

METHODS IN MOLECULAR MEDICINE™

Antibiotic Resistance

Methods and Protocols

Edited by

Stephen H. Gillespie



Humana Press

Antibiotic Resistance Methods And Protocols

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withstand the effects of antibiotics There are three mechanisms that can cause antibiotic resistance prevention of interaction of drug with target decreased uptake due to either an increased efflux or a decreased influx of the antimicrobial agent and enzymatic modification or destruction of the compound In the past couple years antibiotic resistance has become an increasing public health concern Tuberculosis gonorrhoea malaria and childhood ear infections are just a few of the diseases that have become hard to treat with antibiotic drugs This book addresses the concern that over the past few years there has been a major rise in resistance to antibiotics among gram negative bacteria New antibacterial drugs with novel modes of actions are urgently required in order to fight against infection Novel antibiotics such as linezolid carbapenem ertapenem daptomycin and gemifloxacin are examined in this book The genetic approaches used in risk assessment of antibiotic resistance dissemination are looked at as well Furthermore this book discusses the present studies on the use of veterinary antibiotics in agriculture on the occurrence of antibiotic compounds and resistant bacteria in soil and water and clearly demonstrates the need for further studies

Short Protocols in Molecular Biology Frederick M. Ausubel,2002 Recently expanded to 2 volumes Short Protocols in Molecular Biology Fifth Edition provides condensed descriptions of more than 700 methods compiled from Current Protocols in Molecular Biology Includes new chapters on chromatin assembly and analysis nucleic acid arrays generation and use of combinatorial libraries discovery and analysis of differentially expressed genes in single cells and cell populations The book is specifically designed to provide quick access to step by step instructions for the essential methods used in every major area of molecular biological research Short Protocols in Molecular Biology Fifth Edition is an authoritative and indispensable guide for all life scientists researchers and students at the graduate and advanced undergraduate level Expanded to 2 volumes

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Foodomics Jorge Barros-Velázquez,2021-03-31 Presents the most updated information on the main methodologies and technological platforms involved in foodomics

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Molecular Cloning Joseph Sambrook, David William Russell, 2001 The first two editions of this manual have been mainstays of molecular biology for nearly twenty years with an unrivalled reputation for reliability accuracy and clarity In this new edition authors Joseph Sambrook and David Russell have completely updated the book revising every protocol and adding a mass of new material to broaden its scope and maintain its unbeatable value for studies in genetics molecular cell biology developmental biology microbiology neuroscience and immunology Handsomely redesigned and presented in new bindings of proven durability this three volume work is essential for everyone using today's biomolecular techniques The opening chapters describe essential techniques some well established some new that are used every day in the best laboratories for isolating analyzing and cloning DNA molecules both large and small These are followed by chapters on cDNA cloning and exon trapping amplification of DNA generation and use of nucleic acid probes mutagenesis and DNA sequencing The concluding chapters deal with methods to screen expression libraries express cloned genes in both prokaryotes and eukaryotic cells analyze transcripts and proteins and detect protein protein interactions The Appendix is a compendium of reagents vectors media technical suppliers kits electronic resources and other essential information As in earlier editions this is the only manual that explains how to achieve success in cloning and provides a wealth of information about why techniques work how they were first developed and how they have evolved ICN ICN Pharmaceuticals, inc, 1999 **PCR Methods and Applications**, 1993 Emerging Contaminants in Water and Wastewater Himanshu Gupta, Sughosh Madhav, Soniya Dhiman, Ritu Mishra, 2025-02-09 This present book serves as a comprehensive compilation of various emerging contaminants in the ecosystem their contamination risk as well as the applicable remediation techniques Exploding urbanization and industrialization often combined with improved standards of living have resulted in deleterious effects on the quality of the environment Due to rapid growth of industrialization in the past few decades large amounts of undesirable wastes are being discharged into the environment threatening the survival of living beings on the earth In the recent years the problems regarding pollution have become more global and awareness about the environmental problems is increasing continuously Environmental awakening has led many scientists to focus on the assessment of environmental impact of various emerging contaminants The first victims of the environmental pollution are the terrestrial plants and aquatic bodies in the vicinity of urban areas that experience heavy pollution due to industrial effluents toxic chemicals hospital waste radioactive waste

industrial fumes vehicular traffic etc The increasing industrialization and use of hazardous chemicals are responsible for the lack of access to clean water in many parts of the world In view of the widespread occurrence persistence and harmful effects of environmental pollutants on human population the present book is proposed Emerging contaminants due to ubiquitous distribution persistence and toxic effects have necessitated the development of efficient methods for remediation of contamination Reports appearing from time to time reveal that the number and concentration of contaminants in the environment are continuously increasing Thus development as well as dissemination of new and eco friendly methods for the removal of these pollutants has become a challenging task

Genetically Modified Organisms in Food Ronald Ross Watson, Victor R Preedy, 2015-08-20 Genetically Modified Organisms in Food focuses on scientific evaluation of published research relating to GMO food products to assert their safety as well as potential health risks This book is a solid reference for researchers and professionals needing information on the safety of GMO and non GMO food production the economic benefits of both GMO and non GMO foods and includes in depth coverage of the surrounding issues of genetic engineering in foods This is a timely publication written by a team of scientific experts in the field who present research results to help further more evidence based research to educate scientists academics government professionals about the safety of the global food supply Provides the latest on research and development in the field of GMOs and non GMO safety issues and possible risk factors incorporating evidence based reviews for a better understanding of these issues Covers various aspects of GMO production analysis and identification to better understand GMO development and use Includes definitions a brief overview and history of GM foods from a global perspective and concise summaries with recommendations for actions for each chapter

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