



# **Maintaining Cultures for Biotechnology and Industry**

*Edited by*  
**Jennie C. Hunter-Cevera**  
**Angela Belt**

# Maintaining Cultures For Biotechnology And Industry

**Brian McNeil, Linda Harvey**



## **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 cyoprotection 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

Upstream Industrial Biotechnology, 2 Volume Set Michael C. Flickinger, 2013-07-22 Biotechnology represents a major area of research focus and many universities are developing academic programs in the field This guide to biomanufacturing contains carefully selected articles from Wiley's Encyclopedia of Industrial Biotechnology Bioprocess Bioseparation and Cell Technology as well as new articles 80 in all and features the same breadth and quality of coverage and clarity of presentation found in the original For instructors advanced students and those involved in regulatory compliance this two volume desk reference offers an accessible and comprehensive resource

**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      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      **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      *Microbial Resource Conservation* Sushil K. Sharma,Ajit Varma,2018-10-31 This book covers broad

areas in the conservation of microorganisms It addresses the short medium and long term preservation of agriculturally important microorganisms as well as culture collections and their roles The respective chapters address topics such as conventional approaches to bacterial fungal and algal preservation as well as methods and strategies for preserving recalcitrant microorganisms Readers will also find the latest insights into the preservation of vesicular arbuscular VA fungi and ecology diversity and conservation of endophytes and entamopathogenic fungi Microbes of animal and dairy origin their preservation and biosafety issues are also explored Microorganisms are the silent and unseen majority of life on Earth and are characterized by a high degree of genetic and metabolic diversity It is well documented that no branch of science or society is unaffected by microbial interventions Researchers have documented microorganisms from such extreme and unique environments as deserts and hydrothermal vents and with specific traits that are currently being exploited in agriculture industry medicine and biotechnological applications Such great potential can only be found in microorganisms The aim of this book the first entirely devoted to the conservation of microorganisms and to regulatory mechanisms for access and benefits sharing as per Biological Diversity BD Act 2002 is to promote awareness of our world s microbial wealth and to introduce readers to strategies and methodologies for the conservation of microorganisms which could ultimately save human life on Earth *Advances in Probiotic Technology* Petra ger,Chalat Santivarangkna,2015-08-10 The future prospects of probiotics lie in the successful application of individual strains with specific beneficial effects on the host This development implies that not only the most robust strains are selected but also strains with a promising probiotic function with moderate or high sensitivity to processing stresses This also means an increas

**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

**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 *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 beneficial 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

*Handbook of Biogeneric Therapeutic Proteins* Sarfaraz K. Niazi, 2002-08-15 More than 20 billion dollars worth of biopharmaceuticals are scheduled to go off patent by 2006 Given the strong political impetus and the development of technological tools that can answer the questions regulatory authorities may raise it is inevitable that the FDA and EMEA will allow biogeneric or biosimilar products Even with all the regulatory hurdles

Recent Advances in Environmental Science K. G. Hiremath, 2003 The book contains articles covering a wide range of subjects of environmental science The terrestrial section has articles on air pollution solid waste ground water regime western ghats eastern ghats mining medicinal plants ethnobotany role of pesticides agriculture microbial sensors wetlands and ornithological studies The marine environmental aspect such as mangroves application of remote sensing harmful algal blooms bio remediation sustainable management of molluscan resources benthic fauna deep seabed mining and bio fouling have been dealt in the marine environment section

**Reference Materials for Chemical Analysis** Markus Stoeppler, Wayne R. Wolf, Peter J. Jenks, 2008-07-11 There are many academic references describing how RMs are made but few that explain why they are used how they should be used and what happens when they are not properly used In order to fill this gap the editors have taken the contributions of more than thirty RM practitioners to produce a highly readable text organized in nine chapters Starting with an introduction to historical theoretical and technical requirements the book goes on to examine all aspects of RM production from planning preparation through analysis to certification reviews recent development areas RMs for life analysis and some important general application fields considers the proper usage of RMs gives advice on availability and sources of information and lastly looks at future trends and needs for RMs This book is intended to be a single point of information that both guides the reader through the use of RMs and serves as a primary reference source It should be on the reading list of anyone working in an analytical laboratory and be found on the library shelf of all analytical chemical laboratories

**Waste to Wealth** Reeta Rani Singhania, Rashmi Avinash Agarwal, R. Praveen Kumar, Rajeev K Sukumaran, 2017-12-07 This book focuses on value addition to various waste streams which include industrial waste agricultural waste and municipal solid and liquid waste It addresses the utilization of waste to generate valuable products such as electricity fuel fertilizers and chemicals while placing special emphasis on environmental concerns and presenting a

multidisciplinary approach for handling waste Including chapters authored by prominent national and international experts the book will be of interest to researchers professionals and policymakers alike

**Publications and Patents of the National Center for Agricultural Utilization Research, Peoria, Illinois** National Center for Agricultural Utilization Research (U.S.),1990

*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 pharmabiotics 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

**Philippine Fermented Foods** Priscilla C. Sanchez,2008 Based on the author s extensive experience as professor and

practitioner in the field of applied microbiology the book provides a detailed description of Philippine fermented foods the process of improving traditional fermentation methods and the production of nutritious safe and wholesome foods through fermentation Standards regulations and laws promulgated for the proper monitoring of fermented foods to ensure their safety are also discussed The comprehensive data presented on ethnic foods are not found elsewhere making it an indispensable resource for scientists food technologists students teachers as well as the food industry BOOK JACKET



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