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This book series gives a comprehensive overview of the adverse effects of botanical medicines. It provides introductory information on Botany, Chemistry, Pharmacology and Uses, followed by an Adverse Reaction Profile subdivided according to organ and function. The third contribution to the series gives important information about eighteen specific medicinal herbs and important plant constituents. The herbs and constituents have been selected for several reasons, such as a prominent place in phytotherapy, clinical expectations about therapeutic potential and recent concern about a serious adverse reaction. The World Health Organization Regional Office for Europe (Copenhagen) has supported the book in the form of an acknowledgement that has been prepared by this Office.

This book is the third in a series evaluating underexploited African plant resources that could help broaden and secure Africa's food supply. The volume describes 24 little-known indigenous African cultivated and wild fruits that have potential as food- and cash-crops but are typically overlooked by scientists, policymakers, and the world at large. The book assesses the potential of each fruit to help overcome malnutrition, boost food security, foster rural development, and create sustainable landcare in Africa. Each fruit is also described in a separate chapter, based on information provided and assessed by experts throughout the world. Volume I describes African grains and Volume II African vegetables.

Known for their ease of use, artful presentation of scientific information, and evidence-based approach, James Duke's comprehensive handbooks are the cornerstone in the library of almost every alternative and complementary medicine practitioner and ethnobotanist. Using the successful format of these bestselling handbooks, Duke's Handbook of Medicinal Plants of the Bible covers 150 herbs that scholars speculate, based on citations, were used in Biblical times.

Biotechnological Production of Bioactive Compounds provides insights on the most recent innovations, trends, concerns, solutions and practical challenges encountered in the fields of enzyme technology and nanobiotechnology for the production of bioactive materials with extra health benefits. As nanobiotechnology has improved the bioactive extraction process significantly, many bioactives, including bioflavonoids, omega-3 fatty acids, biopigments and low calorie sugar substitutes are a pivotal part of the food industry. The book highlights the production of extra health benefits "bioactives" from plants and microbes and explains how the extraction efficiency of bioactives molecules improves significantly with the recent advances in nanobiotechnology.

Researchers in the fields of biochemical engineering, biotechnology, bioremediation, environmental sustainability and those in pharma industries will find the information in this book very helpful and illuminating. Outlines technological advances in bioactives extraction Covers bioflavonoids, biopigments, omega-3-fatty acids and low sugar substitutes Explains the mechanisms of Green cargo (biogenic nanoparticles) for the delivery of bioactive molecules

This important reference provides up-to-date information on all aspects of ribosome-inactivating proteins (RIPs). Including a list of all known RIPs, their distribution in nature, structure, genetics and chemical and immunological properties, this reference covers

mechanisms of action, including the enzymatic activity on various polynucleotide substrates; the interaction with, and entry into cells; the toxicity to animals, including the pathology of poisoning; and the immunomodulatory and allergenic activity. The book further emphasizes the use of immunotoxins and other conjugates in clinical trials for the therapy of cancer and intractable pain. The demand for medicinal plants is increasing, and this leads to unscrupulous collection from the wild and adulteration of supplies. Providing high-quality planting material for sustainable use and thereby saving the genetic diversity of plants in the wild is important. In this regard, the methods of propagation of some important medicinal plants are provided along with the traditional methods of propagation. Indian Medicinal Plants: Uses and Propagation Aspects offers a unique compendium of more than 270 medicinal plant species from India with detailed taxonomic classifications based on the Bentham and Hooker system of classification. Salient Features: Provides traditional methods of propagation and discusses the propagation of medicinal plants Presents plant properties, plant parts and chemical constituents Describes the medicinal uses of more than 270 medicinal plant species from India This book is of special interest to practitioners of alternative medicine, students of Ayurveda, researchers and industrialists associated with medical botany, pharmacologists, sociologists and medical herbalists.

