

Mahmood Ahmad Tahira Shamim Laila Sumreen

# Antidiabetic Activity Of Medicinal Plants From Cholistan Desert



# **Antidiabetic Activity Of Medicinal Plants From Cholistan Desert**

**Altaf Ahmad, Ambreen Asif** 

# **Antidiabetic Activity Of Medicinal Plants From Cholistan Desert:**

Antidiabetic Activity Of Medicinal Plants From Cholistan Desert Mahmood Ahmad, Tahira Shamim, Laila Sumreen, 2014-11-25 Diabetes mellitus is a complex metabolic syndrome with wide spread derangements in the metabolsm of carbohydrates lipids and proteins and is associated with chronic hyperglycemia the common outcome in all types of diabetes Currently diabetes is assuming to be an epidemic and rated among the five leading causes of morbidity and mortality Medicinal plants have long history of medicinal use and still are in use among different folks Current study was conducted to evaluate the antidiabetic effects of traditional antidiabetic plants Acacia nilotica Azadirachta indica and Euphorbia prostrate in diabetic rabbits Alloxan at the dose of 150 mg Kg body weight was administered intraperitoneally to induce diabetes Methanolic extracts of these plants were prepared and were orally administered to diabetic rabbits once daily for 14 days at the doses of 250 mg Kg and 500 mg Kg body weight Decrease in fasting blood glucose levels produced by methanolic extract of these plants was compared with standard drug Glibenclamide 5 mg Kg Serum cholesterol and triglyceride levels of diabetic rabbits were also evaluated at the end of study Natural Bio-active Compounds Mohd Sayeed Akhtar, Mallappa Kumara Swamy, Uma Rani Sinniah, 2019-09-06 Bioactive compounds produced by natural sources such as plants microbes endophytic fungi etc can potentially be applied in various fields including agriculture biotechnology and biomedicine Several bioactive compounds have proved to be invaluable in mediating plant microbe interactions and promoting plant growth and development Due to their numerous health promoting properties these compounds have been widely used as a source of medication since ancient times However there is an unprecedented need to meet the growing demand for natural bioactive compounds in the flavor and fragrance food and pharmaceutical industries Moreover discovering new lead molecules from natural sources is essential to overcoming the rising number of new diseases In this regard natural bioactive compounds hold tremendous potential for new drug discovery Therefore this field of research has become a vital area for researchers interested in understanding the chemistry biosynthetic mechanisms and pharmacological activities of these bioactive metabolites This book describes the basics of bioactive plant compounds their chemical properties and their pharmacological biotechnological properties with regard to various human diseases and applications in the drug cosmetics and herbal industries It offers a valuable asset for all students educators researchers and healthcare experts involved in agronomy ecology crop science molecular biology stress physiology and natural products Plant and Human Health, Volume 1 Munir Ozturk, Khalid Rehman Hakeem, 2018-10-02 Early anthropological evidence for plant use as medicine is 60 000 years old as reported from the Neanderthal grave in Iraq The importance of plants as medicine is further supported by archeological evidence from Asia and the Middle East Today around 1 4 billion people in South Asia alone have no access to modern health care and rely instead on traditional medicine to alleviate various symptoms On a global basis approximately 50 to 80 thousand plant species are used either natively or as pharmaceutical derivatives for life threatening conditions that

include diabetes hypertension and cancers As the demand for plant based medicine rises there is an unmet need to investigate the quality safety and efficacy of these herbals by the scientific methods Current research on drug discovery from medicinal plants involves a multifaceted approach combining botanical phytochemical analytical and molecular techniques For instance high throughput robotic screens have been developed by industry it is now possible to carry out 50 000 tests per day in the search for compounds which act on a key enzyme or a subset of receptors This and other bioassays thus offer hope that one may eventually identify compounds for treating a variety of diseases or conditions However drug development from natural products is not without its problems Frequent challenges encountered include the procurement of raw materials the selection and implementation of appropriate high throughput bioassays and the scaling up of preparative procedures Research scientists should therefore arm themselves with the right tools and knowledge in order to harness the vast potentials of plant based therapeutics The main objective of Plant and Human Health is to serve as a comprehensive guide for this endeavor Volume 1 highlights how humans from specific areas or cultures use indigenous plants Despite technological developments herbal drugs still occupy a preferential place in a majority of the population in the third world and have slowly taken roots as alternative medicine in the West The integration of modern science with traditional uses of herbal drugs is important for our understanding of this ethnobotanical relationship Volume 2 deals with the phytochemical and molecular characterization of herbal medicine Specifically it focuess on the secondary metabolic compounds which afford protection against diseases Lastly Volume 3 discusses the physiological mechanisms by which the active ingredients of medicinal plants serve to improve human health Together this three volume collection intends to bridge the gap for herbalists traditional and modern medical practitioners and students and researchers in botany and horticulture

