K.G. Ramawat J. M. Merillon (Eds.)

# Bioactive Molecules and Medicinal Plants



Springer

# **Bioactive Molecules And Medicinal Plants**

Megh R. Goyal, Ademola O. Ayeleso

#### **Bioactive Molecules And Medicinal Plants:**

Bioactive Molecules and Medicinal Plants Kishan Gopal Ramawat, Jean-Michel Mérillon, 2008-10-16 This book on medicinal plant biotechnology covers recent developments in this field It includes a comprehensive up to date survey on established medicinal plants and on molecules which gained importance in recent years No recently published book has covered these carefully selected topics The contributing scientists have been selected on the basis of their involvement in the related plant material as evident by their internationally recognised published work Bioactive Compounds of Medicinal *Plants* Megh R. Goyal, Ademola O. Ayeleso, 2018-07-04 This volume sheds new light on the immense potential of medicinal plants for human health from different technological aspects It presents new research on bioactive compounds in medicinal plants that provide health benefits including those that have proven especially effective in treating and managing diabetes mellitus and hypertension It looks at the medicinal properties antioxidant capacity and antimicrobial activity of plants and provides scientific evidence on the use of medicinal plants in the treatment of certain diseases Many of the plants described in the chapters are easily accessible and are believed to be effective with fewer side effects in comparison to modern drugs in the treatment of different diseases Phytochemicals from Medicinal Plants Hafiz Ansar Rasul Suleria, Megh R. Goyal, Masood Sadig Butt, 2019-11-15 Phytochemicals from Medicinal Plants Scope Applications and Potential Health Claims explores the importance of medicinal plants and their potential benefits for human health This book looks at bioactive compounds from medicinal plants the health benefits of bioactive compounds the applications of plant based products in the food and pharmaceutical industries The first section discusses available sources of bioactive compounds from medicinal plants biochemistry structural composition potential biological activities and how bioactive molecules are isolated from medicinal plants The authors examine the applications of bioactive molecules from a health perspective looking at the pharmacological aspects of medicinal plants the phytochemical and biological activities of different natural products and ethnobotany and medicinal properties and also present a novel dietary approach for disease management. The book goes on to examine the plant based products are used and can be used in various sectors of the food and pharmaceutical industries

Biotechnology, Multiple Omics, and Precision Breeding in Medicinal Plants Jen-Tsung Chen, 2025-03-27
Biotechnology Multiple Omics and Precision Breeding in Medicinal Plants explores the various methods for advancing medicinal plant research. It covers a wide range of approaches including integrated and advanced plant biotechnology mutagenesis nanotechnology genome wide association studies multiple omics tools and high throughput technologies. The book highlights the significant impact of combining pan genomics with metabolomics in medicinal plant research particularly in understanding how genetic diversity influences the profiles of secondary metabolites and the therapeutic potential of these plants FEATURES Explores ways to improve the production of secondary metabolites and bioactive compounds in key medicinal plants Features information on bioinformatics artificial intelligence models molecular markers and genome editing

techniques such as CRISPR assisted precision breeding Promotes specific prebiotic formulas to ward off adverse effects of antibiotics Covers information on epigenetic regulation in boosting secondary metabolite production and the use of speed breeding combined with high throughput technologies Proposing a multitude of technologies and methodologies in plant biotechnology with focus on enhancing the production of secondary metabolites and bioactive compounds from medicinal plants this book is an ideal resource for researchers and academia in plant sciences breeding agriculture and horticulture Drug Discovery and Development, Volume 2 Mukund S. Chorghade, 2007-09-24 From first principles to real world applications here is the first comprehensive guide to drug discovery and development Modern drug discovery and development require the collaborative efforts of specialists in a broadarray of scientific technical and business disciplines from biochemistry to molecular biology organic chemistry to medicinal chemistry pharmacology to marketing Yet surprisingly until now there were no authoritative references offering a complete fully integrated picture of the process The only comprehensive quide of its kind this groundbreaking two volume resource provides an overview of the entire sequence of operations involved in drug discovery and develop ment from initial conceptualization to commercialization to clinicians and medical practitioners Volume 1 Drug Discovery describes all the steps in the discovery process including conceptualizing a drug creating a library of candidates for testing screening candidates for in vitro and in vivo activity conducting and analyzing the results of clinical trials and modifying a drug as necessary Volume 2 Drug Development delves into the nitty gritty details of optimizing the synthetic route drug manufacturing outsourcing and marketing including drug coloring and delivery methods Featuring contributions from a world class team of experts Drug Discovery and Development Features fascinating case studies including the discovery and development of erythromycin analogs Tagamet and Ultiva remifentanil Discusses the discovery of medications for bacterial infections Parkinson's disease psoriasis peptic ulcers atopic dermatitis asthma and cancer Includes chapters on combinatorial chemistry molecular biology based drug discovery genomics and chemogenomics Drug Discovery and Development is an indispensable working resource for industrial chemists biologists biochemists and executives who work in the pharmaceutical industry Medicinal Plants Mallappa Kumara Swamy, Jayanta Kumar Patra, Gudepalya Renukaiah Rudramurthy, 2019-05-10 This book details several important medicinal plants their occurrence plant compounds and their chemical structures and pharmacological properties against various human diseases It also gives information on isolation and structural elucidation of phytocompounds bio assays metabolomic studies and therapeutical applications of plant compounds Bioactive Compounds from Plants Derek J. Chadwick, Joan Marsh, 2008-04-30 Useful throughout history for their medical as well as other benefits plant derived compounds have gained particular importance recently due to environmental factors The isolation and characterization of plant products the identification of their role in the plant and ways of synthesizing identical compounds or more potent analogues are covered Also includes methods of culturing plant tissues and genetic engineering as a means of increasing the yield of desired

