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254 - KIERA BRENDEN

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, 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

Unity in Diversity and the Standardisation of Clinical Pharmacy Services represents the proceedings of the 17th Asian Conference on Clinical Pharmacy (ACCP 2017), held 28–30 July 2017 in Yogyakarta, Indonesia. The primary aim of ACCP 2017 was to bring together experts from all fields of clinical pharmacy to facilitate the discussion and exchange of research ideas and results. The conference provided a forum for the dissemination of knowledge and exchange of experiences. As such, it brought together clinical pharmacy scholars, pharmacy practitioners, policy makers and stakeholders from all areas of pharmacy society and all regions of the world to share their research, knowledge, experiences, concepts, examples of good practice, and critical analysis with their international peers. This year also marks the celebration of 20 years of ACCP. Central themes of the conference and contributed papers were Clinical Pharmacy, Social and Administrative Pharmacy, Pharmacy Education, Pharmacoeconomics, Pharmacoepidemiology, Complementary and Alternative Medicine (CAM) and a number of related topics in the field of Pharmacy.

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.

PROTA 11 deals with the medicinal plants of Tropical Africa. Because the group is very large, it has been subdivided into 4 volumes. This volume, PROTA 11(2), describes 409 medicinal plants in 146 review articles. All articles are illustrated with geographic distribution maps and many with botanical line drawings.

For hundreds of years, indigenous populations have developed drugs based on medicinal plants. Many practitioners, especially advocates of traditional medicine, continue to support the use of plants and functional foods as methods by which many ailments can be treated. With relevance around the world as a complementary and alternative medicine, advancements for the use of both ethnopharmacology and nutraceuticals in disease must continually be explored, especially as society works to combat chronic illnesses, increasingly resilient infectious diseases, and pain management controversies. The Research Anthology on Recent Advancements in Ethnopharmacology and Nutraceuticals discusses the advancements made in herbal medicines and functional foods that can be used as alternative medical treatments for a variety of illness and chronic diseases. The anthology will further explain the benefits that they provide as well as the possible harm they may do without proper research on the subject. Covering topics such as food additives, dietary supplements, and physiological benefits, this text is an important resource for dietitians, pharmacists, doctors, nurses, medical professionals, medical students, hospital administrators, researchers, and academicians.

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

"Outlines and Pictures of Medicinal Plants from Nigeria is a compendium of Nigerian plants known and used by local people for medicinal purposes."--Provided by publisher.

This volume in the series is devoted to Africa, a continent that possesses a vast treasure of medicinal plants and has produced some exclusive materials for the world market. This volume is expected to strengthen the medicinal plant sector in African countries by making comprehensive information on medicinal and aromatic plants available to policy-makers and entrepreneurs. It can be used to frame effective policies and create an environment conducive to the growth of the plant-based medicine industry, bringing economic benefit to African nations. It will help health organizations to improve the health of their people by using their own resources and a less expensive system of medicine, which is accepted by African society. It could also lead scientific communities to increase R&D activities in the field.

Plants have been a source of medicines and have played crucial role for human health. Despite tremendous advances in the field of synthetic drugs and antibiotics, plants continue to play a vital role in modern as well as traditional medicine across the globe. In even today, one-third of the world's population depends on traditional medicine because of its safety features and ability to effectively cure diseases. This book presents a comprehensive guide to medicinal plants, their utility, diversity and conversation, as well as biotechnology. It is divided into four main sections, covering all aspects of research in medicinal plants: biodiversity and conservation; ethnobotany and ethnomedicine; bioactive compounds from plants and microbes; and biotechnology. All sections cover the latest advances. The book offers a valuable asset for researchers and graduate students of biotechnology, botany, microbiology and the pharmaceutical sciences. It is an equally important resource for doctors (especially those engaged in Ayurveda and allopathy); the pharmaceutical industry (for drug design and synthesis); and the agricultural sciences.

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.

