

Protective Effects Of Aqueous Extract Of Centella Asiatica

Protective Effects of Aqueous Extract of Terminalia Arjuna Bark Against Doxorubicin-induced Cardiotoxicity
Phenolic Compounds in Aqueous Extracts of Marama Bean [Tylosema Esculentum (Burchell) A. Schreiber] Seed Coat, Sorghum (Sorghum Bicolor L. Moench) Bran and Their Bioactive Properties
In Vitro Effects of Medicinal Plant Extracts and Phytochemicals on Factors Implicated in Alzheimer's Disease
Radioprotective Effect of Salix Subserata Against Gamma Irradiation
LAP Lambert Academic Publishing

Phytotherapy has the potential to give patients long term benefits with less or no side effects. This is the second volume of the series. This volume brings 11 chapters that cover updates on general phytotherapy, traditional Chinese medicine as well as information on anti-diabetic and antihypertensive herbs (including Senna spp., Curcumin, Carum carvi, Premna serratifolia, Eugenia jambolana and more). The monographs presented within this volume give several details necessary for pharmacopoeial data for quality assurance of pharmaceutical products derived from these specific plant sources: botanical features, distribution, identity tests, purity requirements, chemical assays, active or major chemical constituents, clinical

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applications, pharmacology, contraindications, warnings, precautions, potential adverse reactions, and posology. Hence academic and professional pharmacologists or clinicians will find comprehensive information on a variety of therapeutic agents along with guidelines for applying them in practical phytotherapy of diabetes and hypertension.

Apart from diet and exercise, the strategic use of different classes of prescribed or non-prescribed xenobiotic compounds for the restoration of euglycemic levels in the body is well known. The ongoing rivalry between the recommended usage of allopathic medicines versus ayurvedic remedies has encouraged many researchers to focus their studies on thoroughly isolating and characterizing the extracts from different parts of plants and then evaluating their relative activities via in vitro, in vivo and in some cases clinical studies. *Alternative Medicines for Diabetes Management: Advances in Pharmacognosy and Medicinal Chemistry* provides a holistic view of all oral therapies for diabetes mellitus that are available to the public by removing the silos and stigmas that are associated with both allopathic and ayurvedic medicines. **Additional Features Include:** Highlights the potential role of dietary and medicinal plant materials in the prevention, treatment, and control of diabetes and its complications. Educates readers on the benefits and shortcomings of the various present and potential oral therapies for diabetes mellitus. Allows quick identification and retrieval of material by researchers learning the efficacy, associated dosage and toxicity of each of the classes

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of compounds. Presents the history, nomenclature, mechanisms of action and shortcomings for each of the various sub-classes of allopathic therapeutants for diabetes mellitus and then introduces ayurvedic medicines. Section C discusses various metallopharmaceuticals and provides a holistic view of all available and potential therapies for the disease.

The present book is a collection of ten original research articles and reports, associated with selected topics in agricultural chemistry. The discussed issues are organized in four sections: Classification and labeling of active substances in plant protection products, Environmental and stress plant physiology and behavior, Antimicrobial and antioxidant potential of plant extracts, and Pollutants analysis and effects. The information provided in this book should be of interest for academic researchers and for agriculturalists.

Protective Agents: Advances in Research and Application: 2011 Edition

Edible Medicinal and Non Medicinal Plants

Medicinal Orchids of Asia

Medicinal Foods as Potential Therapies for Type-2 Diabetes and Associated Diseases

Natural Products and Drug Discovery

The kidneys are a vital organ present in humans and vertebrate animals. Various toxic chemicals, present in food and water adversely affect the kidneys. Plants and plant-derived compounds have been a major source for the treatment and cure of diseases since ancient times.

