

# **Ebook free Brahmi ghrita a neuroprotective polyherbal formula for brain diseases a novel study on neuroinflammation and neurodegeneration (2023)**

Medicinal Herbs and Fungi Recent Advances in Natural Products Science Nutraceuticals in Brain Health and Beyond Neuroprotective Natural Products Medicinal Plants used in Traditional Persian Medicine Psychoactive Herbs in Veterinary Behavior Medicine Plant Bioactives as Natural Panacea against Age-Induced Diseases Bioactive Food as Dietary Interventions for Arthritis and Related Inflammatory Diseases Indopathy for Neuroprotection: Recent Advances Herbal Medicine in India From Oxidative Stress to Cognitive Decline - Towards Novel Therapeutic Approaches Phytomedicine and Alzheimer's Disease Application of Biomedical Engineering in Neuroscience Micropropagation of Medicinal Plants: Volume 2 Ayurvedic Herbal Preparations in Neurological Disorders Bioactive Natural products in Drug Discovery Herbal Drugs: Ethnomedicine to Modern Medicine Concepts in Pharmaceutical Biotechnology and Drug Development Natural Medicines Phytochemical Omics in Medicinal Plants Gut Microbiota in Neurologic and Visceral Diseases Applications of Functional Foods and Nutraceuticals for Chronic Diseases Genetics, Neurology, Behavior, and Diet in Parkinson's Disease The Neuroscience of Parkinson's Disease Free Radical Research in Cancer Inflammation and Natural Products Treatments, Nutraceuticals, Supplements, and Herbal Medicine in Neurological Disorders Oxidative Stress and Dietary Antioxidants in Neurological Diseases Plant Metabolites and Vegetables as Nutraceuticals Holistic Approaches to Infectious Diseases Medicinal Plants Fertility, Pregnancy, and Wellness Bioactive Lipids New Age Herbals Natural Product Experiments in Drug Discovery Bioactive Compounds in Nutraceutical and Functional Food for Good Human Health The Therapeutic Properties of Medicinal Plants The Benefits of Natural Products for Neurodegenerative Diseases Phytochemicals and Medicinal Plants in Food Design Chronic Wound Management

Medicinal Herbs and Fungi 2021-01-21 the ever rising increase in the consumption of medicinal herbs and its products and its exposure in the human population have generated concerns about the potential neurotoxicity of several new and existing botanicals this book offers an accurate relevant and comprehensive coverage of a wide variety of medicinal herbs and fungi affecting the central and peripheral nervous system it includes review articles that thoroughly describe the benefits and adverse effects of some of the most commonly used medicinal herbs and fungi and the pathophysiological mechanisms underlying them the book provides an all inclusive overview of the diverse aspects of medicinal herbs and fungi related to neurotoxicity and or neuroprotection ranging from discussions of cellular and molecular processes and pathology to clinical aspects the rich compilation brings together thorough and extensive research updates on the advances in the field the chapters have been contributed by the experienced and eminent academicians researchers and scientists working in the field across the globe

**Recent Advances in Natural Products Science** 2022-07-21 this book provides a summarized information related to the global herbal drug market and its regulations ethnopharmacology of traditional crude drugs isolation of phytopharmaceuticals phytochemistry standardization and quality assessment of crude drugs natural products science has constantly been developing with comprehensive data contemplating different parts of natural drugs such as global trade quality control and regulatory concerns traditional medicine systems production and utilization of drugs and utilization of medicinal and aromatic plants this broad information about crude drugs gives rise to a subject that is now recognized as advance natural products science by contemplating all of this thorough knowledge of the areas this book is intended to provide considerably to the natural products science the area of natural products science involves a broad range of topics such as the pharmacognostical phytochemical and ethno pharmacological aspects of crude drugs each chapter gives a sufficient understanding to academicians and researchers in the respective topic this book includes 40 illustrations and descriptions of roughly 80 medicinal plants used for herbal medicine the book is an imperative source for all researchers academicians students and those interested in natural products science features includes advance knowledge and detailed developments in natural products science discusses the most important phytopharmaceuticals used in the pharmaceutical industry explores the analysis and classification of novel plant based medicinal compounds includes standardization quality control and global trade of natural products gives a deep understanding related to recent advances in herbal medicines to treat various ailments discusses national and who regulations and policies related to herbal medicines covers the complete profile of some important traditional medicinal plants especially their historical background biology and chemistry

**Nutraceuticals in Brain Health and Beyond** 2020-11-12 nutraceuticals in brain health and beyond focuses on a variety of health disorders where intervention with nutritional supplements prove valuable such as alzheimer s parkinson s autism and attention deficit disorder in children in addition nutraceuticals in brain health and beyond addresses herb nutra psychiatry which is a field of research focused on developing a comprehensive cohesive and scientifically rigorous evidence base to shift conceptual thinking around the role of diet and nutrition in mental health intended for nutrition researchers nutritionists dieticians regulatory bodies health professionals and students studying related fields nutraceuticals in brain health and beyond will be a useful reference in understanding the links between nutrition and brain health addresses nutritional psychiatry and cognitive health at all stages of the lifespan contains extensive coverage of vitamins minerals botanicals and other nutrients offers novel insight into cognitive dysfunctions including depression and other neurodegenerative disorders explores the role of genomics and epigenetics including discussion of the gut brain axis

