



Antidiabetic activity of insulin plant (*Costus igneus*) leaf extract in diabetic rats

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ABSTRACT

The aim of this research was to investigate antidiabetic activity of *Costus igneus* (also known as insulin plant) leaves extracts in alloxan induced diabetic albino rats. A comparison was made between the action of *Costus igneus* extract and a known antidiabetic drug glibenclamide (600 µg/kg body wt.). An oral glucose tolerance test (OGTT) was also performed in experimental diabetic rats. Ethanolic extracts of *Costus igneus* were obtained by simple maceration method & were subjected to standardization by phytochemical screening methods. Preliminary phytochemical investigations showed the presence of alkaloids and steroids in ethanolic extract. Dose selection was made on the basis of acute oral toxicity study (50mg to 5000 mg/kg body weight) as per OECD guidelines. *Costus igneus* ethanolic extract showed significant ($P<0.001$) antidiabetic activity. These extracts also prevented body weight loss in diabetic rats. We are the first to report *Costus igneus* leaves pharmacognostic, phytochemical investigations and its antidiabetic activity in OGTT and alloxan induced model.

Keywords: Alloxan, Antidiabetic activity, TLC, *Costus igneus*.

INTRODUCTION

Diabetes mellitus is a serious complex chronic condition that is a major source of ill health worldwide. This metabolic disorder is characterized by hyperglycemia and disturbance of carbohydrate, protein and fat metabolism, secondary to an absolute or relative lack of the hormone insulin. Beside hyperglycemia, several other factors including dislipidemia or hyperlipidemia are involved in the development of micro and macrovascular complication of diabetes, which are the causes of morbidity and death. Evaluation of plant products to treat diabetes mellitus is of growing interest as they contain many bioactive substances with therapeutic potential. In recent years several authors evaluated and identified antidiabetic potential of traditionally used Indian medicinal plants using experimental using experimental animals. Previous studies confirmed the efficacy of several medicinal plants diabetes mellitus. Although a large number of medicinal plants have been already tested for their antidiabetic effects, these effects remain to be investigated in several other Indian medicinal plants.

Phytoconstituents are the chemical substances of organic nature which are formed through the activity of their individual cells. The process by which the plants are able to convert the simple chemical substances into complex organic compounds with the help of enzymes known as biosynthesis. The isolated/extracted chemical

constituents have various applications in medicines. Therefore the pharmacognostic research on indigenous drugs and medicinal plants has made rapid stride. Hence the pharmacognosy and phytochemistry has steadily grown into a dynamic wide multi dimensional study. So in the present study attempt has been made to evaluate various pharmacognostical, phytochemical and pharmacological parameters of the plant known as *Costus igneus*.

The plant *Costus igneus* belongs to the family Costaceae, which is found in tropical Africa, Asia, Australia, and North, Central and South America. In India, it is cultivated in coastal area, Uttar Kannada district of Karnataka. In this area, people take traditionally 2-3 leaves of this plant twice a day for the management of diabetes. It is a prostrate growing plant with spreading, rooting stems. Its leaves are slender and lance shaped with toothed, scalloped or lobed margins. They are grayish green stained with red purple above and darker purple beneath. The tiny white flowers grow intermittently throughout the year. This plant reaches a height of 6-inches and have an indefinite spread¹⁻⁴.

MATERIAL AND METHODS

Animal

Adult albino rats of wistar strain (150-200 gms) of either sex were procured from the government veterinary college, Bangalore, and housed in the animal house of the KLES College of pharmacy Ankola with 12 hour light and 12 hour dark cycles. Standard pellets obtained from Goldmohar rat feed, Mumbai, India, were used as a basal diet during the experimental period. The control and experimental animals

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M. Naeem, Tariq Aftab



Evaluation Of Antidiabetic Activity Of Costus Igneus L:

Ethnobotany of India, Volume 3 T. Pullaiah, K. V. Krishnamurthy, Bir Bahadur, 2017-09-07 Ethnobotany of India Volume 3 North East India and Andaman and Nicobar Islands is the third of a five volume set of Ethnobotany of India Bringing together in one place the important information on the ethnobotany of the North East India and Andaman and Nicobar Island region of India this informative volume presents the details of the tribes of the region their numbers their habitat their culture and particularly their usage of plants for various purposes *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 **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 **Advances in**

