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Michela Chiumenti *Editors*



Viral Metagenomics

Methods and Protocols



Humana Press

Metagenomics Methods And Protocols Methods In Molecular Biology

Lik Tong Tan, Novriyandi Hanif



Metagenomics Methods And Protocols Methods In Molecular Biology:

Metagenomics Wolfgang R. Streit, Rolf Daniel, 2022-10-28 This volume provides up to date and novel techniques for various screening technologies currently used in metagenomics and related areas Starting with DNA RNA isolation from environmental samples the book continues by delving into areas such as current methods used to isolate DNA and construct metagenomic libraries establishment of metagenome libraries in non E coli hosts and topics like function driven mining of metagenomic DNA screening and analyzing protocols for a wide array of different genes encoding enzymes bacterial viruses and much more Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Metagenomics Methods and Protocols Third Edition provides a comprehensive collection of up to date metagenome protocols and tools for the recovery of many major types of biocatalysts and allows for the easy setup of these screens in microbiology laboratories

Viral Metagenomics Vitantonio Pantaleo, Laura Miozzi, 2023-12-07 This second edition volume expands on the previous edition with discussions about the latest viral metagenomics aspects covering a range of different specimens such as soil freshwater wastewater fecal samples blood plasma clinical tissues fungi and herbarium samples Chapters also look at different viral groups including archaeal viruses eukaryotic viruses phages mycoviruses and circular DNA viruses Techniques required for studying the three viral metagenomic steps of samples processing library construction and analysis of data are also discussed Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Vital Metagenomics Methods and Protocols Second Edition is a valuable resource for researchers who are interested in learning more about this important and developing field

Marine Enzymes for Biocatalysis Antonio Trincone, 2013-09-30 Marine bioprospecting is a highly topical subject in both applied and basic research but as yet the marine ecosystem is a relatively unexplored source of natural bioactive substances with potential therapeutic activity This book addresses the use of marine enzymes in biocatalysis through a series of chapters from leading scientists within academic and industrial fields Biocatalytic processes can take advantage of the habitat related properties of marine enzymes such as salt tolerance hyperthermostability barophilicity cold adaptivity and so on whilst also taking into consideration substrate specificity and affinity These evolved properties are linked to the metabolic functions of the enzymes and to the ecological aspects of the natural source New properties can also be discovered at the molecular level of catalysis particularly concerning the stereochemical characteristics of products Marine enzymes for biocatalysis initially examines the nature and level of interest in marine biological diversity and outlines the fundamentals of biocatalysis It goes on to detail sources of marine enzymes and to analyse examples from both chemical and stereochemical viewpoints of

catalysis including microbial enzymes and animal or plant sources The book goes on to explore the future potential of marine bioprospecting in biocatalysis Compiles studies from leading scientists in a direct and accessible format Includes practical descriptions of results adding further details not often covered in formal articles Takes a molecular view which fully explains the enzymatic aspects of reactions particularly regarding biocatalytic characteristics and descriptions of bioprocesses Selects examples of chemical and stereochemical aspects of enzymatic action with respect to known terrestrial counterparts

Encyclopedia of Ecology Brian D. Fath, 2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes

Comprehensive Natural Products III, 2020-07-22 Comprehensive Natural Products III Third Edition Seven Volume Set updates and complements the previous two editions including recent advances in cofactor chemistry structural diversity of natural products and secondary metabolites enzymes and enzyme mechanisms and new bioinformatics tools Natural products research is a dynamic discipline at the intersection of chemistry and biology concerned with isolation identification structure elucidation and chemical characteristics of naturally occurring compounds such as pheromones carbohydrates nucleic acids and enzymes This book reviews the accumulated efforts of chemical and biological research to understand living organisms and their distinctive effects on health and medicine and to stimulate new ideas among the established natural products community Provides readers with an in depth review of current natural products research and a critical insight into the future direction of the field Bridges the gap in knowledge by covering developments in the field since the second edition published in 2010 Split into 7 sections on key topics to allow students researchers and professionals to find relevant information quickly and easily Ensures that the knowledge within is easily understood by and applicable to a large audience

