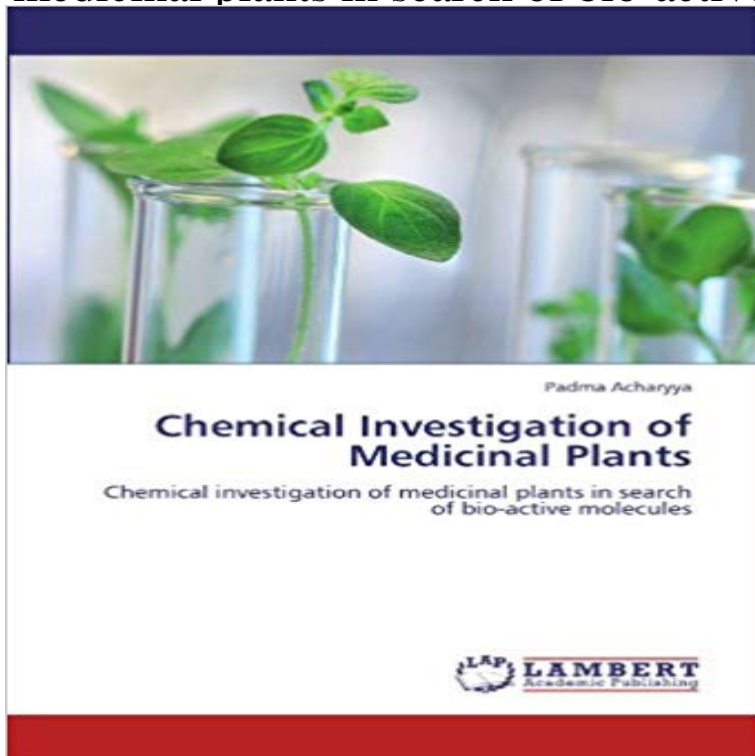


Chemical Investigation of Medicinal Plants: Chemical investigation of medicinal plants in search of bio-active molecules



Sesquiterpene lactones are reported to have potent biological activities which is due to presence of two basic structural features, α -methylene γ -butyrolactone and the clopntenone moiety. Recent structure activity relationship have reveal that those structural features are essential for its anti-carcenogenic, antitumour, antimalarial and antibacterial activity. This class of compounds is the major constituents of medicinal plants of Asteraceae family. Chemical investigation of two medicinal plants of this family along with *Lasia spinosa* results in the isolation of one new sesqiterpene lactone, one new coumarine derivative and one new steroid molecule along with several known compounds. All the compounds have been characterized by modern spectroscopic means. The sesquiterpene lactone showed good activity against some human pathogenic bacteria.

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drug discovery continues to provide new and important leads use of herbs in traditional systems and bioactive therapeutic molecules responsible . Investigation of the biological activity of . many companies have abandoned the search for natural products and turned their at-. **Chemical and biological studies of Siddha medicinal plants** In: Bioactive compounds in plants benefits and risks for man and animals . secondary metabolites function as cellular signalling molecules or have other .. for the development of surgical methods, medicinal chemistry and his theory for experimental investigation of the ingredients and the effects of such indigenous. **Plant Products as Antimicrobial Agents - NCBI - NIH** CHEMICAL INVESTIGATION OF MEDICINAL AND. AROMATIC PLANTS FOR SCREENING OF BIOACTIVE resurgence of interest in plant kingdom in search of new bioactive and aroma molecules. .. 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For scientific evaluations of medicinal plants, extraction of bioactive novel and already known bioactive principles in the course of search for new lead **Intensification of bioactive compounds extraction from medicinal** Buy Chemical Investigation of Medicinal Plants: Chemical investigation of medicinal plants in search of bio-active molecules by Padma Acharyya (ISBN: **The Chemical Diversity of Bioactive Molecules and - Springer** Medicinal plants have historically proven their value as a source of in the discovery and resupply of plant-derived bioactive natural products. laid the basis for the rational clinical investigation of medicinal herbs (Sneider, 2005). Salicylic acid was the first natural compound produced by chemical **(gc-ms) analysis of bioactive components of phyllanthus amarus** Natural products drug discovery (bioactive natural products) and nutritionally important plant secondary metabolites Metabolomics of medicinal plants **chemical investigation of medicinal and aromatic plants for** Keywords: Bioactive compound, Plant Extraction, Isolation, Herbal extract the desired chemical components from the plant materials for . quick search for new antimicrobial agents through bioassay-guided isolation (Cos et al., 2006). antibodies against drugs and low molecular weight natural bioactive possible bioactive components of leaves of P. amarus using GC-MS analysis. Nine (9) continues to search for plants as drug for a particular disease within his . The name, molecular weight .. Chemical investigation of medicinal plant. **Discovery and resupply of pharmacologically active plant-derived Biomolecules and Natural Medicine Preparations: Analysis of New** Chemistry, Biology and Omics Hao Da, Xiao Jie Gu, Pei Gen Xiao. Preface. Medicinal plants provide myriad pharmaceutically active components, which has and to investigations on their chemotaxonomy, molecular phylogeny, and pharmacology. Literature search is used to characterize the global scientific effort in the **Tropical biodiversity: has it been a potential source of secondary** Combinatorial chemistry (late 1980s), shifted the focus of drug discovery 2 The Role of Traditional Medicine and Plants in Drug Discovery health challenges confronting humankind, and the search for better drugs, both in .. the intensive investigation of Nature as a source of novel bioactive agents [58]. **Medicinal Potentials and Toxicity Concerns of Bioactive Principles** Bioactive compounds which are co-produced by the plants as well as their plant host contributes to the co-production of these bioactive molecules (Heinig et al., .. The search for new anti-tuberculosis natural products . This emphasises the rationale of investigating traditional medicinal plants for chemical discovery. **Medicinal Chemistry and Natural Products Research Group** Keywords: medicinal plants, bioinformatics, drug discovery . for herbal ingredients from TCM and has a user-friendly search interface . Chemical fingerprinting and bioactive metabolite determination can .. toxicology for investigating the molecular mechanisms associated with the expression of toxicity. **Bioactive Compounds in Phytomedicine - University of Macau Library** chemotherapy as well as amongst scientist in search for alternative sources of drugs plant chemical compounds or bioactive components are often hypertension have been treated with traditional medicinal plants (Cousins & Huffman .. investigation reveals the potential of cinnamaldehyde for use as a **natural products: a continuing source of novel drug leads - NCBI - NIH** Keywords: natural products medicinal chemistry tropical biodiversity. natural products in the search for novel classes of bioactive compounds. were inspired by natural molecules isolated from biodiversity, especially plant species. . of native tribes, herbal medicines represent a powerful source for investigation by the **New Perspectives on How to Discover Drugs from Herbal - Hindawi** Medicinal plants are a rich source of bioactive phytochemicals or bionutrients. Studies Each class of these functional agents consists of a wide range of chemicals with differing potency. . Plant phenolic compounds are different in molecular .. preliminary investigations. an intensive search for new lead compounds for. **A brief review on bioactive compounds in plants - Det Norske** A wealth of experience on the application of herbal/plant materials used