**Neuroprotective Natural Products** 2017-06-19 focusing on the molecular mechanisms of powerful naturally occurring agents and their implication for drug discovery this timely book presents an overview of the most recent research advances in the field of bioactive natural products and natural drug formulations to combat today s destructive diseases to this extent the authors discuss the most severe neurological disorders in our modern civilization such as alzheimer s parkinson s and huntington s disease as well as ischemic brain stroke and depression the emerging diversity of active compounds is covered in detail including flavonoids cannabinoids and oleanolic acid while experts in the field explain the chemistry mode of action and clinical aspects of novel neuroprotective natural products in each case the benefits of treatments using natural products are addressed from the perspective of modern as well as traditional medicine with its multidisciplinary viewpoint this is the ideal companion for medicinal and natural products chemists as well as neuroscientists biochemists pharmacologists neurobiologists and phytotherapists

**Medicinal Plants used in Traditional Persian Medicine** 2023-10-06 medicinal plants and the natural products within them still remain the starting point for

breakthroughs in the development of safe pharmacologically active synthetic molecules for use in a wide variety of clinical situations traditional persian medicine tpm is one of the most ancient medical doctrines and is well documented in terms of information about diseases diagnoses and treatments especially in the application of medicinal plants tpm has been used for centuries worldwide and many of these methods are still used in iran today the book introduces the basics of tpm and describes the key medicinal plants used for the treatment of different diseases it also highlights possible new targets for research activities in drug discovery of natural products the book is richly illustrated with historic drawings from old persian pharmacopoeia and photos of plants in their natural habitats reference to ayurvedic traditional chinese medicine and monastic medicine in europe are also made this book provides a valuable evidence based resource on tpm for researchers practitioners and students in medicinal plants ethnobotany and herbal medicine

*Psychoactive Herbs in Veterinary Behavior Medicine* 2008-01-09 the phenomenal growth of public interest in alternatives to western treatments for human disease has spilled over into veterinary medicine many holistic veterinarians and pet owners are now interested in using alternative remedies to solve health problems with their pets psychoactive herbs in veterinary behavior medicine is the first text on psychoactive herbal remedies for the treatment of behavior problems in small animals psychoactive herbs in veterinary behavior medicine is an important guide for board certified veterinary behaviorists as well as veterinarians and veterinary students with a particular interest in behavior medicine in addition pet owners interested in alternative medicine for their misbehaving pets can use this well rounded work to make informed decisions on the use of over the counter remedies

*Plant Bioactives as Natural Panacea against Age-Induced Diseases* 2022-10-17 plant bioactives as natural panacea against age induced diseases nutraceuticals and functional lead compounds for drug development presents comprehensive information on the complications of aging and the bioactive phytochemicals that in specific herbal formulations including beverages can mitigate them the book extensively describes the current information on the role of plant bioactive components in delaying or preventing the aging process and associated complications while also covering different strategies and scientific evidence of possible synergistic effects of these studies enabling the formulation of more effective natural drugs to intervene in aging and associated events chapters cover the broad areas of plant bioactive compounds in promoting healthy aging and longevity including balancing glucose homeostasis in cognitive impairments age related diseases food trends and the anti aging diet in asia and other regions as well as the social and economic impact of dietary patterns in aging interventions written by a team of global experts describes plant bioactives for specific age disorders focuses on the discovery of new herbal origin drugs and potential druggable targets for the treatment of chronic diseases of world importance includes cutting edge research information on cell senescence during aging and assesses the plant bioactive compounds

**Bioactive Food as Dietary Interventions for Arthritis and Related Inflammatory Diseases** 2019-01-26 bioactive food as dietary interventions for arthritis and inflammatory diseases second edition is a valuable scientific resource that focuses on the latest advances in bioactive food research and the potential benefit of bioactive food choice on arthritis written by experts from around the world the book presents important information that can help improve the health of those at risk for arthritis and related conditions using food selection as its foundation serves as a starting point for in depth discussions in academic settings offers detailed well documented reviews outlining the ability of bioactive foods to improve and treat arthritis includes updated research on the global epidemic of diabetes updated with current research on antioxidant flavonoids anti inflammatory natural foods ginger and the effects of beef on inflammation documents foods that can affect metabolic syndrome and ways the associated information could be used to understand other diseases that share common etiological pathways

