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Preventing blood cancers and other pathological diseases

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Research Programs and Projects at this Location

Investigation of synergistic mechanism and identification of interaction site of aldose reductase with the combination of gigantol and syringic acid for prevention of diabetic cataract.

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Joe P. Foley, PhD

Katherine L. Tucker is a Professor of Nutritional Epidemiology in the Department of Biomedical and Nutritional Sciences and Director of the Center for Population Health at UMass Lowell. She is ...

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Katherine L. Tucker, Ph.D. Professor, Director of the Center for Population Health Katherine L. Tucker is a Professor of Nutritional Epidemiology in the Department of Biomedical and Nutritional ...

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2020 Commencement Program

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Himalayan Phytochemicals: Sustainable Options for Sourcing and Developing Bioactive Compounds provides a detailed review of the important medicinal plants which have already been discovered in the Himalayan region, outlining their discovery, activity and underlying chemistry. In addition, it supports a global shift towards sustainable sourcing of natural products from delicate ecosystems. Across the world, environmental destruction and overharvesting of medicinal plants are reducing and destroying multiple important sources and potential leads before researchers have the chance to discover, explore or synthesize them effectively. By identifying this problem and discussing its impact on the Himalayan region, Himalayan Phytochemicals: Sustainable Options for Sourcing and Developing Bioactive Compounds frames the ongoing global struggle and highlights the key factors that must be considered and addressed when working with phytochemicals from endemic plant sources. Reviews both well-known and recently discovered plants of this region Highlights methods for phytochemical extraction and analysis Provides context to support a shift towards sustainable sourcing of natural products

Phytochemicals provides original research work and reviews on the sources of phytochemicals, and their roles in disease prevention, supplementation, and accumulation in fruits and vegetables. The roles of anthocyanin, flavonoids, carotenoids, and taxol are presented in separate chapters. Antioxidative and free radicle scavenging activity of phytochemicals is also discussed. The medicinal properties of Opuntia, soybean, sea buckthorn, and gooseberry are presented in a number of chapters. Supplementation of plant extract with phytochemical properties in broiler meals is discussed in one chapter. The final two chapters include the impact of agricultural practices and novel processing technologies on the accumulation of phytochemicals in fruits and vegetables. This book mainly focuses on medicinal plants and the disease-preventing properties of phytochemicals, which will be a useful resource to the reader.

Genus Terminalia is known to be a rich source of secondary metabolites, mainly polyphenols and triterpenoids. About 39 species have been phytochemically studied leading to the identification of 368 compounds. This work involves the use of hyphenated mass spectrometric methods such as HPLC-ESI-QTOF-MS/MS and UPLC-ESI-QqQLIT-MS/MS for qualitative and quantitative analysis of major bioactive constituents in selected medicinal plants without isolation. It also describes the methods of mass fingerprinting and their use to investigate the plant species variations with the help of statistical software 's (PCA). Markers were identified for quality control and authentications.

In the present study, three Libyan medicinal plants Juniperus phoenicea, Pistacia lentiscus and Cupressus sempervirens were investigated for their chemical constituents. Studies were conducted to determine the active chemical constituents of alcoholic extracts by way of phytochemistry and to evaluate its in vitro antimicrobial activity, using the disc diffusion technique as described by the National Committee of Clinical Laboratory Standard (1993). The alcoholic extracts of all plants produced a dose dependent zone of inhibition in all the organisms tested (Escherichia coli, Staphylococcus aureus and Klebsiella pneumoniae). Due to their medicinal value and relative abundance, it was decided to investigate the flavonoids from these plants. The present investigation has led to the isolation of five flavonoids from an ethanol extract prepared from the leaves, barks and roots of these plants by preparative thin-layer chromatography technique. Their structures were determined through a combination of spectrometric techniques including IR, UV, 1D and 2D NMR and high-resolution electrospray mass spectrometry.

The present study was carried out for phytochemical screening and pharmacological investigations on methanolic extract of rhizomes of Hedychium coronarium (Local name: Dolan Champa, Family: Zingiberaceae). In this study, the possible analgesic and CNS (Central Nervous System) depressant activities of the methanolic rhizome extract of Hedychium coronarium were investigated at the doses of 100 mg/Kg, 200 mg/kg and 400 mg/Kg body weight on mice by oral administration. The analgesic activities were investigated for their central and peripheral pharmacological actions using tail immersion testing and acetic acid-induced writhing testing respectively. Its CNS depressant activity was evaluated by using hole cross and open field tests and the cytotoxic activity was observed using brine shrimp lethality bioassay.

Piper is the representative genus of family Piperaceae. Piper species are pan-tropical in distribution and found in both the hemispheres. As the king of all spices, black pepper, Piper nigrum, led to the global expeditions culminating in the discovery of India and the new world. Piper species have been reported to possess various pharmacological activities such as insecticidal, antibacterial, anti-inflammatory, antiplatelet, anti-hypertensive, antithyroid, antitumor activities and hepatoprotective properties. Botanical authentication of the plants of Piper species is difficult because of the morphological similarity among the species. This book describes ultra-performance liquid chromatography coupled with triple quadrupole electrospray tandem mass spectrometry in multiple reactions monitoring (MRM) mode to study the quantitative variation of thirteen bioactive markers in different plant parts of ten Piper species. Features: Collection of Ayurvedic features and scientific evidence of the most important medicinal plants of Piper species. Describes chemical signatures for identification of Piper species. Provides easy-to-use analytical procedure for quality control of Piper species and its products.

Tinospora cordifolia stem is used as a tonic, vitalizer, and as a remedy for metabolic disorders to treat allergies, diabetes, dysentery, jaundice, heart diseases, leprosy, rheumatoid arthritis, skin diseases, and urinary disorders. It shows anti-inflammatory, analgesic, antipyretic actions and immunosuppressive effects. This book focuses on providing gender and geographical location-based differences in the phytoconstituents of T. cordifolia by the liquid chromatography mass spectrometric method. These methods have potential use in the quality control of T. cordifolia and the screening of herbal preparations. Features: Compilation of ayurvedic features of one of the most important plants of the Indian system of medicines. Useful for all ayurvedic practitioners, researchers, faculty, students, and herbal product manufacturers. Application of advance hyphenated LC-MS techniques for variation study in phytoconstituents.

This book addresses the resurgence of interest in the rediscovery of ethnomedicinal plants as a source of potential ethnomedicines. In the 21st century, the pharmacological effects of medicinal plants are considered to have a promising future as drugs and medicines for the management of healthcare. Considering the extremely high cost and length of time needed for the development of new drugs, as well as the high drug attrition rate, pharmaceutical companies and researchers continue to explore new ways for drug R&D and focus more attention on the benefits of ethnomedical plants as a source of new compounds for drugs. The research provided in this timely volume examines the development and characterization of new natural drugs from medicinal plants with the aid of better screening methods. The chapters survey specific medicinal plant species and describe the characteristics of each, how the plants work, and their applications for healthcare. The authors provide research on plants from Western Ghats and adjoining areas for ethnomedicinal investigation because this area is very rich in phytodiversity and tribal traditions in phytotherapy and the plants surveyed have applications beyond this region. This book is a valuable medical compendium of plants and is intended as a guide and reference resource for professionals in the field. It reviews the current status of ethnomedicinal plants research in light of the surge in the demand for herbal medicine as a future source of new therapeutics.

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