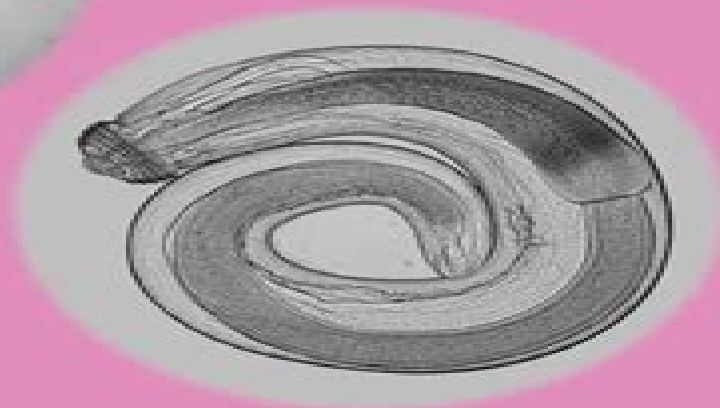
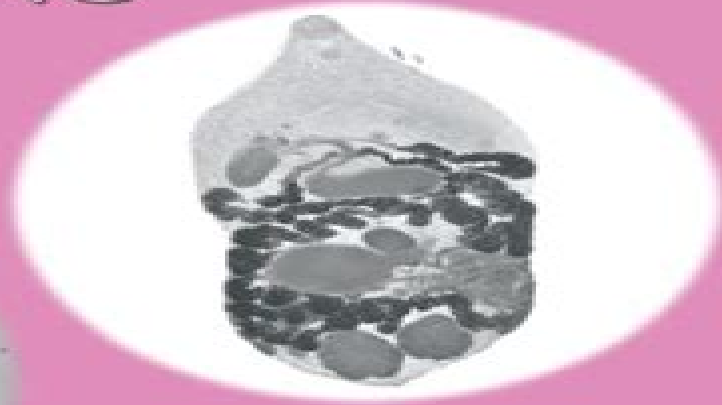


MOLECULAR DETECTION OF HUMAN PARASITIC PATHOGENS



EDITED BY
DONGYOU LIU

Molecular Detection Of Human Parasitic Pathogens

Dongyou Liu



Molecular Detection Of Human Parasitic Pathogens:

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

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

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

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

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.

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 the 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.

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Brain Tumors Practical Guide to Diagnosis and Treatment ISBN 978 0 3673 9022 8 D Liu Tumors and Cancers Endocrine Glands Blood Marrow Lymph ISBN 978 1 4987 2975 8 Dongyou Liu PhD has worked at several research and clinical 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

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

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

Molecular Detection of

Human Viral Pathogens Dongyou Liu, 2017-06-20 The first in a series of four books this comprehensive work details the molecular detection of major human viral bacterial fungal and parasitic pathogens Focusing on sample preparation and molecular detection procedures each chapter presents a concise review of the pathogen concerned including its taxonomy biology epidemiology and pathogenesis a description of clinical sample collection preparation procedures a summary of molecular detection methods representative molecular detection protocols and a discussion on the challenges limitations and advantages for the current methods as well as further research required to improve diagnosis

Molecular Medical Microbiology Yi-Wei Tang, Musa Hindiyeh, Dongyou Liu, Andrew Sails, Paul Spearman, Jing-Ren Zhang, 2023-11-21 Molecular Medical Microbiology Third Edition presents the latest release in what is considered to be the first book to synthesize new developments in both molecular and clinical research The molecular age has brought about dramatic changes in medical microbiology along with great leaps in our understanding of the mechanisms of infectious disease This third edition is completely updated reviewed and expanded providing a timely and helpful update for microbiologists students and clinicians in the era of increasing use of molecular techniques changing epidemiology and prevalence and increasing resistance of many pathogenic bacteria Written by experts in the field chapters include cutting edge information and clinical overviews for each major bacterial group along with the latest updates on vaccine development molecular technology and diagnostic technology Completely updated and revised edition of this comprehensive and accessible reference on molecular medical microbiology Includes full color presentations throughout Delves into in depth discussions on 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 Provides more than 100 chapters on all major groups of bacteria