**Indopathy for Neuroprotection: Recent Advances** 2022-12-07 degenerative nerve diseases are age related progressive and cause irreversible neurological loss that may lead too death chronic diseases like amyotrophic lateral sclerosis huntington s disease alzheimer s disease and parkinson s disease are associated with insoluble protein depositions and pose serious health challenges that may intensify in the coming decades current therapies only help to alleviate some of the physical or mental symptoms associated with neurodegenerative diseases although there is currently no remedy for slow disease progression in recent years attempts have been made to discover a mechanism for neurodegenerative diseases and prospective treatment that may help mitigate aging effects and prevent these diseases natural products have been a constant source of new approaches for the treatment of neurodegenerative diseases in particular plant alkaloids and polyphenolic compounds indopathy for neuroprotection recent advances highlights herbal treatments that are preferred over conventional treatments in some regions book chapters focus on the effects of various medicinal plants that have shown promise in reversing pathological symptoms of neurodegenerative disease and highlight the neuroprotective role of medicinal herbal phytochemicals and their mechanism of action the book serves as a reference for pharmacology and

herbal medicine scholars as well as healthcare workers interested in information about alternative and complementary therapies for neurological disorders

*Herbal Medicine in India* 2019-09-10 this book highlights the medical importance of and increasing global interest in herbal medicines herbal health products herbal pharmaceuticals nutraceuticals food supplements herbal cosmetics etc it also addresses various issues that are hampering the advancement of indian herbal medicine around the globe these include quality concerns and quality control pharmacovigilance scientific investigation and validation ipr and biopiracy and the challenge that various indigenous systems of medicine are at risk of being lost the book also explores the role of traditional medicine in providing new functional leads and modern approaches that can offer elegant strategies for facilitating the drug discovery process the book also provides in depth information on various traditional medicinal systems in india and discusses their medical importance india has a very long history of safely using many herbal drugs folk medicine is also a key source of medical knowledge and plays a vital role in maintaining health in rural and remote areas despite its importance this form of medicine largely remains under investigated out of all the traditional medicinal systems used worldwide indian traditional medicine holds a unique position as it has continued to deliver healthcare throughout the asian subcontinent since ancient times in addition traditional medicine has been used to derive advanced techniques and investigate many modern drugs given the scope of its coverage the book offers a valuable resource for scientists and researchers exploring traditional and herbal medicine as well as graduate students in courses on traditional medicine herbal medicine and pharmacy

**From Oxidative Stress to Cognitive Decline - Towards Novel Therapeutic Approaches** 2023-09-01 oxidative stress plays multiple roles in the pathobiology of several neurodegenerative disorders and alzheimer s disease in particular increased oxidative stress in the brain is suggested to be associated with aging greater amounts of easily oxidizable unsaturated fatty acids higher utilization of oxygen by the brain mitochondrial derived free radicals calcium homeostasis and glutamate induced excitotoxicity moreover environmental chemicals toxins heavy metals and an imbalanced diet might increase oxidative stress potentially leading to a decrease in cognitive functions cellular health is also dependent on the levels of nicotinamide adenine dinucleotide nad it has been well documented that nad is an important coenzyme for over 400 different oxidoreductases and turns out to be a relevant factor to the oxidative stress in the brain since the last two decades nad has been shown to be more than a mere regulator of metabolism but rather may play a key role in the aging process nad along with sirtuins are important for various neurophysiological functions and depletion of nad may be associated with compromised physiological and cognitive functions to protect the brain from oxidative stress a modest endogenous protective system works in the brain through dedicated enzymatic machinery key enzymes are superoxide dismutase and catalase which provide protection against oxidative stress aging various neurological disorders and chronic inflammation might also affect the levels of these protective enzymes and reduce their levels natural compounds including polyphenols can offer protection through nad and various other mechanisms based on these factors it is becoming more and more clear that oxidative stress and its devastating effects on cognitive decline represents a major health issue in neurobiology there is a need to identify potential compounds and therapeutic targets for mitigating oxidative stress and or to strengthen the protective endogenous mechanisms novel approaches aiming to support and provide protective mechanisms in the brain will represent a great success in therapeutics we welcome all article types focusing on the analysis and investigation of oxidative stress originated from different sources and its impairing effects on the brain we will also accept studies investigating naturally occurring compounds standard medications and nutraceuticals that have an impact on oxidative stress nad metabolism and medical and health applications for this the aim of this research topic is to provide novel insights on oxidative stress induced by any mechanism impact on brain health and on the strengthening of brain protective mechanisms supporting cognitive functions

**Phytomedicine and Alzheimer's Disease** 2020-10-25 alzheimer s disease one of the most rapidly growing neurodegenerative disorders is characterized by a progressive loss of memory despite several advances in the field of medical therapeutics a viable treatment for alzheimer s disease would be of great importance medicinal plants represent a largely untapped reservoir of natural medicines and potential sources of anti alzheimer s drugs the structural diversity of their phytoconstituents makes these plants a valuable source of novel lead compounds in the quest for drugs to treat alzheimer s disease based on traditional literature and up to date research various new therapeutically active compounds have been identified from phytoextracts which could be useful in the treatment of cognitive disorders phytomedicine and alzheimer s disease presents information on mechanistic aspects of neurodegeneration in alzheimer s disease and the role of phytochemicals as restorative agents understanding the complex biochemical aspects of alzheimer s disease pre clinical approaches to evaluating drugs to target alzheimer s disease assessing alternative approaches to treating alzheimer s disease and the role of alternative medicine to delay the symptomatic progression of

this disease epigenetic changes in alzheimer s disease and possible therapeutic or dietary interventions this book serves as an excellent resource for scientific investigators academics biochemists botanists and alternative medicine practitioners who work to advance the role of phytomedicines in treating alzheimer s disease

