

Biological Activity Of Cymbopogon Citratus Dc Stapf And

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Grasses - Amjad Almusaed
2017-09-06

This book has been prepared to embody the major and efficient applications of the different duties and roles of grasses in our life, as well as offered a solid concept for this kind of science. The book aims to illustrate various ideas,

methods and how it is treated in the agronomic process for different forms of grasses in human life.

GABA Receptors—Advances in Research and Application:

2012 Edition - 2012-12-26

GABA Receptors—Advances in Research and Application:

2012 Edition is a

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Medicinal Plants of the Philippines - Eduardo Quisumbing 1978

Thin Film Processes - Hyun Wook Jung 2020-12-29
Thin film processes are significantly incorporated in manufacturing display panels, secondary batteries, fuel/solar cells, catalytic films, membranes, adhesives, and other commodity films. This Special Issue on “Thin Film Processes” of Processes listed recent progress on thin-film processes, covering theoretical considerations, experimental observations, and computational techniques. Articles in this Issue consider comprehensive studies on thin film processes and related materials.

Antifungal Metabolites from Plants - Mehdi Razzaghi-Abyaneh 2013-06-26
The goal of this book is to provide essential information on the use of different medicinal plants and their secondary metabolites for the

treatment of various fungal diseases affecting human beings, animals and plants. It is divided in four parts: Part I examines the global distribution of plant-derived antifungal compounds, Part II deals with antifungal activities of plant metabolites, Part III includes plants used in Ayurveda and traditional systems for treating fungal diseases, and Part IV discusses the use of plant-derived products to protect plants against fungal diseases.

Chemical Nanoscience and Nanotechnology - Francisco Torrens 2019-08-05

This new volume presents a wealth of practical experience and research on new methodologies and important applications in chemical nanotechnology. It also includes small-scale nanotechnology-related projects that have potential applications in several disciplines of chemistry and nanotechnology. In this book, contributions range from new methods to novel applications of existing methods to gain

understanding of the material and/or structural behavior of new and advanced systems. Topics cover computational methods in chemical engineering and chemoinformatics, studies of some of physico-chemical properties of several important nanoalloy clusters, the use of 3D reconstruction of nanofibrous membranes, nanotechnology research for green engineering and sustainability, nanofiltration and carbon nanotubes applications in water treatment, and much more.

Nonvitamin and Nonmineral Nutritional Supplements - Seyed Mohammad Nabavi 2018-09-28

Nonvitamin and Nonmineral Nutritional Supplements compiles comprehensive information and recent findings on supplements found in today's market. The book focuses on non-essential nutrients, animal extracts, yeast and fungi extracts, and plant and algae extracts used as supplements. Readers will find valuable insights on the

impact of dietary supplementation on human health, along with an understanding of the positive and negative aspects of each supplement. Provides reliable information on available supplements to inform nutritional practices Presents each supplement's sources, availability, health benefits, drawbacks, and possible interactions with other supplements, food or drugs Serves as a guide to non-essential nutrients, plant and algae extracts, animal extracts, including bee products and shark cartilage, and supplements from yeast and fungi

Antioxidants in Vegetables and Nuts - Properties and Health Benefits - Gulzar

Ahmad Nayik 2020-12-01

This book covers the nutritional and nutraceutical profiles of a wide range of popularly consumed vegetables and nuts. The first half of the book focuses on popular vegetables, and describes how higher vegetable consumption reduces the risk of diseases

ranging from diabetes to osteoporosis, diseases of the gastrointestinal tract, cardiovascular diseases, autoimmune diseases and cancer. The book also includes an interesting section on the antioxidant potential of mushrooms. In turn, the second half discusses the nutritional value of various nuts. Nuts are nutrient-dense foods with complex matrices rich in unsaturated fats, high-quality protein, fiber, minerals, tocopherols, phytosterols and phenolics. The respective chapters illustrate how the consumption of nuts could ward off chronic diseases like hypertension, cancer, inflammation, oxidative stress, high blood pressure, coronary heart disease etc. In order to effectively promote vegetable and nut consumption, it is necessary to know and understand the nutritional and nutraceutical profiles of vegetables & nuts. Given its scope, the book will be of interest to students, researchers, food scientists, olericulturists, dietitians and

agricultural scientists alike. Those working in the vegetable and nut processing industries, horticultural departments and other agricultural departments will also find the comprehensive information relevant to their work.

