

EMERGING TRENDS IN BIOTECHNOLOGY :

• ARTIFICIAL INTELLIGENCE

AI enables biotechnology start-ups to automate a wide range of processes, helping them scale up their operations.

For instance, biopharma startups leverage AI to speed up the drug discovery process, screening biomarkers as well as scraping through the scientific literature to discover novel products.

Image classification algorithms allow rapid detection of different traits, like cancer cells from medical scans or crop disease symptoms from leaf images.

Further, startups are leveraging deep learning to analyze microbiomes, screen phenotypes, and develop rapid diagnostics.

Some of the main applications of AI across the biopharma Value chain



Biotechnology Emerging Trends

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Biotechnology Emerging Trends:

Biotechnology Emerging Trends R.Z. Sayyed, A.S. Patil, 2009-01-01 During 21st century interest in biotechnology increased quite significantly as a result it has been included in the syllabi of almost all universities at both UG PG levels The present proceeding Emerging Trends in Biotechnology is an interdisciplinary approach and the outcome of exhaustive literature survey and experimental research of academicians and scientist of International caliber The primary object of the authors is to present the subject matter with simplicity and clarity It includes different sections like Agriculture Medical Pharmaceutical Applied Environmental Biotechnology Industrial biotechnology Stem Cell Biotechnology Nanobiotechnology It would be helpful for the readers of diverse disciplines including Biotechnology Microbiology Biochemistry Botany Zoology Pharmacy Medical field Agriculture Nanobiotechnology Stem Cell Biology and commercial sector Salient Features It is written in simple way with well illustrated diagrams protocols and recent data The chapters on Stem Cell Biology Nanotechnology Bioplastic Biocontrol are the main features of the book *Agricultural Biotechnology: Latest Research and Trends* Dinesh Kumar Srivastava, Ajay Kumar Thakur, Pankaj Kumar, 2022-01-08 This book caters to the need of researchers working in the ever evolving field of agricultural biotechnology It discusses and provides in depth information about latest advancements happening in this field The book discusses evolution of plant tissue culture techniques development of doubled haploids technology role of recombinant DNA technology in crop improvement It also provides an insight into the global status of genetically modified crops use of RNAi technology and mi RNAs in plant improvement Chapters are also dedicated for different branches of omics science including genomics bioinformatics proteomics metabolomics and phenomics along with the use of molecular markers in tagging and mapping of various genes QTLs of agronomic importance This book also covers the role of enzymes and microbes in agriculture in productivity enhancement It is of interest to teachers researchers of biotechnology and agriculture scientists Also the book serves as additional reading material for undergraduate and postgraduate students of biotechnology agriculture horticulture forestry ecology soil science and environmental sciences National and international biotechnologists and agricultural scientists will also find this to be a useful read **Current Trends in Microbial Biotechnology for Sustainable Agriculture** Ajar Nath Yadav, Joginder Singh, Chhatarpal Singh, Neelam Yadav, 2020-11-10 Microbial biotechnology is an emerging field with applications in a broad range of sectors involving food security human nutrition plant protection and overall basic research in the agricultural sciences The environment has been sustaining the burden of mankind from time immemorial and our indiscriminate use of its resources has led to the degradation of the climate loss of soil fertility and the need for sustainable strategies The major focus in the coming decades will be on achieving a green and clean environment by utilizing soil and plant associated beneficial microbial communities Plant microbe interactions include the association of microbes with plant systems epiphytic endophytic and rhizospheric The microbes associated with plant ecosystems play an important role in plant growth development and soil

health Moreover soil and plant microbiomes help to promote plant growth either directly or indirectly by means of plant growth promoting mechanisms e g the release of plant growth regulators solubilization of phosphorus potassium and zinc biological nitrogen fixation or by producing siderophores ammonia HCN and other secondary metabolites These beneficial microbial communities represent a novel and promising solution for agro environmental sustainability by providing biofertilizers bioprotectants and biostimulants in addition to mitigating various types of abiotic stress in plants This book focuses on plant microbe interactions the biodiversity of soil and plant microbiomes and their role in plant growth and soil health Accordingly it will be immensely useful to readers working in the biological sciences especially microbiologists biochemists and microbial biotechnologists