Processing Technology Gopal Kumar Sharma, Anil Dutt Semwal, Dev Kumar Yadav, 2021-11-29 The present book is an amalgamation of various topics which are quite relevant to academics pertaining to food science and technology Sincere attempts have been made to map consumer's perception in terms of sensory evaluation of processed foods and their role on quality determination To cover food safety the topic of advancement in the traceability and transparency of food supply chain is discussed in length Besides providing basic nutrition food has become an essential source of health promoting phyto ingredients too To take care of the concerned population therapeutic foods have also been discussed with their future trends Similarly recent trends in functional and Nutraceutical foods were also discussed in detail so as to give an exhaustive overlook of such subject matter To give impetus to the growing and aged generations the importance of the technology of weaning and geriatric foods is described in detail Bio preservation of various food products including fermentation had always attracted researchers for various reasons inclusive of its novel and chemical free approach of preservation which has been aptly covered under current expansions in microbiology for food preservation and also under progression in biotechnology and its application in food processing The cross linkage of advance technologies inclusive of nano science is elaborated as technological advances in nano science for specific food and nutrition delivery Oil and spice commerce are two giants pillars in food processing industries and readers would surely be wishing to understand the developments in the technology of oils refineries and condiments Smart and intelligent packing systems always extend an upper hand as far as shelf life monitoring of any processed food is concerned especially when these are import worthy products The science and technological approach of these packing innovations is also well covered Note T F does not sell or distribute the hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka This title is co published with NIPA **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

RECENT TRENDS IN CHEMICAL, AGRICULTURAL, BIOLOGICAL, ENVIRONMENT AND LIFE SCIENCE Dr. Dilipkumar A. Ode, Dr. Anil Kumar, Dr. Ashutosh Singh, Dr. Jagannath S. Godse, Dr. Umabati Sahu, Dr. Devendra Singh, Dr. Ravi Kant Rahi, Dr. Mansvi Yadav, 2024-09-19

Advances in Phytonanotechnology for Treatment of Various Diseases Prashant Kesharwani, Virendra Gajbhiye, 2023-09-29 Several plant bioactives or plant derived therapeutic molecules have been used against life threatening diseases and their nanoparticle mediated delivery greatly improves therapeutic efficacy Advances in Phytonanotechnology for Treatment of Various Diseases aims to describe past and recent advances achieved in the field of phytonanotechnology The chapters of this book provide thorough knowledge of medicinal plants plant bioactives plant extract based nanoparticle synthesis delivery of plant bioactives through nanoparticles and their therapeutic activity against life threatening diseases This book focuses on the therapeutic activity of phytocomponents present in plants from diverse families genera and species The book also covers future aspects and challenges present in phytonanotechnology for curing human diseases This book fulfils the thrust of researchers working in this field which further encourages them to make new discoveries in this area and support the development of effective nanoparticle mediated plant bioactive delivery platforms for treating human diseases Key Features Provides information on medicinal plants and plant bioactives used in the treatment of various life threatening diseases Covers green synthesis of nanoparticles as well as their toxicological and biological effects Explores various nanocarriers routinely used in the delivery of plant bioactives and their efficacy for future drug delivery Envisages future opportunities challenges and implementation made in phytonanotechnology based treatment of human diseases

Therapeutic Insights into Herbal Medicine through the Use of Phytomolecules Raja Chakraborty, Saikat Sen, 2024-10-17 Therapeutic Insights into Herbal Medicine through the Use of Phytomolecules offers a comprehensive exploration of the pharmacological potential of plant derived compounds The book provides an in depth look at the therapeutic applications of phytomolecules in various health conditions It begins with an analysis of bioactive phloroglucinol compounds and progresses to cover plant based approaches for managing rheumatoid arthritis diabetes cancer neurological disorders and antiviral activity The volume also covers the molecular mechanisms of flavonoids the preclinical pharmacology of Indian medicinal herbs and the

