

## Protective Effects Of Aqueous Extract Of Centella Asiatica

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

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

Sage, the genus *Salvia* is one of the most famous and used herbs in the world. This volume, containing twenty chapters written by the leading experts in the field, presents a comprehensive coverage on all aspects of *Salvia*. Topics covered include the presentation of the (approximately 400) most known *Salvia* species; the distribution of the genus; it

ScholarlyBrief

Urologic Diseases—Advances in Research and Treatment: 2012 Edition

Nutritional Composition and Antioxidant Properties of Fruits and Vegetables

Development of Food Chemistry, Natural Products, and Nutrition Research

Science, Technology and Health

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 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 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.

Epithelial Cells: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely,

authoritative, and comprehensive information about Epithelial Cells. The editors have built Epithelial Cells: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Epithelial Cells 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 Epithelial Cells: Advances in Research and Application: 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/>.

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, Limnocaritaceae, 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 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, orange 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 wound healing, antimicrobial activity, gastroprotective activity in treatment of cancers and as natural antioxidant sources. This compilation holds plausible solutions to a range of current issues and it endorses the much-needed goal of sustainability in the use 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.

Protective Effects of Aqueous Extract of Terminalia Arjuna Bark Against Doxorubicin-induced Cardiotoxicity

Issues in Veterinary Practices and Specialties: 2013 Edition

Plants as a Source of Natural Antioxidants

Nutrients, Dietary Supplements, and Nutraceuticals

The Genus Salvia

This volume in the AAPS Advances series covers various quality, safety and clinical aspects of drug development that are relevant to new and/or generic drugs containing a complex mixture of molecules. Specific topics discussed include: raw materials sourcing; manufacturing controls; characterization; identification of critical product quality components and attributes; identification of impurities, particularly as they bear on toxicity and immunogenicity; clinical trial study design considerations, and the regulatory science applications to development of such complex mixtures. Complex mixtures are challenging to characterize and analyze using standard methods. Further challenges extend throughout the product development cycle from raw material control to clinical study design. The regulatory landscape is rapidly changing as new types of complex mixtures are introduced into clinical trials and to the market (e.g., traditional Chinese medicines and medical marijuana products), while older products are facing generic competition for the first time (e.g., enoxaparin). The future outlook for complex generic drug products, as opposed to the more commonly developed targeted single agent drug products is not clear. The risks pertaining to lack of a full understanding of raw material control, process and controls in manufacture, as well as characterization of a complex mixture were seen vividly during the heparin crisis of 2008. As such powerful lessons have been learned about the regulatory science specific to complex products. The Science and Regulations of Naturally Derived Complex Drugs addresses the interests among industry, academics, and government on the issues surrounding the future development of mixtures for medicinal use.

The practice of Traditional Chinese Medicine (TCM) has been gaining a wider acceptance worldwide in recent decades. The global TCM market was estimated to be worth nearly US\$60 billion in 2012 with the China market alone projected by Helmut Kaiser Consultancy to exceed US\$121 billion in 2025. HerbMiners aims to make TCM healthcare smarter by unlocking the value of clinical data. Its research process includes the application of data mining to reveal relationships between symptoms, illnesses, herbs and prescriptions; and using artificial intelligence to learn about TCM diagnosis differentiation and prescriptions from TCM practitioners. It also provides TCM Advisor (TCMA), an integrated software solution that assists hospitals and clinics with TCM practice modernization and

patient record digitalization. TCMA is currently used by a large number of private TCM clinics and more than 80% of non-governmental organizations in Hong Kong that provide TCM service, as well as sites in the United States, Canada, Australia, Singapore, Philippines and Macau. While the first generation TCMA system - developed in-house on the Microsoft Windows .Net framework with a data capture module running on the Windows Azure cloud platform - enabled HerbMiners to tap into clinical data streams, the hybrid application architecture was laborious to support on-site, limiting the company's ability to take on more TCM clinics and diverting staff resources from its core research activities. HerbMiners Big data analytics is the use of advanced analytic techniques against very large, diverse Integrative medicine data sets that include different types such as structured/unstructured and streaming/batch/images/data mining, and different sizes from terabytes to zettabytes. Big data is a term applied to data sets whose size or type is beyond the ability of traditional relational databases to capture, manage, and process the data with low-latency. And it has one or more of the following characteristics - high volume, high velocity, or high variety. Big data comes from sensors, devices, video/audio, networks, log files, transactional applications, web, and social media - much of it generated in real time and in a very large scale. Analyzing big data allows analysts, researchers, and business users to make better and faster decisions using data that was previously inaccessible or unusable. Using advanced analytics techniques such as text analytics, machine learning, predictive analytics, data mining, statistics, and natural language processing, businesses can analyze previously untapped data sources independent or together with their existing enterprise data to gain new insights resulting in significantly better and faster decisions.

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 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.

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Peptic Ulcer Disease

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

Edible Medicinal and Non Medicinal Plants

Protective Agents: Advances in Research and Application: 2011 Edition

Handbook of Research on Herbal Liver Protection

***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. 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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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.

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 cardiotonic 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.

