Textbook Of Environmental Biotechnology P K Mohapatra

Biotechnology in India IPlant Biotechnology and Molecular MarkersRecent Trends in BiotechnologyEnzyme Biotechnology for Environmental SustainabilityPharmacokinetics and Pharmacodynamics of Biotech DrugsMicrobial Xylanolytic EnzymesBiotechnology and Its Application in HorticultureBiotechnology ProgressIndustrial BiotechnologyHandbook of New Technologies for Genetic Improvement of LegumesAchieving sustainable cultivation of grain legumes Volume 1Instant Insights: Genetic modification of cropsHandbook of Pharmaceutical BiotechnologyJournal of BiotechnologyDirectory of Biotechnology CompaniesPlant Tissue Culture and BiotechnologyAlgal Biotechnology in the Asia-Pacific RegionAdvances in Microbial BiotechnologyAdvances in Plant Biotechnology & BiochemistryBiotechnology of Perennial Fruit Crops T.K. Ghose S. Srivastava M.K. Rai Praveen Dahiya Bernd Meibohm Pratima Bajpai S. P. Ghosh Padma Sridhar P. B. Kirti Dr Shoba Sivasankar Prof James Dale Shayne C. Gad Siew Moi Phang M. L. Lodha F. A. Hammerschlag

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the biotechnology business in india with an increase from usd 500 million in 1997 and reaching an estimated usd i billion next year health related prod ucts accounting for 60 agro and veterinary products together 15 and con tract r d reagents devices and

supplies adding up to the remaining 25 of which the diagnostics share was about 10 of the total surely presented an encouraging picture even five years ago while volumes have increased the pat tern has not according to a report prepared by mckinsey co india s phar maceutical industry including domestic and export sales and contract services totals nearly usd 5 billion furthermore the company optimistically projects the growth to a factor of five fold only if both the industry and the government are able to put in place achievable solutions that must take care of the formida ble obstacles preventing further growth if this assessment is correct then the established transformation made by it growth should also provide the confi dence required by the high expectations for biotechnology which have arisen in the country in recent years some contributors to this are overenthusiastic these are bureaucrats some retired scientists and of course the complacent politicians who have the least knowledge of what the new biotechnology is all about however there are clear indications of biotechnology growth demon strated by a few but rapidly expanding biotech companies such as biocon ltd shantha biotech p lid dr

the genesis of the volume plant biotechnology and molecular markers has been the occasion of the retirement of professor sant saran bhojwani from the department of botany university of delhi for professor bhojwani retirement only means relinquishing the chair as being a researcher and a teacher which has always been a way of life to him professor bhojwani has been an ardent practitioner of modern plant biology and areas like plant biotechnology and molecular breeding have been close to his heart the book contains original as well as review articles contributed by his admirers and associates who are experts in their area of research while planning this contributory book our endeavour has been to incorporate articles that cover the entire gamut of plant biotechnology and also applications of molecular markers besides articles on in vitro fertilization and micropropagation there are articles on forest tree improvement through genetic engineering considering the importance of conservation of our precious natural wealth one article deals with cryopreservation of plant material chapter on molecular marker considers dna indexing as markers of clonal fidelity of in vitro regenerated plants and prevention against bio piracy a couple of write ups also cover stage specific gene markers dna polymorphism and genetic engineering including raising of stress tolerant plants to sustain productivity and help in reclamation of degraded land

biotechnology is an emerging field and has been the center of attraction for researchers politicians and common people globally the present proceedings recent trends in biotechnology as the name signify reflects an interdisciplinary approach and status of the technology the book would be useful for readers of diverse

disciplines including biotechnologists botanists zoologists pharmacologists bioinformatist and people loving the new technology

enzyme biotechnology for environmental sustainability discusses recent applications of enzyme biotechnology in various industrial sectors and state of the art information on novel microbial enzyme technologies for a sustainable environment the book describes in detail the latest developments and modern methods in microbial enzyme biotechnology for wider application in bioremediation cleaner technology for industries and waste management green chemistry and pharmaceutical biotechnology sustainable textiles food production and biodegradation and other industries the chapters cover topics such as genetic engineering protein engineering nanotechnological advances of microbial enzymes computational tools for engineering enzymes and health risk assessment of enzymes in different sectors with contributors from an array of experts in the field enzyme biotechnology for environmental sustainability is an informative reference for researchers biotechnologists microbiologists environmental scientists graduate and post graduate students working in the area of enzyme technology and their biomedical environmental and industrial applications includes new methods and up to date information on modern methods with respect to its application in pharmaceuticals textiles food fermentation and many other related fields provides in depth information about the recent applications of enzyme biotechnology in different industrial sectors focuses on the rapid developments and biotechnological advances in microbial enzymology to enhance industrial and environmental sustainability