**Application of Biomedical Engineering in Neuroscience** 2019-11-19 this book focuses on interdisciplinary research in the field of biomedical engineering and neuroscience biomedical engineering is a vast field ranging from bioengineering to brain computer interfaces the book explores the system level function and dysfunction of the nervous system from scientific and engineering perspectives the initial sections introduce readers to the physiology of the brain and to the biomedical tools needed for diagnostics and effective therapies for various neurodegenerative and regenerative disorders in turn the book summarizes the biomedical interventions that are used to understand the neural mechanisms underlying empathy disorders and reviews recent advances in biomedical engineering for rehabilitation in connection with neurodevelopmental disorders and brain injuries lastly the book discusses innovations in machine learning and artificial intelligence for computer aided disease diagnosis and treatment as well as applications of nanotechnology in therapeutic neurology

**Micropropagation of Medicinal Plants: Volume 2** 2024-03-29 this volume presents information about protocols for micropropagation of more than 40 species of medicinal plants the contents combine knowledge about the scientific principles of micropropagation with state of the art updates in tissue culture techniques presented by plant scientists the readers will learn about techniques required to grow plants in challenging conditions that aim to reduce the impacts of injudicious harvesting deforestation climate change pollution urbanization and other factors that limit the ability to meet current demand general topics such as biotization and pharmaceutical investigation are also included to guide readers about the significance of these plants in research and development for new medicines the book provides protocols for micropropagation of important medicinal plants like rauwolfia serpentina catharanthus roseus withania somnifera tylophora indica bacopa monnieri aloe vera phyllanthus amarus allium sativum moringa oleifera operculina turpethum glycyrrhiza glabra pterocarpus marsupium vetiver grass ruta graveolens tinospora cordifolia kaempferia hedychium decalepis hamiltonii saraca asoca wrightia tinctoria wrightia arborea artemisia absinthium aegle marmelos atropa acuminata atropa belladonna alpinia species hedychium species and cissus species this book is a handy reference for medicinal chemists horticulturists and pharmacists who want to learn about the growth and conservation of important medicinal herbs and plants

**Ayurvedic Herbal Preparations in Neurological Disorders** 2023-08-07 ayurvedic herbal preparations in neurological disorders provides a comprehensive and mechanistic understanding of the therapeutic potential of many ayurvedic herbal preparations in disease management examining research data for evidence based ayurvedic approaches this volume begins with a focused introduction to major ayurvedic plants discussing various mechanisms underlying their neuromodulatory potential in preclinical and clinical settings major subsets of ayurvedic plants are discussed including bacopa monnieri centella asiatica withania somnifera and others this volume outlines the importance of integrative approaches along with existing treatments in the intervention management of alzheimer s disease parkinson s disease depressive mood disorders epilepsy schizophrenia and more more than a mere compilation of studies this volume identifies relevant gaps for future research avenues and encourages interdisciplinary collaboration and sharing of knowledge to together identify the most efficacious ayurvedic approaches highlighting recent developments e g ayurgenomics ayurahar and other pertinent research for neuroprotection this book is crucial for anyone researching or working in the field of neurological disorder treatment and prevention provides a focused introduction to major ayurvedic plants and their therapeutic potential in the management of neurodegenerative diseases discusses various mechanisms underlying the neuromodulatory potential of several ayurvedic herbal preparations in preclinical and clinical settings examines major subsets of ayurvedic plants e g bacopa monnieri centella asiatica withaniasomnifera and others and potential of several other plants in various neurological disorders outlines the importance of integrative approaches along with existing treatments in the intervention management of depressive mood disorders epilepsy schizophrenia and more highlights recent developments e g ayurgenomics ayurahar and other pertinent research for neuroprotection

**Bioactive Natural products in Drug Discovery** 2020-04-30 this book highlights different natural products that are derived from the plants and microbes that have shown potential as the lead compounds against infectious diseases and cancer natural products represent an untapped source of strikingly diverse chemotypes with novel mechanisms of action and the potential to serve as anticancer and anti infective agents the book discusses a range of biotechnologically valuable bioactive

compounds and secondary metabolites that have been derived from plant and microorganisms from various ecological niches it also reviews the latest developments in the field of genomics bioinformatics and industrial fermentation for harnessing the microbial products for commercial applications in turn the book s closing section reviews important biotechnological applications of various natural products combining the expertise of specialists in this field the book s goal is to promote the further investigation of natural sources for the development of standardized safe and effective therapies