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

The potential benefits of plants and plant extracts in the treatment and possible prevention of many leading health concerns are historically well known and are becoming more widely studied and recognized within the medical community. It is these studies that led to the first compilation of new research developments, identifying new extracts and uses for plants in disease prevention and treatment. This major comprehensive reference work contains contributions from more than 150 clinical and academic experts covering topics such as treatments of cancer and cardiovascular diseases, as well as historical plant use by indigenous people supported by recent scientific studies. Authors review the safety and efficacy of botanical treatments while identifying the sources, historical supportive data and mechanisms of action for emerging treatments. Written by researchers currently carrying out identification and biomedical testing, this is the most up to date text on the latest research from all over the world. It is an essential resource for health care

practitioners and herbalists, as well as researcher, students and professionals in botany and alternative medicine. 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.

Before the concept of history began, humans undoubtedly acquired life benefits by discovering medicinal and aromatic plants (MAPs) that were food and medicine. Today, a variety of available herbs and spices are used and enjoyed throughout the world and continue to promote good health. The international market is also quite welcoming for MAPs and essential oils. The increasing environment and nature conscious buyers encourage producers to produce high quality essential oils. These consumer choices lead to growing preference for organic and herbal based products in the world market. As the benefits of medicinal and aromatic plants are recognized, these plants will have a special role for humans in the future. Until last century, the production of botanicals relies to a large degree on wild-collection. However, the increasing commercial collection, largely unmonitored trade, and habitat loss lead to an incomparably growing pressure on plant populations in the wild. Therefore, medicinal and aromatic plants are of high priority for conservation. Given the above, we bring forth a comprehensive volume, "Medicinal and Aromatic Plants: Healthcare and Industrial Applications," highlighting the various healthcare, industrial and pharmaceutical applications that are being used on these immensely important MAPs and its future prospects. This collection of chapters from the different areas dealing with MAPs caters to the need of all those who are working or have interest in the above topic.

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control and biodiversity depletion. Novel, environmentally-friendly solutions are proposed based on integrated knowledge

from sciences as diverse as agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy and social sciences. Indeed, sustainable agriculture decipher mechanisms of processes that occur from the molecular level to the farming system to the global level at time scales ranging from seconds to centuries. For that, scientists use the system approach that involves studying components and interactions of a whole system to address scientific, economic and social issues. In that respect, sustainable agriculture is not a classical, narrow science. Instead of solving problems using the classical painkiller approach that treats only negative impacts, sustainable agriculture treats problem sources. Because most actual society issues are now intertwined, global and fast-developing, sustainable agriculture will bring solutions to build a safer world.

Powdered Crude Drug Microscopy of Leaves and Barks investigates various microscopic techniques used in the examination of structural and cellular features in order to determine their botanical origin. These methods are useful in identifying species with similar morphological characters. Today, there is a variety of methods available to authenticate herbal drugs, ranging from simple morphological examination to physical and chemical analysis, and DNA molecular biology. Due to cost, powder microscopy is the most practical method for primary authentication. Botanical microscopy is a unique, valuable, rapid and cost-effective assessment tool, and plays an important role in the authentication and assessment of medicinal plants. This book is an essential resource for students and researchers involved in the study of plants and natural products, as well as professionals in industries manufacturing plant-based products for use during quality control and assurance steps. Provides a fundamental understanding of the macroscopic and microscopic characteristics of crude drugs, including photographs of herbs in their raw and powder forms. Presents specific characteristics and sub-features for identifying barks and leaves, including stone cells, calcium oxalate crystals, starch grains, medullary rays, fibres, sclereids, cork, isolated oil cells, tubular lactiferous canals, phloem parenchyma, masses, rhytidoma, parenchyma and secretory canals. Includes specific characteristics for identifying leaves, such as epidermis, stomata, trichomes, calcium oxalate crystals, fibres, cell contents, cystoliths, lamina, starch grains, tracheids, lactiferous canals and xylem vessels. Demonstrates how the specificity of characteristics for a particular bark or leaf in powder form can lead to its authentication. Features standard operating protocols for preparation of slides and lab samples using industrially operated grinders to observe general as well as distinguishing microscopical characters of barks and leaves. Stay up-to-date with this important contribution to rationalized botanical medicine The Handbook of Medicinal Plants explores state-of-the-art developments in the field of botanical medicine. Nineteen experts from around the world provide vital information on natural products and herbal medicines—from their earliest relevance in various cultures to today's cutting-edge biotechnologies. Educated readers, practitioners, and academics of natural sciences will benefit from the text's rich list of references as well as

