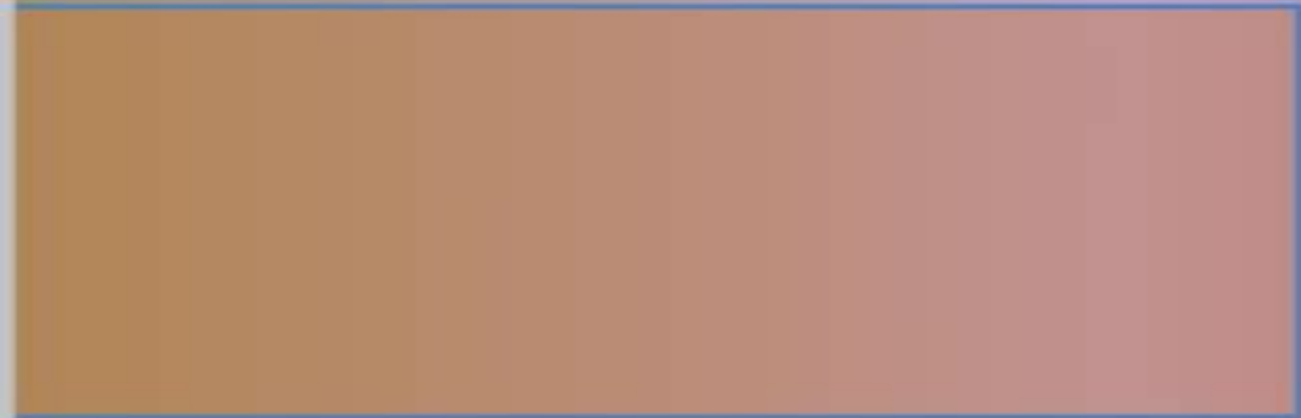
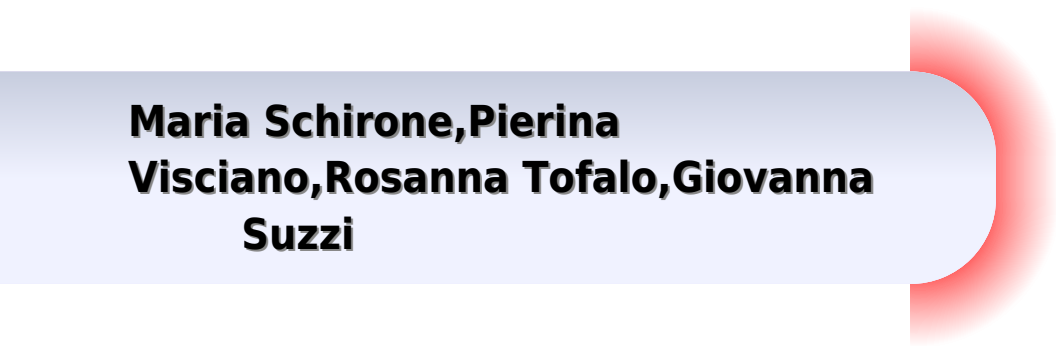


Clinical detection and characterization of bacterial pathogens in the genomics era



Clinical Detection And Characterization Of Bacterial Pathogens In The Genomics Era

**Maria Schirone, Pierina
Visciano, Rosanna Tofalo, Giovanna
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Clinical Detection And Characterization Of Bacterial Pathogens In The Genomics Era:

Molecular Diagnostics E. van Pelt-Verkuil, W.B. van Leeuwen, R. te Witt, 2017-07-19 This two volume book set provides a comprehensive and practical overview of the state of the art molecular biological diagnostic strategies that are currently used in a wide variety of disciplines The volumes cover Clinical microbiology and virology Clinical chemistry Pathology Veterinary medicine Plant Pathology Food safety The two volumes are written by experts in their respective fields who have together with the editors combined years of experience in the development application and quality control of molecular diagnostic methods The first book is devoted to the theory and backgrounds of molecular techniques amplification technology next generation sequencing and bioinformatics for molecular laboratory diagnostics As a fundament of reliable molecular diagnostic assays the quality control required for validation implementation and performance of molecular diagnostic assays is extensively discussed The second book highlights the applications of these methods in the various diagnostic laboratories These two full colour well illustrated volumes are particularly valuable for students clinicians scientists and other professionals who are interested in designing molecular diagnostic tests and for those who wish to expand their knowledge on the current molecular biological revolution The extensive information in both books highlights the current trend of the integration of multiple clinical disciplines into one universal molecular laboratory