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Even today, almost 25% of the prescription drugs for renal problems are sourced from plants. An Introduction to Nephroprotective Plants gives an overview of nephrotoxicity and medicinal plants used for protecting the kidney and reducing the effect of kidney toxicity and managing renal diseases. This book is an answer to the current gaps in knowledge resources on nephroprotective plants. The reader is introduced to the basic physiology of the renal excretory system and its disorders. The introduction is followed by chapters which give information on medicinal plants used in traditional systems of medicine (both codified and noncodified). Information about plant parts used, method of use and dosage is provided along with references. Key Features- Simple structured presentation in six chapters- Includes an introduction to the urinary system and its diseases- Includes information about codified and noncodified medicinal plants used for neuroprotection- Covers phytochemicals extracted from medicinal plants which are screened and used in modern medicine for nephroprotection in detail.- Covers ethnobotanical and polyherbal formulations- References for further reading An Introduction to Nephroprotective Plants serves as a convenient desk reference for all researchers (pharmacologists, medicinal chemists, ethnobotanists) and healthcare professionals (physicians, pharmacists, nurses and medical students) who require complete information on nephroprotective plants. Audience: Researchers (pharmacologists, medicinal chemists, ethnobotanists) and healthcare professionals (physicians, pharmacists, nurses and medical students) who require complete information on nephroprotective plants, readers in traditional medicine.

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Saffron: The Age-Old Panacea in a New Light is the first book to detail the functions and effect of saffron in medicinal situations. This book explores the medicinal aspects of saffron and the effect saffron imparts on various diseases of the central nervous system, cardiovascular system, digestive system, locomotor system, urogenital system, eye, skin, and immune system, along with their mechanism of action. This perpetual bulb found mainly in Asia and Europe, Iran, India and Mediterranean countries has been shown to reduce seizures, delay convulsions, and as a neuroprotective agent against cerebral ischemia, brain damage, and Alzheimer's and Parkinson's disease. In addition, it also reduces depression, hypnosis and anxiety and enhances learning and memory skills. Outlines the history of the medicinal use of saffron Provides details on the mechanism of action of saffron Explores the effect of saffron on specific aspects of the body

Medicinal Foods as Potential Therapies for Type-2 Diabetes and Associated Diseases: The Chemical and Pharmacological Basis of their Action focuses on active pharmacological principles that modulate diabetes, associated risk factors, complications and the mechanism of action of widely used anti-diabetic herbal plants—rather than just the nutritional composition of certain foods. The book provides up-to-date information on acclaimed antidiabetic super fruits, spices and other food ingredients. Sections cover diabetes and obesity at the global level, the physiological control of carbohydrate and lipid metabolism, the pathophysiology of type-2 diabetes, the chemistry and pharmacology of a variety of spices, and much more. This book will be invaluable for research scientists and students in the medical and pharmaceutical sciences,

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medicinal chemistry, herbal medicine, drug discovery/development, nutrition science, and for herbal practitioners and those from the nutraceutical and pharm industries. Provides background knowledge on type-2 diabetes and its pathophysiology and therapeutic targets down to the molecular level Explores, in detail, the chemistry or secondary metabolites of the indicated foods that potentially modify diabetes and/or associated diseases Examines the pharmacological findings on medicinal foods, including available clinical trials Phenolic compounds in African green leafy vegetables (GLVs) may have a significant impact on human health. However, there is little information on the phenolic composition, antioxidant properties, as well as biological and cellular protective effects of these vegetables. The effects of boiling and extraction solvent on these compounds and on their antioxidant properties are also unknown. Phenolic content, antioxidant activity and cellular protective effects of four African GLVs in comparison with spinach, an exotic GLV, was determined. African GLVs had appreciable levels of total phenolics and antioxidant activity and in higher quantities compared to spinach. Boiling decreased the antioxidant content and activity of these vegetables and 75% acetone was more effective in extracting antioxidants from the GLVs compared to water. GLVs with high levels of phenolics also contained higher levels of antioxidant activity, suggesting that phenolics are likely to have contributed to radical scavenging activity of these vegetable extracts, even though the degree of scavenging varied in each extract of the vegetable species. The flavonoid compositions of raw and boiled African GLVs and spinach were determined using high-performance liquid chromatography. Epicatechin and rutin were the most dominant