**Herbal Drugs: Ethnomedicine to Modern Medicine** 2008-11-25 considerable progress has been made in our healthcare system in particular with respect to sensitive diagnostic tools reagents and very effective and precise drugs on the other hand high throughput screening technology can screen vast numbers of compounds against an array of targets in a very short time and leads thus tained can be further explored in developing countries the exploding population exerts pressure not only on natural resources but also on the human population self whose members strive to become successful and advance in society this leads to increased blood pressure anxiety obesity associated lipid disorders cardiovascular diseases and diabetes most of these diseases result in disturbed family life including sexual behaviour despite technological developments herbal drugs still occupy a preferential place in a majority of the population in the third world and terminal patients in the west herbal drugs in addition to being cost effective and easily accessible have been used since time immemorial and have passed the test of time without having any side effects the multitarget effects of herbs holistic approaches are the fun mental basis of their utilization this approach is already used in traditional systems of medicine like ayurveda which has become more popular in the west in recent years however the integration of modern science with traditional uses of herbal drugs is of the utmost importance if ones wishes to use ancient knowledge for the betterment of humanity

Concepts in Pharmaceutical Biotechnology and Drug Development 2019-07-18 globally natural medicine has been considered as an important alternative to modern allopathic medicine although natural medicines are popular in society only limited medicinal herbs have been scientifically evaluated for their potential in medical treatment this book connects various aspects of the complex journey from traditional medicine to modern medicine it provides information on topics including global regulations and regulatory hurdles diverse nutritional challenges and potential health benefits novel food innovations especially seed to clinic approaches and future trends features provides information on sustainable use of natural products in the development of new drugs and clinically validated herbal remedies discusses issues on evaluation and clinical aspects of herbal medicine promotion and development safety evaluation metabolite profiling biomarker analysis formulation and stability testing describes traditional uses of natural medicine through identification isolation and structural characterization of their active components elucidates mechanisms of biological action adverse effects and identification of their molecular targets of natural medicine multidisciplinary appeal including chemistry pharmacology pharmacognosy and cell and molecular biology as well as integration with clinical medicine this book serves as an essential guide for individuals researching natural medicines and industry employees in areas including drug development pharmacology natural products chemistry clinical efficacy ethnopharmacology pharmacognosy phytotherapy phyto technology and herbal science

**Natural Medicines** 2021-08-18 medicinal plants are used to treat diseases and provide health benefits and their applications are increasing around the world a huge array of phytochemicals have been identified from medicinal plants belonging to carotenoids flavonoids lignans and phenolic acids and so on with a wide range of biological activities in order to explore our knowledge of phytochemicals with the assistance of modern molecular tools and high throughput technologies this book collects recent innovative original research and review articles on subtopics of mechanistic insights into bioactivities treatment of diseases profiling extraction and identification and biotechnology

Phytochemical Omics in Medicinal Plants 2021-03-11 gut microbiota in neurologic and visceral diseases presents readers with comprehensive information on the involvement of microbiota in the pathogenesis of neurological disorders chapters cover the effect of microbiota on the development of visceral obesity type 2 diabetes heart disease and neurological disorders alzheimer s disease parkinson s depression anxiety and autism sections focus on the molecular mechanisms and signal transduction processes associated with the links among microbiota related visceral and neurological disorders it is hoped that this discussion will not only integrate and consolidate knowledge in this field but will also jumpstart more studies on the involvement of microbiota in the pathogenesis of neurological disorders reviews the relationship between gut microbiome diseases and disorders discusses the relationship between diet microbiota and inflammation includes neurodegenerative neuropsychiatric and cardiovascular disorders covers diabetes obesity and metabolic disorders identifies molecular mechanisms and signal transduction processes encompasses dietary fiber fat prebiotics and probiotics



**Gut Microbiota in Neurologic and Visceral Diseases** 2023-02-09 while disease is inevitable in humankind the current century has been burdened with many chronic diseases most of which are lifestyle mediated and which in part can be controlled by consuming foods with specific functions functional foods are a special category of natural food or nutrient derived pharmaceutical products containing beneficial biochemicals and phytochemicals beyond their basic nutritional functions the first of two volumes applications of functional foods and nutraceuticals for chronic diseases collects information on the association between functional and chronic diseases the burden of escalating chronic diseases is discussed in the first chapter and the remaining fourteen chapters summarize the effect of functional foods on a range of chronic diseases key features discusses the clinical application of functional foods for the management of a wide range of chronic diseases covers chronic diseases including obesity arthritis cardiovascular diseases and endocrinal and hormonal diseases among others explores beneficial effects of nutraceuticals on chronic diseases contributors hail from different geographical locations around the world and have many years of research and scholarly experience in functional foods nutraceuticals and biology the world s leading wellness centers for chronic diseases are using functional foods and nutraceuticals in their practice and discovering their useful applications and this book is a great reference for practitioners scientists and clinicians in the management of chronic diseases

