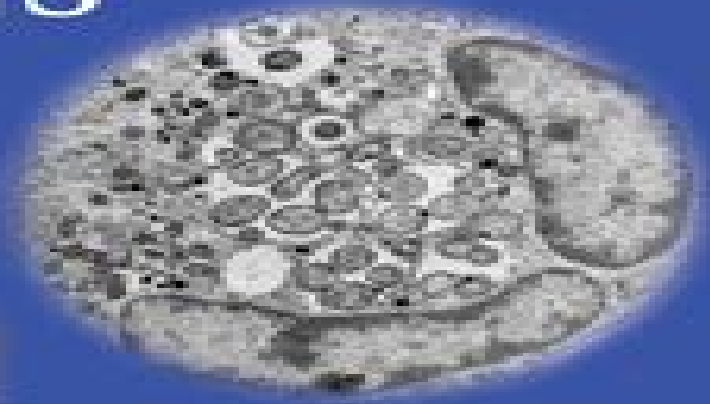
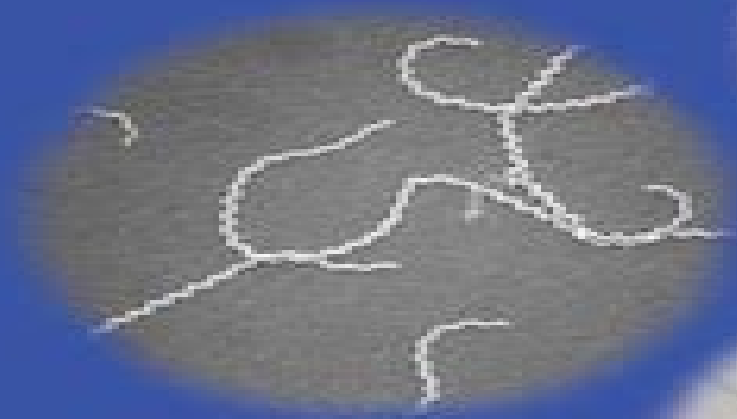


MOLECULAR DETECTION OF HUMAN BACTERIAL PATHOGENS



EDITED BY
DONGYOU LIU

Molecular Detection Of Human Bacterial Pathogens

Molecular Detection Of Human Bacterial Pathogens

Dongyou Liu



Molecular Detection Of Human Bacterial Pathogens Molecular Detection Of Human Bacterial Pathogens:

Molecular Detection of Human Bacterial Pathogens Dongyou Liu, 2011-04-18 As more original molecular protocols and subsequent modifications are described in the literature it has become difficult for those not directly involved in the development of these protocols to know which are most appropriate to adopt for accurate identification of bacterial pathogens Molecular Detection of Human Bacterial Pathogens addresses this issue with international scientists in respective bacterial pathogen research and diagnosis providing expert summaries on current diagnostic approaches for major human bacterial pathogens Each chapter consists of a brief review on the classification epidemiology clinical features and diagnosis of an important pathogenic bacterial genus an outline of clinical sample collection and preparation procedures a selection of representative stepwise molecular protocols and a discussion on further research requirements relating to improved diagnosis This book represents a reliable and convenient reference on molecular detection and identification of major human bacterial pathogens an indispensable tool for upcoming and experienced medical veterinary and industrial laboratory scientists engaged in bacterial characterization and an essential textbook for undergraduate and graduate students in microbiology

Molecular Detection of Human Viral Pathogens Dongyou Liu, 2016-04-19 Despite being recognized and fought against over countless centuries human viral pathogens continue to cause major public health problems worldwide killing millions of people and costing billions of dollars in medical care and lost productivity each year With contributions from specialists in their respective areas of viral pathogen research Mol

Molecular Detection of Human Fungal Pathogens Dongyou Liu, 2011-06-17 The large number of molecular protocols available creates a dilemma for those attempting to adopt the most appropriate for streamlined identification and detection of fungal pathogens of interest Molecular Detection of Human Fungal Pathogens provides a reliable and comprehensive resource relating the molecular detection and identification of major human fungal pathogens This volume contains expert contributions from international mycologists involved in fungal pathogen research and diagnosis Following a similar format throughout each chapter comprises A brief review of the classification epidemiology clinical features and diagnosis of one or a group of related fungal species An outline of clinical sample collection and preparation procedures A selection of representative stepwise molecular detection protocols A discussion on further research requirements for improving the diagnosis The book offers an indispensable tool for medical veterinary and industrial laboratory scientists working in the area of fungal determination It also constitutes a convenient textbook for undergraduate and graduate students majoring in microbiology and is an essential guide for upcoming and experienced laboratory scientists wishing to acquire and polish their skills in molecular diagnosis of fungal diseases