This book details several important medicinal plants, their occurrence, plant compounds and their chemical structures, and pharmacological properties against various human diseases. It also gives information on isolation and structural elucidation of phyto-compounds, bio-assays, metabolomic studies, and therapeutical applications of plant compounds.

This book is focused on clarifying the anticancer effects (i.e., apoptotic, antiproliferative, antimetastatic, antiangiogenic) and mechanisms of most of the medicinal plants found in the world against solid and/or hematological cancers.

"Alkaloids" is intended for by chemistry, biochemistry, pharmacy, and other medical students, biologists, chemists, biochemists, and other professionals involved in the field of alkaloids. All chapters in this book are written by professionals in the areas of

alkaloid chemistry, biology, pharmacy, and other interesting applications. The chapters cover interesting and less obvious information about different groups of alkaloids.

The method permits estimation of an LD50 with a confidence interval and the results allow a substance to be classified for acute toxicity according to the Globally Harmonised System of classification and labelling of chemicals. It is easiest to ...

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--- Hardcover edition contains COLOR IMAGES! --- I don't want to suppose. I want to know. -Julia Frances Morton Fruits of Warm Climates is the encyclopedia for those who want to know! In one definitive volume, Morton explores the world of tropical and subtropical fruit, providing information on the history of the plants, cultivation techniques, food and alternative uses, nutrition, varieties, and much more. Written in a professional yet accessible voice, Fruits of Warm Climates is a must-have for anyone interested in tropical horticulture. Valuable for researchers as well as home and commercial growers, Fruits of Warm Climates masterfully packages the essential information on familiar and not-so-familiar tropical fruit. With over 400 pages containing hundreds of images, the volume is overflowing with information on countless varieties of fruits. Years after its original publication, Fruits of Warm Climates remains a leading text on the subject and the pinnacle work of economic botanist Julia F. Morton. It is an important resource for every agricultural, research, and science library. Julia F. Morton was Research Professor of Biology and Director of the Morton Collectanea (a research and information center devoted to economic botany) at the University of Miami. She received a D. Sc. from Florida State University in 1973 and was elected Fellow of the Linnean Society of London in 1974. She has held numerous positions in the field including President of the Florida State Horticulture Society, a member of the Board of Trustees of Fairchild Tropical Garden, and served on the Board of Directors of the Florida National Parks and Monuments Association. She is the author of 10 books and co-author of 12 others.

The effects of inadequate diets on the population include malnutrition, non-communicable diseases and obesity. 'Hidden hunger', also known as micronutrient deficiencies, leads to various health-related disorders and diseases. Indigenous plants, in the form of indigenous fruits and leafy vegetables are gaining interest as a source of nutrients and bioactive phytochemicals, satisfying both food demand and health needs. Moreover, with the impact of climate change, and the importance of sustainability of food systems, it is essential that we investigate new, forgotten and alternative crops that can thrive in harsh conditions, require low fertilizer input, and are easily harvestable. This is an essential resource for academic researchers and industry professionals in the fields of horticulture, agriculture, crop science, human health and nutrition.

The incidence and severity of diabetes mellitus is increasing worldwide, presenting a significant burden to society both in economic terms and overall well-being. Fortunately, time-tested anti-diabetes mellitus plant foods exist that are safe and could be effective in addressing this condition when consumed judiciously with a concomitant change in lifestyle. Plants with Anti-Diabetes Mellitus Properties presents an exhaustive compilation of the anti-diabetes mellitus activities of more than 1000 plants occurring worldwide. The author provides a brief botanical description, distribution, pharmacological properties, and phytochemicals, where appropriate. A list of traditional medicinal plants used to treat diabetes, but not tested for anti-diabetic activity, is also given. This unique reference highlights anti-diabetes mellitus plant foods along with a list of the edible parts of plants with anti-diabetes mellitus properties. Anti-diabetes mellitus nutraceuticals are described with guidelines for the development of food supplements and formulations of diets appropriate for diabetic patients. This is a valuable source of information for researchers, students, doctors, diabetic patients, and other individuals wanting to learn more about plant-based treatments for diabetes mellitus.