numerous tables, figures, and color photographs and illustrations. The Handbook of Medicinal Plants is divided into three main sections. The first section covers the use of herbal medicines throughout history in China, Australia, the Americas, the Middle East, and the Mediterranean, emphasizing the need for future medicinal plant research. The second section discusses the latest technologies in production and breeding, crop improvement, farming, and plant research. The third section focuses on groundbreaking advances in the medicinal application of therapeutic herbs. In the Handbook of Medicinal Plants, you will gain new knowledge about: recent research and development in Chinese herbal medicine modern methods of evaluating the efficacy of medicinal plants by “screening” the newest developments of in vitro cultivation prevention and therapy of cancer and other diseases using medicinal plants the challenges and threats to medicinal plant research today trends in phytomedicine in the new millennium The Handbook of Medicinal Plants demonstrates the global relevance of sharing local knowledge about phytomedicines, and highlights the need to make information on plants available on a worldwide basis. With this book, you can help meet the challenge to find scientifically rationalized medicines that are safer, more effective, and readily available to patients from all walks of life.

Mycotoxins are toxic secondary metabolites produced by fungi. They cause deleterious effects on humans, animals, and plants. More than one hundred mycotoxins are known which contaminate food and feed raw materials. Fungal infection and mycotoxin contamination can occur directly in fields (pre-harvest stage), during storage, or during industrial processing (post-harvest stage). Given the proven toxicity of mycotoxins and their widespread distribution, it is necessary to prevent their occurrence in food and feed. To limit mycotoxin contamination, several techniques can be adopted at the pre-harvest or post-harvest stages. These techniques can reduce mycotoxin concentration through fungal growth reduction or mechanisms leading to mycotoxin degradation or mycotoxin detoxification (i.e., reduction of the toxicity). Until very recently, fungicides were favored to limit mycotoxin contamination by reducing fungal growth. Nonetheless, the sanitary and environmental impacts of these products and their effects on food quality encourage the development of alternative strategies based on biocontrol agents (BCAs) or natural compounds. Moreover, in some cases, fungal growth reduction can stimulate mycotoxin production. The focus of this Special Issue of Toxins is to gather the most recent advances related to reducing mycotoxin contamination in food and feed using BCAs and natural compounds. In this context, two main types of approaches can be proposed: Preventive methods that could be applied in the field, during storage, or during industrial processing and curative methods that detoxify contaminated matrices by eliminating the produced mycotoxin.

Cold Pressed Oils: Green Technology, Bioactive Compounds, Functionality, and Applications creates a multidisciplinary forum of discussion on recent advances in chemistry and the functionality of bioactive phytochemicals in lipids found in cold pressed oils. Chapters explore different cold pressed oil, focusing on cold press extraction and processing, composition, physicochemical characteristics, organoleptic attributes, nutritional quality, oxidative stability, food applications, and functional and health-promoting traits. Edited by a team of experts, the book brings a diversity of developments in food science to scientists, chemists, nutritionists,

and students in nutrition, lipids chemistry and technology, agricultural science, pharmaceuticals, cosmetics, nutraceuticals and many other fields. Thoroughly explores novel and functional applications of cold pressed oils Shows the difference between bioactive compounds in cold pressed oils and oils extracted with other traditional methods Elucidates the stability of cold pressed oils in comparison with oils extracted using other traditional methods