Recent Advances in Plant Biotechnology and Its Applications Ashwani Kumar, Sudhir K. Sopory, 2008 This book is divided into five sections The first section deals with the methodology and bioresource generation techniques related to genetic engineering and gene transfer to the nuclear genome and chloroplast genome The new techniques of genome profiling and gene silencing are also presented The second section of the book covers the classical aspect of plant biotechnology viz tissue culture and micropropagation Use of genetic engineering via Agrobacterium and direct transfer of DNA through particle bombardment to develop transformed plants in Artemisia castor and orchids and production of recombinant proteins in plant cells have been dealt with in the third section The fourth section addresses the abiotic and biotic stress tolerance in plants The basic biology of some of the stress responses and designing plants for stress tolerance is discussed in this section The fifth section examines medicinal plants and alkaloid production

Biotechnology Joseph A. Slevin, Joseph et al eds, 2003 This Book Is An Outcome Of Holistic Efforts Taken By A Group Of Researchers And Professors To Bring The Recent Innovations And Developments Among The Ug And Pg Students Of Biological And Agriculture Faculties This Book Provides An Insight From Emerging Nanobiotechnology To Traditional Fermentation Technology It Covers Various Roots Of Biotechnology Such As Rdna Technology Genomics Plant Biotechnology Cancer Biology Bioethics Bioinformatics Marine Biotechnology Fermentation Technology And Environmental Biotechnology With Contributions From Authors Of Different Viewpoints And Areas The Subject Is Given A Thorough And Balanced Understanding In Recent Developments Unlike Many Other Texts In This Field This Book Provides Hindsight Insight And Foresight Of Biotechnology This Will Also Serve As A Reference Material For The Dissertation Works Of Msc M Tech Programmes In Biotechnology Contents Chapter 1 At The Dawn Of Biotech Century By Joseph Selvin Chapter 2 Nanobiotechnology By Vincent S G Prakash Chapter 3 Transposon Medicated Gene Delivery And Baculovirus Based Gene Expression Strategies In Insects By Kumaresan G Chapter 4 Introduction To Genomic And Proteomic Analysis By Asha K R T Chapter 5 Relevance Of Apoptosis To Cancer By Karunagaran D Chapter 6 Prospectives Of Gene Therapy For Endocrine Cancers Medullary Thyroid Carcinoma By Michael Aruldas M Chapter 7 Molecular Basis Of Oncogenes And Tumour Suppressor Genes By Rameshwari S A G Murugesan Chapter 8 Molecular And Hormonal Basis Of Obesity By Jose Priya T A

Chapter 9 Biotechnological Potential Of Extremophiles By Denslin Vinitha A J Chapter 10 Agrobacterium Tumefaciens Mediated Gene Transfer An Overview By Vineetha Sarah Alexander Chapter 11 Recent Advances In Transgenic Plant Production By Anupa M P Smitha Balaraj S T Lijamol Chapter 12 An Improved Protocol For The In Vitro Clonal Propagation Of Plumbago Rosea Linn By Satheeshnakumar S Chapter 13 Bioethics And Stem Cell Research By Sunitha Rajam G Chapter 14 Marine Genomics A Frontier Research Area In Marine Biotechnology By Ninawe A S Chapter 15 Scope For Molecular And Immuno Biotechnological Applications In Shrimp Aquaculture Sector Of India By Felix S Chapter 16 Herbal Extracts Or Active Fractions As Therapeutic Agents With Modern Standards Of Safety And Efficacy By Subramoniam A Chapter 17 Influence Of Mode Of Fermentations On Microbial Enzyme Production By Prema P Chapter 18 Aqueous Two Phase System For Extractive Fermentation By Sanjoy Ghosh Chapter 19 Bioreactor Technology For The Production Of Antibacterial Agents From Marine Microorganism By Raishy R Hussain Chapter 20 Tackling The Challenge Of Heavy Metal Pollution By Microbial Biosorbents By Deepa M K A G Murugesan Chapter 21 Pollution Abatement Through Biopurification Of Industrial Effluents By Murugesan A G R Devinanyagam Chapter 22 Role Of Cytotaxonomy In Fish Diversity By Johnson J A Chapter 23 Biotechnological Approach For The Control Of Algal Blooms By Devi L Prabha Samuel Sanu Chapter 24 Potential Application Of Biotechnology In Generating Ecofriendly Bioenergy By John Ruby A G Murugesan Chapter 25 Bioremediation Of Oil Pollution Present Status And Future Prospectus By Binulal N S Anil Zecharia Joseph Selvin

