

Methods in
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Arthur Germano Fett-Neto *Editor*

Biotechnology of Plant Secondary Metabolism

Methods and Protocols

 Humana Press

Biotechnology Of Plant Secondary Metabolism Methods And Protocols Methods In Molecular Biology

Michael Wink



Biotechnology Of Plant Secondary Metabolism Methods And Protocols Methods In Molecular Biology:

Biotechnology of Plant Secondary Metabolism Arthur Germano Fett-Neto, 2016 This volume describes up to date techniques for improved production of secondary metabolites of economic interest using field and laboratory methods Biotechnology of Plant Secondary Metabolism Methods and Protocols explores different secondary metabolite classes whole plant and cell organ culture systems and environmental and genetic transformation based modulation of biochemical pathways Special focus is given to cell and tissue specific metabolism metabolite transport microRNA based technology heterologous systems expression of enzymes and pathways leading to products of interest as well as applications using both model and non model plant species Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Practical and cutting edge Biotechnology of Plant Secondary Metabolism Methods and Protocols is a great resource for scientists of interdisciplinary fields plant science plant physiology pharmacy molecular biology biochemistry bioengineering and forestry in reaching their goals of producing plant biochemicals in a sustainable and efficient manner while minimizing impacts to the environment and providing the required quantities of these commodities to industry

Plant Biotechnology Deependra Singh, Durgesh Nandini Chauhan, Nagendra Singh Chauhan, Manju Singh, 2025-09-09 This book explores our knowledge of biotechnology and its application to improving the quality of medicinal plants With its unique and sustained focus on medicinal plant biotechnology it offers an essential guide and a systematic reference for the development of medicinal products with the help of biotechnology from natural sources With contributions from world renowned experts in the fields of biotechnology pharmaceutical biology pharmacognosy chemistry and pharmaceutical biotechnology Plant Biotechnology was written while keeping in mind the requirements of botanists the pharmaceutical industry biotechnologists microbiologists and specialists working on plant biotechnology It can serve as either a textbook or a reference work for students teachers or scientists working in the field of medicinal plant biotechnology and its readership also includes natural product chemists biotechnologists pharmacognosists and pharmacologists as well as academic and industry researchers Features Provides essential evidence for all specialists overseeing supportive biotechnology on its utility Discusses the fundamental techniques in biotechnology and their implementation with medicinal plants

Medicinal and Aromatic Plants Lakhan Kumar, Navneeta Bharadvaja, Ram Singh, Raksha Anand, 2024-08-17 Due to complex phytochemical components and associated beneficial properties numerous medicinal and aromatic plants in whole or parts have been used for nutritional purposes or the treatment of various diseases and disorders in humans and animals Essential oils from medicinal and aromatic plants MAPs have been exploited for product formulations of pharmaceuticals cosmetics food and beverage colorants biopesticides and several other utility chemicals of industrial importance There is scientific evidence of many medicinal plant extracts

possessing immunomodulatory immunostimulatory antidiabetic anticarcinogenic antimicrobial and antioxidant properties thus demonstrating their traditional use in popular medicine With the advent of modern technology the exploitation of natural resources has exponentially increased in order to fulfill the demand of an increased human population with improved quality of life The traditional agriculture and production based supply of commodities is inadequate to meet the current demand Biotechnological approaches are gaining importance to bridge the gaps in demand and supply In the proposed book medicinal and aromatic plant based secondary metabolites have been discussed in terms of their therapeutic potential and industrial relevance To discuss the qualitative and quantitative analysis of a range of medicinal and aromatic plants based secondary metabolites SMs bioprocess development for their extraction and bioseparation a brief overview of their industrial relevance various tissue culturing strategies biotechnological approaches to enhance production scale up strategies management of residual biomass post extraction of target SMs is central to the idea of the proposed book A section will explore the verticals mentioned above In the next section the book addresses the approaches for conserving and improving medicinal and aromatic plant genetic resources In the third section approaches to managing the post harvest crop residue and secondary metabolites extracted plant biomass will be thoroughly discussed The recent integration of artificial intelligence to improve medicinal and aromatic plant research at several levels including the development and employment of computational approaches to enhance secondary metabolite production tissue culture drug design and discovery and disease treatment will be included in the fourth section The book summarizes current research status gaps in knowledge agro industrial potential waste or residual plant biomass management conservation strategies and computational approaches in the area of medicinal and aromatic plants with an aim to translate biotechnological interventions into reality Handbook of Molecular and Cellular Methods in Biology and Medicine Leland J. Cseke, Ara Kirakosyan, Peter B. Kaufman, Margaret V. Westfall, 2016-04-19 Several milestones in biology have been achieved since the first publication of the Handbook of Molecular and Cellular Methods in Biology and Medicine This is true particularly with respect to genome level sequencing of higher eukaryotes the invention of DNA microarray technology advances in bioinformatics and the development of RNAi technology Introduction to Plant Biotechnology (3/e) H S Chawla, 2011-05-24 This book has been written to meet the needs of students for biotechnology courses at various levels of undergraduate and graduate studies This book covers all the important aspects of plant tissue culture viz nutrition media micropropagation organ culture cell suspension culture haploid culture protoplast isolation and fusion secondary metabolite production somaclonal variation and cryopreservation For good understanding of recombinant DNA technology chapters on genetic material organization of DNA in the genome and basic techniques involved in recombinant DNA technology have been added Different aspects on rDNA technology covered gene cloning isolation of plant genes transposons and gene tagging in vitro mutagenesis PCR molecular markers and marker assisted selection gene transfer methods chloroplast and mitochondrion DNA transformation genomics and bioinformatics

