

Molecular Biotechnology Glick

Molecular Biotechnology Outlines and Highlights for Molecular Biotechnology Plant Growth and Health Promoting Bacteria The Evolution of Molecular Biology Molecular Biotechnology Electroporation Protocols for Microorganisms Studyguide for Molecular Biotechnology by Glick, Bernard J Methods in Plant Molecular Biology and Biotechnology Sustainable Agriculture: Biotechniques in Plant Biology Molecular Biology of the Cell Plant Breeding Abstracts Plant Health Under Biotic Stress An Introduction to Molecular Biotechnology Biotechnology of Aquatic Animals Studyguide for Molecular Biotechnology by Bernard J Glick, ISBN 9781555814984 Soil Salinity Management in Agriculture Plant Tolerance to Environmental Stress Applied and Environmental Microbiology Biotechnology and the Research Enterprise Biotechnology Bernard R. Glick Cram101 Textbook Reviews Dinesh K. Maheshwari Kensal Van Holde Channarayappa Jacob A. Nickoloff Cram101 Textbook Reviews Bernard R. Glick Javid Ahmad Paray Rizwan Ali Ansari Michael Wink R Nagabhushanam Bernard J. Glick S. K. Gupta Mirza Hasanuzzaman William F. Woodman Susan R. Barnum

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molecular biotechnology molecular biotechnology principles and applications of recombinant dna sixth edition an authoritative introduction to the fast changing world of molecular biotechnology in continuous publication since 1994 and now in its sixth edition molecular biotechnology principles and applications of recombinant dna has been effective in introducing this complex field to students for more than 25 years this textbook covers essentially every aspect of the field of molecular biotechnology which is constantly changing and adapting in light of new advances this edition includes the latest techniques in dna sequencing and genetic engineering of microbial plant and animal genomes including human genome editing as well as updates across many areas such as immunological assays for disease diagnosis more effective bacteriophage therapy and new ways of dealing with antibiotic resistant bacteria new and developing vaccines for influenza tuberculosis and emerging viral threats including zika and sars cov 2 engineering bacteria to perform plastic degradation and green algae to produce hydrogen altering amino acid biosynthesis and creating designer cellulosomes production of humanized monoclonal antibodies in plants modifying hybrid plants to produce clonal hybrids and protecting plants from viral and fungal diseases molecular biotechnology features nearly 600 detailed figures and is an ideal textbook for undergraduate and graduate courses in introductory biotechnology as well as courses dedicated to utilizing this technology such as medical agricultural environmental and industrial biotechnology applications

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to cope with the increasing problems created by agrochemicals such as plant fertilizers pesticides and other plant protection agents biological alternatives have been developed over the past years these include biopesticides such as bacteria for the control of plant diseases and biofertilizer to improve crop productivity and quality especially plant growth promoting rhizobacteria pgpr are as effective as pure chemicals in terms of plant growth enhancement and disease control in addition to their ability to manage abiotic and other stresses in plants the various facets of these groups of bacteria are treated in this microbiology monograph with emphasis on their emergence in agriculture further topics are bacillus species that excrete peptides and lipopeptides with antifungal antibacterial and surfactant activity plant bacteria environment interactions mineral nutrient exchange nitrogen assimilation biofilm formation and cold tolerant microorganisms

the evolution of molecular biology the search for the secrets of life provides the historical knowledge behind techniques founded in molecular biology also presenting an appreciation of how and by whom these discoveries were made it deals with the evolution of intellectual concepts in the context of active research in an approachable language that accommodates readers from a variety of backgrounds each chapter contains a prologue and epilogue to create continuity and provide a complete framework of molecular biology this foundational work also functions as a historical and conceptual supplement to many related courses in biochemistry biology chemistry genetics and history of science in addition the book demonstrates how the roots of discovery and advances and an individual s own research have grown out of the history of the field presenting a more complete understanding and context for scientific discovery expands on the development of molecular biology from the convergence of two independent disciplines biochemistry and genetics discusses the value of molecular biology in a variety of applications includes research ethics and the societal implications of research emphasizes the human aspects of research and the consequences of such advances to society

providing a strong base in this emerging and highly promising field molecular biotechnology principles and practice strikes a balance between two important aspects of the science the theory of molecular biology and the experimental approach to the study of biological processes the main feature of this book is that it covers a wide range of molecular techniques in biotechnology and is designed to be a student and teacher friendly textbook each technique is described conceptually followed by a detailed experimental account of the steps involved the book can also serve as reference to the interested reader who is venturing into the field of biotechnology for the first time

electroporation is one of the most widespread techniques used in modern molecular genetics it is most commonly used to introduce dna into cells for investigations of gene structure and function and in this regard electroporation is both highly versatile being effective with nearly all species and cell types and highly efficient for many cell types electroporation is either the most efficient or the only means known to effect gene transfer however exposure of cells to brief hi intensity electric fields has found broad application in other aspects of biological research and is now routinely used to introduce other types of biological and analytic molecules into cells to induce cell cell fusion and to transfer dna directly between different species the first seven chapters of electroporation protocols for micro organisms describe the underlying theory of electroporation the commercially available instrumentation and a number of specialized electroporation applications such as cdna library construction and interspecies dna electrotransfer each of the remaining chapters presents a well developed method for electrotransformation of a particular bacterial fungal or protist species these chapters also serve to introduce those new to the field the important research questions that are currently being addressed with particular organisms highlighting both the major advantages and limitations of each species as a model organism and explaining the roles that electroporation has played in the development of the molecular genetic systems currently in use

