



Essentials of Botanical Extraction

Principles and Applications

Subhash C. Mandal
Vivekananda Mandal
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Essentials of Botanical Extraction Subhash C. Mandal, Vivekananda Mandal, Anup Kumar Das, 2015-02-02 Essentials of Botanical Extraction Principles and Applications provides a unique single source of valuable information on the various botanical extraction methods available from conventional to the use of green and modern extraction technologies including ultrasounds microwaves pressurized liquids and supercritical fluids Most extracts obtained from botanicals are often poorly characterized with unidentified active or inactive constituents A wise selection of an extraction strategy is vital to drug discovery from medicinal plants as extraction forms the basic first step in medicinal plant research This book also explores the mathematical hypotheses and innovations in botanical extractions and analyzes different post extraction operations so that dependency on serendipity is reduced and the same be converted into programmed drug discovery Reviews the history and current state of natural product drug discovery and development highlighting successes and current issues Explains the application of chemometric tools in extraction process design and method development Introduces process intensification as applied to the processing of medicinal plant extracts for rapid and cost effective extraction

Handbook of Research on Food Processing and Preservation Technologies Megh R. Goyal, Preeti Birwal, Monika Sharma, 2021-11-25 Handbook of Research on Food Processing and Preservation Technologies will be a 5 volume collection that attempts to illustrate various design development and applications of novel and innovative strategies for food processing and preservation The role and applications of minimal processing techniques such as ozone treatment vacuum drying osmotic dehydration dense phase carbon dioxide treatment pulsed electric field and high pressure assisted freezing are also discussed along with a wide range of applications The handbook also explores some exciting computer aided techniques emerging in the food processing sector such as robotics radio frequency identification RFID three dimensional food printing artificial intelligence etc Some emphasis has also been given on nondestructive quality evaluation techniques such as image processing terahertz spectroscopy imaging technique near infrared Fourier transform infrared spectroscopy technique etc for food quality and safety evaluation The significant roles of food properties in the design of specific foods and edible films have been elucidated as well The first volume in this set Nonthermal and Innovative Food Processing Methods provides a detailed discussion of many nonthermal food process techniques These include high pressure processing ultraviolet light technology microwave assisted extraction high pressure assisted freezing microencapsulation dense phase carbon dioxide aided preservation to name a few The volume is a treasure house of valuable information and will be an excellent reference for researchers scientists students growers traders processors industries and others

Biocontrol Systems and Plant Physiology in Modern Agriculture Romeo Rojas, Guillermo Cristian Guadalupe Martínez Ávila, Juan Antonio Vidales Contreras, Cristóbal Noé Aguilar, 2022-09-22 Biocontrol Systems and Plant Physiology in Modern Agriculture Processes Strategies Innovations focuses on new production alternatives that do not include pesticides herbicides or chemicals for primary food production and instead rely on

biologically controlled systems of production The book also relates a number of advances and innovations in the use of agricultural technologies that employ the study of the physiology of plants to know their resistance to different environments in modern agriculture The book presents research offering viable alternatives for the control of pests for safe food production that are environmentally friendly and that facilitate the reduction of production costs and improve the quality and yield of produce The volume addresses innovative biocontrol systems to reduce or eliminate the use of agrochemicals by controlling plant diseases by minimizing environmental damage through the use of antagonistic organisms It also presents new strategies of cultivation that maximize production by optimizing light temperature humidity nutrients and humidity in a controlled environment The diverse topics in the volume include botanical compounds as adjuvants as an alternative to reduce the pesticide use on site production of bio control agents plant factory systems that offer controlled safe environments for plant cultivation promising bio nematicides for sustainable agriculture wastewater reclamation for agricultural purposes the recovery of phytochemicals from plants using LED lights on plants and microgreens production and much more Covering the new trends in biological control plant factories and plant metabolism for application in modern agriculture this volume provides important research and knowledge that facilitates environmentally friendly plant systems advances the reduction of production costs and improves the quality and yield of produce