Laboratory Models for Foodborne Infections Dongyou Liu, 2017-03-16 Resulting from ingestion of inappropriately prepared or stored foods containing pathogenic viruses bacteria fungi and parasites foodborne infections have become a significant source of human morbidity and mortality worldwide in recent decades This may be largely

attributable to the remarkable popularity of convenient ready to eat food products the dramatic expansion of international food trades and the continuing growth of immuno suppressed population groups Although anti microbial treatments have played a crucial part in the control of foodborne infections in the past the emergence and spread of anti microbial resistance render the existing treatments ineffective Additionally our limited understanding of the molecular mechanisms of foodborne infections has thwarted our efforts in the development of efficacious vaccines for foodborne pathogens Given the obvious benefits of laboratory models in foodborne disease research a great number of experiments have been conducted toward the elucidation of host pathogen interactions in and pathogenic mechanisms of foodborne infections Forming part of the Food Microbiology series Laboratory Models for Foodborne Infections presents a state of the art review of laboratory models that have proven valuable in deciphering the life cycle epidemiology immunobiology and other key aspects of foodborne pathogens Written by scientists with respective expertise in foodborne pathogen research each chapter includes a contemporary summary of a particular foodborne viral bacterial fungal or parasitic infection in relation to its life cycle epidemiology clinical features pathogenesis host pathogen interactions and other related aspects Besides providing a trustworthy source of information for undergraduates and postgraduates in food microbiology Laboratory Models for Foodborne Infections offers an invaluable guide for scientists and food microbiologists with interest in exploiting laboratory models for detailed study of foodborne infections

Handbook of Foodborne Diseases Dongyou Liu, 2018-10-29 Clearly linked to consumption of foods beverages and drinking water that contain pathogenic microbes toxins or other toxic agents foodborne diseases have undergone a remarkable change of fortune in recent decades from once rare and insignificant malaises to headline grabbing and deadly outbreaks Unquestionably several factors have combined to make this happen These include a prevailing demand for the convenience of ready to eat or heat and eat manufactured food products that allow ready entry and survival of some robust temperature insensitive microorganisms a drastic reduction in the costs of air sea and road transportation that has taken some pathogenic microorganisms to where they were absent previously an expanding world population that has stretched the boundary of human activity and an ageing population whose weakened immune functions provide a fertile ground for opportunistic pathogens to invade and thrive Given the diversity of causative agents ranging from viruses bacteria yeasts filamentous fungi protozoa helminthes toxins to toxic agents and the ingenuity of pathogenic microbes to evolve through genetic reassortment horizontal gene transfer and or random genetic mutation it has become an enormous challenge to understand how foodborne agents are able to evade host immune defenses and induce diseases and also to develop and apply innovative approaches for improved diagnosis treatment and prevention of foodborne diseases Handbook of Foodborne Diseases summarizes the latest findings on more than 100 foodborne diseases and their causative agents With contributions from international experts on foodborne pathogens toxins and toxic agents research this volume provides state of the art overviews on foodborne diseases in relation to their etiology biology epidemiology clinical

presentation pathogenesis diagnosis treatment and prevention Apart from offering a comprehensive textbook for undergraduate and postgraduate students in food medical and veterinary microbiology this volume constitutes a valuable reference on foodborne diseases for medical professionals and health authorities and forms an informative educational resource for the general public

Manual of Security Sensitive Microbes and Toxins Dongyou Liu, 2014-04-08 Security sensitive microbes viruses bacteria fungi and parasites and toxins which are often referred to as the select agents and toxins have the capacity to cause serious illness and death in humans animals and plants This book is an authoritative and comprehensive review of security sensitive microbes viruses bacteria fungi and parasites and toxins with an emphasis on the state of the art in the field Written by experts in the field the chapters present authoritative reviews each one covering a single microbe or toxin with respect to its classification biology epidemiology pathogenesis identification diagnosis treatment and prevention The chapters also discuss the limitations of our current knowledge and challenges relating to improved detection and control of the microbe or toxin