Genomics covers functional and structural genomics proteomics metabolomics sequencing status of different organisms and DNA chip technology Application of biotechnology has been discussed as transgenics in crop improvement and impact of recombinant DNA technology mainly in relation to biotech crops

New Light on Alkaloid Biosynthesis and Future Prospects, 2013-07-27 Advances in Botanical Research publishes in depth and up to date reviews on a wide range of topics in plant sciences Currently in its 68th volume the series features varied reviews by recognized experts on all aspects of plant genetics biochemistry cell biology molecular biology physiology and ecology This thematic volume features reviews on a new light on alkaloid biosynthesis and future prospects In depth and up to date reviews on a wide range of topics in plant sciences Features varied reviews by recognized experts on all aspects of plant genetics biochemistry cell biology molecular biology physiology and ecology Features reviews on biosynthesis of alkaloids in plants

Production of Biomass and Bioactive Compounds Using Bioreactor Technology Kee-Yoeup Paek, Hosakatte Niranjana Murthy, Jian-Jiang Zhong, 2014-09-30 The bioactive compounds of plants have world wide applications in pharmaceutical nutraceutical and food industry with a huge market In this book a group of active researchers have addressed on the most recent advances in plant cell and organ cultures for the production of biomass and bioactive compounds using bioreactors Tremendous efforts have been made to commercialize the production of plant metabolites by employing plant cell and organ cultures in bioreactors This book emphasizes on the fundamental topics like designing of bioreactors for plant cell and organ cultures various types of bioreactors including stirred tank airlift photo bioreactor disposable bioreactor used for plant cell and organ cultures and the advantages and disadvantages of bioreactor cultures Various strategies for biomass production and metabolite accumulation have been discussed in different plant systems including Korean Chinese ginseng Siberian ginseng Indian ginseng Echinacea St John s wort Noni Chinese licorice Caterpillar fungus and microalgae Researches on the industrial application of plant cells and organs with future prospects as well as the biosafety of biomass produced in bioreactors are also described The topics covered in this book such as plant cell and organ cultures hairy roots bioreactors bioprocess techniques will be a valuable reference for plant biotechnologists plant biologists pharmacologists pharmacists food technologists nutritionists research investigators of healthcare industry academia faculty and students of biology and biomedical sciences The multiple examples of large scale applications of cell and organ cultures will be useful and significant to industrial transformation and real commercialization

Bioinformatics for Plant Research and Crop Breeding Jen-Tsung Chen, 2024-10-28 Explore and advance bioinformatics and systems biology tools for crop breeding programs in this practical resource for researchers Plant biology and crop breeding have produced an immense amount of data in recent years from genomics to interactome and beyond Bioinformatics tools which aim at analyzing the vast quantities of data produced by biological research and processes have developed at a rapid pace to meet the challenges of this vast data trove The resulting field of bioinformatics and systems biology is producing increasingly rich and transformative research Bioinformatics for Plant Research and Crop

Breeding offers an overview of this field its recent advances and its wider applications Drawing on a range of analytical and data science tools its foundation on an in silico platform acquired multi omics makes it indispensable for scientists and researchers alike It promises to become ever more relevant as new techniques for generating and organizing data continue to transform the field Bioinformatics for Plant Research and Crop Breeding readers will also find A focus on emerging trends in plant science sustainable agriculture and global food security Detailed discussion of topics including plant diversity plant stresses nanotechnology in agriculture and many others Applications incorporating artificial intelligence machine learning deep learning and more Bioinformatics for Plant Research and Crop Breeding is ideal for researchers and scientists interested in the potential of OMICs and bioinformatic tools to aid and develop crop improvement programs **An**

Introduction to Molecular Biotechnology Michael Wink, 2013-11-14 Molecular biotechnology continues to triumph as this textbook testifies edited by one of the academic pioneers in the field and written by experienced professionals This completely revised second edition covers the entire spectrum from the fundamentals of molecular and cell biology via an overview of standard methods and technologies the application of the various omics and the development of novel drug targets right up to the significance of system biology in biotechnology The whole is rounded off by an introduction to industrial biotechnology as well as chapters on company foundation patent law and marketing The new edition features Large format and full color throughout Proven structure according to basics methods main topics and economic perspectives New sections on system biology RNA interference microscopic techniques high throughput sequencing laser applications biocatalysis current biomedical applications and drug approval Optimized teaching with learning targets a glossary containing around 800 entries over 500 important abbreviations and further reading The only resource for those who are seriously interested in the topic Bonus material available online free of charge www.wiley-vch.de/home/molecbiotech

Applications in Plant Biotechnology Abdullah Makhzoum, Kathleen Hefferon, 2022-12-23 The book focuses on interesting topics in plant biotechnology and its applications The first section covers a number of specific medicinal plants and their secondary metabolites using genetic and metabolic engineering The pharmaceutical uses of these plant bioactive compounds and their applications in treating a variety of diseases including cancer as well as recent works on in silico and bioinformatic analysis are described The second section deals with innovative plant molecular pharming approaches and reviews the potential for using various plant host systems to design and produce effective new drugs to treat different illnesses and diseases such as HIV infectious diseases and other human and livestock diseases

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