High Value Fermentation Products, Volume 1 Saurabh Saran,Vikash Babu,Asha Chaubey,2019-03-12 Green technologies are no longer the future of science but the present With more and more mature industries such as the process industries making large strides seemingly every single day and more consumers demanding products created from green technologies it is essential for any business in any industry to be familiar with the latest processes and technologies It is all part of a global effort to go greener and this is nowhere more apparent than in fermentation technology This book describes relevant aspects of industrial scale fermentation an expanding area of activity which already generates commercial values of over one third of a trillion US dollars annually and which will most likely radically change the way we produce chemicals in the long term future From biofuels and bulk amino acids to monoclonal antibodies and stem cells they all rely on mass suspension cultivation of cells in stirred bioreactors which is the most widely used and versatile way to produce Today a wide array of cells can be cultivated in this way and for most of them genetic engineering tools are also available Examples of products operating procedures engineering and design aspects economic drivers and cost and regulatory issues are addressed In addition there will be a discussion of how we got to where we are today and of the real world in industrial fermentation This chapter is exclusively dedicated to large scale production used in industrial settings

Functional Coatings for Biomedical, Energy, and Environmental Applications Raj K. Arya,George D. Verros,J. Paulo Davim,2024-10-08 Understand functional coatings and their role in three key industries of the future Functional coatings play a huge range of roles in industries from automotive to aerospace to electronic and beyond They offer protection performance enhancement corrosion resistance self cleaning

properties and more Recent developments in the field have allowed for ever more precise optimization of functional coatings with the result that demand for these key tools is only likely to increase Functional Coatings for Biomedical Energy and Environmental Applications offers a comprehensive overview of these coatings and their applications in three explosively productive industries A team of expert contributors provides chapters analyzing the latest developments in this growing area of production with a particular focus on the dynamic relationship between functional coatings and their many applications The result is an interdisciplinary text which will serve as an essential resource for researchers and industry professionals worldwide Readers will also find Analysis of functional coatings for dental implants pool boilers solar cells and many more Detailed discussion of coating properties including superhydrophobicity self cleaning controlled drug release and more Key contributions to the great environmental challenges of the twenty first century This book is a must own for researchers in chemistry engineering energy materials science and more as well as for industry professionals working with coating and other aspects of research and development in biomedical energy or environmental industries

Natural Products and Drug Discovery Subhash C. Mandal,Vivekananda Mandal,Tetsuya Konishi,2018-02-16 Natural Products and Drug Discovery An Integrated Approach provides an applied overview of the field from traditional medicinal targets to cutting edge molecular techniques Natural products have always been of key importance to drug discovery but as modern techniques and technologies have allowed researchers to identify isolate extract and synthesize their active compounds in new ways they are once again coming to the forefront of drug discovery Combining the potential of traditional medicine with the refinement of modern chemical technology the use of natural products as the basis for drugs can help in the development of more environmentally sound economical and effective drug discovery processes Natural Products Drug Discovery An Integrated Approach reflects on the current changes in this field giving context to the current shift and using supportive case studies to highlight the challenges and successes faced by researchers in integrating traditional medicinal sources with modern chemical technologies It therefore acts as a useful reference to medicinal chemists phytochemists biochemists pharma R D professionals and drug discovery students and researchers Reviews the changing role of natural products in drug discovery integrating traditional knowledge with modern molecular technologies Highlights the potential future role of natural products in preventative medicine Supported by real world case studies throughout

Bioorganic Phase in Natural Food: An Overview S. Mohana Roopan,G. Madhumitha,2018-04-20 The focus of this singular work is to discuss the role and importance of bioorganic phase in food products providing the first major reference source for researchers looking to understand all aspects of the isolation extraction and application of this major element in natural foods From the identifying features to its applications through biotechnology and nanobiotechnology this book covers all of the important aspects of bioorganic phase and points to future uses and methods With chapters focusing on phase extraction and application food product synthesis and nanoparticle application Bioorganic Phase in Natural Food An Overview covers both conventional and