**Applications of Functional Foods and Nutraceuticals for Chronic Diseases** 2020-08-13 genetics neurology behavior and diet in parkinson s disease the neuroscience of parkinson s disease volume 2 provides a single source of material covering different scientific domains of neuropathology underlying this condition the book covers a wide range of subjects and unravels the complex relationships between genetics molecular biology pharmaceutical chemistry neurobiology imaging assessments and treatment regimens it fills a much needed gap as a one stop synopsis of everything to do with the neurology and neuroscience related to parkinson s disease from chemicals and cells to individuals it is an invaluable resource for neuroscientists neurologists and anyone in the field offers the most comprehensive coverage of a broad range of topics related to parkinson s disease serves as a foundational collection for neuroscientists and neurologists on the biology of disease and brain dysfunction contains in each chapter an abstract key facts mini dictionary of terms and summary points to aid in understanding features preclinical and clinical studies to help researchers map out key areas for research and further clinical recommendations serves as a one stop source for everything you need to know about parkinson s disease

Genetics, Neurology, Behavior, and Diet in Parkinson's Disease 2020-12-21 the neuroscience of parkinson s disease two volume set provides a single source of material covering different scientific domains of neuropathology underlying this condition the book covers a wide range of subjects and unravels the complex relationships between genetics molecular biology pharmaceutical chemistry neurobiology imaging assessments and treatment regimens the book also fills a much needed gap as a one stop synopsis of everything to do with the neurology and neuroscience related to parkinson s disease from chemicals and cells to individuals it is an invaluable resource for neuroscientists neurologists and anyone in the field offers the most comprehensive coverage of a broad range of topics related to parkinson s disease serves as a foundational collection for neuroscientists and neurologists on the biology of disease and brain dysfunction contains in each chapter an abstract key facts mini dictionary of terms and summary points to aid in understanding features preclinical and clinical studies to help researchers map out key areas for research and further clinical recommendations serves as a one stop source for everything you need to know about parkinson s disease

**The Neuroscience of Parkinson's Disease** 2020-06-18 cancer is a great challenge to efficient therapy due to biological diversity disturbed oxidative homeostasis in cancer cells certainly contributes to differential therapy response further one of the hallmarks of cancer cells is adaptation which includes fine tuning of the cellular metabolic and signalling pathways as well as transcription profiles there are several factors which contribute to the tumor diversity and therapy response and oxidative stress is certainly one of them changes in oxygen levels due to hypoxia reoxygenation during tumor growth modulate antioxidative patterns finally supporting increased cell diversity and adaptation to stressing conditions additionally cancer chemotherapy based on ros production can also induce also adaptation to counteract these negative effects natural products are often used for their antioxidant activities as well as photodynamic therapy supported by novel chemosensitizers understanding of possible pathways which can trigger antioxidant defence at a certain time during cancer development can also provide possible strategies in fighting cancer

**Free Radical Research in Cancer** 2021-01-19 approx 446 pages approx 446 pages

**Inflammation and Natural Products** 2023-06-07 treatments nutraceuticals supplements and herbal medicine in neurological disorders offers readers a comprehensive reference on their potential for treatment in a wide variety of neurological diseases spanning various types of these compounds this broad coverage allows readers to learn about the use of nutraceuticals and botanicals alone or in combination with other dietary regimes and or vitamins and minerals it covers diseases including alzheimer s parkinson s als and ms and severe neurological conditions including brain injury stroke headache and migraine this volume provides a platform for research on nutraceuticals and botanical agents and on future investigations of these compounds there are over 600 neurological disorders affecting both the central and peripheral nervous systems some of which have been treated by nutraceuticals and herbal medicine hence this is a timely resource on the topics covered summarizes nutraceutical and herbal medicine research for a variety of neurological conditions contains chapter abstracts key facts a dictionary and a summary covers nutraceutical and botanical use in alzheimer s parkinson s als ms and more includes conditions like migraine headache stroke and brain injury

*Treatments, Nutraceuticals, Supplements, and Herbal Medicine in Neurological Disorders* 2020-06-12 oxidative stress and dietary antioxidants in neurological diseases provides an overview of oxidative stress in neurological diseases and associated conditions including behavioral aspects and the potentially therapeutic usage of natural antioxidants in the diet the processes within the science of oxidative stress are described in concert with other processes such as apoptosis cell signaling and receptor mediated responses this approach recognizes that diseases are often multifactorial and oxidative stress is a single component of this the book examines basic processes of oxidative stress from molecular biology to whole organs relative to cellular defense systems and across a range of neurological diseases sections discuss antioxidants in foods including plants and components of the diet examining the underlying mechanisms associated with therapeutic potential and clinical applications although some of this material is exploratory or preclinical it can provide the framework for further in depth analysis or studies via well designed clinical trials or the analysis of pathways mechanisms and components in order to devise new therapeutic strategies very often oxidative stress is a feature of neurological disease and associated conditions which either centers on or around molecular and cellular processes oxidative stress can also arise due to nutritional imbalance during a spectrum of timeframes before the onset of disease or during its development offers an overview of oxidative stress from molecular biology to whole organs discusses the potentially therapeutic usage of natural antioxidants in the patient diet provides the framework for further in depth analysis or studies of potential treatments

