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MEDICINAL PLANTS

CHEMISTRY, BIOLOGY AND OMICS

DA CHENG HAO, XIAO JIE GU AND PEI GEN XIAO



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Medicinal Plants Chemistry Biology And Omics

Ensheng Dong



Medicinal Plants Chemistry Biology And Omics:

Medicinal Plants Da-Cheng Hao,Xiao Jie Gu,Pei Gen Xiao,2015-06-29 Medicinal Plants Chemistry Biology and Omics reviews the phytochemistry chemotaxonomy molecular biology and phylogeny of selected medicinal plant tribes and genera and their relevance to drug efficacy Medicinal plants provide a myriad of pharmaceutically active components which have been commonly used in traditional Chinese medicine and worldwide for thousands of years Increasing interest in plant based medicinal resources has led to additional discoveries of many novel compounds in various angiosperm and gymnosperm species and investigations on their chemotaxonomy molecular phylogeny and pharmacology Chapters in this book explore the interrelationship within traditional Chinese medicinal plant groups and between Chinese species and species outside of China Chapters also discuss the incongruence between chemotaxonomy and molecular phylogeny concluding with chapters on systems biology and omics technologies genomics transcriptomics proteomics and metabolomics and how they will play an increasingly important role in future pharmaceutical research Reviews best practice and essential developments in medicinal plant chemistry and biology Discusses the principles and applications of various techniques used to discover medicinal compounds Explores the analysis and classification of novel plant based medicinal compounds Includes case studies on pharmaphylogeny Compares and integrates traditional knowledge and current perception of worldwide medicinal plants

Ethnopharmacological Properties, Biological Activity and Phytochemical Attributes of Medicinal Plants, Volume 1 Bharat Singh,2023-10-24 This book covers the morphological characteristics ethnopharmacological properties isolated and identified structurally diverse secondary metabolites biological and pharmacological activities of medicinal plants Ethnopharmacology is the systematic study of folklore traditional medicines which continue to provide innovative drugs and lead molecules for the pharmaceutical industry In fact plant secondary metabolites used as a single molecule or as a mixture are medicines that can be effective and safe even when synthetic drugs fail Therefore the description of these secondary metabolites as well as methods for the targeted expression and or purification is of high interest In addition to surveying the morphological features ethnopharmacological properties biological and pharmacological activities and studies of clinical trials this book offers a comprehensive treatment of 56 plant species It also presents the cell culture conditions and various methods used for increasing the production of medicinally important secondary metabolites in plant cell cultures This volume Provides the morphological features habitat and distribution of each species of 56 genera selected from the different regions of the world Presents ethnopharmacological applications of various species of the 56 genera included in this book Different species of 56 genera are used for ethnomedicinal uses by the people of various countries of the world Describes structures of various secondary metabolites identified in 56 plant species together with their biological and pharmacological activities Discusses strategies of secondary metabolites production such as organ culture pH elicitation hairy root cultures light and mutagenesis Provides a complete overview of each species of 56 genera and complete information up to 2022 Ethnopharmacological

Properties Biological Activity and Phytochemical Attributes of Medicinal Plants is an important book for undergraduate and postgraduate students pharmacologists phytochemists Ayurvedic practitioners medical doctors and biotechnologists interested in the ethnopharmacological properties phytochemistry and biological and pharmacological activities of plants

Ranunculales Medicinal Plants Da-Cheng Hao, 2018-04-23 *Ranunculales Medicinal Plants* Biodiversity Chemodiversity and Pharmacotherapy comprehensively covers this order of flowering plants detailing the phytochemistry chemotaxonomy molecular biology and phylogeny of selected medicinal plants families and genera and their relevance to drug efficacy The book carries out an exhaustive survey of the literature in order to characterize global trends in the application of flexible technologies The interrelationship between Chinese species and between Chinese and non Chinese species is inferred through molecular phylogeny and based on nuclear and chloroplast DNA sequencing The book discusses the conflict between chemotaxonomy and molecular phylogeny in the context of drug discovery and development Users will find invaluable and holistic coverage on the study of Ranunculales that will make this the go to pharmaceutical resource Describes current perceptions of biodiversity and chemodiversity of Ranunculales Explains how the conceptual framework of plant pharmacophylogeny benefits the sustainable exploitation of Ranunculales Details how Ranunculales medicinal plants work from the chemical level upward Covers how the polypharmacology of Ranunculales compounds might inspire new chemical entity design and development for improved treatment outcomes