With a high diversity of vegetation in Iran, over 8000 plant species are in existence. More than 2300 species of these plants have medicinal, edible and industrial properties, and more than 1700 species of them are endemic. Natural Products and Botanical Medicines of Iran provides an overview on important endemic plants and their usages. All results have been tabulated and key detailed information of each species is presented with background data. Features: Provides an understanding of indigenous plant-derived natural medicines of the most important medicinal plants in the region Includes discussions and critical views on the potentials and challenges for further development of the selected plants in a modern setting Details the important plants and sets out the chapters based on either taxonomy or medical use

The fastest growing demographic in both developed and developing societies around the world, the elderly bring unique medical and financial health-care burdens. In response to this phenomenon, a large and growing body of research is directed toward the science of healthy aging. A substantial amount of observational data points to the consumption of a plant-based diet as a factor in lowering the risk of multiple chronic degenerative age-related diseases. The 6th International Phytochemical Conference, Phytochemicals: Aging and Health, focused on the particular concerns of nutrition in the aging population, as well as new aspects of research methodology, real-world applications, and updates or expansions of previously introduced topics. Drawn from the illustrious panel of scientists and researchers who spoke at the conference, Phytochemicals: Aging and Health begins by highlighting the prevailing theories on aging, including dietary manipulation and the role of phytochemical medicinals or supplements in health. Contributions present state-of-the-art methodologies for polyphenolic analysis, bioavailability, and metabolism—crucial tools that answer pressing questions such as “are there age related changes in flavonoid bioavailability?” The following chapters provide research results on botanicals and inflammation, green tea formulations and skin health, and the effects of phytochemicals on vision, brain function, and cardiovascular disease. The book concludes with forward-looking discussions on applying nutrient–gene interaction research findings to individual dietary recommendations, along with the step-by-step process to commercialize botanical products for allergy relief. Continuing to introduce the highest-quality, groundbreaking research, Phytochemicals: Aging and Health provides pragmatic information for food companies, supplement manufacturers, and researchers interested in developing functional foods and nutraceuticals for the aging population.

Natural compounds continue to play a key role in drug development. Many clinically approved drugs are either unmodified natural products or their semi-synthetic derivatives. This book series presents reviews of exciting new bioactive natural products that have huge potential as drugs. Each volume presents comprehensive chapters contributed by eminent scientists. The volumes focus on drug candidates which are in the later stages of drug development and are being evaluated in clinical trials. The series, therefore,

highlights the importance of natural products in our lives. The second volume covers the following topics: - A review of recent patents and natural products in clinical trials to treat schistosomiasis - Natural products: the new intervention regimen for metabolic disorders - Fluorine-containing drugs and drug candidates derived from natural products - Natural products for the management of cardiovascular diseases - Implication of natural compounds for the prevention of ocular diseases.

Knowledge of plant toxicity has always been important, but the information has not always been reliable. Now, increasing international trade is drawing attention to the inadequacy of regional information and highlighting the geographical fragmentation and notorious discrepancies of thinly documented information. The international community of safety regulators, toxicologists, and poison control personnel requires a single reference compiled of verifiable, primary source reports of common poisonous plants. Intended for just that purpose, International Poisonous Plant Checklist: An Evidence-Based Reference successfully addresses the deficiencies and gaps in the current literature. Using accepted botanic names, the book defines the known set of toxic vascular plants. The use of botanic names satisfies the need for an international standard of identity to support worldwide communication and commerce. Also, taxonomy based on common ancestry and genetic connections provides a rational basis for studying and using plant relationships. The author supports toxicity information with references to the primary literature. Each entry includes referenced citations supporting the toxicity of the plant, symptoms and circumstances of toxic exposure, dosage and potency, chemical analysis, botany, pharmacology, mechanism and metabolism, and control. Finally, the book cross-references selected synonyms and common names. The checklist is organized alphabetically with two types of entries. The main entry documents the toxic plants themselves and a secondary entry lists selected synonyms and common names cross-referenced to the main entries. Including virtually all common animal feed plants, human food plants, and many plants that are sources of herbal products and dietary supplements, tonics, and therapeutic agents, this timely checklist compiles and verifies the known data on toxic vascular plants from around the world.