Bacterial Biofilms - Sadik Dincer 2020-10-07

This book examines biofilms in nature. Organized into four parts, this book addresses biofilms in wastewater treatment, inhibition of biofilm formation, biofilms and infection, and ecology of biofilms. It is designed for clinicians, researchers, and industry professionals in the fields of microbiology, biotechnology, ecology, and medicine as well as graduate and postgraduate students.

Medicinal Plants of Borneo - Simon Gibbons 2021-05-04

The rich biodiversity of Borneo provides many useful plants for medicinal purposes. Written by experts in the field, *Medicinal Plants of Borneo* provides a guide and introduction to the medicinal plants from Borneo used traditionally as well as

plants whose medicinal uses have been recently discovered. These include anti-HIV plants - such as *Calophyllum lanigerum* (calanolide A) - and anti-cancer plants - such as *Aglaia foveolata* (silvestrol). The book also provides information on the relevant medicinal chemistry, such as isolated bioactive compounds and the mechanism of action, where available. FEATURES

Discusses the rich experience in the use of medicinal plants and the wide diversity of Borneo's botanical resources
Presents plants with medicinal properties from a scientific perspective
Provides readers with current information on the chemistry and pharmacology of natural products with pharmaceutical potential
Covers a range of chemical, botanical and pharmacological diversities
Forms an important part of the Natural Products Chemistry of Global Plants series due to an increasing global interest in natural products and botanical drugs
Simon Gibbons is Head of the School of Pharmacy, University

of East Anglia, UK, and a Professor of Natural Product Chemistry. He was formerly a Professor of Medicinal Phytochemistry at the School of Pharmacy, University College London (UCL). Stephen P. Teo is a forest botanist with the Forest Department, Sarawak, Malaysia.

The Encyclopedia of Herbs -

Thomas DeBaggio 2009-09-01
This meticulously researched compendium provides every aspect of growing, identifying, harvesting, preserving, and using more than 500 species of herbs. Thorough profiles provide a plant's botanical name and family, whether it is an annual or perennial, its height, hardiness, light requirements, water consumption, required soil type, and pH. The often fascinating history of the plant, the chemistry of its essential oils, and its culinary, landscape, and craft uses are also included, as is advice on how to propagate. For the first edition of their work, both authors received The Gertrude B. Foster Award for Excellence

in Herbal Literature from the Herb Society of America. This new edition adds important species and includes updated nomenclature.

Medicinal and Aromatic Plants of South America - Ulysses Paulino Albuquerque
2018-10-24

This volume in the series deals with the major Medicinal and Aromatic Plants (MAPs) of South America, providing information on major aspects of this specific group of plants on that continent (botany, traditional usage, chemistry, production/collection practices, trade and utilization). Brazil, in particular, offers an immense amount of biodiversity, including plants with great pharmacological interest and ethno-medicinal importance. Contributions are from internationally recognized professionals, specialists of the Medicinal and Aromatic Plant domain and have been invited mostly from the members of the International Society for Horticultural Science and International Council for Medicinal and Aromatic Plants.

Antibiotic Resistance -

Kateryna Kon 2016-06-14

Antibiotic Resistance:

Mechanisms and New

Antimicrobial Approaches

discusses up-to-date knowledge

in mechanisms of antibiotic

resistance and all recent

advances in fighting microbial

resistance such as the

applications of nanotechnology,

plant products, bacteriophages,

marine products, algae, insect-

derived products, and other

alternative methods that can

be applied to fight bacterial

infections. Understanding

fundamental mechanisms of

antibiotic resistance is a key

step in the discovery of

effective methods to cope with

resistance. This book also

discusses methods used to

fight antibiotic-resistant

infection based on a deep

understanding of the

mechanisms involved in the

development of the resistance.