Handbook of Tumor Syndromes Dongyou Liu, 2020-05-08 Tumors cancers are characterized by uncontrolled growths of abnormal cells that extend beyond their usual boundaries and disrupt the normal functions of affected organs and systems While about 75% 80% of tumors cancers arise sporadically without a family connection 20% 25% appear to be familial including 10% 15% nonhereditary familial tumors or familial tumors and 5% 10% hereditary familial tumors or hereditary tumors As nonhereditary and hereditary familial tumors often show both tumor related and non tumor related or syndromic symptoms they are referred to as tumor syndromes or cancer susceptibility syndromes In comparison with sporadic tumors cancers tumor syndromes 300 described so far tend to occur at a younger age involve multiple organs and systems produce multiple often in a distinct spectrum and bilateral lesions form multiple hamartomatous benign or precursor lesions locate in specific sites display unique syndromic features and affect multiple members generations of a family This book provides state of art and authoritative coverage of nearly 100 tumor syndromes with chapters presenting overviews of individual tumor syndromes in relation to their biology epidemiology pathogenesis clinical features diagnosis treatment and prognosis Featuring contributions from oncologists clinicians and specialists the book offers a reliable comprehensive reference on tumor syndromes for scholars and students of medicine dentistry pharmacology nursing public health and other biomedical disciplines

Key Features Reviews the biology epidemiology pathogenesis and clinical features of tumor syndromes Contains up to date information on the diagnosis and treatment of tumor syndromes Includes expert coverage from leading oncologists and clinicians

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laboratories in Australia and the United States for the past three decades with a focus on molecular characterization of microbial pathogens and detection of human genetic disorders and tumors cancers He is the primary author of more than 50 original research and review articles in various peer reviewed international journals the contributor of 197 book chapters and the editor of more than 10 books

Molecular Detection of Human Parasitic Pathogens Dongyou Liu, 2012-07-05

Traditionally laboratory identification of parasites has relied upon various phenotypic procedures that detect their morphological biological and immunological features Because these procedures tend to be time consuming and technically demanding molecular methods based on nucleic acid amplification technologies have been increasingly utilized for rapid sensitive and specific characterization of parasites The large number of original and modified molecular protocols that have been developed over the years creates a dilemma for those attempting to adopt the most appropriate protocol for streamlined identification and detection of human pathogenic organisms of interest Part of a four volume collection Molecular Detection of Human Parasitic Pathogens provides a reliable and comprehensive resource on the molecular detection and identification of major human parasitic pathogens This volume contains expert contributions from international scientists involved in human parasitic pathogen research and diagnosis Following a similar format throughout each chapter includes A brief review on the classification biology epidemiology clinical features and diagnosis of an important pathogenic parasitic genus group An outline of clinical sample collection and preparation procedures and a selection of representative stepwise molecular protocols A discussion on further research needs relating to improved diagnoses of major human parasitic pathogens This versatile reference on molecular detection and identification of major human parasitic pathogens is an indispensable tool for upcoming and experienced medical veterinary and industrial laboratory scientists engaged in parasite characterization It is also suitable as a textbook for undergraduate and graduate students majoring in parasitology

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

Molecular Medical Microbiology Yi-Wei Tang, Andrew Sails, 2014-12-10

The molecular age has brought about dramatic changes in medical microbiology and great leaps in our understanding of the mechanisms of infectious disease Molecular Medical Microbiology is the first book to synthesise the many new developments in both molecular and clinical research in a single comprehensive resource This timely and authoritative three volume work is an invaluable reference source of medical bacteriology Comprising more than 100 chapters organized into 17 major sections the scope of this impressive work is wide ranging Written by experts in the field chapters include cutting edge information and clinical overviews for each major bacterial group in addition to the latest updates on vaccine development molecular technology and diagnostic technology Topics covered include bacterial structure cell function and genetics mechanisms of

pathogenesis and prevention antibacterial agents and infections ranging from gastrointestinal to urinary tract central nervous system respiratory tract and more The first comprehensive and accessible reference on molecular medical microbiology Full color presentation throughout In depth discussion of individual pathogenic bacteria in a system oriented approach Includes a clinical overview for each major bacterial group Presents the latest information on vaccine development molecular technology and diagnostic technology More than 100 chapters covering all major groups of bacteria Written by an international panel of authors who are experts in their respective disciplines