Covers the structurally diverse secondary metabolites of medicinal plants, including their ethnopharmacological properties, biological activity, and production strategies Secondary metabolites of plants are a treasure trove of novel compounds with potential pharmaceutical applications. Consequently, the nature of these metabolites as well as strategies for the targeted expression and/or purification is of high interest. Regarding their biological and pharmacological activity and ethnopharmacological properties, this book offers a comprehensive treatment of 100 plant species, including Abutilon, Aloe, Cannabis, Capsicum, Jasminum, Malva, Phyllanthus, Stellaria, Thymus, Vitis, Zingiber, and more. It also discusses the cell culture conditions and various strategies used for enhancing the production of targeted metabolites in plant cell cultures. Secondary Metabolites of Medicinal Plants: Ethnopharmacological Properties, Biological Activity and Production Strategies is presented in four parts. Part I provides a complete introduction to the subject. Part II looks at the ethnomedicinal and pharmacological properties, chemical structures, and culture conditions of secondary metabolites. The third part examines the many strategies of secondary metabolites production, including: biotransformation; culture conditions; feeding of precursors; genetic transformation; immobilization; and oxygenation. The last section concludes with an overview of everything learned. -Provides information on cell culture conditions and targeted extraction of secondary metabolites confirmed by relevant literature -Presents the structures of secondary metabolites of 100 plant species together with their biological and pharmacological activity -Discusses plant species regarding their distribution, habitat, and ethnopharmacological properties -Presents strategies of secondary metabolites production, such as organ culture,

pH, elicitation, hairy root cultures, light, and mutagenesis Secondary Metabolites of Medicinal Plants is an important book for students, professionals, and biotechnologists interested in the biological and pharmacological activity and ethnopharmacological properties of plants. This book comprises select proceedings of the International Conference on Latest Innovations in Materials Engineering and Technology (ICLIET 2018). The book focuses on diverse engineering materials, their design and applications. The materials in discussion include those related to coatings, polymers, composites, tribology, acoustic insulators, lubricants, and cryogenics. The book also highlights emerging nano and micro materials, bio engineering materials, as well as new energy materials for solar cells and photovoltaic cells. This book will serve as an useful reference for students, researchers, and professionals working in the field of materials science and engineering.

Evidence-Based Validation of Herbal Medicines brings together current thinking and practice in the areas of characterization and validation of natural products. This book reviews all aspects of evaluation and development of medicines from plant sources, including their cultivation, collection, phytochemical and phyto-pharmacological evaluation, and therapeutic potential. Emphasis is placed on describing the full range of evidence-based analytical and bio-analytical techniques used to characterize natural products, including –omic technologies, phyto-chemical analysis, hyphenated techniques, and many more. Includes state-of-the-art methods for detecting, isolating, and performing structure elucidation by degradation and spectroscopic techniques Covers biosynthesis, synthesis, and biological activity related to natural products Consolidates information to save time and money in research Increases confidence levels in quality and validity of natural products

Green synthesis is an emerging method for deriving nanoparticles present in natural plants for use in nanomedicine. Written by experts in the field, Green Synthesis in Nanomedicine and Human Health showcases the exciting developments of this specialty and its potential for promoting human health and well-being. This book gives practical information on novel preparation methods for identifying nanoparticles present in natural plants. It discusses applications of nanoparticles in combating communicable, non-communicable and vector-borne diseases. It also explores the potential for nanoparticles to combat antimicrobial resistance through improvements in treatment methods, diagnostics and drug delivery systems. Features scientific evidence of opportunities for integrating indigenous flora into nanomedicine to develop cost-effective therapeutic and diagnostic solutions for diseases, including cancer, tuberculosis, malaria and diabetes. Places green synthesis and nanomedicine in the African orthodox and traditional healthcare context. Provides policymakers with scientific evidence to inform policies for controlling or mitigating dangerous diseases. This book is essential reading for students, scientists, policymakers and practitioners of nanotechnology, and will appeal to anyone with an interest in integrating traditional African healthcare and Western medicine. This book reviews recent research advances in sustainable agriculture, with focus on crop production, biodiversity and biofuels in Africa and Asia.