Plant Tissue Culture and Biotechnology P.B. Kavi Kishor, 1999 Major Advances Made During The Last One Decade In The Field Of Plant Tissue Culture And Molecular Biology Have Been Presented In This Book It Comprises About Fifty Research Articles On A Wide Range Of Topical Subjects From Overall Review Of Plant Tissue Culture To Superoxide Dismutases In Plants Somatic Embryogenesis In Crop Species Like Cicer Arietinum Helianthus Annus Etc Besides Plantation Crops Like Coffee And Pepper Micropropagation Of Divergent Plant Species Including Medicinal And Ornamental Plants Haploid And Somaclonal Variation In Pigeonpea Peanut Etc Production Of Secondary Metabolites In Plant Species Like Catharanthus Roseus Artemesia Maritima And Azadirachta Indica Stress Biology In Crop Plants Use Of Molecular Markers In Coffee Pcr Based Dna Fingerprinting Seed Protein Profiles Of Fodder Grains And Nodule Initiation In Pigeonpea This Book Serves Not Only As A Handbook For Students Scholars Teachers Researchers And Industries Alike In Plant Tissue Culture And Biotechnology But Also For General Reference

Biotechnological Innovations in Food Processing Pratik S. Gaikwad, Pintu Choudhary, 2025-09-19 Transforming Biotech in Food Processing is a comprehensive and forward thinking exploration at the intersection of biotechnological innovations and global food processing In a world where the demands for healthier more sustainable and flavorful food options are escalating this work is a pivotal guide for navigating the transformative landscape of biotechnology in the food industry The purpose of this work is to provide a holistic understanding of how biotechnological advancements reshape the production consumption and impact of food on a global scale By tracing the historical evolution of biotechnology

in food processing and scrutinizing cutting edge tools and techniques the book seeks to equip researchers industry professionals policymakers and enthusiasts with actionable insights into the dynamic interplay between biotechnology and the food supply chain Set against the backdrop of burgeoning global populations environmental concerns and an increased demand for nutritious and sustainable food options this book aims to illuminate the multifaceted impact of biotechnology on the traditional realm of food processing It navigates through the challenges in consumer acceptance presents advancements in functional foods and delves into the revitalization of traditional food and beverage production through biotechnological interventions The overarching goal is to facilitate a deep understanding of how genetic engineering enhances nutrition flavor engineering crafts impeccable tastes and biotechnology fosters food safety and preservation By addressing ethical challenges regulatory considerations and future perspectives the book positions itself as an essential resource for navigating the evolving landscape of food science and sustainability This work stands out for its inclusivity and global impact ensuring that diverse voices contribute to discussions on the regulatory landscape ethical considerations and future horizons of biotechnological applications aiming to shape the discourse and practices within the evolving domain of biotechnology and food science

Biotechnological Innovations for Environmental Bioremediation Sudipti Arora,Ashwani Kumar,Shinjiro Ogita,Yuan -Yeu Yau,2022-08-03 This edited book focuses on the application and implementation of bioremediation and other strategies to create a sustainable and healthy environment It provides a collection of approaches to environmental biotechnology for wastewater treatment removal of soil heavy metals degradation of pesticides removal of dyes waste management and microbial conversion of environmental pollutants This book brings to the fore contributions of certain globally important environmental biotechnologist Bioremediation is a popular branch of biotechnology that involves the use of living organisms such as microorganisms microbial remediation bacteria fungus mycoremediation and plants phytoremediation to bind extract and clean up contaminants pollutants and toxins from soil groundwater and other environments This book is of interest to researchers scientists and academic faculty in environmental sciences Also it serves as additional reading and reference material for undergraduate and graduate students as well as postdocs in environmental agriculture ecology and soil sciences National and International policy makers will also find valuable information from this book

Biotechnology DIANE Publishing Company,1995-07 154 citations in English covering biotechnology bioengineering transgenic topics genetics ethics mass media society consumers public opinion etc Many citations have abstracts Author subject indexes

Preparing for Future Products of Biotechnology National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Chemical Sciences and Technology,Board on Agriculture and Natural Resources,Board on Life Sciences,Committee on Future Biotechnology Products and Opportunities to Enhance Capabilities of the Biotechnology Regulatory System,2017-07-28 Between 1973 and 2016 the ways to manipulate DNA to endow new characteristics in an organism that is biotechnology have advanced enabling the development of products that were not

previously possible What will the likely future products of biotechnology be over the next 5 10 years What scientific capabilities tools and or expertise may be needed by the regulatory agencies to ensure they make efficient and sound evaluations of the likely future products of biotechnology Preparing for Future Products of Biotechnology analyzes the future landscape of biotechnology products and seeks to inform forthcoming policy making This report identifies potential new risks and frameworks for risk assessment and areas in which the risks or lack of risks relating to the products of biotechnology are well understood

