U Satyanarayana Plant Biotechnology

BiotechnologyPlant Biotechnology: Progress in Genomic EraBiocontrol Potential and its Exploitation in Sustainable AgricultureBiocontrol Potential and its Exploitation in Sustainable AgricultureFrom Ethnomycology to Fungal BiotechnologyAgricultural Biotechnology, Biodiversity and Bioresources Conservation and UtilizationClosteroviridaeThermophilic FungiMicrobial and Natural MacromoleculesIndian Science AbstractsTeaRole of Plant Tissue Culture in Biodiversity Conservation and Economic DevelopmentWiley Encyclopedia of Chemical Biology, Volume 1Directory of All India Life Sciences and Agricultural Sciences PeriodicalsThe Indian Journal of Genetics & Plant BreedingAgrindexMicrobial DiversityThe BotanicaTropical AgricultureFungi from Different Environments U. Satyanarayana S. M. Paul Khurana R. K. Upadhyay Rajeev K. Upadhyay Jagjit Singh Olawole O. Obembe Ricardo Flores Raj Kumar Salar Surajit Das M. J. Mulky S. K. Nandi Tadhg P. Begley S. P. Gautam J K Misra

Biotechnology Plant Biotechnology: Progress in Genomic Era Biocontrol Potential and its Exploitation in Sustainable Agriculture Biocontrol Potential and its Exploitation in Sustainable Agriculture From Ethnomycology to Fungal Biotechnology Agricultural Biotechnology, Biodiversity and Bioresources Conservation and Utilization Closteroviridae Thermophilic Fungi Microbial and Natural Macromolecules Indian Science Abstracts Tea Role of Plant Tissue Culture in Biodiversity Conservation and Economic Development Wiley Encyclopedia of Chemical Biology, Volume 1 Directory of All India Life Sciences and Agricultural Sciences Periodicals The Indian Journal of Genetics & Plant Breeding Agrindex Microbial Diversity The Botanica Tropical Agriculture Fungi from Different Environments *U. Satyanarayana S. M. Paul Khurana R. K. Upadhyay Rajeev K. Upadhyay Jagjit Singh Olawole O. Obembe Ricardo Flores Raj Kumar Salar Surajit Das M. J. Mulky S. K. Nandi Tadhg P. Begley S. P. Gautam J K Misra*

refinement in sequencing technologies and potential of genomic research resulted in meteoric growth of biological information such as sequences of dna rna and protein requiring databases for efficient storage management and retrieval of the biological information also computational algorithms for analysis of these colossal data became a vital aspect of biological sciences the work aims to show the process of turning bioscience innovation into companies and products covering the basic science the translation of science into technology due to rapid developments there seems to be no basic difference between the pharmaceutical industry and the biotechnological industry however approved products in the pipeline and renewed public confidence make it one of the most promising areas of economic growth in the near future india offers a huge market for the products as well as cheap manufacturing base for export the book is a sincere work of compilation of new and recent advances in the topic of concern through various innovative researches and scientific opinion therefrom the book is dedicated to the readers who will definitely find it interesting and knowledgeable in carrying out their respective researches in different aspects of applied microbiology and biotechnology

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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fungi playa 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 simla 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

this book covers a range of important topics on crop and animal genetics breeding and genomics as well as biodiversity and genetic resources conservation and utilization reflecting three thematic sections of working groups of the biotechnology society of nigeria the topics range from agricultural biotechnology including genetically modified organisms and gene editing for agronomically important traits in tropical crops to nigeria s mega biodiversity and genetic resources conservation this book will engender a deeper understanding of

underpinning mechanisms technologies processes and science policy nexus that has placed nigeria as a leader in biotechnology in africa the book will be useful reference material for scientists and researchers working in the fields of food and agricultural biotechnology bioinformatics plant and animal genetics breeding and genomics genetic resources conservation and enhancement emphasizes recent advances in biotechnologies that could ameliorate the high level global food and nutrition insecurity through plant and animal genetics breeding as well as genomics provides detailed information towards harnessing indigenous bioresources for food and nutrition security and climate change adaptation introduces new frontiers in the area of genomics most especially their relevant applications in crop and animal breeding reviews biotechniques that could enhance plant genetic resources conservation and utilization discusses current biotechnological approaches to exploit genetic resources including the development of synthetic hexaploid wheat shw for crop adaptation to the increasingly changing global climate