Medicinal Plants of Laos Djaja Djendoel

Soejarto, Bethany G. Elkington, Kongmany Sydara, 2023-05-22 This book provides a description of medicinal plants of Laos including their role in maintaining healthcare among the population their potential as a source for new medicinal compounds their preservation and their importance for the well being of the communities for present and future generations The focus of this book is to draw on the rich culture folklore and environment of medicinal plants in the country This is an opportunity to describe medicinal plants from a scientifically underrepresented area with the hope of making an important contribution to the knowledge of the region for academics scientists and anyone who has interest in Laos Features Describes terrestrial medicinal plants from a scientifically underrepresented region Includes a wider variety of plants found growing in Laos than has previously been published Discusses past and present research on medicinal plants that may lead to the discovery of new medicines Describes efforts in the preservation of these medicinal plants for present and future generations Focuses on the rich culture folklore and environment of medicinal plant in Laos Provides an important contribution to knowledge of the region and will benefit anyone interested in the medicinal plants of Laos

Essentials of Medicinal and Aromatic Crops

Muhammad Zia-Ul-Haq, Arwa Abdulkreem AL-Huqail, Muhammad Riaz, Umar Farooq Gohar, 2023-10-09 Medicinal and aromatic crops MACs are high value crops since the natural products obtained from them are low volume high value commodities that have numerous applications in various sectors such as the food beverage food supplement flavor and fragrance perfumery and cosmetics pharmaceutical and aromatherapy industries In addition the plant biomass is used in the

production of teas and medical applications in traditional and also modern medicines MACs are important mainly because they contain plant secondary metabolites such as essential oils alkaloids glycosides saponins tannins vitamins and other bioactives Plant secondary metabolites are differentiated from plant primary metabolites of photosynthesis and respiration since they are directly involved in growth and development of plants Some MACs are used as spices and culinary herbs since they contain mainly essential oils and are used as tonic to the digestive system appetite modification and other systems and may facilitate nutrient uptake and utilization from various foods A significant amount of MACs and their natural products have also demonstrated antimicrobial antifungal and bactericidal activity and significant antioxidant capacity In the past MACs and their natural products have been used as a source for various medicines in food and beverage production and in aroma products Essentials of Medicinal and Aromatic Crops summarizes the current knowledge on medicinal and aromatic crops including the agronomical practices of important MACs and their products their beneficial effects and utilization of MAP and their products The chapters provide a comprehensive guide to the most important and used medicinal and aromatic crops and their use in functional foods nutraceuticals and as bioactives against various ailments providing researchers teachers chemists food scientists agronomists and agroecologists in academia industry and government a fully up to date singular source on this important topic *Taxaceae and Cephalotaxaceae* Da-Cheng Hao, 2021-01-05 *Taxaceae and Cephalotaxaceae* Biodiversity Chemodiversity and Pharmacotherapy accounts for the biodiversity and chemodiversity of these medicinal plants examining and synthesizing existing research into their biology chemistry and pharmacotherapy The title examines how pharmacophylogeny allows sustainable conservation and exploitation presents how these plants work from the chemical level upward and examines associated microbe compounds Chapters present a summary of biological and biochemical research of *Taxaceae* plants progress in mining their chemodiversity mining pharmacotherapy utility from their chemodiversity and biodiversity drug metabolism and pharmacokinetic diversity of their medicinal compounds mining pharmacotherapy utility from associated microbes and more Sections cover the biodiversity chemodiversity and pharmacotherapy of *Cephalotaxus* medicinal plants *Amentotaxus* *Pseudotaxus* and *Torreya* medicinal plants The book envisages that multiple omics platforms and advanced systems biology will allow further exploration of *Taxaceae* and *Cephalotaxaceae* thus streamlining the future drug supply chain Covers the biodiversity and chemodiversity of *Taxaceae* *Cephalotaxus* medicinal plants Considers how a pharmacophylogeny framework can benefit conservation and sustainable exploitation of these plants Presents how *Taxaceae* *Cephalotaxus* work from the chemical level upward **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 industries