Bachelor Thesis from the year 2015 in the subject Chemistry - Bio-chemistry, grade: 3.84, , course: Biochemistry, language: English, abstract: The present study was done to evaluate the acute (14 days) toxicity of the ethanolic leaf extract of Myrianthus arboreus on the liver enzymes of wistar rats. In the acute (14 days) toxicity studies, 24 rats were grouped into 1- 8 groups (n=3rats/cage) and administered with 1500, 1000 and 500 mg/kg body weight for 7 days and 14 days. The rats were sacrificed after 7 days and 14 day of administration and blood samples and liver or-

gan were collected for investigations. The biochemical parameters such as the Alkaline phosphatase (ALP), Alanine transaminase (ALT) and Aspartate aminotransferase (AST) were determined and the liver histology analysed. The mean values of ALP showed significant increase ($P \leq 0.05$), the ALT showed a non-significant increase ($P \geq 0.05$) at groups 2, 3 and 4 and a significant increase ($p \leq 0.05$) at groups 6, 7 and 8. The AST showed a non-significant increase ($P \geq 0.05$) at all dosages and times except for group 2. The histological analysis showed microvesicular steatosis at groups 2 and 3 and a ballooning hepatic necrosis at group 7. The phytochemical analysis of *Myrianthus arboreus* shows the presence of alkaloids, flavonoids, tannins, anthraquinones, triterpenoids, carbohydrate, cardenolide and saponins in detectable limits but fixed oils and cyanogenic glycosides were not determined. In this investigation, we can conclude that the ethanolic leaf extract of *Myrianthus arboreus* was unsafe at all doses considered for a period of 14 days. However, at a dose below 500 mg for 7 days could be considered safe.

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.

"Ethanol and ionizing radiation exposure are independently known to cause tissue damage through various mechanisms. Non-enzymatic and enzymatic metabolism of ethanol, the latter via the cytochrome P{210}{211}{206}2E1-dependent pathway, produces free radicals which deplete cellular glutathione (GSH). Ionizing radiation exposure has been shown to induce lipid peroxidation, DNA damage, protein oxidation, and GSH depletion, as well. It was postulated that initial exposure to ethanol, followed by ionizing radiation, would result in heightened oxidative stress. The in vitro model used in this investigation was HepG2 cells (human hepatocellular liver carcinoma cell line), while the in vivo model was Cd-1 mice"--Abstract, leaf iii.

Bioactive Food as Dietary Interventions for Diabetes, Second Edition is a valuable scientific resource that explores the latest advances in bioactive food research and the potential benefits of bioactive food choice on diabetic conditions. Written by experts from around the world, it presents important information that can help improve the health of those at risk for diabetes and diabetes related conditions using food selection as its foundation. This important resource for those involved in the dietary and nutritional care of diabetic patients is also ideal for researchers seeking information on alternative bioactive food-based solutions. Serves as a starting point for in-depth discussions in academic settings that can lead to revised and updated treatment options for diabetes. Offers detailed, well-documented reviews outlining the ability of bioactive foods to improve and treat diabetes and obesity. Includes updated research on the global epidemic of diabetes. Presents global perspectives and coverage of regional foods.

This book collects information about the most popular ethnomedicinal plants, which are common in Turkey and around the world. It presents the ethnopharmacological records, in vivo and in vitro studies, side effects, chemical compositions and clinical studies of these medicinal plants. Its special focus is on the novel drug targets for disease and their possible mechanisms of action. It covers botanical descriptions the status of the plants, and food or drug interactions including precautions and warnings about the plants and the available market products. It provides an explanation of recorded and known plant administration dosages. Also, the gap between the traditional practice and scientific/clinical evidences in the use of ethnomedicinal plant is acknowledged. It is well known that traditional knowledge of the use of the medicinal plants in therapy is an important resource for the discovery of novel treatment options and drug targets. The main purpose of this book is to draw attention to ethnomedicinal plant species. Data on the therapeutic potentials of these medicinal plants can now be accessed from a single source. It provides an important resource for future research opportunities for harnessing the full potential of these plants.