neuroprotective role of andrographolide in Parkinson's disease Designed to inform and inspire this book is ideal for researchers clinicians and students interested in the therapeutic potential of natural products **Traditional Medicines in Drug Discovery and Development** Varughese George, Thadiyan Parambil Ijinu, 2024-07-18 This comprehensive book comprising 20 chapters contributed by respected academics in their respective fields highlights the immense contribution of traditional medicine to the discovery and development of modern drugs Each chapter provides in depth details stimulating experts to further explore the flora used in traditional medicines and inspiring younger investigators to delve into the mysterious world of secondary metabolites in their quest for novel molecules This book is of immense value to scientists academicians researchers and students alike making it a valuable addition to personal collections and libraries **Advances in Pharmacognosy and Phytochemistry of Diabetes** Uchenna Estella Odoh, Habibu Tijjani, Chukwuebuka Egbuna, 2024-01-31 This book entitled Advances in Pharmacognosy and Phytochemistry of Diabetes uncovers the longstanding tradition of using medicinal plants to treat diabetes showcasing their growing popularity due to effective results and fewer side effects compared to conventional therapies As the global prevalence of diabetes continues to rise the book addresses the increasing inclination towards natural remedies for managing this condition The content covers the use of plants in diabetes treatment the therapeutic potential of phytochemicals and how these natural compounds target various human metabolic pathways With a focus on simplicity the book provides insights into the diverse classes of phytochemicals such as terpenoids flavonoids alkaloids and glycosides shedding light on their roles in controlling blood sugar levels and managing associated complications Written for a broad audience including industries educational institutions and health experts this book serves as a practical guide for those seeking natural alternatives in diabetes care It demystifies the science behind phytochemicals offering valuable knowledge for navigating the world of diabetes treatment with a focus on plant based solutions **Ethnobotany of India, 5-Volume Set** T. Pullaiah, K. V. Krishnamurthy, Bir Bahadur, 2021-03-11 This new 5 volume set Ethnobotany of India provides an informative overview of human plant interrelationships in India focusing on the regional plants and their medicinal properties and uses Each volume focuses on a different significant region of India including Volume 1 Eastern Ghats and Deccan Volume 2 Western Ghats and West Coast of Peninsular India Volume 3 North East India and Andaman and Nicobar Islands Volume 4 Western and Central Himalaya Volume 5 The Indo Gangetic Region and Central India With chapters written by experts in the field the book provides comprehensive information on the tribals the indigenous populations of the region and knowledge on plants that grow around them Each volume includes an introductory chapter with an overview of the region and then goes on to cover ethnic diversity and culture of the ethnic tribes plants used for healing and medical purposes for humans and animals ethnic food plants and ethnic food preparation specific information on the ethnomedicinal plants the parts used and the diseases cured other uses of plants by the ethnic tribes such as for fiber dyes flavor and recreation conservation documentation and management efforts of the ethnic

communities and their plant knowledge The books include the details of the plants used their scientific names the parts used and how the plants are used providing the what how and why of plant usage The volumes are well illustrated with over 100 color and 130 b w illustrations Together the five volumes in the Ethnobotany of India series bring together the available ethnobotanical knowledge of India in one place India is one of the most important regions of the old world and its ancient and culturally rich and diverse knowledge of ethnobotany will be valuable to many in the fields of botany and plant sciences pharmacognosy and pharmacology nutraceuticals and others The books also consider the threat to plant biodiversity imposed by environmental degradation which impacts cultural diversity Nutraceuticals in Veterinary Medicine Ramesh C.

Gupta,Ajay Srivastava,Rajiv Lall,2019-05-21 This unique work compiles the latest knowledge around veterinary nutraceuticals commonly referred to as dietary supplements from ingredients to final products in a single source More than sixty chapters organized in seven sections collate all related aspects of nutraceutical research in animal health and disease among them many novel topics common nutraceutical ingredients Section I prebiotics probiotics synbiotics enzymes and antibacterial alternatives Section II applications of nutraceuticals in prevention and treatment of various diseases such as arthritis periodontitis diabetes cognitive dysfunctions mastitis wounds immune disorders and cancer Section III utilization of nutraceuticals in specific animal species Section IV safety and toxicity evaluation of nutraceuticals and functional foods Section V recent trends in nutraceutical research and product development Section VI as well as regulatory aspects for nutraceuticals Section VII The future of nutraceuticals and functional foods in veterinary medicine seems bright as novel nutraceuticals will emerge and new uses of old agents will be discovered International contributors to this book cover a variety of specialties in veterinary medicine pharmacology pharmacognosy toxicology chemistry medicinal chemistry biochemistry physiology nutrition drug development regulatory frameworks and the nutraceutical industry This is a highly informative and carefully presented book providing scientific insight for academia veterinarians governmental and regulatory agencies with an interest in animal nutrition complementary veterinary medicine nutraceutical product development and research **Handbook of Green and Sustainable Nanotechnology** Uma Shanker,Chaudhery Mustansar Hussain,Manviri