Himalayan Medicinal Plants Nikhil Malhotra, Mohar Singh, 2021-01-20 The Himalayan Region is a mega hot spot for biological diversity It supports over 1 748 plants species of known medicinal value This title focuses on origin and distribution of Himalayan herbs their medicinal potential industrial significance and research advancements pertaining to molecular breeding and omics based approaches Discusses evolved secondary biochemical pathways often in response to specific environmental stimuli Reviews conservation efforts Presents an in depth analysis of 12 key species

High Altitude Medicinal Plants Suman Chandra, Pharmacognosy and Phytochemistry Uchenna E. Odoh, Shailendra S. Gurav, Michael O. Chukwuma, 2025-04-08 Key information on plant based chemical and pharmacology research from basics and principles through recent technological advances Pharmacognosy and Phytochemistry provides an overview of the basics of pharmacognosy and phytochemistry from early principles through contemporary advances like molecular pharmacognosy The book covers the classification of crude drugs complementary and alternative medical CAM systems adulteration and evaluation of drugs extraction methods of plant drugs and ethnobotany and ethnopharmacology The book also reviews the historical overview therapeutic application cultural and ecological dimensions of plant based medicines Other key chapters discuss biotechnology and clinical pharmacognosy Written by a group of expert contributors Pharmacognosy and Phytochemistry reviews sample topics including Methodologies for extracting bioactive compounds and techniques to perform qualitative and quantitative phytochemical analysis Therapeutic potential of plant secondary metabolites and the processes of isolation purification and characterization of herbal drugs Biological screening methods and biosynthetic pathways of phytopharmaceuticals pharmaceutical aids nutraceuticals cosmeceuticals pesticides and allergens Comparative phytochemistry chemotaxonomy and the emerging field of marine pharmacognosy Combining traditional knowledge with modern advancements to provide a holistic understanding of two important fields Pharmacognosy and Phytochemistry serves as an excellent resource for students researchers and practitioners

Plant-derived natural compounds in drug discovery: The prism perspective between plant phylogeny, chemical composition, and medicinal efficacy Chunnian He, Da-Cheng Hao, Richard Spjut, Peigen

Xiao,2023-01-04 **Sustainable Agroecosystems - Principles and Practices** ,2025-03-19 In an era where global agriculture faces unprecedented challenges Sustainable Agroecosystems Principles and Practices is a comprehensive guide to fostering resilience and sustainability in farming systems This book explores innovative strategies and practices designed to enhance soil health optimize nutrient and water management and integrate ecological and technological advancements By addressing critical topics such as conservation agriculture agroecological practices precision nitrogen management and biological pest control this book equips researchers practitioners and policymakers with the tools and knowledge needed to transform agricultural landscapes Special emphasis is placed on fostering environmental resilience resource efficiency and the adoption of eco friendly solutions that align with the principles of the circular economy Readers will benefit from the book s multidisciplinary approach which bridges traditional and modern practices to meet the demands of sustainable agriculture Whether you are a seasoned academic an agricultural innovator or a policymaker seeking actionable insights this book provides a rich repository of knowledge and inspiration for achieving sustainable agricultural development worldwide

