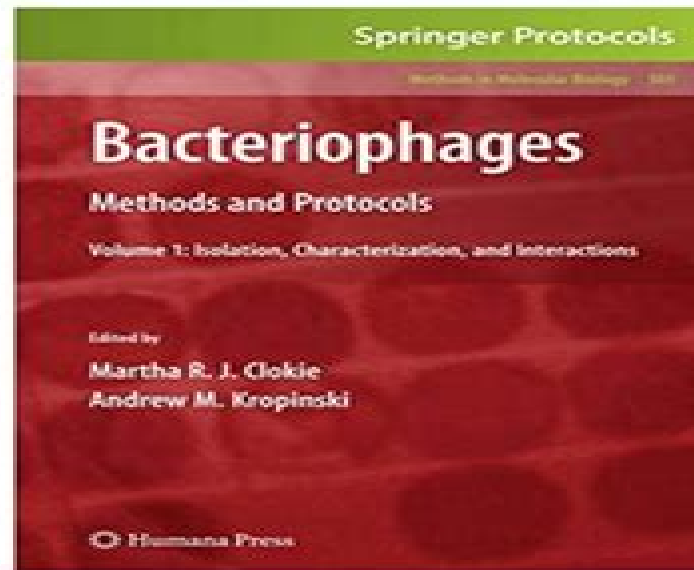


Bacteriophages: Methods and Protocols, Volume 1: Isolation, Characterization, and Interactions (Methods in Molecular Biology (501))



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**Martha R. J. Clokie, Andrew Maitland
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Bacteriophages Martha R. J. Clokie, Andrew Maitland Boleslaw Kropinski, Rob Lavigne, 2018

Bacteriophages David R. Harper, Stephen T. Abedon, Benjamin H. Burrowes, Malcolm L. McConville, 2021-01-30 This first major reference work dedicated to the manifold industrial and medical applications of bacteriophages provides both theoretical and practical insights into the emerging field of bacteriophage biotechnology The book introduces to bacteriophage biology ecology and history and reviews the latest technologies and tools in bacteriophage detection strain optimization and nanotechnology Usage of bacteriophages in food safety agriculture and different therapeutic areas is discussed in detail This book serves as essential guide for researchers in applied microbiology biotechnology and medicine coming from both academia and industry

Phage Therapy - Part A

,2023-09-22 Phage Therapy Part A Volume 200 is an informative text on phage and their use for treatment in bacterial infections The book highlights a number of aspects of the phage in a way that can help students researchers clinicians entrepreneurs and stakeholders perform their research with great interest Chapters in this new release cover An introduction to bacteriophage and their therapeutic applications Isolation screening and characterization of phage Synthetic phage and their application in phage therapy Phage engineering for development of diagnostic tools Phage design and directed evolution to evolve phage for therapy and more Additional sections cover Host phage interactions and modelling for therapy Phage and phage cocktails formulations Phage for treatment of Escherichia coli infection Phage for treatment of Klebsiella pneumoniae infection Phage for treatment of Salmonella spp infection Phage for treatment of Staphylococcus aureus infection and Phages for treatment of Acinetobacter baumannii infection Includes discussions on phage isolation screening and characterization Covers synthetic phage phage for diagnostic directed evolution and host interaction Presents the latest on phage for treatment of bacterial infections *Bacteriophages in the Control of Food- and Waterborne Pathogens* Parviz M. Sabour,Mansel W. Griffiths,2010-08-18 Gain a better understanding of how these fascinating microorganisms can help ensure a safe food supply Provides a unique comprehensive review of the literature on the application of bacteriophages as therapeutic and prophylactic agents in the food production and processing industries including food animals plants and aquaculture Describes how bacteriophages function explaining why they have the potential to be highly effective antimicrobials and explores opportunities to use bacteriophages to detect bacterial contamination of foods and water and to control pathogens during both food production and processing Examines bacteriophages that can have a negative effect on industrial food processes and bacteriophages that potentially can lead to the evolution of foodborne pathogens and covers safety and regulatory issues that are crucial to the success of bacteriophage use Serves as a resource for food microbiologists food industry professionals government regulators **Continuous Processing in Pharmaceutical Manufacturing** Ganapathy Subramanian,2015-02-09 With contributions from biotechnologists and bioengineers this ready reference describes the state of the art in industrial biopharmaceutical production with a strong focus on continuous processes Recent advances in single use technology as well as application guidelines for all types of biopharmaceutical products from vaccines to antibodies and from bacterial to insect to mammalian cells are covered The efficiency robustness and quality control of continuous production processes for biopharmaceuticals are reviewed and compared to traditional batch processes for a range of different production systems *Bacteriophages* Martha R. J. Clokie,Andrew Kropinski,2008-12-18 Ranging from the evolution of pathogenicity to oceanic carbon cycling the many and varied roles that bacteriophages play in microbial ecology and evolution have inspired increased interest within the scientific community *Bacteriophages Methods and Protocols* pulls together the vast body of knowledge and expertise from top international bacteriophage researchers to provide both classical and state of the art molecular techniques With its well organized

