

# Evaluation Of Antidiabetic Activity Of Costus Igneus L

Evaluation Of Antidiabetic Activity Of Costus Igneus L Post Unlocking the Antidiabetic Potential of Costus Igneus L I Captivating Hook Background Begin with a compelling statement about diabetes prevalence and the search for natural remedies Brief Overview Explain diabetes its complications and the growing interest in herbal medicine Introduce Costus Igneus L Mention its common names eg Costus Root Spiral Ginger native origins and traditional medicinal uses II Understanding Costus Igneus Ls Antidiabetic Properties Pharmacological Activities Highlight the active compounds present in Costus Igneus L eg costunolide dehydrocostus lactone Briefly explain the mechanisms by which these compounds are believed to exert antidiabetic effects eg insulin sensitization glucose uptake enhancement Scientific Evidence Summarize key studies and research findings on Costus Igneus Ls antidiabetic potential Include details on animal models human trials and the observed effects on blood glucose levels insulin sensitivity and other relevant parameters Cite reputable sources for all information III Exploring Traditional Uses and Benefits Traditional Medicine Discuss the historical use of Costus Igneus L in traditional medicine systems eg Ayurveda Siddha Mention specific ailments it was used to treat eg diabetes urinary disorders inflammation Potential Benefits Beyond Diabetes Briefly touch upon other potential health benefits attributed to Costus Igneus L eg anti-inflammatory antioxidant antibacterial 2 IV Practical Applications and Considerations Methods of Consumption Outline common ways Costus Igneus L is consumed eg teas extracts tinctures supplements Discuss the recommended dosages and potential side effects associated with each method Safety and Precautions Emphasize the importance of consulting a healthcare professional before incorporating Costus Igneus L into your regimen especially if you have preexisting conditions or are taking medications Mention potential interactions with other drugs V Conclusion Recap Call to Action Summarize Key Points Recap the significant

antidiabetic properties of Costus Igneus L and its potential as a complementary therapy Call to Action Encourage readers to conduct further research and consult with their healthcare providers for personalized advice Future Research Mention the need for more extensive human clinical trials to confirm the efficacy and safety of Costus Igneus L for diabetes management VI Visual Enhancements Include highquality images of Costus Igneus L plant its roots and preparations Consider infographics to visualize data on antidiabetic effects or traditional uses VII SEO Optimization Include relevant keywords throughout the article eg Costus Igneus antidiabetic herbal medicine diabetes blood sugar Meta Create an engaging meta description that accurately summarizes the article content and attracts clicks InternalExternal Links Link to credible sources and relevant articles within your website or on external platforms VIII Engagement and Interaction OpenEnded Questions Encourage readers to share their experiences or ask questions in the comment section Social Media Sharing Include social media sharing buttons to promote the article on different platforms 3 By following this comprehensive outline you can create a wellstructured and informative blog post on the antidiabetic potential of Costus Igneus L that engages your audience and delivers valuable information Remember to maintain a factual and objective tone cite reputable sources and prioritize the safety and wellbeing of your readers

Antidiabetic Activity of Aloe vera and Ficus benghalensis in Alloxan induced miceA review on phytochemical, antioxidant, and Hypoglycemic activity of traditionally important Syzygium sppMedicinal PlantsAntidiabetic Medicinal PlantsPlants with Anti-Diabetes Mellitus PropertiesGreen Approaches in Medicinal Chemistry for Sustainable Drug DesignHerbal Formulations, Phytochemistry and PharmacognosyNew Antidiabetic DrugsAntidiabetic Activity of Leptospermum Flavescens in Alloxan-induced Diabetic RatsAntidiabetic Activity Of Medicinal Plants From Cholistan DesertAntidiabetic Potential of Plants in the Era of OmicsAntidiabetic Plants in India and Herbal Based Antidiabetic ResearchAntidiabetic Activity Studies of Aqueous Extract of Psidium Guajava L Leaves on STZ-induced Type 2 Diabetic Model RatsThai Medicinal Plants Recommended for Primary Health Care SystemAntidiabetic Activity of Curculigo Latifolia Extracts in Vitro and in Vivo StudiesOral Antidiabetic Therapy, 1956-1965Antidiabetic Activity of Spharenthus IndicusThe LancetAntidiabetic Activity of Standardised Cinnamomum Iners Reinw. Ex Blume Leaf