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flavonoids found in both water and 75% acetone extracts. Among water extracts, pumpkin contained higher concentrations of detected flavonoids, while among the acetone extracts, cowpea exhibited higher concentrations. The effect of boiling was dependent on the type of vegetable and the specific flavonoids. There were no major differences observed between the type of flavonoids detected in extracts of African GLVs and those in spinach. However, similar to the results of total phenolics and antioxidant activity, the 75% acetone extracts of African GLVs also exhibited higher amounts of flavonoids than spinach. The protective effects of GLVs against oxidative haemolysis were dependent on the type of vegetable species. Boiling had variable effects depending on the species. The highest level of protection of erythrocytes against oxidative damage was offered by amaranth extracts, while extracts of raw jute mallow contributed to the damage of erythrocytes. The highest antioxidant protection activity against oxidative damage in plasmid DNA was offered by extracts of jute mallow and lowest by spinach.

Science, Technology and Health

SOUVENIR of 3rd International Science Congress ISC-2013

An Introduction to Nephroprotective Plants

Antioxidant Properties and Cellular Protective Effects of Selected African Green Leafy Vegetables

Protective Effect of Orthosiphon Stamineus Extract (water

Nutritional Composition and Antioxidant Properties of Fruits and Vegetables provides an overview of the nutritional and anti-nutritional composition,

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antioxidant potential, and health benefits of a wide range of commonly consumed fruits and vegetables. The book presents a comprehensive overview on a variety of topics, including inflorescence, flowers and flower buds (broccoli, cauliflower, cabbage), bulb, stem and stalk (onion, celery, asparagus, celery), leaves (watercress, lettuce, spinach), fruit and seed (peppers, squash, tomato, eggplant, green beans), roots and tubers (red beet, carrots, radish), and fruits, such as citrus (orange, lemon, grapefruit), berries (blackberry, strawberry, lingonberry, bayberry, blueberry), melons (pumpkin, watermelon), and more. Each chapter, contributed by an international expert in the field, also discusses the factors influencing antioxidant content, such as genotype, environmental variation and agronomic conditions. Contains detailed information on nutritional and anti-nutritional composition for commonly consumed fruits and vegetables Presents recent epidemiological information on the health benefits of fresh produce Provides in-depth information about the antioxidant properties of a range of fruits and vegetables

Environmental Damage to DNA and the Protective Effects of Phytochemicals provides information on the toxicity of natural as well as synthetic chemicals in the living systems. These can lead to DNA damage and the emergence of

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serious consequences or manifestations causing varied health hazards. In addition, the ten chapters of the book reflect on the possible applications of plants or plant extracts to impart protection for living cells from the xenobiotics-mediated DNA damage. The book offers comprehensive coverage of the many essential topics in the subject including: Environmental factors and DNA damage Molecular mechanisms associated with DNA damage by various environmental (Physical, Chemical and Biological) factors Synergistic effects of environmental factors Phytochemicals acting both as DNA protectants and genotoxicants Experimental models for the study of the genotoxic potential of environmental factors and protection by phytochemicals This book connects readers who possess a life sciences background to the current understanding, concept and mechanisms involved in environmental-factors-mediated DNA damage. Scientific terms are introduced, defined, described and placed appropriately in the text. The protective effect of some plant extracts/phytochemicals has also been included. Environmental Damage to DNA and the Protective Effects of Phytochemicals is intended to cater the need of BSc, MSc and research students who are striving to discover the mechanism(s) associated with protection of DNA by plant-based chemicals. This is the first edition of our

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book and the valuable suggestions and comments from the readers are solicited.