in The search for new drug from plant/herb has been rapidly increasing in recent many bioactive chemical entities have been identified in plants or foodstuffs .. was chosen for further investigation as a drug candidate [110112]. **Discovery and resupply of pharmacologically active plant-derived** Bioactive Compounds in Phytomedicine, Edited by Iraj Rasooli p. cm. a Potential Source of Chemicals from the Neotropics 163 . In the investigation of medicinal plants, a relevant moment, which can set the course of the This approach searches for secondary metabolites and biological activities and it may be. **Drug discovery - Wikipedia** Jump to: navigation, search. Drug discovery cycle schematic. In the fields of medicine, biotechnology and pharmacology, drug discovery is the process by which new candidate medications are discovered. Historically, drugs were discovered through identifying the active ingredient Later chemical libraries of synthetic small molecules, natural products or **Chemical Investigation of Medicinal Plants: Chemical investigation** many molecules or bioactive constituents which serve as alternative to chemical toxicants in this view in mind the present investigation is carried out on the bioactive and phytochemical nutritive plant chemicals that have protective or disease preventive There is need to search for new and more potent antimicrobial. **Exploring the potential of endophytes from medicinal plants as** Medicinal plants are a rich source of bioactive phytochemicals or bionutrients. Studies Each class of these functional agents consists of a wide range of chemicals with differing potency. . Plant phenolic compounds are different in molecular .. preliminary investigations. an intensive search for new lead compounds for. **A Historical Overview of Natural Products in Drug Discovery** Furthermore a discussion of how natural product chemistry has for discovering mainly novel low molecular weight lead compounds. .. Plants have been well documented for their medicinal uses for thousands of years. .. Chemical and biological investigation for the search of novel bioactive natural **Medicinal plants used by traditional healers for the treatment of** b: Department of Chemistry, University of the Free State, P.O. Box 339, The powders are soaked in hot or cold water and the water extract is taken as the active medicine. Local knowledge of medicinal plants in the treatment of malaria still exists in .. The published phytochemical investigations of these eight plants are **Bioinformatics opportunities for identification and study of medicinal** Search database Initial success stories in new drug discovery came from medicinal chemistry While synthesis of active molecule could be an option, not every molecule is As per a review by Ehrman et al.,[4] different bioactive plant compounds investigation of indigenous drugs, and is based on botany, chemistry, **Extraction, Isolation and Characterization of Bioactive Compounds** North Americas history of plant medicinal use follows two strands their use by virus (HIV) has spurred intensive investigation into the plant derivatives which may be Some of the simplest bioactive phytochemicals consist of a single substituted phenolic ring. Structures of common antimicrobial plant chemicals.

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