This book provides a detailed summary of the therapeutic benefits of natural extracts from medicinal plants, mushrooms, algae, fungi and sponges and their role in the prevention and treatment of obesity and diabetes, offering readers a solid introduction to obesity and diabetes as well as current treatment models. In addition, it examines how genomics and multi-omics approaches have revolutionized our understanding of these diseases, and discusses the role of microbiome-host interactions, probiotics, prebiotics and the future of metabolic phenotyping. Focusing on the pharmacokinetics of anti-obesity and anti-diabetic phytochemicals, their bioavailability in the respective target tissues and their

elimination times, the book also describes the nanoformulations of phytochemicals and herbal extracts. Lastly, it presents an overview of the advances in clinical studies on the use of herbal and mushroom extracts in obesity and diabetes management. Given its scope, this book is useful not only for researchers in the field but also for students studying nutrition, food sciences, plant sciences or pharmacology, as well as for health professionals and practitioners.

Herbs, Spices and Their Roles in Nutraceuticals and Functional Foods gives an overview of the many pharmacological activities associated with herbs and spices, including detailed coverage on their mechanisms and formulations for the food industry. Chapters focus on key ingredients such as *Curcuma longa*, *Piper Nigrum* and *Trigonella foenum-graecum*, with contributors across the globe providing the latest research and advances for each. This is an essential read for scientists who want to understand the fundamental mechanisms behind the bioactive compounds within herbs and spices. The numerous phytochemicals present in plant extracts have multiple pharmacological activities so there is extensive research into new bioactive compounds. The pharmacological activities of herbs and spices have been thoroughly investigated, and it is crucial that the latest research is organized into a comprehensive resource. Presents chapters that are organized by specific herb or spice, providing comprehensive coverage of mechanism and innovative formulations. Provides in-depth analysis of multiple pharmacological activities. Includes detailed coverage surrounding the food industry.

With chapters written by scientists from respected institutes and universities around the world, this book looks at the bioprospecting of medicinal plants for potential health uses and at the pharmacognosy of a selection of medicinal and aromatic plants. The book touches on a diverse selection of topics related to medicinal plants. Chapters look at the use of medicinal plants in healthcare and disease management, such as to treat inflammation, antihyperglycemia, and obesity and as immunity boosters. The authors also address the conservation, maintenance, and sustainable utilization of medicinal plants along with postharvest management issues. A chapter discusses the use of synthetic seeds in relation to cryopreservation, and a chapter is devoted to the use of micro-computed tomography and image processing tools in medicinal and aromatic plants. Other topics include consumption, supply chain, marketing, trade, and future directions of research.

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 need for exploration, conservation, and sustainable utilization of bioresources is undeniable for the survival and growth of mankind. This new book throws light on new and recent research on and development of effective strategies for sustainable utilization of bioresources using modern tools and techniques to help meet this challenge. This volume addresses the utilization of bioresources in therapeutics, in biofuel, in agriculture, and in environmental protection. Beginning with the diverse potential applications of bioresources in food, medicine, and cosmetics, the volume goes on to address the various different underutilized bioresources and their sustainable uses. It discusses important advances in biofuel and patents that highlight recent developments that address the energy crises and the continuously fluctuating cost of petroleum. It explores new renewable energy sources from bioresources and their sustainable utilization in the bioenergy and biofuel industry. Several chapters focus on the sustainable utilization of bioresources in the agricultural sector. The volume considers that developing countries have huge agricultural resources that could be employed for production of value-added byproducts for the sustainable development of a bio-based economy. The book discusses efficient use of underexploited natural bioresources, new chemical approaches for the generation of novel biochemicals, and the applications of genetics approaches for bioresource conservation and production of value-added products. Further, strategies for the production of biopesticides utilizing bioresources are also discussed.