Brenner's Encyclopedia of Genetics Stanley Maloy, Kelly Hughes, 2013-03-03 The explosion of the field of genetics over the last decade with the new technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field Brenner's Encyclopedia of Genetics Second Edition Seven Volume Set builds on the

foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published. The currency and accessibility of this foundational content will be unrivalled, making this work useful for scientists and non scientists alike. Featuring relatively short entries on genetics topics written by experts in that topic, Brenner's Encyclopedia of Genetics, Second Edition, Seven Volume Set provides an effective way to quickly learn about any aspect of genetics from Abortive Transduction to Zygotes. Adding to its utility, the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study. Many of the entries include figures to explain difficult concepts. Key terms in related areas such as biochemistry, cell and molecular biology are also included, and there are entries that describe historical figures in genetics, providing insights into their careers and discoveries. This 7 volume set represents a 25% expansion from the first edition, with over 1600 articles encompassing this burgeoning field. Thoroughly up to date with many new topics and subfields covered that were in their infancy or not in existence at the time of the first edition. Timely coverage of emergent areas such as epigenetics, personalized genomic medicine, pharmacogenetics, and genetic enhancement technologies. Interdisciplinary and global in its outlook as befits the field of genetics. Brief articles written by experts in the field which not only discuss, define and explain key elements of the field but also provide definition of key terms, suggestions for further reading, and biographical sketches of the key people in the history of genetics.

Springer Handbook of Marine Biotechnology Se-Kwon Kim, 2015-01-21. This Springer Handbook provides for the first time a complete and consistent overview over the methods, applications and products in the field of marine biotechnology. A large portion of the surface of the earth, ca. 70%, is covered by the oceans. More than 80% of the living organisms on the earth are found in aquatic ecosystems. The aquatic systems thus constitute a rich reservoir for various chemical materials and biochemical processes. Edited by a renowned expert with a longstanding experience and including over 60 contributions from leading international scientists, the Springer Handbook of Marine Biotechnology is a major authoritative desk reference for everyone interested or working in the field of marine biotechnology and bioprocessing, from undergraduate and graduate students, over scientists and teachers to professionals. Marine biotechnology is concerned with the study of biochemical materials and processes from marine sources that play a vital role in the isolation of novel drugs and to bring them to industrial and pharmaceutical development. Today a multitude of bioprocess techniques is employed to isolate and produce marine natural compounds, novel biomaterials or proteins and enzymes from marine organisms and to bring them to applications as pharmaceuticals, cosmeceuticals or nutraceuticals or for the production of bioenergy from marine sources. All these topics are addressed by the Springer Handbook of Marine Biotechnology. The book is divided into ten parts. Each part is consistently organized so that the handbook provides a sound introduction to marine biotechnology from historical backgrounds and the fundamentals over the description of the methods and technology to their applications, but it can also be used as a reference work. Key topics include Marine flora and fauna, Tools and methods in marine biotechnology, Marine

genomics Marine microbiology Bioenergy and biofuels Marine bioproducts in industrial applications Marine bioproducts in medical and pharmaceutical applications and many more

Plant Pathology Nicola Luchi, 2022-07-12 This volume covers the latest developments in different areas of plant pathology The chapters in this volume are organized into seven parts Part One provides traditional methods for isolation and identification of invasive pathogens and root disease Part Two looks at new and rapid DNA extraction protocols from different samples and Part Three focuses on molecular detection protocols for identifying and quantifying plant pathogens including fungal and bacterial invasive species Part Four describes the application of metabarcoding in plant pathology and Part Five talks about plant pathogen interactions Part Six concentrates on population genomics of plant pathogens and Part Seven covers biocontrol on plant pathogens Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and thorough *Plant Pathology Methods and Protocols* is a valuable resource for researchers in the plant pathology community and discusses various approaches for the detection identification and control of plant diseases

Environmental Virology and Virus Ecology, 2018-06-14 *Environmental Virology* Volume 101 the latest in the *Advances in Virus Research* series contains new informative updates on the topic First published in 1953 this series covers a diverse range of in depth reviews providing a valuable overview of the current field of virology Updates to this release include sections on the host landscape and vector behavior key determinants of plant virus evolution and emergence plant virome analysis using spatial metagenomics host range evolution in generalist viruses the influence of environment water mediated spread and transmission of viruses viruses transmitted by means other than insect vectors and more Contains contributions from leading authorities in the field of virology Informs and updates on all the latest developments in the field Features a diverse range of virology topics including discussions of host landscape and vector behavior and viruses transmitted by means other than insect vectors