Extract in Rats Medicinal Plants for Antidiabetic Activity in Laboratory Animals M.Lakshmi prabha, M.Shanmugapriya and J.Kornalies Dr. Savitha Rabeque C P. C. Trivedi M. Naeem Appian Subramoniam Bimal Banik Mital Kaneria Clifford J. Bailey Asmawati Abd Rahim Mahmood Ahmad Deepu Pandita T. Pullaiah Md Hafizur Rahman Norman R. Farnsworth Nur Akmal Ishak Harold Atherton Tucker Hina Chadha Fazlina Mustaffa Sachin Badole

Antidiabetic Activity of Aloe vera and Ficus benghalensis in Alloxan induced mice A review on phytochemical, antioxidant, and Hypoglycemic activity of traditionally important Syzygium spp Medicinal Plants Antidiabetic Medicinal Plants Plants with Anti-Diabetes Mellitus Properties Green Approaches in Medicinal Chemistry for Sustainable Drug Design Herbal Formulations, Phytochemistry and Pharmacognosy New Antidiabetic Drugs Antidiabetic Activity of Leptospermum Flavescens in Alloxan-induced Diabetic Rats Antidiabetic Activity Of Medicinal Plants From Cholistan Desert Antidiabetic Potential of Plants in the Era of Omics Antidiabetic Plants in India and Herbal Based Antidiabetic Research Antidiabetic Activity Studies of Aqueous Extract of Psidium Guajava L Leaves on STZ-induced Type 2 Diabetic Model Rats Thai Medicinal Plants Recommended for Primary Health Care System Antidiabetic Activity of Curculigo Latifolia Extracts in Vitro and in Vivo Studies Oral Antidiabetic Therapy, 1956-1965 Antidiabetic Activity of Spharenthus Indicus The Lancet Antidiabetic Activity of Standardised Cinnamomum Iners Reinw. Ex Blume Leaf Extract in Rats Medicinal Plants for Antidiabetic Activity in Laboratory Animals *M.Lakshmi prabha, M.Shanmugapriya and J.Kornalies Dr. Savitha Rabeque C P. C. Trivedi M. Naeem Appian Subramoniam Bimal Banik Mital Kaneria Clifford J. Bailey Asmawati Abd Rahim Mahmood Ahmad Deepu Pandita T. Pullaiah Md Hafizur Rahman Norman R. Farnsworth Nur Akmal Ishak Harold Atherton Tucker Hina Chadha Fazlina Mustaffa Sachin Badole*

the book is an original research work submitted to karunya university it is written in lucid language with introduction review of literature materials and methods results and discussion

plants play a vital role in the life of every living being the global inclination towards herbal medicine has advanced the expansion of plant based pharmaceutical

industries to a vast extent plants are rich in both primary as well as secondary metabolites collectively called as phytochemicals today these phytochemicals in medicinal plants have received an immense importance due to their role in preventing diseases caused by oxidative stress which releases reactive oxygen species the genus *Syzygium* is one of the genera of the family *Myrtaceae* that is native to the tropics which plays an important medicinal role all over the world the species of the *Syzygium* possesses various pharmacological properties including antioxidant hypoglycaemic antimicrobial anti inflammatory anticancer and hepatoprotective activity all the pharmacological properties are due to the presence of flavonol glycosides jambolin eugenol quercetin myricetin etc this book highlights the review of ethno phyto pharmacological uses of *Syzygium* sps worldwide we hope that this book would be of great use to under graduates postgraduates researchers and faculty members who are studying teaching or working in the field of life science phytochemistry and ethnopharmacology this book could be of immense use for the researchers working in this area i shall deeply appreciate receiving any critical comments and suggestions from the readers which would help me to improve further publications

mankind has used plants as a source of medicine since ancient times initially these formed the bulk of folk or ethnomedicine practiced in india and other parts of the world later a considerable part of this indigenous knowledge was documented and merged with the organised system of medicine this book contains articles covering information on medicinal plants used for curing various ailments with a special focus on india it covers herbal formulation and its standardization herbal remedies in antibacterial therapy commercial use of medicinal plants and the ethno medico botany of some sacred plants the book also provides an account of traditional medicinal plants and their prospective applications in the modern day world this book will serve as a useful reference for botanists phytochemists and those related to the pharmaceutical industry