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methods in plant molecular biology and biotechnology emphasizes a variety of well tested methods in plant molecular biology and biotechnology for each detailed and tested protocol presented a brief overview of the methodology is provided this overview considers why the protocol is used what other comparable methods are available and what limitations can be expected with the protocol other chapters in the book present overviews regarding how to approach particular problems and introduce unique methods such as how to use computer methodology to study isolated genes the book will be a practical reference for plant physiologists plant molecular biologists phytopathologists and microbiologists

this book will be of immense helpful to the students of plant biotechnology agricultural sciences microbiology of both undergraduate and postgraduate levels in universities colleges and research institutes besides the book will be quite supportive researchers who work in the field of plant biotechnology and agricultural sciences in this book the main focus will be on advanced genome editing approaches for the production of gm crops besides their socioeconomic ethical and risk biosafety assessments nanotechnology is the new emerging and fascinating field of science finds its application in almost all the major research areas and its uses in agriculture and food sectors are incipient the books seems to be first in summarizing the two way interactive approach in the field of plant biotechnology and setting of a new arena in shaping the new bio techniques towards the sustainable cause

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the book illustrates the use of putative microbial agents which provide good protection to the plant from biotic pathogens attack an up to date knowledge on plant microbiome interaction strategies in terms of improved sustainability has been discussed information from experts across the globe on the application of microbes for providing amicable solution in sustainable agriculture has been gathered in addition information related to microbes mediated resistance levels leading to enhanced plant health has been well presented the chapters have emphasised the use of plant growth promoting rhizobacteria pgpr and other potential biocontrol agents antagonists in the management of plant diseases which provide extensive information to the readers literature on microbial root colonization plant growth promotions and also on the protection of plants from attack of various soil borne pathogens have been presented in a coherent way information on the application of potential strain of the bio control fungi endophytes actinomycetes strengthening the plants ability which rescue the plant from pathogens attack leading to improved plant health has also been underpinned

on 800 pages this textbook provides students and professionals in life sciences pharmacy and biochemistry with a very detailed introduction to molecular and cell biology including standard techniques key topics and biotechnology in industry

the book aims to present the current developments in select areas of biotechnology of

aquatic animals covering relevant information from the different fields the book is a comprehensive set of reviews of our existing knowledge in biotechnology of aquatic animals it is written principally as a comprehensive reference for students and teachers

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this important volume soil salinity management in agriculture addresses the crucial issue of soil salinity of potential farmland and provides a comprehensive picture of the saline environment and plant interactions along with management and reclamation methods and policies with contributions from researchers from the fields of agricultural chemistry soil science biotechnology agronomy environmental sciences and plant breeding and genetics the volume emphasizes a multidisciplinary approach

global climate change affects crop production through altered weather patterns and increased environmental stresses such stresses include soil salinity drought flooding metal metalloid toxicity pollution and extreme temperatures the variability of these environmental conditions paired with the sessile lifestyle of plants contribute to high exposure to these stress factors increasing tolerance of crop plants to abiotic stresses is needed to fulfill increased food needs of the population this book focuses on methods of improving plants tolerance to abiotic stresses it provides information on how protective agents including exogenous phytoprotectants can mitigate abiotic stressors affecting plants the application of various phytoprotectants has become one of the most effective approaches in enhancing the tolerance of plants to these stresses phytoprotectants are discussed in detail including information on osmoprotectants antioxidants phytohormones nitric oxide polyamines amino acids and nutrient elements of plants providing a valuable resource of information on phytoprotectants this book is useful in diverse areas of life sciences including agronomy plant physiology cell biology environmental sciences and biotechnology

biotechnology encompasses the processes and methods used to manipulate living organisms or the substances and products from these organisms for medical agricultural and industrial purposes barnum not only supplies the big picture of the biotechnology field but provides in depth details to illustrate the technology traditionally biotechnology texts have been too narrow in coverage and focused only on the methods used in biotechnology in contrast barnums text extensively covers the topics with lots of

examples and case studies and discusses the implications in areas such as gene therapy medicine agriculture marine biology and forensics designed to grab the interest of students and make the topics relevant to them barnums text is an excellent integration of historical and modern biotechnology topics

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