Unconventional Oilseeds and New Oil Sources: Chemistry and Analysis is presented in three parts, with each section dedicated to different types of oil sources. Part One deals with plants (vegetable, herbs, shrubs), such as Hibiscus, Mexican Poppy, Cucumber, Squashes, Sesame, etc. Part Two presents unconventional oils found in trees (like *Balanites aegyptiaca*, *Annona squamosa* and *Catunaregam nilotica*), and Part Three deals with new oils found in insects, as in the water melon bug and sorghum bug. This book will be of interest to researchers in oilseed production, research and development personnel, food scientists, plant breeders, product development personnel, and government agency personnel involved in the production, transportation, distribution, and processing of oilseeds. Compiles information on unconventional oilseeds and new sources of oil found worldwide, including those

from plants (vegetables, herbs, shrubs), trees, and insects Presents the physico-chemical properties of the seed oils, in addition to their mineral compositions and chemical analyses Thoroughly explores the chemistry of new oils, their composition, bioactive compounds, such as fatty acids, tocopherols, and sterols Introduces the composition of new oil sources, their content of minor and bioactive components, and the most used official methods for analysis

Unconventional Oilseeds and Oil Sources Academic Press

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.

Indian Medicinal Plant Seeds provides data about the seeds of 150 Indian medicinal plants at a glance, giving the readers a quick handy view on the information about a particular seed of interest. This book attempts to quench one's thirst of medicinal plants seeds identification and their medicinal importance. This book will be an invaluable asset for people who need information about seeds exclusively, different from the normal trend of focusing on the leaves and flowers of a plant. The book dwells on seeds of medicinal plants and their traditional uses. The author provides a comprehensive and scientifically accurate guide to the best-known and most important 150 medicinal plants seeds. Each entry gives a short summary of each seed with a description of the plant, the distribution, therapeutic category, historical and modern uses, active ingredients, and pharmacological effects of the seeds. 150 full- colour photographs assist in the identification of the plants seeds. It will be a valuable reference guide for health care professionals, students, researchers, botanists, and especially pharmacists - or anyone with an interest in seeds of medicinal plants and their uses.

The book provides valuable information on wild plants and their ethnopharmacological properties, discussion on ethnobotany, phytotherapy, diversity, chemical and pharmacological properties including antifungal, anti-inflammatory and antiprotozoal properties. The chapters include a wide range of case studies, giving updated evidence on importance of wild plant resources from different countries including Nepal, India, Brazil, Chile, Argentina, Colombia, Egypt, Peru, etc. In addition, some specific species are used to explain their potential properties. Discussing traditional usage and pharmacological properties of wild plants, this book is entirely different from other related publications and useful for the researchers working in the areas of conservation biology, botany, ethnobiology, ethnopharmacology, policy making, etc.

This work presents a systematic review of traditional herbal medicine and their active compounds, as well as their mechanism of

action in the prevention and treatment of diabetes and obesity. The side effects and safety of herbal-derived anti-diabetic and anti-obesity phytochemicals are detailed in depth, and the text has a strong focus on current and future trends in anti-diabetic medicinal plants. This unique and comprehensive text is the only current book on the market focusing exclusively on medicinal plants used to combat obesity and diabetes. An introductory chapter focuses on diabetes and obesity and introduces the major causes and main treatments of this increasing epidemic in modern society. Readers are then introduced to medicinal plants, including details on their therapeutic aspects, plus side effects and safety. Following chapters focus on anti-diabetic and anti-obesity medicinal plants, as well as phytochemical natural products in the treatment of each. The text closes by focusing on present and future trends and challenges in these medicinal plants. *Anti-diabetes and Anti-obesity Medicinal Plants and Phytochemicals: Safety, Efficacy, and Action Mechanisms* is a much-needed and truly original work, finally presenting in one place all the necessary information on medicinal plants used in conjunction with obesity and diabetes prevention.

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