



Maintaining Cultures for Biotechnology and Industry

Edited by
Jennie C. Hunter-Cevera
Angela Belt

Maintaining Cultures For Biotechnology And Industry



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Maintaining Cultures For Biotechnology And Industry:

Maintaining Cultures for Biotechnology and Industry Jennie C. Hunter-Cevera, Angela Belt, 1996-02-21 To retain their usefulness cultures that manufacture economically valuable products must be uncontaminated viable and genetically stable. *Maintaining Cultures for Biotechnology and Industry* gives practical advice necessary to preserve and maintain cells and microorganisms important to the biotechnology and pharmaceutical industries in ways that ensure they will continue to be able to synthesize those valuable metabolites. This book covers not just those strains currently being used but also those yet to be discovered and engineered. This text is essential for anyone working with cultures who wants to avoid the frustration of losing strains and needs to be able to devise and evaluate new strategies for preservation. Written by hands on experts in their respective fields. Contains helpful tables and protocols for preserving or maintaining cells, cultures and viruses. Discusses means to preserve cells by freezing, lyophilization, drying, cryoprotection, spore storage, continuous propagation and subculturing when absolutely necessary and others. Gives information needed to test cultures for stable retention of important characteristics. Gives principles needed to devise and evaluate preservation strategies for newly identified and newly engineered cells and organisms. Lists culture sources for each class of organism. Includes information for characterizing and monitoring recombinant organisms, especially important because of their propensity for genetic stability. Discusses the history of the continually evolving field of culture preservation. Examines the importance of genetically stable cultures as it relates to maintaining patent positions.

Handbook of Industrial Cell Culture Victor A. Vinci, Sarad R. Parekh, 2002-12-06 A diverse team of researchers, technologists and engineers describe in simple and practical language the major current and evolving technologies for improving the biocatalytic capabilities of mammalian, microbial and plant cells. The authors present state of the art techniques, proven methods and strategies for industrial screening, cultivation and scale up of these cells and describe their biotech and industrial uses. Special emphasis is given to the solving critical issues encountered during the discovery of new drugs, process development and the manufacture of new and existing compounds. Other topics include recombinant protein expression, bioinformatics, high throughput screening, analytical tools in biotechnology, DNA shuffling and genomics discovery.

Practical Fermentation Technology Brian McNeil, Linda Harvey, 2008-04-15 A hands on book which begins by setting the context, defining fermentation and the possible uses of fermenters and setting the scope for the book. It then proceeds in a methodical manner to cover the equipment for research scale fermentation, labs, the different types of fermenters available, their uses and modes of operation. Once the lab is equipped, the issues of fermentation media, preservation strains and strain improvement strategies are documented along with the use of mathematical modelling as a method for prediction and control. Broader questions such as scale up and scale down, process monitoring and data logging and acquisition are discussed before separate chapters on animal cell culture systems and plant cell culture systems. The final chapter documents the way forward for fermenters and how they can be

used for non manufacturing purposes A glossary of terms at the back of the book along with a subject index will prove invaluable for quick reference Edited by academic consultants who have years of experience in fermentation technology each chapter is authored by experts from both industry and academia Industry authors come from GSK UK DSM Netherlands Eli Lilly USA and Broadley James UK USA

Molecular Plant Breeding Yunbi Xu,2010 Recent advances in plant genomics and molecular biology have revolutionized our understanding of plant genetics providing new opportunities for more efficient and controllable plant breeding Successful techniques require a solid understanding of the underlying molecular biology as well as experience in applied plant breeding Bridging the gap between developments in biotechnology and its applications in plant improvement Molecular Plant Breeding provides an integrative overview of issues from basic theories to their applications to crop improvement including molecular marker technology gene mapping genetic transformation quantitative genetics and breeding methodology [La Biotecnologia](#) ,

Managing Microorganisms David Smith,Matthew J. Ryan,Alan G. Buddie,2023-03-21 A significant portion of basic and applied life science research requires microorganisms as study specimens Managing Microorganisms aims to be the standard reference for anyone who works with microorganisms primarily bacteria and fungi It is applicable to researchers who maintain their own collections of strains and those who use one of the many public service culture collections Managing Microorganisms is an essential reference for anyone working with microorganisms and culture collections In addition it will be of great use for academic researchers and students in applied life sciences especially those who are involved in sourcing and maintaining reference strains whilst it also will provide a useful guide for consultants biotechnologists and other members of bioindustry

Industrial Applications of Soil Microbes: Volume 4 Shampi Jain,Ashutosh Gupta,Neeraj Verma,2024-11-22 Industrial Applications of Soil Microbes is a compilation of reviews on the industrial usage of soil microorganisms Readers will be updated about recent applications of soil bacteria fungi and viruses in sectors such as agriculture biotechnology environmental management Volume 4 includes review on mycorrhizal fungi endophytes and a range of microbial chemicals and processes beneficuall at industrial scale The 19 chapters start with an overview of mycorrhizae as biofertilizers their symbiosis with plants and their applications in improving crop yield stress management and soil health Case studies on Lycopersicon esculentum highlight practical benefits Soil microbes endophytes and microbial proteases are discussed for their role in biocontrol disease management and crop improvement The volume also explores eco friendly nematicides viruses in temperate fruit crops mushrooms nutritional value and metagenomics for bioinoculants Overall the volume emphasizes sustainable practices and future prospects involving microbes and microbe assisted processes