This book gives many examples of medicinal plants. It also describes the medicinal effects of these plants, and describes the mechanisms of action of many medicinal plant extracts. This book will be informative to many people in the world who currently want to include more plant-based foods and "herbs" in their diets. It will also educate those people who want to take plant materials as infusions/effusions or as smoothies to obtain micronutrients. The book included study of the disturbances caused as a result of the gamma irradiation. The new researches directed to search in the nature for new natural products rich in antioxidants polyphenolic compounds. The willow leaves were selected to be under study. The book included studying protective effect of the aqueous extract of Willow leaves with all the active ingredients against the biochemical and the molecular disturbances occurred due to the exposure to gamma rays. The study followed the genetic abnormalities transmitted from the irradiated parents to the next generations and studying the antagonistic effect of willow extract against inheritance of these genetic disturbances in rats.

Phytotherapy in the Management of Diabetes and Hypertension

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Nuclear Science Abstracts

Mononuclear Leukocytes—Advances in Research and Application: 2012 Edition

Alternative Medicines for Diabetes Management

Protective Effects of Medicinal Plant Extracts and Natural Compounds in Skin Disorders

Volume 8 is part of a multicompendium Edible Medicinal and Non-Medicinal Plants, on plants with edible flowers from Geraniaceae to Zingiberaceae (tabular) and 82 species in Geraniaceae, Iridaceae, Lamiaceae, Liliaceae, Limnocharitaceae, Magnoliaceae, Malvaceae, Meliaceae, Myrtaceae, Nyctaginaceae, Nymphaeaceae, Oleaceae, Onagraceae, Orchidaceae, Paeoniaceae, Papaveraceae, Plantaginaceae, Poaceae, Polygonaceae, Primulaceae, Proteaceae, Ranunculaceae, Rosaceae, Rubiaceae, Rutaceae, Solanaceae, Theaceae, Tropaeolaceae, Typhaceae, Violaceae, Xanthorrhoeaceae and Zingiberaceae in detail. This work is of significant interest to medical practitioners, pharmacologists, ethnobotanists, horticulturists, food nutritionists, botanists, agriculturists, conservationists and general public. Topics covered include: taxonomy; common/ vernacular names; origin/ distribution; agroecology; edible plant parts/uses; botany; nutritive/medicinal properties, nonedible uses and selected references.

This unique book brings together a wealth of data on the botanical, ethno-medicinal and pharmacological aspects of over 500 species of Asian medicinal orchids. It starts off by explaining the role and limitations of complimentary and herbal medicines, and how traditional

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Asian medicine differs from Western, "scientific" medicine. The different Asian medical traditions are described, as well as their modes of preparing herbal remedies. The core of the book presents individual medicinal orchid species arranged by genera. Each species is identified by its official botanical name, synonyms, and local names. Its distribution, habitat and flowering season, uses and pharmacology are described. An overview sums up the research findings on all species within each genus. Clinical observations are discussed whenever available, and possible therapeutic applications are highlighted. The book closes with chapters on the conservation of medicinal orchids and on the role of randomized clinical trials.

Issues in Radiation Biology and Toxicology Research: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Radiation Biology and Toxicology Research. The editors have built Issues in Radiation Biology and Toxicology Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Radiation Biology and Toxicology Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Radiation Biology and Toxicology Research: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

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Draft

In Vitro Effects of Medicinal Plant Extracts and Phytochemicals on Factors Implicated in Alzheimer's Disease

Environmental Damage to DNA and the Protective Effects of Phytochemicals

Pharmacological Properties of Plant-Derived Natural Products and Implications for Human Health

International Science Congress Association organized 3rd International Science Congress (ISC-2013), with "Innovation with Global Responsibility" as its Focal Theme. ISC-2013 is divided in 20 sections. A total number of 900 Research Papers and 1000 registrations from 36 countries all over the world have been received. They are mainly from India, Iran, Sudan, Iraq, South Africa, Phillipines, Pakistan,

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Nighana, Erode, Czech Republic, Bangladesh, Swaziland, Jordan, USA, Thailand, Japan, Malaysia, Kazakhstan, UK, Colombia, Nepal, Italy, Bulgariya, Cameroun, France, Greece, Kazakhstan, Korea, Lithuania, Nigeria, Poland, Romania, Slovakiya, Ukraine, Venezuela and Turkey.