Discusses methods used to

fight antibiotic-resistant

infection based on a deep

understanding of mechanisms

involved in the development of

the resistance Provides

information on modern

methods used to fight

antibiotic resistance Covers a

wide range of alternative

methods to fight bacterial

resistance, offering the most

complete information available

Discusses both newly emerging

trends and traditionally applied

methods to fight antibiotic

resistant infections in light of

recent scientific developments

Offers the most up-to-date

information in fighting

antibiotic resistance Includes

involvement of contributors all

across the world, presenting

questions of interest to readers

of both developed and

developing countries

Combating Fungal

Infections - Iqbal Ahmad

2010-08-03

Fungi are eukaryotic

microorganisms that are

closely related to humans at

cellular level. Human fungal

pathogens belong to various

classes of fungi, mainly zygo-

cetes, ascomycetes,

basidiomycetes, and

deuteromycetes. In recent

years, fungal infections have

dramatically increased as a

result of improved diagnosis, high frequency of catheterization, instrumentation, etc. However, the main cause remains the increasing number of immunosuppressed patients, mostly because of HIV infection and indiscriminate usage of antineoplastic and immunosuppressive agents, broad-spectrum antibiotics and prosthetic devices, and grafts in clinical settings. Presently available means of combating fungal infections are still weak and clumsy compared to control of bacterial infection. The present scenario of antifungal therapy is still based on two classes of antifungal drugs (polyenes and azoles). These drugs are effective in many cases, but display toxicity and limited spectrum of efficacy. The recent trend towards emergence of drug-resistant isolates in the clinic is an additional problem. In recent years, a few new antifungal drugs have entered the clinics, but they are expected to undergo same fate as the older antifungal drugs.

The application of fungal genomics offers an unparalleled opportunity to develop novel antifungal drugs. However, it is too early to expect any novel drugs, as the antifungal drug discovery program is in the stage of infancy. Interestingly, several novel antifungal drug targets have been identified and validated.

Handbook of Essential Oils -

K. Husnu Can Baser

2009-12-28

Egyptian hieroglyphs, Chinese scrolls, and Ayurvedic literature record physicians administering aromatic oils to their patients. Today society looks to science to document health choices and the oils do not disappoint. The growing body of evidence of their efficacy for more than just scenting a room underscores the need for production standards, quality control parameters for raw materials and finished products, and well-defined Good Manufacturing Practices. Edited by two renowned experts, the Handbook of

Essential Oils covers all aspects of essential oils from chemistry, pharmacology, and biological activity, to production and trade, to uses and regulation. Bringing together significant research and market profiles, this comprehensive handbook provides a much-needed compilation of information related to the development, use, and marketing of essential oils, including their chemistry and biochemistry. A select group of authoritative experts explores the historical, biological, regulatory, and microbial aspects. This reference also covers sources, production, analysis, storage, and transport of oils as well as aromatherapy, pharmacology, toxicology, and metabolism. It includes discussions of biological activity testing, results of antimicrobial and antioxidant tests, and penetration-enhancing activities useful in drug delivery. New information on essential oils may lead to an increased understanding of their multidimensional uses

and better, more ecologically friendly production methods. Reflecting the immense developments in scientific knowledge available on essential oils, this book brings multidisciplinary coverage of essential oils into one all-inclusive resource.

The Encyclopedia of Herbs and Spices - P N Ravindran
2017-12-28

The Encyclopedia of Herbs and Spices provides comprehensive coverage of the taxonomy, botany, chemistry, functional properties, medicinal uses, culinary uses and safety issues relating to over 250 species of herbs and spices. These herbs and spices constitute an important agricultural commodity; many are traded globally and are indispensable for pharmaceuticals, flavouring foods and beverages, and in the perfumery and cosmetic industries. More recently, they are increasingly being identified as having high nutraceutical potential and important value in human healthcare. This encyclopedia is an excellent resource for

researchers, students, growers and manufacturers, in the fields of horticulture, agriculture, botany, crop sciences, food science and pharmacognosy.

Handbook of African Medicinal Plants, Second Edition - Maurice M. Iwu

2014-02-04

With over 50,000 distinct species in sub-Saharan Africa alone, the African continent is endowed with an enormous wealth of plant resources. While more than 25 percent of known species have been used for several centuries in traditional African medicine for the prevention and treatment of diseases, Africa remains a minor player in the global natural products market largely due to lack of practical information. This updated and expanded second edition of the Handbook of African Medicinal Plants provides a comprehensive review of more than 2,000 species of plants employed in indigenous African medicine, with full-color photographs and references from over 1,100 publications.

The first part of the book contains a catalog of the plants used as ingredients for the preparation of traditional remedies, including their medicinal uses and the parts of the plant used. This is followed by a pharmacognostical profile of 170 of the major herbs, with a brief description of the diagnostic features of the leaves, flowers, and fruits and monographs with botanical names, common names, synonyms, African names, habitat and distribution, ethnomedicinal uses, chemical constituents, and reported pharmacological activity. The second part of the book provides an introduction to African traditional medicine, outlining African cosmology and beliefs as they relate to healing and the use of herbs, health foods, and medicinal plants. This book presents scientific documentation of the correlation between the observed folk use and demonstrable biological activity, as well as the characterized constituents of the plants.