**Prosopis Juliflora** Pratiksha Patnaik, Tabassum Abbasi, S. A. Abbasi, 2024-06-27 Prosopis Prosopis juliflora is a xerophyte which in its native habitats has been a desert plant As long as it was confined to that habitat P juliflora was a great resource improving the region s micrometeorology binding its sandy soil and providing shelter fuel feed food medicines and cosmetics to the people of such regions In particular for the economically weaker inhabitants P juliflora was a lifeline But when P juliflora was indiscriminately introduced in other regions of the world in a hope to derive similar benefits from it things began to go awry Indeed among the invasive species of plants which are spreading at an alarming rate in the tropical and sub tropical regions of the world P juliflora is arguably the most hardy and resilient It is growing so explosively that it even enters roads and homes driving humans out of their dwellings The resulting damage to biodiversity is enormous This book highlights the dual role played so far by P juliflora and itemizes the facets that make it a blessing in some contexts and a bane in other contexts Authored by leading experts in the field Prosopis juliflora Attributes Impact Utilization is the first title of its kind to comprehensively discuss this hardy plant species It will be an essential read for students researchers and governmental agencies interested in plant biology forestry plant ecology invasive plant species and environmental science

Summarizes all the key information available on P juliflora from its origin and systematics to its future prospects Discusses colonization utilization and eradication Authored by leading experts in the field with over 40 years of experience **Omics** Studies of Medicinal Plants Altaf Ahmad, Ambreen Asif, 2023-02-21 Herbal drugs play a pivotal role in modern medicine and pharmaceutical care however only limited biotechnology applications have been seen in medicinal plants Revolutions in high throughput approaches emphasize omics approaches such as genomics transcriptomics proteomics and metabolomics A volume in the Exploring Medicinal Plants series this book provides a comprehensive and in depth analysis of breakthroughs in high throughput approaches for the research of medicinal plants Exploring the principles and applications of omics technologies this book is essential for those working on or are involved in the modern research of medicinal and aromatic plants There is also a strong focus on practical implications of these technologies through exploring the safety aspects and conservation strategies of various plants From informative discussions on the latest research to a holistic evaluation of their potential applications this book appeals to students researchers and professionals working with medicinal and aromatic plants as well as healthcare professionals interested in the area The Coloured Atlas of Medicinal and Aromatic Plants of Jordan and Their Uses (Volume One) Jamal Ragheb Said Qasem, 2020-04-06 The book introduces a number of selected medicinal and aromatic plants from cultivated plant species in Jordan The species discussed here are illustrated in full color photos and up to date information on species medicinal and economical values is presented. The book considers 209 species belonging to 67 botanical families which are cultivated as fruit and forestry trees vegetables culinary herbs and spices aromatic and ornamental plants and some species which can be found in different biogeographical regions of the country Information on species taxonomy and botanical affiliation chemical constituents plant parts used in medication medicinal and pharmacological importance healing properties and uses in folk medicine is also presented As such the book is a valuable reference on diverse cultivated plant species of different growth habits and habitats used for culinary health and other purposes **Traditional** Medicines for Modern Times Amala Soumyanath, 2005-11-02 The increasing prevalence of diabetes mellitus world wide is an issue of major socio economic concern Scientific interest in plant derived medicine is steadily rising yet there is often a wide disparity in the caliber of information available A detailed compilation of scientific information from across the globe Traditional Medicines for Modern Medicinal Plants A. B. Ray, J. P. N. Chansouria, S. Hemalatha, 2010 Antidiabetic Medicinal Plants M. Naeem, Tariq Aftab, 2023-09-29 Medicinal Plants with Antidiabetic Properties Applications and Opportunities is the first comprehensive reference to present the state of current research as well as those developments that are impacting developments in the use of plants to address diabetic conditions Presenting multiple perspectives on the plants their identification cultivation and application this book presents the state of the art with an eye toward the future Herbal drugs and their components with insignificant toxicity and limited or no side effects are valuable therapeutic