This important volume provides a comprehensive overview of hepatotoxicity and medicinal plants used for protecting the liver and for curing liver toxicity and liver diseases. To date, there has been no extensive resource on the plants that are used in this capacity, both in traditional medicine and in modern medicine. This book fills that gap. It presents information on the medicinal plants used in traditional medicine (both codified and noncodified) and in ethnomedicine, including the plant parts used and methods of use and dosages. The phytochemicals extracted from medicinal plants, screened and used in modern medicine for liver protection and curing liver problems, are given in detail, and the methods of screening are given as well. Methods of assay for screening the medicinal plants are also presented. Key features:

- Provides complete information on plants that show hepatoprotective properties***
- Lists and discusses the phytochemicals useful for liver protection and cures***
- Considers traditional uses and ethnomedicinal plants for liver protection***
- Details the plant parts and the extracts that have protection properties and the active principles showing hepatoprotection***

Toxicological Survey of African Medicinal Plants provides a detailed overview of toxicological studies relating to traditionally used medicinal plants in Africa, with

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special emphasis on the methodologies and tools used for data collection and interpretation. The book considers the physical parameters of these plants and their effect upon various areas of the body and human health, including chapters dedicated to genotoxicity, hepatotoxicity, nephrotoxicity, cardiotoxicity, neurotoxicity, and specific organs and systems. Following this discussion of the effects of medicinal plants is a critical review of the guidelines and methods in use for toxicological research as well as the state of toxicology studies in Africa. With up-to-date research provided by a team of experts, Toxicological Survey of African Medicinal Plants is an invaluable resource for researchers and students involved in pharmacology, toxicology, phytochemistry, medicine, pharmacognosy, and pharmaceutical biology. Offers a critical review of the methods used in toxicological survey of medicinal plants Provides up-to-date toxicological data on African medicinal plants and families Serves as a resource tool for students and scientists in the various areas of toxicology

This book argues that, to be healthy, human beings should love nature and stay in balance with it as much as possible. In other words: do not unbalance nature so that your own balance is not disturbed. The best and healthiest way for human beings to live is to find balance in life and nature. In this regard, the book discusses useful, nutritious, functional foods, nutraceuticals and antioxidants, and how natural molecules, which are provided by nature, can be the best medicine for human beings. At a molecular level, stress is defined by the presence of unbalanced free radicals in the body. Most diseases - especially type

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2 diabetes, which accounts for the majority of diabetics - can be traced back to this problem. Our scientific evidence indicates that type 2 diabetes isn't just a disease resulting from sugar, but also from stress. The book seeks to promote a healthier lifestyle by considering the psychoemotional dimension of wellness. And finally, it contends that good sleep is at the root of health and happiness for humanity, and that unbalanced free radicals are expelled from the body during restful sleep. The authors hope that this book will be a helpful guide and source of peace for readers, especially given their need for inner calm during the COVID-19 pandemic, and that the suggestions provided will show them the way to a better life.

**Emerging Bioresources with Nutraceutical and Pharmaceutical Prospects
Protective Effects of Aqueous Extract of Terminalia Arjuna Bark Against
Doxorubicin-induced Cardiotoxicity
Saffron**

**Development of Food Chemistry, Natural Products, and Nutrition Research
Medicinal Plants**

Mononuclear Leukocytes—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Mononuclear Leukocytes. The editors have built Mononuclear Leukocytes—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Mononuclear Leukocytes in this

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This important volume provides a comprehensive overview of hepatotoxicity and medicinal plants used for protecting the liver and curing liver toxicity and liver diseases. To date, there has been no extensive resource on the plants that are used in this capacity, both in traditional medicine and in modern medicine. This book, Handbook of Research on Herbal Liver Protection: Hepatoprotective Plants, fills that gap. It presents information on the medicinal plants used in traditional medicine (both codified and noncodified) and in ethnomedicine, including the plant parts used and methods of use and dosages. The phytochemicals extracted from medicinal plants, screened and used in modern medicine for liver protection and curing liver problems, are given in detail. The volume discusses the medicinal plants screened for hepatoprotection, and the methods of screening are given as well. Methods of assay for screening the medicinal plants are also presented.