Metagenomics: Techniques, Applications, Challenges and Opportunities Reena Singh Chopra, Chirag Chopra, Neeta Raj Sharma, 2020-09-08 This book summarizes the various areas of research in metagenomics and their potential applications in medicine the environment and biotechnology The book presents the recent advances in theoretical methodological and applied aspects of metagenomics and highlights their applications in the fields of environmental microbial forensics bioremediation drug discovery and agriculture In addition the book discusses various metagenomics approaches used for understanding the microbial physiology and biochemistry Lastly the book describes a range of bioinformatics tools and computational methods for metagenomics analysis as well as the functional diversity and dynamics of microbial communities colonizing the human skin

Trends in Food Safety and Protection V Ravishankar Rai, Jamuna A Bai, 2017-09-18 Trends in Food Safety and Protection explores the recent developments and ongoing research in the field of food safety and protection The book covers improvements in the existing techniques and implementation of novel analytical methods for detecting and characterizing foodborne pathogens

Computational Predictions, Dynamic Tracking, and Evolutionary Analysis of Antibiotic Resistance Through the Mining of Microbial Genomes and Metagenomic Data Qi Zhao, Chin Yen Tay, Liang Wang, Jian Li, 2022-04-27

Microbial Biocontrol: Sustainable Agriculture and Phytopathogen Management Ajay Kumar, 2022-05-04 This first volume of a two volume work presents the manifold applications of beneficial microbes and microbiomes in plant growth promotion in enhancing crop resilience and in control of phytopathogens through microbial antagonists In depth insights into latest technologies such as biopriming of seeds and soil inoculation of rhizosphere microorganisms are provided The two

volume work *Microbial Biocontrol* introduces mechanisms of plant microbe interactions and explores latest strategies of how microbes can be applied in biocontrol and management of plant pathogens replacing chemical fertilizers and pesticides. The book covers different groups of microorganisms such as bacteria fungi but also the interplay of entire microbiomes and reviews their specific benefits in crop growth promotion in enhancing the plants tolerance against biotic and abiotic stress as well as in post harvest management of various plant diseases. Novel tools such as CRISPR Cas9 and microbe derived nanoparticles are also addressed besides the legal aspects of biocontrol applications. Today rising global population and changing climatic conditions emerge as a major challenge for agronomist farmers and researchers in fulfilling the requirements of global food production. The conventional agricultural practices utilize undistributed use of chemical fertilizers and pesticides to enhance growth and yield of agricultural products and fresh foods but their extensive and continuous use have led to a range of negative consequences on the food quality and safety to environment as well as to human and animal health. Microbial biocontrol applications are presented as a solution paving the way to a sustainable agriculture in compliance with the UN Sustainable Development Goals SDG. The book addresses researchers in academia and agriculture.

Food Borne Pathogens and Antibiotic Resistance Om V. Singh, 2017-01-30 Food is an essential means for humans and other animals to acquire the necessary elements needed for survival. However it is also a transport vehicle for foodborne pathogens which can pose great threats to human health. Use of antibiotics has been enhanced in the human health system however selective pressure among bacteria allows the development for antibiotic resistance. *Foodborne Pathogens and Antibiotic Resistance* bridges technological gaps focusing on critical aspects of foodborne pathogen detection and mechanisms regulating antibiotic resistance that are relevant to human health and foodborne illnesses. This groundbreaking guide introduces the microbial presence on variety of food items for human and animal consumption. Provides the detection strategies to screen and identify the variety of food pathogens in addition to reviews the literature. Provides microbial molecular mechanism of food spoilage along with molecular mechanism of microorganisms acquiring antibiotic resistance in food. Discusses systems biology of food borne pathogens in terms of detection and food spoilage. Discusses FDA's regulations and Hazard Analysis and Critical Control Point HACCP towards challenges and possibilities of developing global food safety. *Foodborne Pathogens and Antibiotic Resistance* is an immensely useful resource for graduate students and researchers in the food science food microbiology microbiology and industrial biotechnology.