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Biocommunication in Soil Microorganisms Günther Witzany, 2010-11-01 Communication is defined as an interaction between at least two living agents which share a repertoire of signs These are combined according to syntactic semantic and context dependent pragmatic rules in order to coordinate behavior This volume deals with the important roles of soil bacteria in parasitic and symbiotic interactions with viruses plants animals and fungi Starting with a general overview of the key levels of communication between bacteria further reviews examine the various aspects of intracellular as well as intercellular biocommunication between soil microorganisms This includes the various levels of biocommunication between phages and bacteria between soil algae and bacteria and between bacteria fungi and plants in the rhizosphere the role of plasmids and transposons horizontal gene transfer quorum sensing and quorum quenching bacterial host cohabitation phage mediated genetic exchange and soil viral ecology

Quantitative Viral Ecology Joshua S. Weitz, 2016-01-05 When we think about viruses we tend to consider ones that afflict humans such as those that cause influenza HIV and Ebola Yet vastly more viruses infect single celled microbes Diverse and abundant microbes and the viruses that infect them are found in oceans lakes plants soil and animal associated microbiomes Taking a vital look at the microscopic mode of disease dynamics Quantitative Viral Ecology establishes a theoretical foundation from which to model and predict the ecological and evolutionary dynamics that result from the interaction between viruses and their microbial hosts Joshua Weitz addresses three major questions What are viruses of microbes and what do they do to their hosts How do interactions of a single virus host pair affect the number and traits of hosts and virus populations How do virus host dynamics emerge in natural environments when interactions take place between many viruses and many hosts Emphasizing how theory and models can provide answers Weitz offers a cohesive framework for tackling new challenges in the study of viruses and microbes and how they are connected to ecological processes from the laboratory to the Earth system Quantitative Viral Ecology is an innovative exploration of the influence of viruses in our complex natural world

Plant Hormones Sean Cutler, Dario Bonetta, 2009 The last 10 years have witnessed an explosion in our understanding of plant hormones The often vague models of hormone action developed over decades have been replaced in short order by detailed molecular models that include receptors and in many cases downstream signal transduction components Given the rapid progress in understanding the mechanism of action of plant growth regulators a technical review of hormone methodology is timely Our book focuses on genetic biochemical and

tical and chemical biological approaches for understanding and dissecting plant hormone action The greatest strides in plant hormone biology have come by and large from the use of genetic methods to identify receptors and we dedicate a chapter to general genetic methods of analysis using the model system *Arabidopsis thaliana* A cluster of chapters focuses on biochemical methods for documenting interactions between hormones and their receptors The importance of these assays is tremendous receptor ligand interactions in animal model systems have been the cornerstones of pharmacological and medicinal chemical assays that have enabled identification of selective and non selective agonists and antagonists that can be used to further probe and dissect questions of receptor function This is likely to be a major new frontier in plant hormone research

Bacteriophages to treat infections with multidrug resistant pathogens Dinesh Subedi, Mark Willcox, Tang Fang, Ram Bhusal, 2024-01-18

Bacteriophages Martha R. J. Clokie, Andrew Maitland Boleslaw Kropinski, 2009 Ranging from the evolution of pathogenicity to oceanic carbon cycling the many and varied roles that bacteriophages play in microbial ecology and evolution have inspired increased interest within the scientific community This book pulls together the vast body of knowledge and expertise from top international bacteriophage researchers to provide both classical and state of the art molecular techniques With its well organized modular design Volume 1 examines a multitude of topics including the isolation of phages morphological and molecular characterization and interaction with bacteria Volume 2 examines a multitude of topics including the bacteriophage genomics metagenomics transcriptomics and proteomics along with applied bacteriophage biology Written in the highly successful *Methods in Molecular Biology* series format chapters consist of brief introductions to the subject lists of the necessary materials and reagents readily reproducible laboratory protocols and a Notes section which details tips on troubleshooting and avoiding known pitfalls

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