Being a complex disease that affects millions of people world over, cancer research has assumed great significance. Translational cancer research transforms scientific discoveries in the laboratory or population studies into clinical application to reduce incidence of cancer, morbidity and mortality. It is becoming increasingly evident that cancer is a preventable disease. The IVth International Symposium on Translational Cancer Research held in

Udaipur, India in December 2011, discussed various aspects of the biological processes in cancer cells and approaches to cancer prevention. A few contributions from this meeting are presented in this book, providing an in depth analysis of data on cancer prevention and therapeutics. These contributions are either critical reviews or research reports. The topics discussed include evidence-based nutritional recommendations for cancer patients and survivors, risk factors such as stress, enrichment of tumour stem cells by anticancer drug treatment contributing to tumour recurrence and the mechanism of anticancer effects of various natural products. Chemosensitizing effect of curcumin, anti-cancer effect of products from neem, action of sulforaphane and cytotoxic effect of a number of novel synthetic coordination complexes of trace metals have been discussed. Novel molecular targets of angiogenesis and molecular basis of the gender bias to thyroid cancer have also been discussed. This book provides useful information on translational cancer research to clinicians and biomedical scientists.

Diabetes is a global pandemic where many remedies have been recommended as means of combating the prevalence of this disease. However, dietary control appears to be more effective than others. This book focuses on interventions concerning glycemic control, the oxidative stress-based occurrence of the disease and its prevention, as well as novel remedies. While many books have been published recently on this aspect, the book aims to serve as an update to the scientific community, as well as to those who have been adversely affected by the disease. There are many unexplored territories when it comes to diabetes, and it is hoped that this publication will open up new avenues of successfully curbing its occurrence.

While there is talk of the Fourth Industrial Revolution, old and new challenges bedevil the world - climate change, nutrition, and health poverty being at the top of the list. In seeking solutions to these and other problems which afflict the modern era, it is worthwhile to look into our collective past, to the traditions and knowledges of our ancestors. Such knowledge continues to exist in many parts of the world, though now marginalized by homogeneous, Eurocentric ontology and epistemology. This book presents a compilation of reviews, case studies, and primary research attempting to locate the utility of traditional and Indigenous Knowledges in an increasingly complex world. It assembles chapter authors from across the world to tackle topics ranging from traditional knowledge-based innovations and commercialization, traditional medicine systems as practiced around the world, ethnoveterinary practices, and food innovation to traditional governance and leadership systems, among others. This book is an important resource for policymakers; scholars and researchers of cultural studies, leadership, governance, ethnobotany, anthropology, plant genetic resources and technology innovation; and readers interested in the history of knowledge and culture, as well as cultural activists and political scientists. Features: Unique combination of social science and anthropological aspects with natural science perspectives. Includes summaries aimed at policymakers to immediately see what would be relevant to their work. Combines case studies illuminating important lessons learned with reviews and primary data. Multidisciplinary in the scope of the topics tackled and assemblage of contributors. Global footprint with contributions from Africa, Europe, North America, Asia, and the West Indies. David R. Katerere, Department of Pharmaceutical Sciences, Tshwane University of Technology, South Africa. Wendy Applequist, William L. Brown Center, Missouri Botanical Garden, St Louis, Missouri. Oluwaseyi M. Aboyade, Department of Pharmaceutical Sciences, Tshwane University of Technology, South Africa. Nutritica SA, The Innovation Hub, Pretoria, South Africa. Chamunorwa Togo, The Innovation Hub, Pretoria, South Africa. *Natural Feed Additives Used in the Poultry Industry* addresses recent information on the use of different natural feed additives in poultry nutrition. Chapters in the book focus on the growth, production, reproduction and health of poultry. Key Features: - 15 chapters contributed by more than 30 experts and scientists involved in animal and poultry nutrition, physiology, toxicology, pharmacology, and pathology - Chapters highlight the significance of a variety of herbal plant extracts and derivatives, cold pressed and essential oils, fruits by-products, immunomodulators, organic acids, probiotics, nanoparticles and their role in poultry industry instead of the growth promoter antibiotics. - Provides details about the use of antibiotic as growth promoters in poultry and the development of bacterial resistance. - Provides a holistic approach on how natural feed additives can provide an efficient solution to animal health, - Covers the main categories of poultry, including broiler chickens, laying hens, quails, geese, ducks, and turkey. - References in each chapter for further reading. This handbook represents an up-to-date review of the existing knowledge on natural feed additives, both in vitro and in vivo and the basis for future research. The text is useful to students of poultry sciences, nutritionists, scientists, veterinarians, pharmacologists, poultry breeders, and animal husbandry extension workers.