non conventional approaches for the extraction of bioorganic phase from various food sources Toxicity studies in nanoparticles are presented and the vital role played by bioorganic phase toward nanoparticles synthesis is outlined in full For any researcher looking for complete coverage of all main aspects of bioorganic phase in foods this work provides a comprehensive and well researched view of this important subject *Emerging Technologies and Industrial Applications of Corrosion Science* El Kacimi, Younes,Alaoui, Khaoula,2025-04-24 Corrosion stands as a persistent and costly challenge across numerous industrial sectors posing threats to infrastructure integrity financial stability and safety The progressive degradation of metals due to chemical reactions with their environment not only results in substantial financial losses but also raises significant safety concerns The need for effective corrosion protection technologies has never been more pressing as industries strive to maintain operational efficiency extend the lifespan of critical assets and ensure the safety of personnel *Emerging Technologies and Industrial Applications of Corrosion Science* emerges as a solution to the pervasive problem of corrosion offering a deep dive into the latest advancements in corrosion protection By delving into innovative techniques and protective methods this book equips professionals with the knowledge and tools needed to combat corrosion effectively Through a blend of theoretical insights and practical applications the book empowers engineers industrial chemists researchers and students to implement cutting edge corrosion mitigation strategies across diverse industrial sectors

Isolation, Characterization, and Therapeutic Applications of Natural Bioactive Compounds Singh, Ajeet,2022-06-30 Natural products have historically been key to drug discovery and therapeutic applications throughout many societies In the modern era natural bioactive compounds can be isolated and their effects can be further studied for more successful outcomes It is essential to study these natural bioactive compounds to enhance pharmaceuticals and drug discovery *Isolation Characterization and Therapeutic Applications of Natural Bioactive Compounds* examines the applications of natural bioactive compounds from a health perspective It discusses medicinal and therapeutic applications of natural bioactive molecules as well as the biological activities of different natural products and their properties Covering topics such as drug discovery government regulations and phytochemical extraction this premier reference source is an excellent resource for pharmacists medical practitioners phytologists hospital administrators government officials faculty and students of higher education librarians researchers and academicians COMPLETE COURSE IN NATURAL COSMETICS Marcel Souza, Unlock the secrets of nature s beauty with the Complete Course in Natural Cosmetics This comprehensive guide is your gateway to mastering the art of creating luxurious safe and effective cosmetics using only natural ingredients Whether you re a beginner or an experienced beauty enthusiast this course offers step by step instructions detailed recipes and expert tips to help you craft a wide range of skincare and haircare products that are free from harmful chemicals and artificial additives Explore the world of natural oils herbs and essential ingredients that nurture your skin and hair delivering incredible results while being kind to the environment You ll learn how to formulate personalized products from soothing

creams and nourishing lotions to rejuvenating face masks and gentle cleansers all tailored to your unique needs and preferences This book also delves into the science behind natural cosmetics offering insights into how different ingredients work together to enhance beauty and well being With this knowledge you ll be able to create high quality products that rival those found in high end stores all from the comfort of your home Join the growing movement of conscious consumers who are choosing natural beauty alternatives With the Complete Course in Natural Cosmetics you ll gain the skills and confidence to craft your own line of natural beauty products making your skincare routine not only effective but also a true expression of your love for nature

DIY Herbal Remedies Barrett Williams, ChatGPT, 2024-06-26 Discover the Power of Nature with DIY Herbal Remedies Unlock the secrets of nature s pharmacy with DIY Herbal Remedies your comprehensive guide to the world of natural healing This illuminating eBook takes you on a journey from the ancient origins of herbal medicine to contemporary practices that can easily be integrated into your daily life Start with a brief history of herbal medicine and explore the numerous benefits of crafting your own remedies Get equipped with the essential tools and safety guidelines and learn how to identify and source quality herbs whether you re wildcrafting growing your own or purchasing dried varieties Delve into detailed explanations of herbal properties and actions ensuring you understand the active ingredients and their effects on the body Learn how to make basic yet potent infusions and teas that can soothe and heal Become adept at creating alcohol based tinctures non alcohol alternatives and understand their preservation and usage Transform your kitchen into a healing lab with guides on making infused oils salves syrups and lozenges Discover the therapeutic benefits of herbal poultices compresses baths and facial steams Master the art of crafting skincare remedies to treat common conditions naturally Address common ailments such as digestive issues respiratory conditions and stress with effective herbal solutions Harness the power of herbs for seasonal health women s health and gentle remedies for children For those seeking to elevate their practice explore advanced techniques like making herbal capsules glycerites and advanced extraction methods Personalize your herbal regimen keep a detailed remedy journal and learn how to integrate herbs into your daily routine Troubleshoot common issues adjust dosages and ensure your remedies stay fresh and effective Create a herbal first aid kit ready for any emergency and explore ethical considerations to support sustainability and local suppliers Empower yourself with knowledge connect with herbal communities and stay current with ongoing research DIY Herbal Remedies is your essential guide to embracing the wisdom of herbal medicine and taking charge of your health naturally Start your journey towards holistic wellness today