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New Horizons in Biotechnology S. Roussos,C.R. Soccol,Ashok Pandey,C. Augur,2013-06-29 The practice of biotechnology though different in style scale and substance in globalizing science for development involves all countries Investment in biotechnology in the industrialised the developing and the least developed countries is now amongst the widely accepted avenues being used for economic development The simple utilization of kefir technology the detoxification of injurious chemical pesticides e g parathion the genetic tailoring of new crops and the production of a first of a kind of biopharmaceuticals illustrate the global scope and content of biotechnology research endeavour and effort In the developing and least developed nations and in which the 9 most populous countries are encountered problems concerning management of the environment food security conservation of human health resources and capacity building are important factors that influence the path to sustainable development Long term use of biotechnology in the agricultural food energy and health sectors is expected to yield a windfall of economic environmental and social benefits Already the prototypes of new medicines and of prescription fruit vaccines are available Gene based agriculture and medicine is increasingly being adopted and accepted Emerging trends and practices are reflected in the designing of more efficient bioprocesses and in new research in enzyme and fermentation technology in the bioconversion of agro industrial residues into bio utility products in animal healthcare and in the bioremediation and medical biotechnologies Indeed with each new day new horizons in biotechnology beckon

Recent Advances in Food Biotechnology Ajay Kumar,Kiran Patruni,Vijai Singh,2022-06-24 This book highlights important aspects of food biotechnology It is very thoughtfully divided into five sections The first section introduces the

readers to food biotechnology and discusses functional foods use of plant and animal biotechnology in improving food quality The second section deals with food microbiology and includes topics such as application of microbial surfactants use of probiotics beneficial microorganisms used in food industry etc The third section describes important macro and micromolecules in foods It includes chapters on food enzymes gluten free formulations use of biopolymers biofortification of food and other important topics The next section discusses novel technologies such as use of nanotechnology in food industry reverse micelle techniques genome editing in food crops etc The book culminates with a section on food quality and management It describes important topics about biosafety and regulatory issues in food biotechnology This book is meant for students researchers and course instructors in food science food technology and biotechnology It is also useful for industry experts in the area of food technology Biotechnology, Legislation and Regulation Robert D. Warmbrodt, 1991

Emerging Trends in Environmental Biotechnology Sukanta Mondal, Shivesh Pratap Singh, Yogendra Kumar Lahir, 2022-07-04 The environment is an all encompassing component of the ecosystem of Blue planet the earth made up of the hydrosphere atmosphere and lithosphere These three spheres have biotic and abiotic components which exhibit ecological homeostasis that provides the most appropriate survival chances for the members of biotic component and geochemical balance with abiotic components This ecosystem is subjected to relatively harsh conditions mostly created by the disastrous activities due to natural calamities and intentional and or accidental anthropogenic activities Biotechnology has become a potential tool to dissipate such environmental impacts because of the advancement it has undergone recently Emerging Trends in Environmental Biotechnology is an outstanding collection of current research that integrates basic and advanced concepts of biotechnology such as genomics proteomics bioinformatics sequencing and imaging processes to improvise and protect the environment This book is particularly attractive for scientists researchers students educators and professionals in environmental science agriculture veterinary and biotechnology science The book will enable them to solve the problems about sustainable development with the help of current innovative biotechnologies such as recombinant DNA technology and genetic engineering which have tremendous potential for impacting global food security environmental health human and animal health and overall livelihood of mankind Features Presents easy to read chapters Information is presented in a very accessible and logical format Identifies and explores biotechnological approaches for environmental protection Encompasses biodegradation of hazardous contaminants biotechnology in waste management nanotechnology and issues in environmental biotechnology research Mastering Biotechnology: Unveiling the Secrets of Genetic Engineering Dominic Front, Unlock the boundless potential of biotechnology with Mastering Biotechnology Unveiling the Secrets of Genetic Engineering This comprehensive guide navigates readers through the intricate realms of genetic manipulation molecular biology and bioprocessing offering a treasure trove of knowledge essential for aspiring biotechnologists and seasoned professionals alike From unraveling the mysteries of DNA to harnessing the power of synthetic biology each

chapter delves into key concepts and cutting edge techniques providing a roadmap to mastering the intricate tools of the trade Explore the frontiers of agricultural innovation delve into the realms of medical breakthroughs and discover how biotechnology is reshaping our world from the laboratory bench to the global marketplace With a keen eye on ethical considerations and societal impacts Mastering Biotechnology is more than a guidebook it s a beacon of insight into the ethical legal and social dimensions of biotechnological advancement Whether you re a student researcher or industry professional embark on a journey of discovery and empowerment with this indispensable companion to the fascinating world of biotechnology *Biotechnology, Public Perception* Kim Guenther,1994