Saffron: Science, Technology and Health summarizes the scientific, technical and health

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aspects of this crop. Saffron possesses unique agronomical, ecological, social and physiological characteristics. And, there are various chemical components present in saffron, including carbohydrates, minerals, vitamins, color pigment, aromatic and flavoring agents. Saffron has a long history of use in traditional medicine, and in recent years, the application of saffron in the medical industry as a cancer curing and antidepressant agent has brought more attention. There is also a growing trend of saffron use in the conventional food industry, including saffron desserts, cream, butter, beverages, powders, cake mixes and soups. Intended for nutrition scientists and scientists and technologists working in the areas of food, agriculture, new product development and pharmacology. Summarizes the scientific, technical and health aspects of saffron Explores the use of saffron in the conventional food industry in the development of new products Uncovers the unique agronomical, ecological, social and physiological characteristics of saffron

This book on medicinal foods is an essential reading material in this era when more people are including plant materials, which they call "veggies," in their diets to obtain micronutrients. Knowledge of medicinal foods will enable a person to eat food to promote good health and prevent disease. Knowledge of medicinal foods will also help a person to use food for the adjunct dietary management of some health disorders.

Current Trends in Pharmacology

Peptic Ulcer Disease

Metal Toxicology Handbook

Handbook of Research on Herbal Liver Protection

Hepatoprotective Plants

Natural products hold a prominent position in the current discovery and development of drugs and have diverse indications for both human and animal health. Plants, in particular, play a leading role as a source of specialized metabolites with medical effects. Other organisms, such as marine and terrestrial animals and microorganisms, produce very important drug candidate molecules. Specialized metabolites from these varied natural sources can be used directly as bioactive compounds or drug precursors. In addition, due to their broad chemical diversity, they can act as drug prototypes and/or be used as pharmacological tools for different targets. Some examples of natural metabolites that have been developed into useful medical drug are cardiotoxic digoxin from *Digitalis* sp., antimalarial artemisinin from *Artemisia annua*, anti-cancer taxol from *Taxus* sp., or podophyllotoxin from *Podophyllum peltatum*, which served as a synthetic model for the anti-cancer etoposide. The study of natural products is still attracting great scientific attention and their current importance, as a valuable lead for drug discovery, is undebatable. I cordially invite authors to contribute original articles, as well as survey articles, that give the readers of *Molecules* ****MOLECULES NEEDS TO BE ITALICIZED**** updated and new perspectives on natural products in drug discovery, including but not limited to natural sources, identification and separation of bioactive phytochemicals, standardization, new biological targets, pre-clinical and clinical trials, pharmacological effects/side effects, and bioassays.

Pharmacology is a rapidly progressing area of biomedical research, with new developments

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surfacing at regular intervals, constantly revolutionizing drug therapy for disease states. The interaction of this discipline with other biomedical sciences has opened up new vistas and opportunities in drug design and development. Basic and clinical concepts in the mechanism and use of drugs are carefully integrated into hypotheses, which are aimed at the maintenance of a critical balance between health and disease. Current Trends in Pharmacology is a comprehensive collection of topics highly significant in the current health scenario. The book comprises a combination of articles in clinical and experimental pharmacology and toxicology from the viewpoint of both basic and clinical scientists. It also details recent developments in the basic aspects of drug action in some very relevant disease states like hypertension, atherosclerosis, arrhythmia, stroke, tuberculosis, hospital acquired pneumonia, and cancer. It also highlights the applied issues relating to rational use of drugs. The contributing authors are leading experts in their respective fields and have presented the topics in a lucid and comprehensive manner

Peptic ulcer disease is one of the most common chronic infections in human population. Despite centuries of study, it still troubles a lot of people, especially in the third world countries, and it can lead to other more serious complications such as cancers or even to death sometimes. This book is a snapshot of the current view of peptic ulcer disease. It includes 5 sections and 25 chapters contributed by researchers from 15 countries spread out in Africa, Asia, Europe, North America and South America. It covers the causes of the disease, epidemiology, pathophysiology, molecular-cellular mechanisms, clinical care, and alternative medicine. Each chapter provides a unique view. The book is not only for professionals, but also suitable for regular readers at all levels.