Plant Diseases and Their Management Deepa Srivastava,Rajarshi Kumar Gaur,Ajay K. Tiwari,2024-12-06 This new book Plant Diseases and Their Management A Sustainable Approach studies the most modern methods in control and management of plant diseases It covers a wide range of themes on the biological cultural chemical and genome engineering controls for plant diseases brought on by viruses bacteria phytoplasma and fungi This book details how natural materials organic disease control and new generation fungicides can all be utilized to thwart or stop plant pathogen activity in an effective manner The book also delves into methods for increasing the shelf life of produce presents approaches to plant disease management in organic as well as conventional farming and considers molecular approaches to disease detection and identification in plants The book looks at viral bacterial and fungal diseases in different plants and their management It also discusses several pathogens and how diseases caused by these can be managed effectively It also covers diseases in specific crops such as rice pulses fruits and vegetables including apples berries and capsicum A novel approach of genome engineering to develop resilience in plants against various diseases and future challenges is considered as well Key features Presents management approaches to fungal phytoplasmal viral and bacterial plant diseases Discusses the protection of fruits vegetables and crops from various diseases for prolonged shelf life Looks at genome engineering as a novel approach for fungal bacterial and viral disease management Considers both traditional and modern methods in the management of viruses infecting plants Covering new methods for the sustainable control of plant diseases this volume will be valuable to plant and crop specialists agriculture based industries and faculty and students in the agricultural sciences **Medicinal Spices and Vegetables from Africa** Victor Kuete,2017-01-14 Medicinal Spices and Vegetables from Africa Therapeutic Potential against Metabolic Inflammatory Infectious and Systemic Diseases provides a detailed look at medicinal spices and vegetables that have proven safe and effective for consumption and the treatment of diseases including infectious diseases

cardiovascular disease and cancer It provides pharmacological evidence such as the latest information related to efficacy and safety data in vitro and in vivo studies clinical trials and more to illustrate the use of these spices and vegetables as both palliative and alternative treatments with the goal of furthering research in this area to produce safer and more effective drugs Provides scientific evidence for the potential of medicinal spices and vegetables used in Africa to fight metabolic inflammatory and infectious diseases Includes a review of the latest methods used to investigate the effects of medicinal plants in the treatment of disease Offers an updated resource for students and scientists in the fields of pharmaceutical science pharmacognosy complementary and alternative medicine ethnopharmacology phytochemistry biochemistry and more

Medicinal and Aromatic Plants Tariq Aftab, Khalid Rehman Hakeem, 2020-05-12 Growing consumer interest in organic and herbal based products has led to great demand in the botanicals industry in the past few years However the growing number of products utilizing medicinal and aromatic plants MAPs has threatened an estimated 9 000 medicinal plant species worldwide making it critical to reevaluate their research and development production and utilization Continuing advances in Omics methodologies and instrumentation are essential to understanding how plants cope with the dynamic nature of their growing environment how yields and characteristics can be improved and how to most effectively direct conservation efforts With a focus on metabolomics genomics proteomics transcriptomics and more Medicinal and Aromatic Plants Expanding Their Horizons through Omics illustrates the genetic mechanisms of MAPs providing a better understanding of MAPs conservation and methods to improve characteristics for medical applications With an introduction on the role of MAPs in human health subsequent chapters discuss using proteomics to increase MAP yields and plant quality genome editing and CRISPR Cas9 A valuable resource for farmers scientists chemists biochemists pharmacists and students interested in medicinal and aromatic plants and plant biology Medicinal and Aromatic Plants Expanding Their Horizons through Omics ensures readers have the background knowledge to put the necessary methodologies into practice themselves Includes in depth analysis of Omics technologies for the enhancement of MAPs Discusses applications of MAPs including their role in human health Written by world wide leading experts in the field

Japanese Kampo Medicines for the Treatment of Common Diseases Somasundaram Arumugam, Kenichi Watanabe, 2017-03-17 Japanese Kampo Medicines for the Treatment of Common Diseases Focus on Inflammation provides researchers and clinicians with a current look at how Kampo medicines can be used to effectively treat inflammatory disorders Japanese Kampo medicines are a mixture of natural and herbal medicines that are available in Japan for the treatment of various diseases Given their therapeutic potential they are often prescribed instead of or alongside allopathic medicines Kampo medicines are becoming more widespread and have proven effective for the treatment of a variety of inflammatory diseases such as colitis dermatitis myocarditis hepatitis cardiomyopathy and nephritis This book offers background on Japanese Kampo medicines along with a compilation of the published scientific data for several different types of Kampo medicines It is an evidence based guide for all those involved in

or interested in the research and practice of Kampo medicine Includes both preclinical and clinical data published from a variety of sources and compiled into one book Provides insight for researchers and clinicians on which Kampo medicines will provide the least side effects and offer the most effective therapy for a particular illness Offers important data that will help to inform future research and widen practice in this area **From Herbs to Healing** Éva Szöke, Ágnes Kéry, Éva Lemberkovics, 2023-01-17