Digenetic Trematodes Rafael Toledo, Bernard Fried, 2024-07-15 Although digenetic trematodes have been largely neglected they constitute a major group of helminths that parasitize human and animals causing significant morbidity and mortality This is of special importance today since the geographical limits and the populations at risk traditionally limited to developing or low income countries are currently expanding and changing in relation to factors such as growing international markets improved transportation systems and demographic changes This has led to a growing international interest in trematode infections although factors such as the difficulties entailed in the diagnosis the complexity of human and agricultural practices the lack of assessments of economic costs or the limited number of effective drugs are preventing the development of control measures of these diseases in humans and livestock In depth studies are needed to clarify the current epidemiology of these helminth infections and to identify new and specific targets for both effective diagnosis and treatments The main goal of the third edition of this book is to present the major trematodes and their corresponding diseases in the framework of modern parasitology considering matters such as the application of novel techniques and analysis of data in the context of host parasite interactions and also with the resident microbiota showing the application of

modern techniques and concepts to the studies on digenetic trematodes This is an ideal book for parasitologists microbiologists zoologists immunologists public health professionals clinicians and graduate and post graduate students

Current and Emerging Technologies for the Diagnosis of Microbial Infections, 2015-11-23 Current and Emerging Technologies in Microbial Diagnostics the latest volume in the Methods in Microbiology series provides comprehensive cutting edge reviews of current and emerging technologies in the field of clinical microbiology The book features a wide variety of state of the art methods and techniques for the diagnosis and management of microbial infections with chapters authored by internationally renowned experts This volume focuses on current techniques such as MALDI TOF mass spectroscopy and molecular diagnostics along with newly emerging technologies such as host based diagnostics and next generation sequencing Written by recognized leaders and experts in the field Provides a comprehensive and cutting edge review of current and emerging technologies in the field of clinical microbiology including discussions of current techniques such as MALDI TOF mass spectroscopy and molecular diagnostics Includes a broad range and breadth of techniques covered Presents discussions on newly emerging technologies such as host based diagnostics and next generation sequencing

Biodiversity of Southeast Asian Parasites and Vectors causing Human Disease Trevor N. Petney, Weerachai Saijuntha, Heinz Mehlhorn, 2021-06-21 This thematic collection focuses on key parasites and their vectors in Southeast Asia Up to date essays invite readers to discover parasite and vector morphology genetic diversity as well as dynamic parasite communities linked to human land use and climate change The authors shed light on transmission pathways and explore tick borne diseases intestinal protozoa cestodes nematodes and the multiplicity of cryptic trematode species Particular attention is given to mosquito vectors in changing environments and the dynamic biodiversity of vertebrate hosts including mammals birds and fish The richly illustrated chapters are completed by new approaches in diagnostic methods treatment and prevention to protect humans and animals from tropical parasite infections Not only parasitologists and experts in tropical medicine but also public health officials and travelers will find this volume highly informative

Immunological Methods in Microbiology, 2020-04-29 Immunological Methods in Microbiology Volume 47 in the Methods in Microbiology series highlights new advances in the field with this new volume presenting interesting chapters on Immunological Techniques in the Clinical laboratory Immunologic Diagnosis of HIV and Opportunistic Infections Combining Antigen Detection and Serology for the Diagnosis of Selected Infectious Diseases Immunologic Detection of Lyme Disease and Related Borrelioses Immunodetection of Bacteria Causing Brucellosis Immunological Diagnostic Techniques Used to Identify and Type Pasteurella Immunological Tests for Diarrhea caused by Diarrheagenic Escherichia coli Targeting Their Main Virulence Factors and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Microbiology series Includes the latest information on Immunological Methods in Microbiology

Manual of Clinical Microbiology, 4 Volume Set Karen C. Carroll, Michael A. Pfaller, 2024-11-19 Revised by

a collaborative international interdisciplinary team of editors and authors this edition of the Manual of Clinical Microbiology includes the latest applications of genomics and proteomics and is filled with current findings regarding infectious agents leading edge diagnostic methods laboratory practices and safety guidelines This edition also features four new chapters Diagnostic Stewardship in Clinical Microbiology Salmonella Escherichia and Shigella and Morganellaceae Erwiniaceae Hafniaceae and Selected Enterobacterales This seminal reference of microbiology continues to set the standard for state of the science laboratory practice as the most authoritative reference in the field of microbiology If you are looking for online access to the latest from this reference or site access for your lab please visit www.wiley.com/learn/clinmicronow

Human Intestinal Flukes Jong-Yil Chai, 2019-08-22 This book provides up to date information on the characteristics of each species of intestinal fluke found in humans and on the management of infections caused by these trematodes Biology epidemiology host parasite relationships pathogenicity clinical aspects diagnosis and treatment are all reviewed in detail The zoonotic intestinal flukes comprise 38 genera belonging to 16 families They are morphologically diverse and each species has a characteristic life cycle and geographical distribution Intestinal fluke infections are commonly considered as tropical endemic diseases in Asian countries where 6 million people are infected but the geographical limits and populations at risk are expanding and changing owing to a range of factors including growing international markets improved transportation systems changes in eating habits demographic trends and climate change While the pathogenicity of intestinal flukes is generally mild the impact in immunocompromised individuals requires clarification and some diagnostic problems remain to be solved In exploring all aspects of human intestinal fluke infections this book will be invaluable for clinicians and researchers alike

