

U Satyanarayana Plant Biotechnology

Biotechnology From Ethnomycology to Fungal Biotechnology Microbial Diversity and Biotechnology in Food Security Thermophilic Fungi Biocontrol Potential and its Exploitation in Sustainable Agriculture Biocontrol Potential and its Exploitation in Sustainable Agriculture Microbial Enzyme Technology in Food Applications History of Soybean Variety Development, Breeding and Genetic Engineering (1902-2020) Tea Fungi Fungi from Different Environments Role of Plant Tissue Culture in Biodiversity Conservation and Economic Development Indian Science Abstracts Wiley Encyclopedia of Chemical Biology, Volume 1 The Indian Journal of Genetics & Plant Breeding The Botanica Fungal Biotechnology Microbial Diversity Plant Breeding Abstracts Plant Growth Regulator Abstracts U. Satyanarayana Jagjit Singh R.N. Kharwar Raj Kumar Salar Rajeev K. Upadhyay R. K. Upadhyay Ramesh C. Ray William Shurtleff; Akiko Aoyagi M. J. Mulky Sunil K. Deshmukh J K Misra S. K. Nandi Tadhg P. Begley Timm Anke S. P. Gautam

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fungi play a major role in the sustainability of the biosphere and mycorrhizal fungi are essential for the growth of many of our woods and forests the applications of fungi in agriculture industry and biotechnology remain of paramount importance as does their use as a source of drugs and to help clean up our environment this volume contains key papers from the conference from ethnomycology to fungal biotechnology exploiting fungi from natural resources for novel products this was the first international scientific conference covering the transfer of traditional remedies and processes in ethnomycology to modern fungal biotechnology the conference was held at Shimla Himachal Pradesh India from 15 to 16 December 1997 the key subject areas addressed in the conference were the issues of exploring and exploiting fungal diversity for novel leads to new antibiotics enzymes medicines and a range of other leads for wood preservation biological control agricultural biotechnology and the uses of fungi in the food industry the conference programme included key note presentations followed by poster sessions and general discussion the book is broadly based covering five main areas ethnomycology fungal biotechnology biological control mycorrhizal fungi and fungal pests there is no doubt that in the past fungi have played a key role in ethnomycological remedies and that in the future they will continue to attract the interest of a wide range of disciplines ranging from environmental conservation agriculture and the food industry to wood preservation and aerobiological studies

the roles of microbes in agriculture industry and environment have been the point of interest since long time for their potential exploitation although only a fraction of microbial diversity was accessed by microbiologists earlier for harnessing them owing to limited techniques available the molecular techniques have opened new vistas to access the wide field of the unexplored microbes and their exploitation for useful genes and novel metabolites sincere efforts have been made in biotechnology using microbes leading to improve our life with respect to agriculture and people health this comprehensive volume covers different aspects of microbial biotechnology and its management in sustainable agriculture for food security and improved human health the book comprises four sections endophytes and mycorrhizae microbial diversity and plant protection microbial functions and biotechnology and microbes and the environment which contain 53 chapters the book examines the aspects on endophytes and mycorrhizae bioactive compounds growth promoting microorganisms disease management with emphasis on biocontrol genetics of disease resistance microbial enzymes

advances in potential of microbes and their industrial as well as pharmaceutical applications in addition the use of botanicals and the etiology and management of medicinal and aromatic plants in the post harvest management have been reviewed in greater depth for the benefit of teaching and research community the biotechnological developments using microbe potential have enabled us combat the environment and human health problems worldwide in ecofriendly manner we are sure that this volume will be highly useful to all those concerned with fungi bacteria viruses and their biology including environmental and public health officers and professionals in the field of interest the volume is an exhaustive coverage of almost all the aspects of microbial biology and biotechnology

this book aims to fill the gap by documenting thermophilic fungi discovered over the past five decades the chapters spans from covering basic aspects taxonomy and classification including molecular phylogeny and biotechnological applications of thermophilic fungi

plant based biotechnology has come to represent a means of mitigating the problems of global food security in the twenty first century products and processes in agriculture are increasingly becoming linked to science and cutting edge technology to enable the engineering of what are in effect designer plants one of the most successful non chemical approaches to pest management and disease control which seeks a solution in terms of using living organisms to regulate the incidence of pests and and pathogens providing a natural control while still maintaining the biological balance with the ecosystem this volume describes the various biological agents used to control insect pests of a variety of crops readers may also be interested in volume 1 crop diseases weeds and nematodes published in december 2000 isbn 0 306 46460 8

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the aim of food processing is to produce food that is palatable and tastes good extend its shelf life increase the variety and maintain the nutritional and healthcare quality of food to achieve favorable processing conditions and for the safety of the food to be consumed use of food grade microbial enzymes or microbes being the natural biocatalysts is imperative this book discusses the uses of enzymes in conventional and non conventional food and beverage processing as well as in dairy processing brewing bakery and wine making apart from conventional uses the development of bioprocessing tools and techniques have significantly expanded the potential for extensive application of enzymes such as in production of bioactive peptides oligosaccharides and lipids flavor and colorants some of these developments include extended use of the biocatalysts as immobilized encapsulated enzymes microbes both natural and genetically modified as sources for bulk enzymes solid state fermentation technology for enzyme production extremophiles and marine microorganisms are another source of food grade enzymes the book throws light on potential applications of microbial enzymes to expand the base of food processing industries

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symposium papers

the book deals with the application of fungi and the strategic management of some plant pathogens it covers fungal bioactive metabolites with emphasis on those secondary metabolites that are produced by various endophytes their pharmaceutical and agricultural uses regulation of the metabolites mycotoxins nutritional value of mushrooms prospecting of thermophilic and wood rotting fungi and fungi as myconano factories strategies for the management of some plant pathogenic fungi of rice and soybean

have also been dealt with updated information for all these aspects has been presented and discussed in different chapters

mycologists now look at the genes of fungi to decipher many features that they have been studying in the past beyond just looking at the morphology and other such traits of these organisms fungi are also attracting the attention of scientists in various other disciplines these include the search for useful fungi in various extreme environments th

contributed articles presented at the national symposium on the role of plant tissue culture in bio diversity conservation and economic development held in g b pant institute of himalayan environment development kosi katarmal almora from 7 9 june 1999

the first major reference at the interface of chemistry biology and medicine chemical biology is a rapidly developing field that uses the principles tools and language of chemistry to answer important questions in the life sciences it has enabled researchers to gather critical information about the molecular biology of the cell and is the fundamental science of drug discovery playing a key role in the development of novel agents for the prevention diagnosis and treatment of disease now students and researchers across the range of disciplines that use chemical biology techniques have a single resource that encapsulates what is known in the field it is an excellent place to begin any chemical biology investigation major topics addressed in the encyclopedia include applications of chemical biology biomolecules within the cell chemical views of biology chemistry of biological processes and systems synthetic molecules as tools for chemical biology technologies and techniques in chemical biology some 300 articles range from pure basic research to areas that have immediate applications in fields such as drug discovery sensor technology and catalysis novices in the field can turn to articles that introduce them to the basics whereas experienced researchers have access to articles exploring the cutting edge of the science each article ends with a list of references to facilitate further investigation with contributions from leading researchers and pioneers in the field the wiley encyclopedia of chemical biology builds on wiley s unparalleled reputation for helping students and researchers understand the crucial role of chemistry and chemical techniques in the life sciences

ramcharan rajak b 1942 indian mycologist papers presented at the international symposium on microbial diversity challenges opportunities and relevance in the new millennium held at jabalpur during 19 21 november 2004

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