



# **Multiplexed Waterborne Pathogen Detection Using DNA Microarrays**

Subject Area:  
High-Quality Water

# Multiplexed Waterborne Pathogen Detection Using Dna Microarrays

**A Loxley**

## **Multiplexed Waterborne Pathogen Detection Using Dna Microarrays:**

**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 *Modern Techniques for Pathogen Detection* Jürgen Popp,Michael Bauer,2015-06-08 This outstanding overview sets a new standard for a methods book on pathogen detection The first chapter provides an outline of currently used routine methods including their background strengths and weaknesses as well as comparing them to newer methods The following chapters then cover novel methods already in wide use and which are still more experimental for routine purposes An invaluable resource for all medical laboratories and clinical institutions dealing with infectious diseases *Detection, characterization, and management of plant pathogens* Islam Hamim,Brent Sipes,Yanan Wang,2024-02-20 Plant pathogens cause significant economic losses and endanger agricultural sustainability The emergence of new plant diseases is caused primarily by international trade climate change and pathogens ability to evolve quickly Rapid and accurate identification of plant pathogens is critical for disease management The diversity and distribution of plant pathogens on the other hand can significantly impede disease management and diagnostic efforts Plant pathogens employ a number of strategies that result in diversity transmission and host adaptation Plant pathogens have been observed interacting with a wide range of host species such as plants endophytes insects pollinators and other plant pathogens However the transmission and evolution of plant pathogens in hosts as well as the impact of pathogens on different hosts are often unknown

*Raman Spectroscopy for Nanomaterials Characterization* Challa S. S. R. Kumar,2012-03-02 This handbook gives a comprehensive overview about Raman spectroscopy for the characterization of nanomaterials It is the first volume of a 40 volume series on nanoscience and nanotechnology edited by the renowned scientist Challa S S R Kumar *Development of Low-cost and Easy-to-use Tools for Multiplex Pathogen Detection* Dieter Maurice Tourlousse,2010 *Journal of Clinical Microbiology* ,2004 *Canadian Journal of Microbiology* ,2006

**Applied and Environmental Microbiology** ,2007 **Identification of Microorganisms by Mass Spectrometry** Charles L. Wilkins,Jackson O. Lay,2005-12-02 A multidisciplinary approach to understanding the fundamentals of mass spectrometry for bacterial analysis From chemotaxonomy to characterization of targeted proteins Identification of Microorganisms by Mass Spectrometry provides an overview of both well established and cutting edge mass spectrometry techniques for identifying microorganisms A vital tool for microbiologists health professionals and analytical chemists the text is designed to help scientists select the most effective techniques for use in biomedical biochemical pharmaceutical and bioterror defense applications Since microbiological applications of mass spectrometry require a basic understanding of both microbiology and analytical chemistry the editors have incorporated material from both disciplines so that readers from

either field will come to understand the necessary principles of the other. Featuring contributions from some of the most recognized experts in both fields this volume provides specific examples of fundamental methods as well as approaches developed in the last decade including Metastable atom bombardment pyrolysis mass spectrometry Matrix assisted laser desorption ionization mass spectrometry MALDI MALDI time of flight mass spectrometry MALDI TOF MS of intact bacteria High resolution Fourier transform mass spectrometry FTMS Electrospray ionization ESI mass spectrometry Identification of Microorganisms by Mass Spectrometry represents the most comprehensive and up to date work on the topic currently available It is liberally illustrated with figures and tables and covers every aspect of spectrometric identification of microorganisms including experimental procedures various means of sample preparation data analysis and interpretation of complex mass spectral data

**Abstracts of the ... General Meeting of the American Society for Microbiology**

American Society for Microbiology. General Meeting,2008 *Environmental Monitoring and Remediation III* Tuan Vo-Dinh,2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature Food Microbiology Research Trends ,2007 This book presents new and important research in the field of food microbiology Included in the scope are the following physiology genetics biochemistry and behaviour of micro organisms effects of preservatives processes and packaging systems on the microbiology of foods methods for detection identification and enumeration of food borne micro organisms or microbial toxins microbiology of food fermentations predictive microbiology microbial ecology of foods microbiological aspects of food safety and microbiological aspects of food spoilage and quality

**Handbook of Environmental Engineering** Rao Surampalli,Tian C. Zhang,Satinder Kaur

Brar,Krishnamoorthy Hegde,Rama Pulicharla,Mausam Verma,2018-08-24 A complete guide to environmental remediation technologies techniques and regulations This practical resource offers comprehensive coverage of the latest environmental codes alongside step by step remediation procedures The book features information on all segments of the market including water air quality and hazardous wastes and enables you to ensure compliance with federal regulations Handbook of Environmental Engineering fully explains engineering methods and technologies and directly connects them to applicable standards You will get details on environmental tools such as sensors and monitoring toxicity controls and treatments and waste disposal Measurement data environmental impact assessments and real world examples demonstrate how to apply each technique in the field

Chemical Abstracts ,2002 **Microarray Detection and Characterization of Bacterial**