Technological Breakthroughs and Future Business Opportunities in Education, Health, and Outer Space Hooke, Angus,2021-04-09 It is widely accepted that the key to rising incomes for workers for investors and indirectly for welfare recipients is innovation New ideas provide opportunities for investment in new products new processes and new markets Exploitation of these opportunities by intrapreneurs and entrepreneurs gives rise to increases in labor productivity which in turn lead to higher primary incomes for workers and investors and via government redistributive mechanisms larger transfers to welfare recipients Since technology is the driver of innovation and the key to the subsequent economic and distributional benefits of this innovation there is a need for researchers and businesspersons to have access to up to date information on emerging technologies and the business opportunities they provide Technological Breakthroughs and Future Business Opportunities in Education Health and Outer Space discusses the economic social and cultural benefits that new technologies can provide in multidisciplinary industries with a unique emphasis on looking towards the impacts of these technologies across the next two decades Within this theme the book discusses the recent trends future developments and business opportunities surrounding new technologies including information technology and biotechnology Additionally the book investigates recent demands and disruptions in the health and education sectors as well as recent developments and forthcoming opportunities in the outer space sector and how newer technologies can enable and meet the growing demands of these industries While covering all these technologies and their applications this book is an ideal reference work for entrepreneurs and intrapreneurs teachers technologists analysts IT specialists engineers policymakers medical professionals government officials space agencies financial planners public officials and researchers and students working in areas that include but are not limited to technology education public health medicine business and management aeronautics and public policy

Harnessing Microbial Potential for Multifarious Applications Kiran Bala,Tonmoy Ghosh,Vivek Kumar,Pritam Sangwan,2024-04-09 This book discusses the current state of strategies that utilize the ability of microbes to remediate waste sources such as wastewater streams and mine tails and provide environmentally friendly options to mitigate soil and water pollution caused due to heavy metals It also provides details about the development of biodegradable plastics from microbial sources and how they can be economical and greener alternatives to the currently used options It will act as a single platform for combining

the remedial powers of microbes which can be both sustainable and practical under a single volume This text will be particularly useful for govt institutions academicians and industry professionals who deal in wastewater remediation and sustainability of currently used sources of plastics and other high value metabolites It will also be of practical help to engineers involved in remediation processes for wastewater and industrial waste **Entrepreneurs have the DACMAR**

Advantage James A. Levine, 2024-10-03 DACMAR is a FAST BUSINESS GUIDE for newbie biotech entrepreneurs GIVE ME 5 MINUTES If you know nothing about modern biotech business lingo grab this book and read the LEARNING BOXES In 5 minutes you ll know DACMAR you ll know enough If you WANT TO BUILD a SUCCESSFUL biotech start up that delivers new medicines read the DACMAR ADVANTAGE Each chapter will take you 5 minutes By the time you are finished in less than 2 hours you ll have the DACMAR ADVANTAGE DACMAR is the basic business building blocks for a biotech start up At the conclusion of the DACMAR ADVANTAGE I take you to the WIN Your start up flourishes you are acquired or go public Through your entrepreneurial genius millions of patients will be saved The DACMAR ADVANTAGE will help you win ABOUT THE AUTHOR James A Levine Dr Levine President Fondation Ipsen has three decades of experience in the healthcare sector principally at Mayo Clinic For the last 6 years he has been President of Fondation Ipsen an international science foundation focused on biotech innovation in Rare Diseases A physician and scientist James has published more than 200 articles six papers in Science and Nature plus articles in journals such as the New England Journal of Medicine Lancet and JAMA He has written four books published in 19 languages in 37 countries His business training focused on entrepreneurship was from Harvard Business School With a background in wearable technologies data gathering and data analytics and with more than 100 patents and trademarks Levine helped found 35 companies He was the Innovator of the Year in the state of Minnesota the World Trade Fair and NASA Under the Mayo Clinic NEAT Trademarks Levine s team delivered scalable health solutions to 72 US corporations A great deal of James work focusses on biotech development scalable health solutions and business opportunities in underserved regions in the United States France and low middle countries such as the Democratic Republic of Congo Cote d Ivoire Afghanistan Jamaica Asia Kenya and India Consulting to the President of the United States the US State Department US Army and internationally James in 2018 was awarded the President s Medal for promoting social embeddedness 300 million people live with rare diseases without effective cures Sustainable solutions require the efficient use of capital to optimize biotechnology companies maximize impact and minimize suffering

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