Biotechnology and Biological Sciences -

Ramkrishna Sen 2019-11-20

The application of Biotechnology dates back to the early era of civilization, when people first started to cultivate food crops. While the early applications are certainly still relevant, modern biotechnology is primarily associated with molecular biology, cloning and genetic engineering not only to increase the yield and to improve the quality of the crop but also its potential impact has touched upon virtually all domains of human interactions. Within the last 50 years, several key scientific discoveries revolutionized the biological sciences that facilitated the rapid growth of the biotechnology industry. 'Biotechnology and Biological Sciences III' contains the contributions presented at the 3rd International Conference on Biotechnology and Biological Sciences (BIOSPECTRUM 2019, Kolkata, India, 8-10 August 2019). The papers discuss various aspects

of Biotechnology such as: microbial biotechnology, bioinformatics and drug designing, innovations in pharmaceutical industries and food processing industries, bioremediation, nano-biotechnology, and molecular-genetics, and will be of interest to academics and professionals involved or interested in these subject areas.

Popular Medicinal Plants in Portland and Kingston, Jamaica
- Ina Vandebroek 2020-12-05

This book highlights the results from over a year of ethnobotanical research in a rural and an urban community in Jamaica, where we interviewed more than 100 people who use medicinal plants for healthcare. The goal of this research was to better understand patterns of medicinal plant knowledge, and to find out which plants are used in consensus by local people for a variety of illnesses. For this book, we selected 25 popular medicinal plant species mentioned during fieldwork. Through individual interviews, we were able to rank plants

according to their frequency of mention, and categorized the medicinal uses for each species as “major” (mentioned by more than 20% of people in a community) or “minor” (mentioned by more than 5%, but less than 20% of people). Botanical identification of plant specimens collected in the wild allowed for cross-linking of common and scientific plant names. To supplement field research, we undertook a comprehensive search and review of the ethnobotanical and biomedical literature. Our book summarizes all this information in detail under specific sub-headings.

Bioactive Natural Products for Pharmaceutical Applications -

Dilipkumar Pal 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.

Medicinal and Aromatic Plants of South America -

Ulysses Paulino Albuquerque
2019-11-17

This volume in the series deals with the major Medicinal and Aromatic Plants (MAPs) of South America, providing information on major aspects of this specific group of plants on that continent (botany, traditional usage, chemistry, production/collection practices, trade and utilization). Brazil, in particular, offers an immense amount of biodiversity, including plants with great pharmacological interest and ethno-medicinal importance. Contributions are from internationally recognized professionals, specialists of the Medicinal and Aromatic Plant domain and have been invited mostly from the members of the International Society for Horticultural Science and International Council for

Medicinal and Aromatic Plants.
Chemical Composition and Biological Activities of Essential Oil - Edoardo Marco Napoli 2021-07-02

Essential oils extracted by the distillation or hydrodistillation of aromatic plants are a complex mixture of volatile compounds with several biological activities. Their efficacy as antimicrobial agents is related to the activity of several natural compounds belonging to different chemical families that can act both in synergy with each other and with other antibiotics. The antibiotic resistance detected among pathogens has been quickly increasing in recent years, and the control of some of these microorganisms is becoming a planetary emergency for human and animal health. The control of the microbial growth is a problem of great importance also for the food industry (food deterioration and shelf life extension) and for the world of cultural heritage (indoor and outdoor phenomena of biodeterioration). Essential oils

can play an important role in this scenario, due their recognized broad-spectrum antimicrobial activity. Therefore, the main subject of this Special Issue includes an essential oil-based approach to control microorganisms in areas such as human and veterinary medicine, entomology, food industry and agriculture. In addition, the chemical composition of essential oils from endemic and rare medicinal/aromatic plants, nanoformulations of essential oils, applications in human and veterinary medicine and its use as animal feeding supplements are topics covered in this Special Issue

Nanotechnology for Antimicrobials - Gerson Nakazato 2020-09-02

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied

contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.
Natural Food Flavors and Colorants - Mathew Attokaran 2017-01-03