**Foodborne Pathogens** Guillermo López-Campos,Joaquín V. Martínez-Suárez,Mónica Aguado-Urda,Victoria López-Alonso,2012-03-12 This is a review of recent advances on the use of DNA microarray for diagnosing foodborne pathogens Rapid detection and characterization of foodborne pathogens is critical for food safety Many relevant technologies

have been intensively developed to date DNA microarray technology offers a new way to food safety involving pathogen detection and characterization DNA microarray can be used for detection and characterization of pathogens by analyzing hybridization patterns between capture probes and nucleic acids isolated from food samples or bacteria It allows more rapid accurate and cost effective detection of pathogens compared with traditional approaches of cultivation or immuno assays The application of DNA microarrays to different foodborne bacteria such as *Campylobacter* *Salmonella* *Listeria monocytogenes* or *Shiga toxin* producing *Escherichia coli* will improve their rapid identification and characterization of their genetic traits e g antimicrobial resistance virulence As bacterial foodborne diseases are posing more serious threats to public healthcare development of rapid and accurate methods for pathogen detection and characterization is critical to their proper control at the earliest time

Application of DNA Microarray Technology for Wastewater Analysis Frédéric Berthiaume,2004 This report presents the results of a systematic effort to apply DNA microarrays to pathogen detection and to bacterial source tracking BST in wastewater

Analysis of Sensitivity and Rapid Hybridization of a Multiplexed Microbial Detection Microarray ,2014 Microarrays have proven to be useful in rapid detection of many viruses and bacteria Pathogen detection microarrays have been used to diagnose viral and bacterial infections in clinical samples and to evaluate the safety of biological drug materials A multiplexed version of the Lawrence Livermore Microbial Detection Array LLMDA was developed and evaluated with minimum detectable concentrations for pure unamplified DNA viruses along with mixtures of viral and bacterial DNA subjected to different whole genome amplification protocols In addition the performance of the array was tested when hybridization time was reduced from 17 h to 1 h The LLMDA was able to detect unamplified vaccinia virus DNA at a concentration of 14 fM or 100 000 genome copies in 12  $\mu$ L of sample With amplification positive identification was made with only 100 genome copies of input material When tested against human stool samples from patients with acute gastroenteritis the microarray detected common gastroenteritis viral and bacterial infections such as rotavirus and *E coli* Accurate detection was found but with a 4 fold drop in sensitivity for a 1 h compared to a 17 h hybridization The array detected 2 ng equivalent concentration of 15.6 fM of labeled DNA from a virus with 1 h hybridization without any amplification and was able to identify the components of a mixture of viruses and bacteria at species and in some cases strain level resolution Sensitivity improved by three orders of magnitude with random whole genome amplification prior to hybridization for instance the array detected a DNA virus with only 20 fg or 100 genome copies as input This multiplexed microarray is an efficient tool to analyze clinical and environmental samples for the presence of multiple viral and bacterial pathogens rapidly

Detection of Highly Dangerous Pathogens Tanja Kostic,Patrick Butaye,Jacques Schrenzel,2009-09 A comprehensive and up to date overview of microarray detection methods for highly dangerous BSL3 and BSL4 agents this is a must have for all laboratories working with these pathogens as well as public health agencies focused on bioterrorism

Publisher's summary Applying Genomic and Proteomic Microarray Technology in Drug Discovery, Second Edition Robert

S. Matson, 2013-03-13 Microarrays play an increasingly significant role in drug discovery The commercial landscape has changed dramatically over the past few years and researchers have made great advancements with regard to construction and use Now in its second edition Applying Genomic and Proteomic Microarray Technology in Drug Discovery highlights describes and evaluates current scientific research using microarray technology in genomic and proteomic applications Updated and revised to reflect recent progress in the field the second edition discusses Expanded omics driven applications including the areas of metabolomics and chemical biology The commercialization of the microarray platform with a historical perspective aimed at recognizing key technological developments Solid supports substrates and surface chemistries currently used in the creation of nucleic acid and protein microarrays Different approaches to producing microarrays that achieve spot equality with the same number of molecules properly oriented The development of the gene expression microarray and representative applications The development of protein microarray technology including its history and key applications Unique to this edition is a new chapter on multiplex assays that examines the development and applications of arrays across diverse platforms It discusses applications for qPCR multiplex lateral flow and multiplex bead assays It also presents platform to platform comparisons Microarrays remain an invaluable tool for omics based research not only in drug discovery but in the life sciences in clinical research and for diagnostic applications worldwide This volume presents the current state of the art on the utility of this technology to solve a host of important biological problems Applying Genomic and Proteomic Microarray Technology in Drug Discovery Robert S. Matson, 2013-03-13 Microarrays play an increasingly significant role in drug discovery The commercial landscape has changed dramatically over the past few years and researchers have made great advancements with regard to construction and use Now in its second edition Applying Genomic and Proteomic Microarray Technology in Drug Discovery highlights describes and

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