plant viruses grouped within this family have remarkable properties prominent among which is their genomic size citrus tristeza virus ctv has the largest 19 3 kb genome reported for a plant monopartite single stranded rna virus virions are filamentous and typically flexuous particles approximately 12 nm in diameter and 650 to 2000 nm in length with a unique bipolar rattlesnake morphology the major coat protein cp encapsidates most of the genomic rna with a minor cp cpm coating a small 5 terminal fragment virion tail and other viral encoded proteins being also incorporated to this tail the genome is monopartite genus closterovirus type member beet yellows virus and genus ampelovirus type member grapevine leafroll associated virus 3 or bipartite genus crinivirus type member lettuce infectious yellows virus with at least one example of tripartite genome the genomic rna or rna1 in criniviruses directs translation of the two 5 proximal orfs via a peculiar ribosomal frameshift mechanism and proteolytic processing that encode replication related components with the 3 proximal orfs encoding proteins expressed from 3 coterminal subgenomic rnas a genomic signature of members of the family closteroviridae is the presence of a five gene block of proteins involved in virion assembly and movement that in addition to the cp and cpm includes a small transmembrane protein a homologue of the hsp70 class of heat shock proteins and a diverged cp members of this family encode suppressors of rna silencing differing in number up to three in ctv and in mode of action intracellular intercellular or both in this same context sweet potato chlorotic stunt virus codes for a singular suppressor an rnase iii that catalyzes cleavage of the small interfering rnas mediating rna silencing host range is usually narrow and in order to expand it some member s of the family illustrated by the case of ctv have evolved by acquiring multiple non conserved genes virion accumulation is restricted to the phloem with aphids mealybugs and whiteflies depending on the genus operating as natural vectors disease symptoms may be expressed in leaves fruits and trunk of the woody hosts natural plant viruses grouped within this family have remarkable properties prominent among which is their genomic size citrus tristeza virus ctv has the largest 19 3 kb genome reported for a plant monopartite single stranded rna virus virions are filamentous and typically flexuous particles approximately 12 nm in diameter and 650 to 2000 nm in length with a unique bipolar rattlesnake morphology the major coat protein cp encapsidates most of the genomic rna with a minor cp cpm coating a small 5 terminal fragment virion tail and other viral encoded proteins being also incorporated to this tail the genome is monopartite genus closterovirus type member beet yellows virus and genus ampelovirus type member grapevine leafroll associated virus 3 or bipartite genus crinivirus type member lettuce infectious

yellows virus with at least one example of tripartite genome the genomic rna or rna1 in criniviruses directs translation of the two 5 proximal orfs via a peculiar ribosomal frameshift mechanism and proteolytic processing that encode replication related components with the 3 proximal orfs encoding proteins expressed from 3 coterminal subgenomic rnas a genomic signature of members of the family closteroviridae is the presence of a five gene block of proteins involved in virion assembly and movement that in addition to the cp and cpm includes a small transmembrane protein a homologue of the hsp70 class of heat shock proteins and a diverged cp members of this family encode suppressors of rna silencing differing in number up to three in ctv and in mode of action intracellular intercellular or both in this same context sweet potato chlorotic stunt virus codes for a singular suppresso

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 phyologeny and biotechnological applications of thermophilic fungi

microbial and natural macromolecules synthesis and applications brings together active scientists and academicians in the field who share updated information and research outcomes from global experts microbial macromolecular diversity molecular composure genetics usability of advanced molecular tools and techniques for their study as well as their applicability are discussed with detailed research perspectives illustrates fundamental discoveries and methodological advancements discusses novel functional attributes of macromolecules updates progress on microbial macromolecular research

symposium papers

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

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

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Introduction

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