In this book the author utilizes his over fifty years of experience in food chemistry and technology in order to produce the most detailed and comprehensive guide on natural food flavors and colors. Unique coverage of natural flavors and natural colorants in the same volume Includes chemical structures of all principal constituents and CAS, FEMA and E numbers. Wherever available FCC (Food Chemicals Codex) Includes techniques and characteristics of extracts, such as solvent extraction, dispersion and

solubitization, nutraceutical function and effect of heat
Essential Oil-Bearing Grasses - Anand Akhila 2009-08-26
When enjoying a southeast asian soup or cup of herbal tea, we are really savoring the flavor of lemongrass. Similarly, the sweet aroma of mosquito-repelling lotions comes from the citronella oil present in them. Fine perfumes, candles, and herbal pillows with the pleasing smell of rose are often in fact scented with palmarosa. Providing an in-depth look at their history and production, *Essential Oil Bearing Grasses: The genus Cymbopogon* provides a comprehensive review of these economically important grasses. A detailed examination of chemical constituents and market trends, the book explores the cosmetic, medicinal, and nutritional uses of the plant. It covers the botany, taxonomy, chemistry, and biogenesis of the oils, and their extraction and analytical methods, biotechnology, storage, legislation, and trade. Highlighting industrial uses for

the grasses in this genus, the book also includes coverage of the physiological and ecophysiological considerations. It presents a comprehensive overview of most of the cultivated and wild species of cymbopogons. Featuring contributions from a team of international experts, the book describes the considerable ethno-botanical, phytochemical, and pharmacological knowledge associated with the multidimensional uses of the oils. It provides a complete industrial profile that includes market size, geographical sources, export and import data, and industry uses. Its pages offer an invaluable resource for research, cultivation, marketing, or product development of Cymbopogon.

Plant Extracts in Skin Care Products - Beatriz P.P.

Oliveira 2018-09-10

This book is a printed edition of the Special Issue "Plant Extracts in Skin Care Products" that was published in Cosmetics

Handbook of Oleoresins - Gulzar Ahmad Nayik 2022-06-07

An Oleoresin represents the true essence of spices enriched with volatile and non-volatile essential oil and resinous fractions. The oleoresin represents the wholesome flavor of the spice, a cumulative effect of the sensation of smell and taste. Therefore, it is designated as "true essence" of the spice and can replace spice powders in food products without altering the flavor profile. Our earth comprises a plethora of spices that have carved a niche in the global market in medicinal and health-related food products. These spices play a dual role as a food ingredient and a therapeutic agent preventing various diseases. This industry has acquired tremendous attention not only from consumers but also from scientific communities, and various food manufacturing organizations. Handbook of Oleoresins: Extraction, Characterization, and Applications is a snapshot of

information on oleoresins—production, composition, properties, applications (medicinal & health properties), and more. It is designed to be a practical tool for the various professionals who develop and market spices and oleoresins

Key Features: Contains comprehensive information on the major oleoresins of the world Discusses the extraction and characterization of major spice oleoresins Covers the safety and toxicity of oleoresins Sheds light on relationship between oleoresins and health benefits The world is moving towards natural products. Spices lend color, taste, and flavor, and oleoresins are good source of antioxidants and have preservative as well as therapeutic power. Therefore it is important to understand and document the chemistry, characterization, properties and applications of oleoresins, as found in this handbook.

Phytochemicals from Medicinal Plants - Hafiz Ansar Rasul Suleria 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.

Phytochemical Techniques - N. Raaman 2006

Phytochemicals are the individual chemicals from which the plants are made and plants are the key sources of raw material for both pharmaceutical and aromatic industries. The improved methods for higher yield of active compounds will be the major incentive in these industries. To help those who are involved in the isolation of compounds from plants, some of the essential phytochemical techniques are included in this book. The theoretical principles of various instruments, handling of samples and interpretation of spectra are given in detail. Adequate chemical formulas are included to support and explain various structures of compounds and techniques. The book will prove useful to students, researchers, professionals in the field of Plant Physiology and Pathology, Pharmaceutical

and Chemical Engineering, Biotechnology, Medicinal and Aromatic Plants and Horticulture.