**Oxidative Stress and Dietary Antioxidants in Neurological Diseases** 2024-08-23 this volume explores vegetables and plant metabolites as nutraceuticals that provide nutritional importance in the prevention and or treatment of human diseases and for maintaining the body s energy balance key features considers applications and implications of plant metabolites and vegetables as nutraceuticals in healthcare discusses the mechanisms of plant metabolites and vegetables to support the prevention and treatment of cancer gout heart disease liver disease parkinson s and other brain diseases and gastrointestinal disease explores the role of phytochemicals bioactive compounds as nutraceuticals in healthcare looks at the relationship between eating fruits and vegetables and the incidence of serious and chronic diseases with contributions from renowned scientists and researchers around the globe the volume provides up to date information that offers insights on the value of plant metabolites and vegetables as nutraceuticals that will be of interest to academicians scientists researchers and industry professionals worldwide

*Plant Metabolites and Vegetables as Nutraceuticals* 2017-03-16 this book takes a holistic approach to the prevention and control of infectious diseases from enteric pathogens covering different concepts and approaches to address these challenging diseases with special emphasis on hiv and aids it examines several different approaches such as ayurvedic bioinformatic and fungal and metal based treatment of diseases in the first section the remaining chapters fully focus on various approaches specifically to hiv and aids one of the most challenging infectious disease known to mankind the book also discusses recent trends in hiv and aids research ongoing treatments case studies and major achievements

Holistic Approaches to Infectious Diseases 2024-02-14 medicinal plants chemical biochemical and pharmacological approaches presents an in depth exploration of the multifaceted relationships between medicinal plants and human health this comprehensive volume delves into the intricate chemical and biochemical aspects of plants shedding light on their pharmacological properties and applications within this book readers will find a detailed examination of plant derived compounds including alkaloids flavonoids essential oils terpenes and other bioactive constituents these compounds are analyzed for their chemical structures and mechanisms of action providing a foundational understanding of the chemical basis for their therapeutic potential the book further elucidates the pharmacological actions of



medicinal plants showcasing their role in traditional healing practices as well as their integration into modern health care it explores the diverse array of health conditions that can be addressed through phytotherapy emphasizing evidence based approaches that bridge the gap between traditional wisdom and contemporary scientific knowledge readers will gain insights into the latest research and discoveries in the field of phytochemistry pharmacology and ethnobotany obtaining a comprehensive view of the potential applications of medicinal plants for various health related purposes the text also highlights the importance of sustainability and ethical practices in the harvesting and utilization of these botanical resources medicinal plants chemical biochemical and pharmacological approaches serves as an invaluable resource for scientists healthcare professionals and herbal enthusiasts alike equipping them with a deep understanding of the chemical biochemical and pharmacological dimensions of these natural remedies by promoting an evidence based and sustainable approach to the use of medicinal plants this book fosters a profound connection between the scientific community and the wealth of nature s therapeutic offerings

*Medicinal Plants* 2022-02-09 fertility pregnancy and wellness is designed to bridge science and a more holistic approach to health and wellness in particular dealing with female male fertility and the gestational process couples seeking to solve fertility issues for different reasons whether failed assisted reproductive techniques or the emotional impact they entail economic or moral reasons are demanding more natural ways of improving fertility this book explores the shift in paradigm from just using medications which in the reproductive field can be very expensive and not accessible to the entire population to using lifestyle modifications and emotional support as adjunctive medicine therapies this must have reference brings together the current knowledge highlighting the gaps and delivers an important resource for various specialists and practitioners offers insights from scientific and holistic methods providing the available scientific evidence for or against different holistic approaches aimed at improving fertility health and wellness bridges the more peripheral yet critical and multidisciplinary considerations in fertility infertility pregnancy and wellness includes clear concise and meaningful summary conclusion sections within each chapter

**Fertility, Pregnancy, and Wellness** 2022-09-14 bioactive lipids presents the topic of bioactive lipids from a functional food development perspective this book explores the potential of dietary lipids to understand how such bioactive compounds can be used in the development of functional foods and nutraceuticals the book includes case studies to enable readers to understand the potential of several dietary lipids and the possibilities regarding their incorporation into several food matrices bioactive lipids will be a welcome reference for researchers lecturers and students from the food science and nutrition fields reviews the health benefits of several lipids and dietary sources providing bioactive targets for therapeutic purposes provides readers with tools for the development of new lines of research and for supporting ongoing investigations includes case studies to present solutions for bioactive lipids incorporation into food matrices and consequently to functional foods and nutraceuticals development

Bioactive Lipids 2018-04-17 importance of herbs medicinal plants can hardly be overemphasized they are exploited for manyfold applications ranging from phytopharmaceuticals to nutraceuticals to cosmetics and many others keeping in view the richness of herbs and their vast potential this book collates the most up to date knowledge of important herbs and herbals the book also gives an overview of some issues causing hindrance in the promotion of herbals this book attempts to compile the rich experience of experts working on various herbs new age single plant species having multiple medicinal traits worth exploiting i e hippophae rhamnoides seabuckthorn and morinda citrifolia noni also find place as full chapters in the book