Development of a Novel Assay for Molecular Detection and Quantification of Bacteria Directly in Whole Human Blood April Joy Aralar, 2023 Bacteria are all around us In our environment on our bodies and even in the air we breathe While usually benign their invasion into the bloodstream can pose severe risks to human health making detection of these microbes of the utmost importance Typical bacterial detection techniques for clinical diagnostics are limited by long testing times high rates of false positive and negative detection and assumptions about the pathogen This dissertation is centered around the development of a novel method based on digital PCR dPCR to accurately and agnostically detect identify and quantify bacteria for applications in clinical microbiology In chapter 1 I developed a novel high resolution melt HRM based internal amplification control IAC strategy for dPCR to provide assurance that clinical specimens are successfully amplified and accurately quantified I showed that detection of an exogenous IAC using digital HRM dHRM reduces the inclusion of false negative partitions changing the calculated DNA concentration up to 52% The integration of dHRM enabled classification of partitions that would otherwise be considered ambiguous rain which accounts for up to 3% and 10% of partitions in intercalating dye and hydrolysis probe dPCR respectively The IAC was developed for use with a broad based bacterial primer set for microbial profiling but can be applied to any dPCR application I then took these concepts and used them to develop a novel method to detect quantify and identify bacteria in human blood samples This first involved optimizing the assay developed in chapter 1 to avoid interference from human DNA I then developed a melt curve database for bacterial pathogens using dHRM quantified the lower limit of detection for our method and used the assay to quantify bacterial DNA in whole blood samples that were matched to blood culture positives This study demonstrated that dHRM can be reliably used to differentiate blood culture positive and negative samples from patients with 90% concordance when compared with clinical adjudication This work resulted in a technique that can be applied to a number of DNA profiling applications and advances the utility of dPCR in clinical applications where accurate quantification is imperative

Molecular Food Microbiology Dongyou Liu, 2021-04-11 The elucidation of DNA double helix in 1953 and the publication of DNA cloning protocol in 1973 have put wings under the sail of molecular biology which has since quietly revolutionized many fields of biological science including food microbiology Exploiting the power and versatility of molecular technologies molecular food microbiology extends and greatly improves on phenotypically based food microbiology leading to the development of better diagnostics for foodborne infections and intoxications and contributing to

the design of more effective therapeutics and prophylaxes against foodborne diseases Forming part of the Food Microbiology series Molecular Food Microbiology provides a state of art coverage on molecular techniques applicable to food microbiology While the introductory chapter contains an overview on the principles of current DNA RNA and protein techniques and discusses their utility in helping solve practical problems that food microbiology is facing now and in the future the remaining chapters present detailed molecular analyses of selective foodborne viruses bacteria fungi and parasites Key Features Contains a state of art overview on molecular techniques applicable to food microbiology research and development Presents in depth molecular analysis of selective foodborne viruses bacteria fungi and parasites Highlights the utility of molecular techniques for accurate diagnosis and effective control of foodborne diseases Includes expert contributions from international scientists involved in molecular food microbiology research Represents a highly informative textbook for students majoring in food medical and veterinary microbiology Offers a contemporary reference for scholars and educators wishing to keep abreast with the latest developments in molecular food microbiology With contributions from international scientists involved in molecular food microbiology research this book constitutes an informative textbook for undergraduates and postgraduates majoring in food medical and veterinary microbiology represents an indispensable guide for food medical and veterinary scientists engaged in molecular food microbiology research and development and offers a contemporary update for scholars and educators trying to keep in touch with the latest developments in molecular food microbiology

Chemical and Biological Point Sensors for Homeland Defense ,2003 **Journal of Veterinary Science** ,2007

Handbook of Molecular Biotechnology Dongyou Liu,2024-09-05 With a history that likely dates back to the dawn of human civilization more than 10 000 years ago and a record that includes the domestication and selective breeding of plants and animals the harnessing of fermentation process for bread cheese and brewage production and the development of vaccines against infectious diseases biotechnology has acquired a molecular focus during the 20th century particularly following the resolution of DNA double helix in 1953 and the publication of DNA cloning protocol in 1973 and transformed our concepts and practices in disease diagnosis treatment and prevention pharmaceutical and industrial manufacturing animal and plant industry and food processing While molecular biotechnology offers unlimited opportunities for improving human health and well being animal welfare agricultural innovation and environmental conservation a dearth of high quality books that have the clarity of laboratory manuals without distractive procedural details and the thoroughness of well conversed textbooks appears to dampen the enthusiasm of aspiring students In attempt to fill this glaring gap Handbook of Molecular Biotechnology includes four sections with the first three presenting in depth coverage on DNA RNA and protein technologies and the fourth highlighting their utility in biotechnology Recognizing the importance of logical reasoning and experimental verification over direct observation and simple description in biotechnological research and development the Introduction provides pertinent discussions on key strategies i e be first be better and be different effective thinking lateral

parallel causal reverse and random and experimental execution which have proven invaluable in helping advance research projects evaluate and prepare research reports and enhance other scientific endeavors Key features Presents state of the art reviews on DNA RNA and protein technologies and their biotechnological applications Discusses key strategies effective thinking and experimental execution for scientific research and development Fills the gap left by detailed ridden laboratory manuals and insight lacking standard textbooks Includes expert contributions from international scientists at the forefront of molecular biotechnology research and development Written by international scientists at the forefront of molecular biotechnology research and development chapters in this volume cover the histories principles and applications of individual techniques technologies and constitute stand alone yet interlinked lectures that strive to educate as well as to entertain Besides providing an informative textbook for tertiary students in molecular biotechnology and related fields this volume serves as an indispensable roadmap for novice scientists in their efforts to acquire innovative skills and establish solid track records in molecular biotechnology and offers a contemporary reference for scholars educators and policymakers wishing to keep in touch with recent developments in molecular biotechnology