Biology of Foodborne Parasites Lihua Xiao, Una Ryan, Yaoyu Feng, 2015-04-06 While a number of introductory books on basic and molecular biology are available none highlight the foodborne parasitic pathogens Until now A state of the art review Biology of Foodborne Parasites charts significant progress and outlines key biological techniques applied to foodborne parasitic pathogens research The book covers basic biology genetics and genomics epidemiology pathogenesis diagnosis control and prevention It showcases recent research that can then be used to spark further breakthroughs The book addresses challenging issues in food pathogen detection It details individual foodborne protists and helminthes with each chapter following a similar format for a consistent presentation of information It discusses topics ranging from basic biology genetics and genomics molecular detection and typing and pathogenesis to epidemiology molecular epidemiology treatment and prevention among other current concerns It also details the methods used to diagnose the infection characterize the pathogen and detect parasites in three food commodities meats water and fresh produce With chapters written by experts in their respective fields the book presents a reliable roadmap for future development of improved innovative biological and molecular methods for analysis of foodborne parasitic pathogens A handy comprehensive reference on all aspects of biology of foodborne parasites it highlights research needs and directions helping you develop advanced diagnostic tools and new

intervention measures

Advancements in Understanding Zoonotic Parasitic Diseases Rodrigo Morchón

García, Simona Gabrielli, Lavinia Ciuca, Elena Carreton, Ettore Napoli, 2025-01-27 This Research Topic is a continuation of the successful topic launched in Veterinary Infectious Diseases <https://www.frontiersin.org/research-topics/13197/zoonotic-diseases-their-hosts-and-vectors> The field of zoonotic parasitic diseases which can be transmitted between animals and humans is currently experiencing significant advancements These diseases caused by viruses bacteria parasites and fungi vary widely in their symptoms and severity with some leading to severe illness or death The transmission of these parasites can occur through various sources including food domestic and wild animals and vectors However the detection treatment and control of these diseases are often complicated by a lack of comprehensive knowledge about them This issue is further exacerbated by factors such as global warming which is leading to an exponential increase in many zoonotic diseases and the exchange of animals and people through travel or purchases which can introduce new vectors to previously disease free areas The primary aim of this research topic is to enhance our understanding of zoonotic parasitic diseases including those that have the potential to become zoonotic This includes gaining a deeper understanding of their biology epidemiology and the local regional country or global advances in their diagnosis treatment and control Additionally the research topic aims to facilitate the exchange of information about these diseases particularly in relation to their proteome immunome and molecular aspects as well as new vaccinal and diagnostic tools

Helminth Infections and their Impact on Global

Public Health Fabrizio Bruschi, 2022-08-01 This is a thoroughly revised edition of a well received reference work on helminthiases and their impact on worldwide public health The carefully presented collection covers both common and neglected helminth infections Readers will discover an up date overview to helminth epidemiology including molecular typing specific biological immunological and immunopathological aspects diagnosis and latest perspectives of control New contributions give particular attention to economic consequences of helminthiases deworming programs and future public health approaches as well as most recent findings in host immune responses Helminths are long lived multicellular organisms that have co evolved with humans over many thousands of years They are responsible for infections which affect around one fourth of the human population at global level Despite the huge efforts in research during the last years effective control of helminth infections is still far from optimal standards and the resulting diseases remain neglected The highly readable link of parasitological background and clinical application makes this book a valuable read not only for parasitologists but also physicians and medical students health professionals as well as experts in public health issues Moreover all readers concerned with combating neglected parasitoses towards the Sustainable Development Goal SDG 3 Good Health and Well being will understand the significance of this renewed volume

The Gut Microbiome Gyula

Mozsik, 2016-11-02 In the last decades the importance of gut microbiome has been linked to medical research on different diseases Developments of other medical disciplines human clinical pharmacology clinical nutrition and dietetics everyday

medical treatments of antibiotics changes in nutritional habits in different countries also called attention to study the changes in the gut microbiome This book contains five excellent review chapters in the field of gut microbiome written by researchers from the USA Canada China and India These chapters present a critical review about some clinically important changes in the gut microbiome in the development of some human diseases and therapeutic possibilities liver disease cardiovascular diseases brain diseases gastrointestinal diseases The book brings to attention the essential role of gut microbiome in keeping our life healthy This book is addressed to experts of microbiology podiatrists gastroenterologists internists nutritional experts cardiologists basic and clinical researchers as well as experts in the field of food industry

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