Biosurfactants for a Sustainable Future Hemen Sarma, Majeti Narasimha Vara Prasad, 2021-04-16 *Biosurfactants for a Sustainable Future* Explore the state of the art in biosurfactant technology and its applications in environmental remediation biomedicine and biotechnology *Biosurfactants for a Sustainable Future* explores recent developments in biosurfactants and their use in a variety of cutting edge applications The book opens a window on the rapid development of microbiology by explaining how microbes and their products are used in advanced medical technology and in the sustainable remediation of emerging environmental contaminants The book emphasizes the different techniques that are used for the production of biosurfactants from microorganisms and their characterization Various aspects of biosurfactants including structural characteristics developments production bio economics and their sustainable use in the environment and biomedicine are addressed and the book also presents metagenomic strategies to facilitate the discovery of novel biosurfactants producing microorganisms Readers will benefit from the inclusion of A

thorough introduction to the state of the art in biosurfactant technology techniques and applications An exploration of biosurfactant enhanced remediation of sediments contaminated with organics and inorganics A discussion of perspectives for biomedical and biotechnological applications of biosurfactants A review of the antiviral antimicrobial and antibiofilm potential of biosurfactants against multi drug resistant pathogens An examination of biosurfactant inspired control of methicillin resistant *Staphylococcus aureus* Perfect for academic researchers and scientists working in the petrochemical industry pharmaceutical industry and in the agroindustry Biosurfactants for a Sustainable Future will also earn a place in the libraries of scientists working in environmental biotechnology environmental science and biomedical engineering

Enzymes in Food and Beverage Processing Muthusamy Chandrasekaran, 2015-10-23 Biotechnology particularly eco friendly enzyme technologies has immense potential for the augmentation of diverse food products utilizing vast biodiversity resolving environmental problems owing to waste disposal from food and beverage industries In addition to introducing the basic concepts and fundamental principles of enzymes Enzymes in Foo *Microbial Community Studies in Industrial Wastewater Treatment* Maulin P. Shah, 2022-12-30 Focusing on microbial community structure in the field of wastewater treatment this book highlights structural analyses in relation to changes in physico chemical parameters It further covers physiological analyses of microbial communities enrichment of pure cultures of key species in relation to changes in physico chemical parameters and analyses and modelling of consequences of changes in microbial community structure Based on 16S rRNA gene sequencing groups of bacteria that perform nitrogen fixation nitrification ammonification and other biochemical processes are covered for an entire wastewater treatment plant bioreactor along with temporal dynamics of bacterial communities Features Describes the state of the art techniques and the application of omics tools in wastewater treatment reactors WWTRs Includes both the theoretical and practical knowledge on the fundamental roles of microorganisms in WWTRs Discusses environmental microbial community proteomics Covers relating function and community structure of complex microbial systems using neural networks Reviews the economics of wastewater treatment and the development of suitable alternatives in terms of performance and cost effectiveness This book is aimed at graduates and researchers in biological engineering biochemical engineering chemistry environmental engineering environmental microbiology systems ecology and environmental biotechnology **From Genes to Species: Novel Insights from**

Metagenomics Eamonn P. Culligan, Roy D. Sleator, 2016-10-07 The majority of microbes in many environments are considered as yet uncultured and were traditionally considered inaccessible for study through the microbiological gold standard of pure culture The emergence of metagenomic approaches has allowed researchers to access and study these microbes in a culture independent manner through DNA sequencing and functional expression of metagenomic DNA in a heterologous host Metagenomics has revealed an extraordinary degree of diversity and novelty not only among microbial communities themselves but also within the genomes of these microbes This Research Topic aims to showcase the utility of

metagenomics to gain insights on the microbial and genomic diversity in different environments by revealing the breadth of novelty that was in the past largely untapped

Functional Metagenomics: Tools and Applications Trevor C. Charles, Mark R. Liles, Angela Sessitsch, 2017-10-09 In this book the latest tools available for functional metagenomics research are described This research enables scientists to directly access the genomes from diverse microbial genomes at one time and study these metagenomes Using the modern tools of genome sequencing and cloning researchers have now been able to harness this astounding metagenomic diversity to understand and exploit the diverse functions of microorganisms Leading scientists from around the world demonstrate how these approaches have been applied in many different settings including aquatic and terrestrial habitats microbiomes and many more environments This is a highly informative and carefully presented book providing microbiologists with a summary of the latest functional metagenomics literature on all specific habitats

