <i>Journal of Bacteriology</i> , 2008, 190, 7548-7558. | 2.2 | 22 |
| 51 | Rapid Exonuclease Digestion of PCR-Amplified Targets for Improved Microarray Hybridization. <i>Clinical Chemistry</i> , 2007, 53, 2020-2023. | 3.2 | 17 |
| 52 | 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 |
| 53 | Cloning and characterization of the <i>groE</i> locus from <i>Actinobacillus pleuropneumoniae</i> . <i>FEMS Microbiology Letters</i> , 2006, 147, 11-16. | 1.8 | 4 |
| 54 | Rapid and automated sample preparation for nucleic acid extraction on a microfluidic CD (compact) Tj ETQq0 0 0 rgBT /Overlçck 10 Tf 5 | | |

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|----|---|------|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | Phylogeny of the Enterobacteriaceae based on genes encoding elongation factor Tu and F-ATPase β -subunit. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 2013-2025. | 1.7 | 97 |
| 58 | Microfluidic Device for Rapid (<15 min) Automated Microarray Hybridization. <i>Clinical Chemistry</i> , 2005, 51, 1836-1844. | 3.2 | 103 |
| 59 | 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 |
| 60 | 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 |
| 61 | Saving vital time in the war on drug resistance. <i>Nature</i> , 2004, 430, 141-141. | 27.8 | 0 |
| 62 | 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 |
| 63 | DNA-Sensors Using a Water-Soluble, Cationic Poly(thiophene) Derivative. <i>ACS Symposium Series</i> , 2004, , 359-367. | 0.5 | 5 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | Colorimetric and Fluorometric Detection of Nucleic Acids Using Cationic Polythiophene Derivatives. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1548-1551. | 13.8 | 472 |
| 68 | Novel Genus-Specific PCR-Based Assays for Rapid Identification of <i>Neisseria</i> Species and <i>Neisseria meningitidis</i> . <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2000, 19, 443-451. | 2.9 | 19 |
| 69 | 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 |
| 70 | 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 |
| 71 | Cloning and characterization of the groE locus from <i>Actinobacillus pleuropneumoniae</i> . <i>FEMS Microbiology Letters</i> , 1997, 147, 11-16. | 1.8 | 7 |
| 72 | CD4 deletion mutants evaluated for human immunodeficiency virus type 1 infectivity in a highly efficient system of expression and detection based on LTR-dependent reporter gene activation. <i>Journal of Virological Methods</i> , 1997, 65, 209-217. | 2.1 | 4 |

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|----|---|-----|-----------|
| 73 | Function of the Greek key connection analysed using circular permutants of superoxide dismutase. EMBO Journal, 1997, 16, 2171-2178. | 7.8 | 33 |
| 74 | Human Mitochondrial Manganese Superoxide Dismutase Polymorphic Variant Ile58Thr Reduces Activity by Destabilizing the Tetrameric Interface. Biochemistry, 1996, 35, 4287-4297. | 2.5 | 173 |
| 75 | Sulfobacillus disulfidooxidans sp. nov., a New Acidophilic, Disulfide-Oxidizing, Gram-Positive, Spore-Forming Bacterium. International Journal of Systematic Bacteriology, 1996, 46, 1056-1064. | 2.8 | 90 |
| 76 | Complete Chemical Structure of Photoactive Yellow Protein: Novel Thioester-Linked 4-Hydroxycinnamyl Chromophore and Photocycle Chemistry. Biochemistry, 1994, 33, 14369-14377. | 2.5 | 299 |
| 77 | Rational Design and Expression of a Heparin-Targeted Human Superoxide Dismutase. Biochemical and Biophysical Research Communications, 1993, 190, 250-256. | 2.1 | 25 |
| 78 | Structural and functional characterization of tnpl, a recombinase locus in Tn21 and related beta-lactamase transposons. Journal of Bacteriology, 1990, 172, 3745-3757. | 2.2 | 47 |
| 79 | Development of gene probes and evolutionary relationships of the PSE-4 bla gene to plasmid-mediated beta-lactamases of gram-negative bacteria. Molecular and Cellular Probes, 1989, 3, 179-188. | 2.1 | 5 |
| 80 | Development of natural and synthetic DNA probes for OXA-2 and TEM-1 beta-lactamases. Antimicrobial Agents and Chemotherapy, 1987, 31, 728-734. | 3.2 | 27 |
| 81 | Antigenic variability of the outer membrane antigens of <i>Legionella pneumophila</i> serogroups 1 to 8. Canadian Journal of Microbiology, 1987, 33, 607-613. | 1.7 | 5 |
| 82 | Ecological distribution of Legionellaceae in the Quebec city area. Canadian Journal of Microbiology, 1984, 30, 63-67. | 1.7 | 26 |