alternatives in the treatment of diabetes around the world and have been considered a fundamental source of potent antidiabetic drugs Exploration of plants containing numerous bio active compounds such as flavonoids terpenoids saponins carotenoids alkaloids and glycosides for their potential antidiabetic properties is increasing as alternative treatments for this globally devastating disease are sought Presented in 5 parts the book first provides an overview of those plants with antidiabetic properties then moves to the agricultural practices for the cultivation and production of those plants Part Three focuses on the chemical composition and phytochemicals of the plants before then moving into a study of the physiological biotechnological and molecular approaches to optimizing these plants The book concludes with insights into current and potential future medical and clinical applications The book is ideal for those seeking to understand the biology and chemistry of plants with anti-diabetic properties and their effective development and application Includes insights from laboratory research to field application Presents perspectives from agriculture biotechnology molecular biology pharmaceutical pharmacological and clinical trials Highlights the cost effective and eco friendly technologies for sustainable agricultural developments in antidiabetic plants Antidiabetic Plants for Drug Discovery Deepu Pandita, Anu Pandita, Chander Bhanu, 2022-12-29 This volume takes an in depth look at the potential pharmacological applications of 11 important antidiabetic plants examining their antihyperglycemic hypoglycemic and anti lipidemic properties along with current genome editing research perspectives Plant natural products or phytoconstituents are promising candidates for antidiabetic pharmacological actions The phytoconstituents such as avonoids terpenoids saponins carotenoids alkaloids and glycosides play vital roles in the current and future potent antidiabetic drug development programs Each chapter reviews a particular plant with antidiabetic properties explaining the therapeutic aspects its active antidiabetic compounds and relevant genome editing technology The specific plants discussed include Azadirachta indica commonly known as neem nimtree or Indian lilac Gymnema sylvestre commonly called gymnema Australian cowplant and Periploca of the woods Syzygium cumini commonly known as Malabar plum Java plum black plum jamun or jambolana Ceylon cinnamon or true cinnamon as opposed to cassia cinnamon insulin plant or Costus pictus Trigonella foenum graecum better known as fenugreek Mulberry Nigella sativa L black caraway also known as black cumin nigella kalojeera kalonji or kalanji Aegle marmelos L commonly known as bael or bili or bhel also Bengal quince golden apple Japanese bitter orange stone apple or wood apple Ficus benghalensis the banyan banyan fig and Indian banyan and of course garlic Allium sativum Antidiabetic Plants for Drug Discovery Pharmacology Secondary Metabolite Profiling and Ingredients with Insulin Mimetic Activity will serve as a valuable source of information for students drug researchers medical practitioners diabetic patients and many others in the effort to gain understand of how these plant drug molecules can help fight diabetes **Antidiabetic Potential of Plants in the Era of Omics** Deepu Pandita, Anu Pandita, Chander Bhanu, 2022-12-30 Here is an informative overview of diabetes mellitus in conjunction with plant based treatments It discusses available methods for studying the antidiabetic activities of scientifically developed plant

