

Multiplexed Waterborne Pathogen Detection Using DNA Microarrays

Subject Area:
High-Quality Water

Multiplexed Waterborne Pathogen Detection Using Dna Microarrays

Challa S. S. R. Kumar



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Multiplexed Waterborne Pathogen Detection Using DNA Microarrays Timothy M. Straub, 2006 The water treatment industry has a long term research interest in using molecular biology techniques for the identification of potential pathogens in drinking water supplies The primary objective of this research was to develop deeply multiplexed hybridization assays to simultaneously detect different pathogen groups in water

Waterborne Pathogens American Water Works Association, 2006 Updated from the 1999 edition this manual provides critical information regarding waterborne viral bacterial and parasitic pathogens Each pathogen is described along with its health effects and water treatment techniques for destroying the pathogens Also covered are cross connection control dead end flushing and hydrant flushing This manual is intended for water operators engineers water quality personnel and students to learn how to monitor sample and test waters for pathogens optimize treatment plant performance and maintain high water quality standards Updated from the 1999 edition this manual provides critical information regarding waterborne viral bacterial and parasitic pathogens Each pathogen is described along with its health effects and water treatment techniques for destroying the pathogens Also covered are cross connection control dead end flushing and hydrant flushing This manual is intended for water operators engineers water quality personnel and students to learn how to monitor sample and test waters for pathogens optimize treatment plant performance and maintain high water quality standards

Waterborne Pathogens AWWA Staff, 2006

Detection of Pathogens in Water Using Micro and Nano-Technology Giampaolo Zuccheri, Nikolaos Asproulis, 2012-08-14 Detection of Pathogens in Water Using Micro and Nano Technology aims to promote the uptake of innovative micro and nano technological approaches towards the development of an integrated cost effective nano biological sensor useful for security and environmental assays The book describes the concerted efforts of a large European research project and the achievements of additional leading research groups The reported knowledge and expertise should support in the innovation and integration of often separated unitary processes Sampling cell lysis and DNA RNA extraction DNA hybridisation detection micro and nanosensors microfluidics together also with computational modelling and risk assessment can be integrated in the framework of the current and evolving European regulations and needs The development and uptake of molecular methods is revolutionizing the field of waterborne pathogens detection commonly performed with time consuming cultural methods The molecular detection methods are enabling the development of integrated instruments based on biosensor that will ultimately automate the full pathway of the microbiological analysis of water Editors Giampaolo Zuccheri University of Bologna Italy and Nikolaos Asproulis Cranfield University UK

[Modern Techniques for Pathogen Detection](#) Jürgen Popp, Michael Bauer, 2015-03-02 Dieses herausragende Fachbuch setzt neue Maßstäbe für ein Methodenbuch im Bereich der Pathogenerkennung Im ersten Kapitel werden aktuelle Standardmethoden vorgestellt mit Hintergrundinformationen Stärken und Schwächen der einzelnen Verfahren sowie einem Vergleich mit neuen Methoden Die

nachfolgenden Kapitel beschreiben neue Methoden die zwar bereits weit verbreitet f r Routineuntersuchungen aber noch nicht ausgereift genug sind Ein wertvolles Referenzwerk f r alle medizinischen Labors und Klinikeinrichtungen die sich mit Infektionskrankheiten besch ftigen

Waterborne Pathogens Helen Bridle,2020-10-06 Waterborne Pathogens Detection Methods and Applications Second Edition gives an overview of advanced and emerging technologies in the detection of a range of waterborne pathogens In addition the book presents existing methodologies highlights where improvements can be made includes applications and touches on the ways in which new technologies can be applied in water management Finally the book addresses issues of sample preparation from sampling to concentration and enrichment a key stage in any detection protocol Gives an overview of advanced emerging technologies in the detection of a range of waterborne pathogens Ensures the latest research developments along with other changes in the sector e g regulations and approaches are current Provides an overview of the existing approaches and key challenges before discussing sample processing and detection Presents existing methodologies and highlights where improvements can be made

Raman Spectroscopy for Nanomaterials Characterization Challa S.S.R. Kumar,2012-03-30 First volume of a 40 volume series on nanoscience and nanotechnology edited by the renowned scientist Challa S S R Kumar This handbook gives a comprehensive overview about Raman spectroscopy for the characterization of nanomaterials Modern applications and state of the art techniques are covered and make this volume essential reading for research scientists in academia and industry