Botanical Leads for Drug Discovery - Bikarma Singh 2020-10-05

Active botanical ingredients are a prime requirement for herbal formulations and discovering a drug is all about integration of science disciplines. In recent decades there has been a growing interest in treating wounds and diseases using traditional remedies based on local herbs, combined with chemical advances. Although this has led to the development of new bioactive ingredients from plants, there has been little success in terms of clinical trials and post-marketing studies to comply with FDA guidelines. Plants have been used as a source of medicine throughout history and continue to serve as the basis for many pharmaceuticals used today. However, despite the modern pharmaceutical industry being founded on botanical medicine, synthetic

approaches to drug discovery have now become standard. Science-driven translational discovery and botanical development has created a new reality, leading to enormous changes in strategies, technologies and the disciplines involved, which have been embraced by the pharmaceutical and biotech industries. This book gathers scientific expertise and traditional knowledge to promote the discovery and development of new formulations and drugs based on active ingredients and to provide guidance on taking these to clinical trials. It discusses major topics, such as how the phytochemical composition of many plants has changed over time due to factors like cultivation, which can have both positive and negative effects on the levels of bioactive compounds. It also explores the importance of plants as a valuable source of therapeutic compounds as a result of their vast biosynthetic capacity, and classifies them according to their intended

use, safety and regulatory status. Further, the book offers insights into the regulatory aspects of botanical products, which is an important issue when considering standardization and quality assessment, and also examines the commercial aspects of plant-derived medications and their proven role in the treatment of chronic diseases such as heart disease, high blood pressure, pain, asthma, and other associated conditions. Given its scope, this book is a valuable tool for botanists, natural product chemists, pharmacologists and microbiologists involved in the study of phytochemicals for drug discovery.

Leafy Medicinal Herbs - Dawn C P Ambrose 2016-07-25

Medicinal herbs are rich in vitamins, minerals and antioxidants, and are able to synthesize secondary metabolites with disease preventive properties. It is due to these qualities that herbs have been used throughout history for flavouring and in food, medicine and perfumery

preparations. They are also often considered to be safe alternatives to modern medicines because of their healing properties. Though interest in medicinal and aromatic crops is growing worldwide, there is still little focus on the area of leafy medicinal herbs. This book compiles the literature for 23 globally relevant leafy medicinal herbs. Beginning with a general overview and discussion of the importance of these plants, it then handles each herb by chapter. Chapters discuss the botany of the crop, including its history and origin, geographical distribution and morphology, before focusing on the chemical composition and phytochemical attributes. They then review postharvest technology aspects such as processing and value addition, before concluding with the general and pharmacological uses for each crop. A complete compilation of the subject, this book forms a vital resource for researchers, students, farmers and industrialists in the area of leafy medicinal herbs.

Biodiversity of the Gulf of Guinea Oceanic Islands - Luis M. P. Ceriáco 2022-10-17

This open access book presents a comprehensive synthesis of the biodiversity of the oceanic islands of the Gulf of Guinea, a biodiversity hotspot off the west coast of Central Africa. Written by experts, the book compiles data from a plethora of sources - archives, museums, bibliography, official reports and previously unpublished data - to provide readers with the most updated information about the biological richness of these islands and the conservation issues they face. The Gulf of Guinea Oceanic Islands (Príncipe, São Tomé and Annobón and surrounding islets) present extraordinary levels of endemism across different animal, fungi and plant groups. This very high endemism likely results from the long geological history of the islands and their proximity to the diversity-rich continent. Many researchers, students and conservationists from across the globe are interested

in documenting biodiversity on the islands, understanding the evolutionary origins of this diversity, and mitigating the impacts of global change on this unique archipelago. This book aims to be a primer for a broad audience seeking baseline biodiversity information and to serve as a roadmap for future research efforts aiming to fill knowledge gaps in understanding and conserving the unparalleled biodiversity of the Gulf of Guinea islands.

The Benefits of Plant Extracts for Human Health - Charalampos Proestos
2021-01-13

Nature has always been, and still is, a source of food and ingredients that are beneficial to human health. Nowadays, plant extracts are increasingly becoming important additives in the food industry due to their antimicrobial and antioxidant activities that delay the development of off-flavors and improve the shelf life and color stability of food products. Due to their natural origin, they are excellent candidates

to replace synthetic compounds, which are generally considered to have toxicological and carcinogenic effects. The efficient extraction of these compounds from their natural sources and the determination of their activity in commercialized products have been great challenges for researchers and food chain contributors to develop products with positive effects on human health. The objective of this Special Issue is to highlight the existing evidence regarding the various potential benefits of the consumption of plant extracts and plant-extract-based products, with emphasis on in vivo works and epidemiological studies, the application of plant extracts to improving shelf life, the nutritional and health-related properties of foods, and the extraction techniques that can be used to obtain bioactive compounds from plant extracts. Essential Oils - AntonC. deGroot 2021-04-12
Essential Oils: Contact Allergy and Chemical Composition provides a full review of