Metabolic Engineering for Bioprocess Commercialization Stephen Van Dien, 2016-07-16 This volume reviews the current metabolic engineering tools and technologies from a practical point of view and guides researchers as they overcome challenges at various stages of organism and bioprocess development Microbes have been engineered to produce a variety of industrial products such as fuels basic chemicals fine chemicals nutritional supplements and pharmaceutical intermediates and new tools such as gene synthesis advanced cloning techniques omics analysis and mathematical modeling have greatly accelerated the pace of innovation in the field Written by leading experts in the field from both academia and industry key topics include synthetic biology pathway engineering metabolic flux manipulation adaptive evolution and fermentation process scale up It is suitable for non specialists and is a valuable resource for anyone embarking on the exciting path to harnessing the metabolic potential of microorganisms

RNA Analysis Laurent Delpy, 2025-08-24 This volume explores the latest technologies for RNA analysis covering fundamental techniques and innovative approaches that expand our understanding of RNA biology The chapters in this book are organized into four parts reverse transcription and RNA capture methods high throughput sequencing methods RNA maturation splicing polyadenylation and epitranscriptomic modifications and RNA surveillance nonsense mediated mRNA decay These chapters aim to provide detailed protocols for select techniques used by molecular and computational biologists to isolate amplify detect modify and analyze RNA to gain insight into a wide range of cellular functions Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and comprehensive RNA Analysis Methods and Protocols is a valuable resource for students technicians and senior scientists who want to learn more about this dynamic field of RNA research

Effective Techniques for Bioinformatic Exploration Fazendeiro, Paulo, Leite, Carmelina, 2024-11-01 The field of biology and technology is constantly changing and growing However the abundance and intricacy of biological data present significant challenges for researchers educators and students Deciphering this vast sea of

information to extract meaningful insights can be difficult Traditional approaches often fail to provide comprehensive solutions to these intricate problems leaving many struggling to navigate the complexities of bioinformatics Effective Techniques for Bioinformatic Exploration brings new clarity to the world of bioinformatics offering a comprehensive solution to the challenges scholars face Through its meticulously crafted chapters this book provides a structured approach to understanding and applying bioinformatics principles Bridging the gap between theory and practice equips readers with the tools needed to tackle complex biological problems effectively Whether delving into genomics proteomics or machine learning models this book offers a roadmap for success This book empowers readers to overcome challenges and make meaningful contributions to the field by embracing the scientific method and showcasing the practical application of bioinformatics techniques

Next-Generation Sequencing and CRISPR-Cas Editing in Plant Virology Ahmed Hadidi, Henryk Hanokh Czosnek, John Wesley Randles, 2021-11-26

Marine Natural Products Research in South-East Asia Lik Tong Tan, Novriyandi Hanif, 2025-09-30 This unprecedented volume offers a comprehensive review of marine natural products research across Southeast Asia a region teeming with untapped marine biodiversity It provides an extensive survey of the chemistry and biology of specialized metabolites derived from marine organisms such as sponges tunicates soft corals and marine microbes Highlighting both the scientific advances and critical gaps the book identifies strategic areas for future research and drug discovery initiatives With its regional focus and collaborative insights this edited collection serves as a vital resource for researchers policymakers and industry stakeholders engaged in marine biotechnology and sustainable pharmaceutical development in one of the world's most biodiverse marine ecosystems

New and Future Developments in Microbial Biotechnology and Bioengineering Vijai G. Gupta, Susana Rodriguez-Couto, 2018-02-06 New and Future Developments in Microbial Biotechnology and Bioengineering Penicillium System Properties and Applications covers important research work on the applications of penicillium from specialists from an international perspective The book compiles advancements and ongoing processes in the penicillium system along with updated information on the possibilities for future developments All chapters are derived from current peer reviewed literature as accepted by the international scientific community These important fungi were found to secrete a range of novel enzymes and other useful proteins and are still being extensively studied and improved for specific use in the food textile pulp and paper biocellulosic ethanol production and other industries The book caters to the needs of researchers academicians dealing with penicillium spp related research and applications outlining emerging issues on recent advancements made in the area of research and its applications in bioprocess technology chemical engineering molecular taxonomy biofuels bioenergy research and alternative fuel development In addition the book also describes the identification of useful compound combinations enzyme cocktails and the fermentation conditions required to obtain them at an industrial scale Finally the book provides updated information on the best utilization of these fungi as a natural tool to meet the next challenges of biotechnology Compiles the latest

developments and current studies in the penicillium system Contains chapters contributed by top researchers with global appeal Includes current applications in bioindustry and lists future potential applications of these fungi species Identifies future research needs for these important fungi including the best utilization of them as a natural tool to meet the next challenges of biotechnology

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