products mechanisms of action their therapeutic superiority and current genome editing research perspectives and biotechnological approaches The book begins with an introduction to diabetes giving a brief overview of the history diagnosis classification pathophysiology and risk factors It goes on to review traditional uses of plants for diabetes along with ethnobotanical information The results of scientific studies on the various modes of action of antidiabetic plants are discussed such as the molecular aspects of active plantbased antidiabetic drug molecules A section featuring recent biotechnological advancements of antidiabetic plants and plant based antidiabetic drugs covers advances in molecular breeding and application of molecular markers biotechnologically engineered transgenic medicinal plants and advances in genomic editing tools and techniques Anti-diabetes and Anti-obesity Medicinal Plants and Phytochemicals Bashar Saad, Hilal Zaid, Siba Shanak, Sleman Kadan, 2017-05-11 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 phytogenic 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 **Biotechnology of Anti-diabetic Medicinal Plants** Saikat Gantait, Sandeep Kumar Verma, Amit Baran Sharangi, 2022-11-13 This book is a unique overview of insights on the genetic basis of anti diabetic activity chemistry physiology biotechnology mode of action as well as cellular mechanisms of anti diabetic secondary metabolites from medicinal plants The World Health Organization estimated that 80% of the populations of developing countries rely on traditional medicines mostly plant drugs for their primary health care needs There is an increasing demand for medicinal plants having anti diabetic potential in both developing and developed countries The expanding trade in medicinal plants has serious implications on the survival of several plant species with many under threat to become extinct This book describes various approaches to conserve these genetic resources It discusses the whole spectrum of biotechnological tools from micro propagation for large scale multiplication cell culture techniques to the biosynthesis and enhancement of pharmaceutical compounds in the plants It also discusses the genetic transformation as well as short to long term conservation of plant genetic resources via synthetic seed production and cryopreservation

respectively The book is enriched with expert contributions from across the globe This reference book is useful for researchers in the pharmaceutical and biotechnological industries medicinal chemists biochemists botanists molecular biologists academicians students as well as diabetic patients traditional medicine practitioners scientists in medicinal and aromatic plants Ayurveda Siddha Unani and other traditional medical practitioners **Biotechnology of Anti-diabetic** Medicinal Plants Saikat Gantait, Sandeep Kumar Verma, Amit Baran Sharangi, 2021 This book is a unique overview of insights on the genetic basis of anti-diabetic activity chemistry physiology biotechnology mode of action as well as cellular mechanisms of anti diabetic secondary metabolites from medicinal plants The World Health Organization estimated that 80% of the populations of developing countries rely on traditional medicines mostly plant drugs for their primary health care needs There is an increasing demand for medicinal plants having anti-diabetic potential in both developing and developed countries The expanding trade in medicinal plants has serious implications on the survival of several plant species with many under threat to become extinct This book describes various approaches to conserve these genetic resources It discusses the whole spectrum of biotechnological tools from micro propagation for large scale multiplication cell culture techniques to the biosynthesis and enhancement of pharmaceutical compounds in the plants It also discusses the genetic transformation as well as short to long term conservation of plant genetic resources via synthetic seed production and cryopreservation respectively The book is enriched with expert contributions from across the globe This reference book is useful for researchers in the pharmaceutical and biotechnological industries medicinal chemists biochemists botanists molecular biologists academicians students as well as diabetic patients traditional medicine practitioners scientists in medicinal and aromatic plants Ayurveda Siddha Unani and other traditional medical practitioners **Medicinal Plants for Antidiabetic** Activity in Laboratory Animals Sachin Badole, Subhash Bodhankar, 2012 Pongamia Pinnata Stem bark and Glycine max fruits were selected for evaluation of antidiabetic activity Extracts were prepared by cold maceration method Maximum antihyperglycaemic activity was observed in petroleum ether extract of Pongamia Pinnata Called as PPSB PEE 11 compounds were isolated by column chromatography Compound B2 was most promising antihyperglycaemic activity hence further characterized by physical and chemical properties B2 was pure compounds namely cycloart 23 ene 3 25 diol B2 was further carried out for antidiabetic activity of streptozotocin nicotinamide induced type 2 diabetic mice The parameters were evaluated body weight food and water intake OGTT serum and pancreatic insulin HbA1c haematology lipid profile renal and liver function test Gomori staining was carried out for identification of pancreatic cells In conclusion PPSB PEE possessed antihyperglycaemic activity mainly due to B2 cycloart 23 ene 3 25 diol Probable mechanism of action appears to be due to stimulation of insulin release and antioxidant activity Aqueous extract of Glycine max showed mild antihyperglycaemic activity Phytotherapy in the Management of Diabetes and Hypertension: Volume 3 Mohamed Eddouks, 2020-11-12 Medicinal plants are a source of potential therapeutic compounds Phytotherapy can give patients long term benefits with less