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

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

extensive experimentation and high failure rates are a well recognized downside to the drug discovery process with the resultant high levels of inefficiency and waste producing a negative environmental impact sustainable and green approaches in medicinal chemistry 2e reveals how medicinal chemistry can play a direct role in addressing this issue after providing essential context to the growth of green chemistry in relation to drug discovery the book goes on to identify a broad range of practical techniques and useful insights revealing how medicinal chemistry techniques can be used to improve efficiency mitigate failure and increase the environmental benignity of the entire drug discovery process drawing on the knowledge of a global team of experts sustainable and green approaches in medicinal chemistry second edition encourages the growth of green medicinal chemistry and supports medicinal chemists drug discovery researchers pharmacologists and all those in related fields across both academia and industry in integrating these approaches into their own work this second volume of the second edition includes the development of nanoparticles and nanocomposites as well as the application of ultrasound and microwave induced methods studies solventless synthesis defines the role of steroids studies reactions in aqueous solution identifies enzyme mediated reactions investigates ionic liquids and deep eutectic solvents explores natural products investigates solid supports realizes the effects of salts focuses on combinatorial chemistry develops one pot methods analyzes multi component reactions investigates dipole moment values and examines computer assisted methods highlights the need for adoption of sustainable and green chemistry pathways in drug development reveals risk factors associated with the drug development process and the ways sustainable approaches can help address these identifies novel and cost effective green medicinal chemistry approaches for improved efficiency and sustainability

herbal formulations phytochemistry and pharmacognosy combines the principles of natural medicines with refined modern technology to illustrate and promote the

development of more ecofriendly better effective easily available and affordable drug discovery processes the book provides classical and applied knowledge in drug discovery to broadly cover related aspects like herbal formulations phytochemistry and pharmacogenetic research the drug discovery process accelerates the design of new leads for various life threatening diseases and natural medicines and has been an integral part of drug discovery playing a major role as a template and offering holistic approaches for the management of various diseases explores natural products as potential source of novel drugs with new modes of action covers recent developments reporting up to date methods combines principles of natural medicines with refined modern technology

diabetes mellitus is a complex metabolic syndrome with wide spread derangements in the metabolism 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 prostrata 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

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

this book is a compilation work and embodies a fairly comprehensive information of the fundamental aspects of diabetes herbal based antidiabetic research and antidiabetic plants in india this book will promote research aspirations in botanists and particularly beginners in the area of medical botany it also provides information to the pharmacy students and researchers in identifying antidiabetic agents from natural resource and in standardizing herbal formulations crude drugs it provides information briefly about the important work done in antidiabetic research and a detailed account on the work done during 1995 to 2002 encompassing more than 200 references this book also provides brief information about diabetes especially pertaining to niddm different antidiabetic agents and management of niddm information about animal models used in the screening of plant extracts experimental protocols in antidiabetic research is also given in detail this book also offers information about the antidiabetic plants available in india a brief description about the plant its distribution in india flowering fruiting season vernacular names methods of propagation with a brief account of the herbal use in treating diabetes

an ethno medicinal plant *Psidium guajava* L is commonly known as guava belongs to myrtaceae family which has been claimed to possess several pharmacological properties including antidiabetic the study was designed to evaluate the antidiabetic activity of aqueous extract of *Psidium guajava* leaves on streptozotocin induced type 2 diabetic model rats streptozotocin was induced 90mg/kg ip to 48 hours old pups after three months diabetes was confirmed using OGTT fasting blood glucose 7mmol/l experimental rats were divided into four groups n=7 i normal water control 10 ml/kg ii diabetic water control 10 ml/kg iii gliclazide treated 20 mg/kg and iv *Psidium guajava* leaves aqueous extract treated 1.25g/kg the study materials were fed orally for 28 consecutive days blood samples were



collected from tail tip on 0 day and from heart by cardiac puncture on 28th day anti diabetic activity of the extract was evaluated by measuring glucose glucose oxidase serum insulin elisa triglyceride enzymatic colorimetric total cholesterol hdl cholesterol ldl cholesterol cholesterol oxidase peroxidase hepatic glycogen content anthrone reagent method and intestinal glucose absorption by gut perfusion technique serum glucose level of extract treated group and gliclazide treated group decreased by 16 and 4 respectively where glucose level of water control group increased by 7 extract treated group significantly p

this book is a description of anti diabetic activity of spheranthus indicus on streptozotocin induced diabetes on rats spheranthus indicus which is commonly known as gorukhmundi is a weed of indian origin whose various activities have been proven in charak sahinta the mortality rate with streptozotocin was quite low as compared to alloxan induced diabetes the response in lowering blood sugar in fasting as well as post postprandial rats along with the lipid profile like triglycerides ldl vldl with spheranthus indicus is quite positive this book can be used as good resource for designing a formulation using spheranthus indicus

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

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