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Diabetes-induced oxidative stress is likely to be a major factor in the pathogenesis of changes associated with diabetes and its complications. Leaves of *Murraya koenigii* (MK) (Rutaceae) are used traditionally in Indian Ayurvedic system to treat diabetes. In the present study, in addition to 30 days antihyperglycaemic effect of MK aqueous leaf extract, we investigated its nephro-protective effect in diabetic rats, and measured the changes in the levels of plasma antioxidant concentration and glutathione peroxidase. Male Sprague Dawley rats were administered with a single dose of streptozotocin (STZ, 70 mg/kg) intraperitoneally to induce experimental diabetes. Rats were randomized into six groups (n=6) of normal control, diabetic control (non-treated), and diabetics treated with MK aqueous leaf extract, as well as insulin (0.5 iu/kg/day) as a reference standard. The fresh leaves of MK was exhaustively extracted with distilled water and freeze-dried to get powder. Blood glucose levels and body weight were monitored gravimetrically, while changes in serum urea and creatinine, plasma antioxidant capacity and glutathione peroxidase, were measured on 30th day using standard commercially available diagnostic kits (Sigma-Aldrich, MO, USA). Diabetic rats treated with aqueous extract showed significant (p

Advances in Pharmacognosy and Medicinal Chemistry
The Chemical and Pharmacological Basis of their Action
Medicinal Foods

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Issues in Radiation Biology and Toxicology Research: 2011 Edition

The Neuroscience of Depression: Genetics, Cell Biology, Neurology,

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Behaviour and Diet is a comprehensive reference to the aspects, features and effects of depression. This book provides readers with the behavior and psychopathological effects of depression, linking anxiety, anger and PTSD to depression. Readers are provided with a detailed outline of the genetic aspects of depression including synaptic genes and the genome-wide association studies (GWAS) of depression, followed by a thorough analysis of the neurological and imaging techniques used to study depression. This book also includes three full sections on the various effects of depression, including diet, nutrition and molecular and cellular effects. The Neuroscience of Depression: Genetics, Cell Biology, Neurology, Behaviour and Diet is the only resource for researchers and practitioners studying depression. The Neuroscience of Depression: Features, Diagnosis and Treatment Covers a pharmacological and behavioral treatment options Features sections on diagnosis and biomarkers of depression Discusses depression in children, teens and adults Contains information on comorbidity of physical and mental conditions Includes more than 250 illustrations and tables The Neuroscience of Depression: Genetics, Cell Biology, Neurology, Behaviour and Diet Features a section on

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neurological and imaging, including SPECT Neuroimaging Analyzes how diet and nutrition effect depression Examines the molecular and cellular effects of depression Covers genetics of depression Includes more than 250 illustrations and tables

This book introduces some emerging functional foods that are natural resources with tremendous promise as nutraceuticals and pharmaceuticals. The author considers biodiversity and bioprospecting as a response to food security issues, drug-resistance, nutrition-poor diets and other problems, exploring the prospects of several under-utilized nutrients and bioactive repositories. Readers will discover biochemical makeups, validated health benefits, explanations of underlying mechanisms, hurdles in the path of popularity and promotion strategies. Chapters explore particular plants, seeds and fruits including the strawberry guava, opuntia fruits, the Carissa genus, grape seeds, quinoa and the milk thistle (Silybum), amongst others. They are considered as food sources where possible and from the perspective of the roles they can play in complementary and alternative medicine, such as in wound healing, antimicrobial activity, gastroprotective activity in treatment of cancers and as natural

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antioxidant sources. This rich compilation holds plausible solutions to a range of current issues and it endorses the much-needed goal of sustainability in terms of diet and drugs. It paves the path for further research and development on hitherto obscure natural resources. Scientists working in the area of food development, phytochemical and antioxidant analysis, bioprospecting of low-profile foods and in complementary and alternative medicine will find this work particularly valuable. It will also be of interest to the general reader with an interest in food science, food security, phytochemicals and functional food studies.