High-level antimicrobial resistance or hypervirulence in emerging and re-emerging "super-bug" foodborne pathogens: Detection, mechanism, and dissemination from omics insights Yujie Hu,Wei Wang,Guerrino Macori,Scott Van Nguyen,Fengqin Li,Séamus Fanning,2024-09-30 With the expansion of the breeding production scale and the development of the food industry the prevalence of foodborne pathogens and subsequent problems including food poisoning and antimicrobial resistance AMR contribute much to the global disease burden leading to the serious health hazard and major economic losses around the world and foodborne disease has become one of the most challenging issues to public health The most common pathogens spreading foodborne diseases in humans include but are not limited to Salmonella Campylobacter Clostridium Cronobacter pathogenic Escherichia coli Listeria monocytogenes Staphylococcus aureus Vibrio parahaemolyticus Bacillus cereus Yersinia enterocolitica etc These pathogens contaminate various types of foods throughout the food chain including cereal vegetable fruit meat dairy and aquatic products in entire proceedings from farmland to fork and disseminate AMR and virulence In this process some clinically important antimicrobial resistant pathogens such as carbapenem resistant Enterobacteriaceae CRE methicillin resistant Staphylococcus aureus MRSA vancomycin resistant Enterococcus VRE colistin resistant or tigecycline resistant bacteria have spread so quickly that they could be found emerging in clinical hospitals agricultural farmlands foods food animals environments and also humans animals guts in the meantime super bug foodborne pathogens with high level AMR or hypervirulence has been disclosed emerging or re emerging in more and more publications Omics techniques including

genomics proteomics transcriptomics and metabonomics have greatly improved our understanding of the mechanisms of foodborne pathogens in terms of their AMR and pathogenesis Simultaneously an integrated multi disciplinary One Health approach has been used for widespread and sustained surveillance of foodborne pathogens based on a multi sectoral collaboration framework to mitigate and prevent the threats of pathogens of animal human environment and food origins Though a large number of foodborne pathogen isolates were collected with unfolded phenotypic characteristics as the phase goals for surveillance work it is still far from clearly exploring how many super bugs there were why they were so resistant or hypervirulent where they came from how they disseminated how the mechanisms transmitted and evolved and what the potential hazards were etc We need more intensive and compelling evidence explanation and interpretation This Research Topic aims to provide a platform for recent discoveries and the latest progress in detection mechanism and dissemination from Omics insights with regards to the emerging or re emerging foodborne pathogens with high level AMR Multi drug resistant Extensively drug resistant Pan drug resistant MDR XDR PDR or hypervirulence to increase the understanding of these superbugs to track their sources to discover the mechanisms that make them super and to uncover the dissemination along the animal food human chain based on big data and to assess the human health risks by uptaking them Emergence mechanism and dissemination of them via the food chain by using the application of Omics based technologies would be of particular interest for this topic This Research Topic welcomes authors worldwide to contribute any article types like Original Research Review 2 Mechanisms especially novel mechanisms explanation exploration or drug target development using Omics based technologies and bioinformatics analysis 3 Regionally or global dissemination of super bug foodborne pathogen clones or relevant determinants especially mobile genetic elements MGEs 4 Current advances in the novel and instant detection method models or method comparison report for the pathogenicity phenotype of the foodborne pathogens 5 Any pathogen disease prevention control and clinical treatment management developed to oppose the super bug foodborne pathogen like the gut microbiota approach etc Please note that Frontiers in Microbiology does not accept Case Reports Clinical Trials and Systematic Reviews hence Frontiers in Public Health is a better option Conflict of Interest Dr Scott Van Nguyen works for ATCC All other topic editors declare no conflict of interest

Molecular Detection of Foodborne Pathogens Dongyou Liu, 2009-07-28 While the vast majority of our food supplies are nutritious and safe foodborne pathogen related illness still affects millions of people each year Large outbreaks of foodborne diseases such as the recent salmonella outbreak linked to various peanut butter products continue to be reported with alarming frequency All Encompassing Guide to Detecti

Manual of Environmental Microbiology Cindy H. Nakatsu, Robert V. Miller, Suresh D. Pillai, 2020-08-11 The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly

updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community Specifically this new edition of the Manual Contains completely new sections covering microbial risk assessment quality control and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology

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