contact allergy to essential oils along with detailed analyses of the chemical composition of essential oils known to cause contact allergy. In addition to literature data, this book presents the results of nearly 6,400 previously unpublished sample analyses, by far the largest set of essential oils analyses ever reported in a single source of scientific literature. Covering 91 essential oils and two absolutes, the book presents an alphabetical list of all 4,350 ingredients that have been identified in them, a list of chemicals known to cause contact allergy and allergic contact dermatitis, and tabular indications of the ingredients that can be found in each essential oil. The book discusses contact allergy and allergic contact dermatitis for each of the oils and absolutes, sometimes able to provide only one or two reports but drawing upon considerable amounts of literature in other cases, such as with tea tree oil, ylang-ylang oil, lavender oil, rose oil, turpentine oil, jasmine

absolute, and sandalwood oil. While limited information on the main components and their concentrations would be enough for most dermatologists, this book gives extensive coverage not only to improve levels of medical knowledge and quality of patient care, but also for the benefit of professionals beyond clinical study and practice, such as chemists in the perfume and cosmetics industries, perfumers, academic scientists working with essential oils and fragrances, aromatherapists, legislators, and those involved in the production, sale, and acquisition of essential oils.

Sustainable Management of Potato Pests and Diseases - Swarup Kumar Chakrabarti 2022

This book covers the important diseases and pests of potato which are of global significance. The pests and diseases in potato lead to huge economic losses by reducing the yield and quality of the produce. This book describes major pests and diseases in

detail with particular emphasis on the latest developments with respect to their biology, ecology, and management. It highlights the importance of virus infection for seed potato production and diagnostic symptoms, along with management guidelines. The book brings forth tips for judicious use of pesticides for sustainable potato production and management of pesticide resistance. Use of novel approaches such as RNA interference, genome editing, and other genomic resources for drug designing in diseases and pest management is also emphasized in the book. This book is of interest to teachers, researchers, extension workers, potato growers, and policy makers. Also, the book serves as additional reading material for undergraduate and graduate students of agriculture and plant pathology. National and international agricultural scientists and policy makers will also find this to be a useful read. .

Ethnopharmacological

Responses to the Coronavirus Disease 2019 (COVID-19) Pandemic - Michael Heinrich
2022-01-20

Emerging Trends in Oral Health Sciences and Dentistry - Mandeep Viridi 2015-03-11
Emerging Trends in Oral Health Sciences and Dentistry is the second book on Oral Health Science. The first book is Oral Health Care-Pediatric, Research, Epidemiology and clinical Practices and Oral Health Care-Prosthodontics, Periodontology, Biology, Research and systemic Conditions published in February 2012. The present book is a reflection of the progress in Oral Health Sciences, practices and dentistry indicating the direction in which this stream of knowledge and education is likely to head forward. The book covers areas of General Dentistry, Paediatric and Preventive Dentistry, Geriatric and Prosthodontics, Orthodontics, Periodontology, Conservative Dentistry and Radiology and Oral Medicine.

Terpenes and Terpenoids -

Shagufta Perveen 2018-12-19

Terpenes belong to the diverse class of chemical constituents isolated from materials found in nature (plants, fungi, insects, marine organisms, plant pathogens, animals and endophytes). These metabolites have simple to complex structures derived from Isopentyl diphosphate (IPP), dimethyl allyl diphosphate (DMAPP), mevalonate and deoxyxylulose biosynthetic pathways. Terpenes play a very important role in human health and have significant biological activities (anticancer, antimicrobial, anti-inflammatory, antioxidant, antiallergic, skin permeation enhancer, anti-diabetic, immunomodulatory, anti-insecticidal). This book gives an overview and highlights recent research in the phytochemical and biological understanding of terpenes and terpenoid and explains the most essential functions of these kinds of secondary metabolites isolated from natural sources.

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

Aromatherapy for Health Professionals - Len Price
2007-01-01

Providing an introduction to aromatherapy as practised in modern health care settings, and information for the health professional who wants to learn about the subject, this book provides the in-depth knowledge needed to begin using essential oils in the practice environment.