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This Special Issue is dedicated to gathering the latest advances in the food sources, chemistry, analysis, composition, formulation, use, experience in clinical use, mechanisms of action, available data of nutraceuticals, and natural sources that represent a new frontier for therapy and provide valuable tools to reduce the costs for both environment and healthcare systems.

Rationality and Scientific Lifestyle for Health

Phenolic Compounds in Aqueous Extracts of Marama Bean [Tylosema Esculentum (Burchell) A. Schreiber] Seed Coat, Sorghum (Sorghum

Bicolor L. Moench) Bran and Their Bioactive Properties

Issues in Medical Chemistry: 2011 Edition

Volume 8, Flowers

Toxicological Profile for Cadmium

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Heavy metals and metalloids, singly or in combination, induce toxic manifestations either through acute or chronic pathology. In particular, long-term chronic exposure to diverse heavy metals and metalloids to humans and animals can lead to numerous physical, muscular, neurological, nephrological, and diverse degenerative diseases and dysfunctions, including multiple sclerosis, muscular dystrophy, Parkinson's and Alzheimer's diseases, cardiovascular disorders, and several others. Recognized heavy metals such as lead, mercury, arsenic, cadmium, thallium, and hexavalent chromium are known for enormous toxicity. The immediate vital signs of acute heavy metal exposure include nausea, vomiting, diarrhea, and acute abdominal pain. Mercury has been identified as the most toxic heavy metal, and mercury poisoning is known as acrodynia or pink disease. Similarly, lead, another toxic heavy metal, was at one time an integral part of painting. Metal Toxicology Handbook further explains and discusses the varying attributes of metals, discussing toxicity, safety, and proper human utilization of metals. Beginning with a broad overview of metals, metalloids, redox biology, and neurodegeneration and going further into the roles, benefits, and toxicity of metals with each section, the text contains 28 chapters from eminent researchers and scientists in their respective fields and is a must-have for anyone researching the potential

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toxicity in metals. Key Features Discusses the pathology of metal toxicity Highlights the benefits of metals Explains the mechanism and salient features of restoring metabolic homeostasis Highlights dose-dependent beneficial and adverse effects of vanadium safety and toxicity The initial introductory section provides a broad overview of metals, metalloids, redox biology, and neurodegeneration. The second section discusses the pathology of metal toxicity in two chapters, while the third section highlights the mechanism and salient features of restoring metabolic homeostasis in two chapters. The fourth section demonstrates the aspect of radionuclides toxicity. In a change of pace, the fifth section discusses the benefits of metals in four chapters. The sixth section, titled "Toxic Manifestations by Diverse Heavy Metals and Metalloids," provides fourteen chapters that discuss the toxicological mechanism and manifestation of individual metals. The editors have crafted a commentary titled "A Treatise on Metal Toxicity" and summarized a vivid scenario of metal toxicity and its consequences. Medicinal plants and their derived products remain as an indispensable source of bioactive molecules that serve as either drug candidates or lead compounds for drug design and discovery. There are several advantages for plant-derived therapeutics including wide availability, diverse pharmacological actions and a generally good profile of safety and

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tolerability. Over the recent years, there have been numerous reports from clinical studies testifying to the efficacy and safety of medicinal plants and phytochemicals in ameliorating several human diseases. A plethora of basic studies has also unravelled molecular mechanisms underlying the health benefits of herbal medicines. Nevertheless, issues such as identification of bioactive ingredients, standardization of the products and drug interactions remain to be further studied. In this book, we aim to put together several chapters on the medicinal properties and pharmacological action of medicinal plants, plant species and phytochemicals. The goal is to present a comprehensive collection on most of the therapeutic aspects of plant-derived natural products and molecular mechanisms thereof.

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