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

Industrial Crops and Uses Bharat P. Singh,2010 The demand for plant based industrial raw materials has increased as well as research into expanding the utility of plants for current and future uses Plants are renewable have limited or positive environmental impact and have the potential to yield a wide range of products in contrast to petroleum based materials Plants can be used in a variety of different industries and products including bioenergy industrial oil and starch fibre and dye rubber and related compounds insecticide and land rehabilitation This title offers a comprehensive coverage of each of these uses Chapters discuss the identification of plant species with desired traits their cultivation to obtain the needed raw materials methods utilized in producing different finished products current and future research in crop production and processing and the present state and future prospects for the industry Providing the first systematic review of industrial crops and their uses this book will be an important resource for students and researchers of crop science and agricultural policy makers

Phytocosmetics and Cosmetic Science Nattaya Lourith,Karl Tsim,2021-07-22 This concise guide to cosmetic active ingredients derived from plant sources will bring scientists researchers in cosmetic science and dermatology practitioners up to speed with the basic science and its applications in manufacturing and dermatological practice It acts as a concise and quick reference from key researchers and an up to date guide to translation into practice providing an easy to consult resource on a topic of great current interest

Bioactive Natural Products for Pharmaceutical Applications Dilipkumar Pal,Amit Kumar Nayak,2020-12-14 This book covers the recent innovations relating to various bioactive natural products such as alkaloids glycosides flavonoids anthraquinones steroids polysaccharides tannins and polyphenolic compounds volatile oils fixed oils fats and waxes proteins and peptides vitamins marine products camptothecin piperines carvacrol gedunin GABA ginsenosides and their applications in the pharmaceutical fields related to academic research and industry

Essential Oils Rajendra Chandra Padalia,Dakeshwar Kumar Verma,Charu Arora,Pramod Kumar Mahish,2023-02-20 Essential oils are simply the volatile oils of plants These are concentrated liquids contain many terpenes alkaloids and alcohols etc Various compounds of essential oils have bioactive properties such as antimicrobial anti cancer anti diabetic anti viral and anti fungal etc This book describes the sources of essential oils extraction and production method characterizing tools bioactivity and various applications in the field of industries daily usage agriculture health and food

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 Industrial Applications of Green Solvents

Inamuddin, 2019-08-20 The book explores industrial applications of green solvents in industrially important areas such as oil extraction sensors and biosensors CO₂ capture lignocellulosic biomass utilization bio based chemicals and their application in catalysis electrochemical devices purification of pharmaceuticals organic synthesis and transformations bio lubricant additives aluminum and aluminum alloy production The solvents covered include water ionic liquids supercritical carbon dioxide and glycerol *Herbal Medicine* Philip Builders, 2019-01-30 Herbal medicine is a multidisciplinary compilation of topics in herbal medicine that are designed to enlighten all who have a stake in healthcare In light of the current trends and popularity of herbal medicine cultural societal differences and perception and the relationship with modern healthcare this book presents selected topics to ensure that necessary information on herbal medicine in healthcare is provided Apart from clarifying certain important complexities and misconceptions on herbal medicine a general overview of herbal medicine uses of herbs in the management of diseases plant secondary metabolites analytical techniques applications in stem cell research use as leads for conventional drug compound development and research and development of herbal medicines for healthcare are among the major discussions in this book Ethnoveterinary Botanical Medicine David R. Katerere, Dibungi

Luseba, 2010-06-23 Despite the undoubted success of a scientific approach to pharmaceuticals the last few decades have witnessed a spectacular rise in interest in herbal medicinal products This general interest has been followed by increasing scientific and commercial attention that led to the coining of the term ethnopharmacology to describe the scientific discipl

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