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.

This book is written for researchers, undergraduate students and postgraduate students, physicians and traditional medicine practitioners who develop research in the field of neurosciences, phytochemistry and ethnopharmacology or can be useful for their practice. Topics discussed include the description of depression, its

biochemical causes, the targets of antidepressant drugs, animal and cell models commonly used in the research of this pathology, medicinal plants and bioactive compounds with antidepressant activity used in traditional medicine, advances in nanotechnology for drug delivery to the brain and finally the future challenges for researchers studying this pathology.

Leishmania major infectious diseases of trouble for the people of the world. So to control the disease and its spread in other areas have done a lot of research, especially research on the synergistic effects to treatment plants. Leishmaniasis is one of the major problems in health systems. Due to the side effects of medications used to treat these diseases and people also tend to use herbal medicines. This study aimed to investigate the effect of ethanol extracts of three plants, yarrow, wormwood and walnut leaf extracts on Leishmania major and mixed three synergistic effects in vitro In vitro study was done. Microbiology, Parasitology, Botanical medicines, The epidemiology of infectious diseases in the world and Iran.

Outstanding scientific advances over the last decades unceasingly reveal real complexity of wound-healing process, astonishing in its staged progression, as life is unfolding itself. This natural course of tissue repair seems to bear thousands of overlapping molecular and macroscopic processes that nowadays only start to unfold to our knowledge. The present volume collecting recent scientific references proposes to readers a two-folded audacious goal. First, an updated design of intimate cellular mechanisms is entailed in tissue regeneration that emanates from the first section of the book. Next, a multidisciplinary therapeutic perspective that focuses on macroscopic healing throughout the second part of this work adds clinically integrated observation. Practical diagnostic and treatment information is appended in each chapter that may equally help experienced clinicians or dedicated stu-

dents and researchers in broadening essential breaking points of their work. It is the wish of all multidisciplinary experts who gather prominent author's panel of this volume to incorporate latest medical reports and compel limits of current understanding for better tissue regeneration, limb salvage, and improved quality of life of our patients.

This volume sheds new light on the immense potential of medicinal plants for human health from different technological aspects. It presents new research on bioactive compounds in medicinal plants that provide health benefits, including those that have proven especially effective in treating and managing diabetes mellitus and hypertension. It looks at the medicinal properties, antioxidant capacity, and antimicrobial activity of plants and provides scientific evidence on the use of medicinal plants in the treatment of certain diseases. Many of the plants described in the chapters are easily accessible and are believed to be effective with fewer side effects in comparison to modern drugs in the treatment of different diseases.

The problem of fertility control is a matter of great interest in developing countries to control the rapidly increasing population. In contrast to females, there are limited approaches to control male fertility. However, in recent years, regulation of male fertility by using plant extracts has attracted much interest of researchers because an antifertility agent of plant origin is cost effective and has low toxicity. The present book reviews various approaches that have been worked out to control male fertility, and their drawbacks. Further, it reports the effects of chronic administration of 50% ethanolic leaf extract of *F. bengalensis* on spermatogenesis and fertility in albino mouse. This book might be helpful to students and researchers to enrich their knowledge about contraceptive plants.