Soft Chemistry and Food Fermentation Alexandru Mihai Grumezescu,Alina Maria Holban,2017-07-18 Soft Chemistry and Food Fermentation Volume Three the latest release in the Handbook of Food Bioengineering series is a practical resource that provides significant knowledge and new perspectives in food processing and preservation promoting renewable resources by applying soft ecological techniques i e soft chemistry Fermentation

represents a simple and very efficient way to preserve food in developing countries where other methods depending on specialized instruments are not available Through processes of soft chemistry and fermentation food ingredients can be produced with improved properties such as probiotics able to promote health Includes the most recent scientific progress with proven biological physical and chemical applications of the food engineering process to understand fermentation Presents novel opportunities and ideas for developing and improving technologies in the food industry that are useful to researchers in food bioengineering Provides eco friendly approaches towards components materials and technologies developed for improvements in food quality and stability Includes valuable information useful to a wide audience interested in food chemistry and the bioremediation of new foods Molecular Wine Microbiology Alfonso V. Carrascosa Santiago,Rosario Munoz,Ramon Gonzalez Garcia,2011-05-23 Molecular Wine Microbiology features rigorous scientific content written at a level comprehensible for wine professionals as well as advanced students It includes information on production and spoilage issues the microbial groups relevant for wine production and microbial wine safety Microbiology has long been recognized as a key tool in studying wine production however only recently have wine microbiology studies been addressed at a molecular level increasing the understanding of how microbiology impacts not only the flavor quality of the wine but also its safety Understanding at a molecular level how a starter culture can impact ethanol glycerol volatile phenols mannoproteins biogenic amines or ochratoxin A of a wine are just some of the core points that must be considered in order to achieve maximum consumer acceptability while addressing safety concerns during processing and storage While other books offer insights into the technological aspects of enology this book is written by expert microbiologists who explore the positive and negative impacts of gene function in the production of wine from a microbiological point of view Winner of the 2012 Jury Award in Enology from the International Organisation of Vine and Wine Presents the most current methods of studying the microbiology of wine Includes latest identification and typing methods reducing identification time from days and weeks to minutes and hours Provides important knowledge about the impact of microbiological factors at the molecular level for reduction of wine spoilage and increased wine quality and safety

Fermented Milk and Dairy Products Anil Kumar Puniya,2015-08-18 This book examines all advanced areas of research on fermented milks and includes the most recent references available It covers the types of products based on fermentation pattern indigenous products the microbiological processes involved starter cultures involved in the production nutritional and functional aspects various health benefits associated with these products and quality assurance and future prospects All these issues linked to fermented milk and milk products are discussed in detail using a global perspective

Fermentation Processes Engineering in the Food Industry Carlos Ricardo Soccol,Ashok Pandey,Christian Larroche,2013-03-27 With the advent of modern tools of molecular biology and genetic engineering and new skills in metabolic engineering and synthetic biology fermentation technology for industrial applications has developed enormously in

recent years Reflecting these advances Fermentation Processes Engineering in the Food Industry explores the state of the art of the engineering technology aspects of fermentation processes in diverse food sectors The book describes the benefits of fermented foods in human health in both dairy and non dairy products and beverages It examines applications of microalgae in the food industry and explains the application of metabolic engineering in the production of fermented food ingredients Exploring a host of important topics in engineering fermentation processes the book covers topics such as Methods and techniques for the isolation improvement and preservation of the microbial cultures used in the food fermentation industry The fundamentals of fermentation processes modes of fermentation and the principles of upstream operation Physical and chemicals factors that affect fermentation processes Different types of fermenters employed in submerged and solid state fermentation Unitary operations for solid liquid separation concentration and drying of fermented foods Instrumentation and control of industrial fermentation processes The final chapter discusses the potential application of a biorefinery concept to add value to food industry wastes and presents a case study describing an integrated project in which the concept was applied An essential reference for all food sector professionals this volume surveys critical trends in the food beverage and additive industry and explores the sustainability of these processes Plant Tissue Culture Roberta H. Smith,2000 This manual provides laboratory exercises in plant tissue culture which demonstrate major educational concepts It includes sections on scheduling and interrelationships of exercises tissue culture setup supplies and media