*Emerging Bioresources with Nutraceutical and Pharmaceutical Prospects*

*Natural Products and Drug Discovery*

Sage

*Network Pharmacology and Traditional Medicine*

*Volume 8, Flowers*

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 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.

**Endotoxins—Advances in Research and Application: 2012 Edition** is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Endotoxins in a concise format. The editors have built **Endotoxins—Advances in Research and Application: 2012 Edition** on the vast information databases of ScholarlyNews.™ You can expect the information about Endotoxins 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 **Endotoxins—Advances in Research and Application: 2012 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/>.

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 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.

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**Hepatoprotective Plants**

**Issues in Medical Chemistry: 2011 Edition**

**Handbook of 200 Medicinal Plants**

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

**Cost Analysis Versus Clinical Benefits**

*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.*

*Today, due to the high population of human beings, scientists are increasingly concerned with food shortages and searching for alternative sources of dietary protein, such as algae, insects, and worms. Spirulina represents a superior alternative source, as it has a high nutrient content without toxicity, and can be reared in many countries worldwide. Given the limited amount of studies on the advantages and disadvantages of using Spirulina in birds' diets, this book fills an important research gap. It highlights the nutritional aspects of using Spirulina in poultry diets, and will appeal to animal husbandry and veterinary students, professors, feed formulators, poultry production consultants and farmers.*

*Urologic Diseases—Advances in Research and Treatment: 2012 Edition* is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Urologic Diseases. The editors have built **Urologic Diseases—Advances in Research and Treatment: 2012 Edition** on the vast information databases of ScholarlyNews.™ You can expect the information about Urologic Diseases 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 **Urologic Diseases—Advances in Research and Treatment: 2012 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/>.

*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, 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.**

**SOUVENIR of 3rd International Science Congress ISC-2013**

**Nuclear Science Abstracts**

**A Comprehensive Review of Their Traditional Medical Uses and Scientific Justifications**

**Effects of *Murraya Koenigii* Leaves on Glucose Level, Kidney Functions, Antioxidant Capacity and Lipid Peroxidation, in Streptozotocin Diabetic Rats**

**Radioprotective Effect of *Salix Subserata* Against Gamma Irradiation**

Reactive Oxygen Species–Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Reactive Oxygen Species. The editors have built Reactive Oxygen Species–Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Reactive Oxygen Species 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 Reactive Oxygen Species–Advances in Research and Application: 2012 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/>.

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

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This book is designed to provide pharmacologists and researchers of natural products a comprehensive review of 200 medicinal plants, their vernacular names in various languages and their medicinal uses around the world, and in some cases, a historical perspective. Chemical constituents of each plant with the putative active constituent, and available up to date pharmacological studies (until 2017 on PubMed) with each medical activity explored and its relationship with traditional uses, are described for each plant. Any variations in chemical constituents and their effects on pharmacological studies outcome have been highlighted. All clinical trials conducted, with sufficient details, have been included. Nationalities and racial identities of participants of clinical trials are identified to impress upon the social, cultural and dietary influences on the clinical outcomes. Toxicity studies and potential interactions with prescribed drugs, and full spectrum of references are included.

*The Science and Regulations of Naturally Derived Complex Drugs  
Issues in Biologicals, Therapies, and Complementary and Alternative Medicine: 2011  
Edition*

*Epithelial Cells: Advances in Research and Application: 2011 Edition*

*Current Trends in Pharmacology*

*Endotoxins—Advances in Research and Application: 2012 Edition*

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 eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Mononuclear Leukocytes—Advances in Research and Application: 2012 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/>.

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

Nutrients, Dietary Supplements, and Nutraceuticals: Cost Analysis Versus Clinical Benefits provides the most current, concise, scientific appraisal and economic analysis (costs vs. benefit) of nutritional supplements and bioactive components (nutraceuticals) of foods in improving the quality of life. It fills a much-needed gap to have a single volume provide a synopsis of cost analysis of dietary supplements and nutritional products as well as therapies for treatment and prevention of disease. Chapters include emerging fields of science and important discoveries relating to early stages of new nutraceuticals in cancer prevention, prior to clinical trials. Written by international and national standing leaders in the field, Nutrients, Dietary Supplements, and Nutraceuticals: Cost Analysis Versus Clinical Benefits is essential reading for nutritionists, pharmacologists, health care professionals, research scientists, cancer workers, pathologists, molecular and cellular biochemists, physicians, general practitioners as well as those interested in diet and nutrition in disease resistance via immune regulation.

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/>.

Saffron

Mononuclear Leukocytes—Advances in Research and Application: 2012 Edition

Toxicological Profile for Cadmium

Phytotherapy in the Management of Diabetes and Hypertension

Big Data Analytics and Data Mining of Prescribing Patterns of Integrative Medicine Volume 1

A comprehensive overview of both traditional and current knowledge on the health effects of plant based antioxidants, this book reviews medicinal and aromatic plants from around the world. It covers the different sources of antioxidants including essential oils, algae and marine microorganisms, as well as the role of abiotic and biotic stresses, endophytes, transgenic approaches in scavenging ROS and antioxidant plants used in different therapeutic systems.

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

An Introduction to Nephroprotective Plants

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