Ticks and Tick-Borne Pathogens Muhammad Abubakar, Piyumali Kanchana Perera, 2019-03-13 It is vital to understand ticks and tick borne pathogens as well as their impact on humans. This book is intended for students in parasitology biologists parasitologists involved in molecular diagnostics of tick borne diseases practicing veterinarians and for others who may require information on ticks and tick borne diseases. Here we have put together a collection of chapters focused on different aspects of ticks and tick borne diseases mainly to provide the reader with novel information in the field but not the basic

generalised information provided by many textbooks This book includes topics such as high throughput technologies in diagnosis discovery of novel tick vaccines identification of new pathogens transmitted by ticks and new epidemiological information of certain well known ticks and tick borne diseases These chapters were authored by parasitologists from all over the world giving an insight to the reader about significant ticks and tick borne diseases prevalent in those particular geographical regions with the local expert s point of view Each of the chapters has separate reference lists making it easier for the reader to find additional reading material related to their topic of interest

Antibiotic Residue and Resistance in Seafood Safety and Quality Asem Sanjit Singh,Manoharmayum Shaya Devi,Upendra Nongthomba,2025-04-26 This book embark explores the global antibiotic trends in seafood and delves into the intricate interplay between antibiotic consumption and its ramifications within the seafood industry The nuanced effects of processing techniques on antibiotic residue levels in seafood are investigated elucidating the prevalence of antibiotics and their metabolites within these commodities The book also peers into the microbial realm of seafood revealing the intricacies of resistance mechanisms prevalence rates pathogenicity and related phenomena It then explores the antibiotic alternatives in aquatic environments including the utilization of nanoparticles and plant extracts Artificial intelligence integration and sensor development for antibiotic residue detection ensures quality assurance and consumer safety within the seafood industry and has been well covered in this volume This edited volume is beneficial for graduate students in fisheries science life sciences animal biotechnology zoology and microbiology This can be a reference material for fisheries professionals scientific communities researchers and scholars as well for navigating the global antibiotic trends in seafood

Insights in Infectious Agents and Disease: 2022 Axel Cloeckaert,2024-07-18 We are now entering the third decade of the 21st Century and especially in the last years the achievements made by scientists in the field of Microbiology have been exceptional leading to major advancements Frontiers has organized a series of Research Topics to highlight the latest advancements in science in order to be at the forefront of science in different fields of research This specific editorial initiative led by Dr Axel Cloeckaert is focused on new insights novel developments current challenges latest discoveries recent advances and future perspectives in the field The Research Topic solicits brief forward looking contributions from the editorial board members that describe the state of the art outlining recent developments and major achieved accomplishments future challenges and how to address those challenges to move the field forward Reviews Mini Reviews Perspectives and Opinions summarizing the current state and future directions of the field are particularly welcome in this collection

Biological Hazards in Food Maria Schirone,Pierina Visciano,Rosanna Tofalo,Giovanna Suzzi,2017-03-07 The ingestion of food containing pathogenic microorganisms i e bacteria and their toxins fungi viruses and parasites can cause food borne diseases in humans A growing number of emerging pathogens changes of virulence of known pathogens and appearance of antibiotic resistance has recently exposed consumers to a major risk of illness Also infected people and the environment can spread microorganisms

on raw or processed food Outbreaks of food borne diseases are often unrecognized unreported or not investigated and particularly in developing countries their agents and sources are mostly unknown Surveillance and analytical methods aiming at their detection are to be hoped as well as good strategies to struggle against these threats This E book is subdivided in chapters regarding to pathogenic and spoiling microorganisms chemical hazards produced by biological agents and food safety management systems

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