substances from plants Special emphasis is placed on plants previously unknown to Western scientists

Ethnopharmacology and OMICS Advances in Medicinal Plants Volume 2 Mukesh Nandave, Rohit Joshi, Jyoti Upadhvav,2024-10-16 This book delves into diverse facets and applications of medicinal plants It discusses the metabolic transcriptomic and genomic intricacies of medicinal plants shedding light on their chemical compositions genetic makeup and regulatory mechanisms. It includes a chapter on nanotechnology investigating the influence of nanoparticles on medicinal plants Subsequent chapters explore functional genomics and genome editing showcasing innovative approaches to modifying plant genetics It also discusses plant associated microorganisms in the microbiome and endophytic fungi Furthermore the book addresses the critical issues of genetic diversity agrotechnology for sustainable production intellectual property rights and the impact of various stresses on medicinal plants This book serves as a valuable resource for researchers educators and students of pharmacology offering a comprehensive understanding of medicinal plants and their evolving role in science and medicine Symbiotic Association of Microorganisms with Medicinal and Herbal Plants Allah Ditta, Sajid Mehmood, Azamal Husen, 2024-12-19 Research establishes that symbiotic association of microbes with medicinal and herbal plants enhance the growth and accumulation of bioactive materials and that species of microbes including bacterial and fungal species play a key role Symbiotic Association of Microorganisms with Medicinal and Herbal Plants identifies the important symbiotic association between microbes and medicinal plants including perspectives in improving bioactive ingredients for the synthesis and preparation of pharmaceutical drugs Features Provides a comprehensive overview of symbiotic association of microorganisms with medicinal and herbal plants Discusses the impacts of symbiotic association on the diversity growth and chemical components of the medicinal and herbal plants Elaborates opportunities and future challenges regarding the understanding of symbiotic association between microbes and medicinal plants A volume in the Exploring Medicinal Plants series this book provides exciting information in a structured manner for scientists researchers and students working in various fields including medicinal plants microbiology economic botany chemistry biotechnology pharmacognosy and pharmaceuticals Medicinal Plants: Microbial Interactions, Molecular Techniques and Therapeutic Trends Zulgurnain Khan, Azra Yasmin, Naila Safdar, 2023-12-22 Medicinal Plants Microbial Interactions Molecular Techniques and Therapeutic Trends is a comprehensive exploration of the fascinating world of medicinal plants their therapeutic advancements and the application of molecular techniques to unlock their full potential This book is structured into three illuminating sections each shedding light on different facets of this rapidly developing field Section 1 Exploring Plant Microbe Interactions Covers the relationship between microbes and plants the historical context and the pivotal role of microbes in shaping the future of medicinal plants Discover the diverse array of bacteria associated with these plants and grasp their significance in enhancing the medicinal value of plants Section 2 Harnessing Molecular Techniques Covers cutting edge molecular techniques such as genome editing and modern breeding methods to optimize the genetic traits of

medicinal plants By understanding these techniques readers will learn how to enhance plant growth yield and quality Section 3 Nanotechnology for Therapeutic Enhancement Covers nanotechnology and its transformative impact on medicinal plants The section highlights emerging nano engineering technology that can revolutionize the therapeutic properties of these plants Medicinal Plants Microbial Interactions Molecular Techniques and Therapeutic Trends is a book for Interdisciplinary readers students scientists academics and industry professionals alike Whether you re a student scientist academic or industry professional this book is your gateway to the evolving world of plant based medicine Readership Students scientists academics and industry professionals in plant sciences and pharmaceutical chemistry

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