*New Age Herbals* 2022-09-20 this detailed volume explores a wide range of evidence based complementary medicine and various bio analytical techniques used to define botanical products collecting recent work and current developments in the field of contemporary phytomedicine as well as their future possibilities in human health care the book includes unique contributions in the form of chapters on phytomedicine and screening biological activities explained with diverse hyphenated techniques as well as issues related to herbal medications such as efficacy adulteration safety toxicity regulations and drug delivery written for the springer protocols handbooks series chapters feature advice from experts on how to best conduct future experiments extensive and practical natural product experiments in drug discovery serves as an ideal reference for students professors and researchers in universities r d institutes pharmaceutical and herbal enterprises and health organizations

**Natural Product Experiments in Drug Discovery** 2021-04-07 bioactive compounds are abundant in nature particularly in plants which have the capacity to synthesize phenolics flavonoids caffeine carotenoids and much more different bioactive compounds can change or alter the life process due to their different biological activities this book examines bioactive compounds and their sources structures and potential uses in various industries including pharmaceuticals

medicine cosmetics and food processing

**Bioactive Compounds in Nutraceutical and Functional Food for Good Human Health** 2019-12-12 this volume provides informative research on the scientific evidence of the health benefits that can be derived from medicinal plants and how their efficacies can be improved it is divided into three sections that cover the phytochemistry of medicinal plants disease management with medicinal plants and novel research techniques in medicinal plants the pharmacological benefits of several specific plants are discussed addressing health issues such as metabolic and mental disorders acute mountain sickness polycystic ovarian syndrome and specific diseases such as huntington s it also looks at the role of antioxidants in disease management additionally the book covers recent problems of drug resistance and how medicinal plants can serve as antibiotic anthelmintic and antiparasitic drugs that will be helpful for human and animals

**The Therapeutic Properties of Medicinal Plants** 2016-09-20 focuses on the effects of natural products and their active components on brain function and neurodegenerative disease prevention phytochemicals such as alkaloids terpenes flavanoids isoflavones saponins etc are known to possess protective activity against many neurological diseases the molecular mechanisms behind the curative effects rely mainly on the action of phytonutrients on distinct signaling pathways associated with protein folding and neuro inflammation the diverse array of bioactive nutrients present in these natural products plays a pivotal role in prevention and cure of various neurodegenerative diseases disorders or insults such as alzheimer s disease parkinson s disease huntington s disease traumatic brain injury and other neuronal dysfunctions however the use of these antioxidants in the management of neurodegenerative conditions has so far been not well understood this is a comprehensive collection addressing the effects on the brain of natural products and edible items such as resveratrol curcumin gingerol fruits vegetables nuts and marine products

**The Benefits of Natural Products for Neurodegenerative Diseases** 2022-05-18 phytochemicals and medicinal plants in food design strategies and technologies for improved healthcare explores the therapeutic potential of various natural and novel phytochemicals in the design of new foods divided into two parts the first section discusses plant based secondary metabolites for healthcare focusing on the health aspects of herbs and medicinal plants and nutraceuticals for livestock production and for the treatment of diseases such as hiv and diabetes the authors also address the benefits of preserving indigenous knowledge of medicinal plants and current consumer views of health issues from foods the second part delves into the design and utilization of healthy foods this section discusses the application of novel designs and herbal formulations in conjunction with other biomolecules for the development and utilization for food products with health benefits key features encourages the preservation of indigenous knowledge on herbs and medicinal plants explains the health promoting effects of some herbs and medicinal plants discusses the therapeutics and their mechanisms of actions of the biological compounds for food safety this informative volume will be valuable for faculty students scientists researchers and industry professionals in the development of superfoods from phytochemicals and medicinal plants

*Phytochemicals and Medicinal Plants in Food Design* 2023-04-27 this book describes how chronic wounds follow a completely different healing trajectory to acute wounds and discusses the factors associated with these poor healing trajectories these factors include age chronic inflammation phenotypic changes in such cells as macrophages fibroblasts and keratinocytes colder alkaline wound milieu wound related hypoxemia and diabetes other factors implicated include reperfusion injury poor patient compliance presence of undiagnosed and therefore unmanaged biofilms and wound pain the past decades have yielded reliable evidence based guidelines and standardized care but the healing of diabetic foot wounds continues to be unpredictable notwithstanding these advances while the recurrence rates are also high the benefits of technology in wound diagnosis are evidence based and the use of this technology also features in guidelines however the same argument cannot be extended to adjuvant devices to facilitate wound closure even though many devices potentially benefit wound healing chronic wound management describes how innovation is based on technology that itself informs evidence the gap between the evidence available the performance of technology and how do we bridge this gap it reviews the lessons learnt from the covid 19 pandemic and whether traditional medicine systems offer us real or imaginary benefits consequently this book is an important addition to the literature in the area and an essential read for all healthcare professionals working with these patients

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