Food Protection Trends, 2010 **Rudolph's Pediatrics, 23rd Edition** Mark W. Kline, Susan M. Blaney, Angelo P. Giardino, Jordan S. Orange, Daniel J. Penny, Gordon E. Schutze, Lara S. Shekerdemian, Abraham M. Rudolph, Colin D. Rudolph, 2018-08-21 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The landmark pediatrics reference completely reinvented by an all new team of editors Rudolph's Pediatrics has virtually defined the pediatric field for over a century becoming one of the most important and well respected pediatrics texts ever published Renowned for its balance of clinical features and treatment of disease with underlying biological principles this classic sourcebook has helped generations of pediatricians optimize their care of infants children and adolescents The Twenty Third Edition of Rudolph's has been completely restructured and streamlined thanks to an all new team of editors whose goal was to reinvent this classic with today's busy practitioner in mind Presented in full color the Twenty Third Edition provides an up to date in depth survey of pediatric medicine unmatched by any other text With its algorithmic approach to pediatric systems the book facilitates the diagnosis and treatment of both common and uncommon pediatric illnesses and it reflects new technologies and advances in molecular medicine that continue to evolve with current thinking about normal childhood development and pediatric disease processes New team of editors achieves consistency in both tone and depth of content Contributions from section editors and authors from leading academic pediatrics programs give expert coverage of general pediatrics and all of the pediatric sub specialties Streamlined and consistent format for most chapters outlining Pathogenesis and Epidemiology Clinical Manifestations Diagnosis Treatment and Prevention New 2 Volume presentation improves portability Hundreds of full color illustrations and tables The acclaimed balance between clinical applicability and underlying biological principles offers pediatricians a depth of coverage not found anywhere else

Brand new or significantly revised chapters include Complementary and Integrative Pediatrics Childhood Adversity and Toxic Stress Autism Spectrum Disorder Pediatric Depression and Bipolar Spectrum Disorders Extracorporeal Membrane Oxygenation ECMO Palliative Care for Children with Chronic Diseases Arboviruses with new coverage of Zika virus and chikungunya virus Physiologic Basis of Pulmonary Function Acute Lymphoblastic Leukemia Neuroblastoma You d be hard pressed to find a resource that matches up to the comprehensive scope of Rudolph s It s no wonder it s a staple in most offices and hospitals Doody s Review Service Peterson's Guide to Graduate Programs in the Biological Sciences 1997 Peterson's,1997-01-05 Graduate students depend on this series and ask for it by name Why For over 30 years it s been the only one stop source that supplies all of their information needs The new editions of this six volume set contain the most comprehensive information available on more than 1 500 colleges offering over 31 000 master s doctoral and professional degree programs in more than 350 disciplines New for 1997 Non degree granting research centers institutes and training programs that are part of a graduate degree program Five discipline specific volumes detail entrance and program requirements deadlines costs contacts and special options such as distance learning for each program if available Each Guide features The Graduate Adviser which discusses entrance exams financial aid accreditation and more The only source that covers nearly 4 000 programs in such areas as oncology conservation biology pharmacology and zoology *Henry's Clinical Diagnosis and Management by Laboratory Methods* John Bernard Henry,2007 Rev ed of Clinical diagnosis and management by laboratory methods edited by John Bernard Henry 20th ed c2001 **Various Methods and Novel Techniques** Wenli Sun,Mohamad Hesam Shahrajabian,2022 In this book various methods for detection of infectious diseases in humans and other organisms are described These include polymerase chain reaction PCR technology loop mediated isothermal amplification LAMP and recombinase polymerase amplification RPA Each method presents different strengths and weaknesses and varies by sensitivity specificity and rapidity among other characteristics These techniques can be used for the detection of pathogens like SARS CoV MERS CoV SARS CoV 2 influenza lymphocystis disease virus swine acute diarrhea syndrome coronavirus swine vesicular disease virus classical swine fever virus infectious bursal disease virus Marek s disease virus human papillomaviruses infectious bronchitis virus Newcastle disease virus sacbrood virus beak and feather disease virus foot and mouth disease virus bovine herpesvirus 1 and more Other applications of these methods include molecular diagnosis of cancer identification of genetically modified organisms and detection of food adulteration

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Introduction

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