In the twenty first century Pharmacognosy was transformed into a molecular science building on classic botanical and modern chemical knowledge leading to a better understanding of the complex molecular effect structure relationships and interactions required for the development of new drugs based on biologically active plant substances The work demonstrates the place of phytotherapy in healing the role of herbs in complementary and traditional therapy and research strategies for the development of drugs of natural plant origin This book is primarily designed for scientific researchers but is also very useful for undergraduate and postgraduate students in their professional training As this book discusses herbs from all over the world it is specifically drafted to be useful not only in Hungary and Europe but also for people in other continents as an English language encyclopaedia of medicinal plants and their biologically active compounds **The CBD Handbook** Karin Mallion, 2021-11-25

An accessible handbook for patients and practitioners bringing new clarity to our understanding of CBD and cannabis In recent years the popularity of CBD products has exploded with wonder drug claims being made for nearly every ailment ranging from cancer to anxiety But what do we actually know about this panacea There is more often than not a cloud of confusion which surrounds CBD in its many forms What does it actually do What s the best way to use it What s the difference between the vast array of products Are there herb drug interactions Complementary practitioners are not trained in the benefits or contraindications of cannabis when used medically A quick search on the internet often produces more confusion with a plethora internet help forums springing up and manufacturers trying to jump onto the bandwagon often creating products of dubious quality made from vague ingredients Karin Mallion s new book aims to fill the gaps in our understanding of CBD The CBD Handbook is an accessible guide written for patients and practitioners alike which provides readers with a history and overview of CBD and cannabis It lists in detail which conditions and ailments CBD can help with and provides a detailed look at cannabinoids THC endocannabinoids and the endocannabinoid system It also explores the different types of cannabis the phytochemistry of cannabis appropriate herbal medicine to use alongside CBD and cannabis legal issues case histories and issues around clinical use *Molecular Pharmacognosy* Lu-qi Huang, 2019-11-27

This book discusses the application of molecular biology in resource science and authentication of traditional Chinese medicine TCM It also reviews the latest developments in pharmacognosy introduces new perspectives and insights discusses the hotspots and focuses in the field of molecular pharmacognosy and predicts new directions of study In the last five years the technologies and scope of molecular pharmacognosy have constantly expanded and evolved As such this new edition includes extra content such as the molecular

phylogeography of medicinal plants functional genome of medicinal plants and synthetic biology of active compounds
Elucidating the concept theory and methodology of molecular pharmacognosy it promotes the full use of the newly developed technologies and methodologies within the framework of molecular pharmacognosy to solve problems in the field

Hairy Roots Vikas Srivastava, Shakti Mehrotra, Sonal Mishra, 2018-11-27 The growing scale of plant based chemicals for industrial use has generated considerable interest in developing methods to meet their desired production levels Among various available strategies for their production the development of *Agrobacterium rhizogenes* mediated hairy root cultures HRCs is generally considered the most feasible approach Additionally several proof of principle experiments have demonstrated the practical feasibility of HRCs in the plant based remediation of environment pollutants biotransformation of important compounds and production of therapeutic proteins Given that hairy root biotechnology has now been recognized as a promising and highly dynamic research area this book offers a timely update on recent advances and approaches hairy roots as a multifaceted biological tool for various applications Further it seeks to investigate the loopholes in existing methodologies identify remaining challenges and find potential solutions by presenting well thought out scientific discussions from various eminent research groups working on hairy root biotechnology This book provides detailed conceptual and practical information on HRC based research along with relevant case studies The content is divided into three broad sections namely i Hairy Roots and Secondary Metabolism ii Progressive Applications and iii Novel Approaches and Future Prospects By informing the research and teaching community about the major strides made in HRC based interventions in plant biology and their applications the book is sure to spark further research in this fascinating field

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