or no side effects. This is the third volume of the series which features monographs on selected natural products used to treat diabetes and hypertension This volume brings 7 chapters contributed by 22 researchers that cover updates on the biochemistry of diabetes information on anti-diabetic and antihypertensive properties of oil bearing plants herbs fruits and vegetables medicinal plants from Asia as well as the medicinal value of specific plants such as star apple Chrysophyllum cainito In terms of therapeutic agents two reviews in this volume focus on terpenoids and glucagon like peptide 1 are also included Each review covers different plant species or medicinal agents where applicable providing readers essential information about their role in the treatment of diabetes and hypertension Both academic and professional pharmacologists as well as clinicians will find comprehensive information on a variety of therapeutic agents in this volume Medicinal Plants and Herbal Treatments Azamal Husen, 2023-07-17 Diabetes is a chronic condition associated with metabolic disorder Persons suffering from diabetes have shown accelerated levels of blood sugar which often harms the heart blood vessels eyes kidneys and nerves Over the past few decades the prevalence of diabetes has been progressively increasing Synthetic drugs are used to treat diabetic patients to help control the disorder but it is shown that numerous medicinal plants and herbal drugs are widely used in several traditional systems of medicine to prevent and treat diabetes They are reported to produce beneficial effects in combating diabetes and alleviating diabetes related complications These plants contain phtyonutrients and phytoconstituents demonstrating protective or disease preventive properties In many developing countries herbal drugs are recommended by traditional practitioners for diabetes treatment because the use of synthetic drugs is not affordable Key Features Provides botanical descriptions distribution and pharmacological investigations of notable medicinal and herbal plants used to prevent or treat diabetes Discusses phytochemical and polyherbal formulations for the management of diabetes and other related complications Contains reports on antidiabetic plants and their potential uses in drug discovery based on their bioactive molecules. This volume in the Exploring Medicinal Plants series provides an overview of natural healing treatments in selected antidiabetic plants. The book presents valuable information to scientists researchers and students working with medicinal plants or for those specializing in areas of ethnobotany natural products pharmacognosy and other areas of allied healthcare It is also useful to pharmaceutical companies industrialists and health policy makers Plants with Anti-Diabetes Mellitus Properties Appian Subramoniam, 2016-04-06 The incidence and severity of diabetes mellitus is increasing worldwide presenting a significant burden to society both in economic terms and overall well being Fortunately time tested anti-diabetes mellitus plant foods exist that are safe and could be effective in addressing this condition when consumed judiciously with a concomitant change in lifestyle Plants with Anti Diabetes Mellitus Properties presents an exhaustive compilation of the anti diabetes mellitus activities of more than 1000 plants occurring worldwide The author provides a brief botanical description distribution pharmacological properties and phytochemicals where appropriate A list of traditional medicinal plants used to treat diabetes but not tested for anti diabetic activity is also given This unique reference highlights anti diabetes mellitus plant foods along with a list of the edible parts of plants with anti diabetes mellitus properties Anti diabetes mellitus nutraceuticals are described with guidelines for the development of food supplements and formulations of diets appropriate for diabetic patients. This is a valuable source of information for researchers students doctors diabetic patients and other individuals wanting to learn more about plant based treatments for diabetes mellitus. The Studies on Medicinal Plants of Cholistan Desert Pakistan Mahr Fayyaz Ahmad, Khurshid Alam, Saeed Ahmad, 2011-07 Local people of Cholistan desert of Bahawalpur Pakistan have always used medicinal plants for their common health problems by traditional method Indigenous knowledge of local people about medicinal plant is directly linked to their culture and history. The present study was designed for the Ethnobotanical evaluation of Cholistan desert which is one of the resource based area of medicinal plants. Indigenous knowledge of local people about the medicinal uses of plants is the source of ideas for new research in drug development and for wider use and economic benefit. There are large number of unexploited plant species in the area which could prove useful. The local people of this desert have good knowledge of the utilization of medicinal plants and this knowledge is going to be lost because of the interference of modern cultural changes. The observations emerged from the present study to be substantiated with pharmaco chemical studies in the order to evaluate their effectiveness.

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