Handbook of Industrial Food Microbiology Manju Nehra,Vikash Nain,2024-08-23 This new reference volume Handbook of Industrial Food Microbiology introduces industrial microbiology in the food industry The techniques and technologies discussed in the book focus on production processing and recovery of food industry metabolites primary or secondary The process of alcohol production fermentation metabolites and drug delivery components through food are the main highlights of the book The authors use their research and academic experience in food science and technology research and other areas of applied microbiology to serve as a foundation for this volume The volume first provides an introduction to and history of industrial food microbiology and goes on to discuss the biology of industrial food microbiology food fermentation systems microbial production of metabolites and downstream processing The book lays out the principles of overproduction of metabolites in the food industry and also addresses biomass production immobilization of enzymes in food systems and waste treatment in the food industries The volume clearly covers the elements and basic concepts of biology and microbiology for the benefit of students who may not be familiar with the biological sciences that act as base of industrial microbiology such as for example graduates of chemical and civil engineering Intended for undergraduates and beginning graduate students in chemical engineering microbiology and biotechnology the volume will also be of interest to those who are studying pharmacy biochemistry and general biology Students and professionals in the fields of civil engineering and public health will be interested in the section on waste disposal Algae and Cyanobacteria in Extreme Environments Joseph

Seckbach,2007-09-25 This collection of essays is devoted to algae that are unexpectedly found in harsh habitats The authors explain how these algae thrive in various temperature ranges extreme pH values salt solutions UV radiation dryness heavy metals anaerobic niches various levels of illumination and hydrostatic pressure Not only do the essays provide clues about life on the edges of the Earth but possibly elsewhere in the universe as well Biosimilars and Interchangeable Biologics Sarfaraz K. Niazi,2016-01-05 What s the Deal with Biosimilars Biosimilars are gaining momentum as new protein therapeutic candidates that can help fill a vital need in the healthcare industry The biological drugs are produced by recombinant DNA technology that allows for large scale production and an overall reduction time in costs and development Part of a two volume set th *Plant Pathologist's Pocketbook* J. M. Waller,Jillian M. Lenné,Sarah J. Waller,2002 This book contains 5 sections covering the main activity groups in plant pathology Topics discussed include epidemiology and disease forecasting disease management disease resistance biochemical and molecular techniques and electronic databases and information technology **basic microbiology for nursing and health science** , *Microbial Production of Food Ingredients, Enzymes and Nutraceuticals* Brian McNeil,David Archer,Ioannis Giavasis,Linda Harvey,2013-03-21 Bacteria yeast fungi and microalgae can act as producers or catalysts for the production of food ingredients enzymes and nutraceuticals With the current trend towards the use of natural ingredients in foods there is renewed interest in microbial flavours and colours food bioprocessing using enzymes and food biopreservation using bacteriocins Microbial production of substances such as organic acids and hydrocolloids also remains an important and fast changing area of research Microbial production of food ingredients enzymes and nutraceuticals provides a comprehensive overview of microbial production of food ingredients enzymes and nutraceuticals Part one reviews developments in the metabolic engineering of industrial microorganisms and advances in fermentation technology in the production of fungi yeasts enzymes and nutraceuticals Part two discusses the production and application in food processing of substances such as carotenoids flavonoids and terpenoids enzymes probiotics and prebiotics bacteriocins microbial polysaccharides polyols and polyunsaturated fatty acids Microbial production of food ingredients enzymes and nutraceuticals is an invaluable guide for professionals in the fermentation industry as well as researchers and practitioners in the areas of biotechnology microbiology chemical engineering and food processing Provides a comprehensive overview of microbial flavours and colours food bioprocessing using enzymes and food biopreservation using bacteriocins Begins with a review of key areas of systems biology and metabolic engineering including methods and developments for filamentous fungi Analyses the use of microorganisms for the production of natural molecules for use in foods including microbial production of food flavours and carotenoids **Fungi and their Role in Sustainable Development: Current Perspectives** Praveen Gehlot,Joginder Singh,2018-09-09 This book illustrates the multiple roles of fungi in everyday life Fungi are the large group of organisms with tremendous diversity and economic importance Their ability to produce commercially efficient useful products makes them the vulnerable sustainable tool for the future

generation This book describes a systems approach and provides a means to share the latest developments and advances about the benefits of fungi including their wide application traditional uses modern practices along with designing of strategies to harness their potential The chapters are organized with data providing information related to different sustainable aspects of fungi in agriculture its cultivation and conservation strategies industrial and environmental utilization advanced bioconversion technologies and modern biotechnological interventions Updated information and current opinion related to its application for sustainable agriculture environment and industries as futuristic tools have been presented and discussed in different chapters The book also elucidates a comprehensive yet a representative description of the challenges associated with the sustained application of fungi to achieve the goals of sustainability *Progress in Mycology* Tulasi Satyanarayana, Sunil Kumar Deshmukh, Mukund V. Deshpande, 2021-08-20 Indian mycologists have extensively studied various groups of fungi such as soil fungi aquatic fungi marine fungi endophytic fungi fungi associated with man and animals Though several books on various aspects of fungi are published this is the first account of the history and developments in mycology in India It discusses at length various stages of development of mycology including both classical and biotechnological aspects It begins with a historical account of Indian mycology followed by a description of research on fossil fungi Further chapters cover the latest updates on different taxonomic groups of fungi A dedicated section describes the roles and applications of fungal endophytes The book also includes research in other important areas such as mushrooms and wood rotting fungi Different chapters are written by leading mycologists This book is useful to students teachers and researchers in botany microbiology biotechnology and life sciences agriculture and industries using fungi to produce various valuable products

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