this first ever coverage of the pharmacokinetic and pharmacodynamic characteristics of biopharmaceuticals meets the need for a comprehensive book in this field it spans all topics from lead identification right up to final stage clinical trials following an introduction to the role of pk and pd in the development of biotech drugs the book goes on to cover the basics including the pharmacokinetics of peptides monoclonal antibodies antisense oligonucleotides as well as viral and non viral gene delivery vectors the second section discusses such challenges and opportunities as pulmonary delivery of proteins and peptides and the delivery of oligonucleotides the final section considers the integration of pk and pd concepts into the biotech drug development plan taking as case studies the preclinical and clinical drug development of tasidotin as well as the examples of cetuximab and pegfilgrastim the result is vital reading for all pharmaceutical researchers

microbial xylanolytic enzymes describes the enzyme structure and its interaction

with plant cell walls the properties and production of different enzymes and their applications and the knowledge gathered on the hydrolysis mechanism of hemicellulose the knowledge gathered about the hydrolysis mechanism of the hemicelluloses especially xylans has greatly promoted the rapid application of these enzymes in new areas in recent years there has been a spurt of interest in xylan degrading enzymes due to their applications in several industrial processes including paper and pulp industries food and feed industries biofuel industry textile industry chemical and pharmaceutical industry brewing industry and more xylan is the principal type of hemicellulose an enzymatic complex is responsible for the hydrolysis of xylan but the main enzymes involved are enzymes produced by fungi bacteria yeast algae protozoans and more gives up to date authoritative information and cites pertinent research on the synergistic action of xylanolytic enzymes includes studies on xylanase regulation and synergistic action between multiple forms of xylanase covers in great depth all aspects of xylanolytic enzymes includes detailed descriptions on xylanolytic enzymes as a supplement in animal feed for the manufacture of bread food and drinks textile industry pulp and paper industry biofuel industry and production of pharmaceuticals and important chemicals and waste management etc challenges future trends in the commercial production and application of xylanases

contributed articles

contributed papers some revised and updated from the international symposium on industrial biotechnology

a comprehensive and groundbreaking collection of ideas for plant improvement most of the world s supply of legumes is cultivated under adverse conditions that make this commercially important crop susceptible to the vagaries of nature and damaging stresses genetic manipulation has become a proven way for cultivators to battle these pro

reviews key developments in understanding crop physiology and genetic diversity and how they have informed advances in breeding new varieties coverage of advances across the value chain for grain legume cultivation from variety selection to post harvest storage discusses the latest trends in disease insect pest and weed management

this specially curated collection features six reviews of current and key research on genetic modification of crops the first chapter reviews key challenges facing banana production primarily the risk of species decimation by diseases such as fusarium wilt

and considers how genetic modification may be a solution to this the second chapter discusses the development and establishment of golden rice a biofortified variety designed as a health intervention to help alleviate the problem of vitamin a deficiency the third chapter details recent advances in the genetic modification of important agronomic traits of soybean crops such as herbicide tolerance and insect resistance the fourth chapter addresses progress in and prospects for transgenic interventions in the improvement of grain legumes concentrating on chickpea pigeonpea cowpea and more the fifth chapter reviews recent research efforts in the production of genetically modified gm oil palm plants and looks towards establishing stable lines of commercially viable gm varieties the final chapter describes recent progress relating to transgenic modification of cassava and how future research can strengthen food security and commercialization of the crop

describes the use of biotechnology to develop pharmaceuticals this book gives the professional a basic tool to facilitate the development of biotech medicines by bringing together a general overview of biotechnology used in the drug development process along with a compendium of regulations and validation methods

published to honour prof krishna gopal mukerji for his endeavour in mycology plant pathology microbial ecology and microbial biotechnology

provides a systematic review of the latest techniques of biotechnology as applied to perennial fruit crops the book emphasizes genetic manipulation rather than tissue culture or micropropagation individual fruit crops are covered as well as methodologies applicable to a range of fruits

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