Rani,2023-04-25 The Handbook of Green and Sustainable Nanotechnology presents sustainable and green technologies for the development of products and processes which are environmental friendly economically sustainable safe energy efficient decrease waste and diminish greenhouse gas emissions It provides the overall spectrum of fundamentals development and applications of sustainable and green technologies Topics such as legal health and safety issues are discussed as well The book elucidates paths to real time utilization of green and sustainable nanotechnology at commercial scale Essentials of Medicinal and Aromatic Crops Muhammad Zia-Ul-Haq,Arwa Abdulkreem AL-Huqail,Muhammad Riaz,Umar Farooq Gohar,2023-10-09 Medicinal and aromatic crops MACs are high value crops since the natural products obtained from them are low volume high value commodities that have numerous applications in various sectors such as the food beverage food

supplement flavor and fragrance perfumery and cosmetics pharmaceutical and aromatherapy industries In addition the plant biomass is used in the production of teas and medical applications in traditional and also modern medicines MACs are important mainly because they contain plant secondary metabolites such as essential oils alkaloids glycosides saponins tannins vitamins and other bioactives Plant secondary metabolites are differentiated from plant primary metabolites of photosynthesis and respiration since they are directly involved in growth and development of plants Some MACs are used as spices and culinary herbs since they contain mainly essential oils and are used as tonic to the digestive system appetite modification and other systems and may facilitate nutrient uptake and utilization from various foods A significant amount of MACs and their natural products have also demonstrated antimicrobial antifungal and bactericidal activity and significant antioxidant capacity In the past MACs and their natural products have been used as a source for various medicines in food and beverage production and in aroma products Essentials of Medicinal and Aromatic Crops summarizes the current knowledge on medicinal and aromatic crops including the agronomical practices of important MACs and their products their beneficial effects and utilization of MAP and their products The chapters provide a comprehensive guide to the most important and used medicinal and aromatic crops and their use in functional foods nutraceuticals and as bioactives against various ailments providing researchers teachers chemists food scientists agronomists and agroecologists in academia industry and government a fully up to date singular source on this important topic

New Technologies for Energy Transition Based on Sustainable Development Goals Kaviyarasu Kasinathan,Rasiah Ladchumananandasivam,S. Beer Mohamed,2024-08-02 This book describes numerous issues and brings an improved understanding of a key agenda item for the sustainable development goals SDGs The SDGs represent an urgent call for action by all countries developed and developing working jointly within the global community A few of the industries it supports include food processing energy biomedical science space research drug delivery and biosensors This book highlights multidisciplinary solutions for protecting the environment while ensuring the future of our planet The book mainly targets undergraduates postgraduates and doctoral students who are working in materials science and researchers across the world working in interdisciplinary research for climate change for sustainable growth

Ancient and Traditional Foods, Plants, Herbs and Spices used in Diabetes Rajkumar Rajendram,Victor Preedy,Vinood Patel,2023-09-26 The use of different foods herbs and spices to treat or prevent disease has been recorded for thousands of years Egyptian papyrus hieroglyphics and ancient texts from the Middle East have described the cultivation and preparations of herbs and botanicals to cure the sick There are even older records from China and India Some ancient scripts describe the use of medicinal plants which have never been seen within European cultures Indeed all ancient civilizations have pictorial records of different foods herbs and spices being used for medical purposes However there are fundamental issues pertaining to the scientific evidence for the use of these agents or their extracts in modern medicine These issues are explored in Ancient and Traditional Foods Plants Herbs and Spices Used in

Diabetes Features Investigates alternative healthcare paradigms that use traditional dietary foods plant derived materials and extracts to treat diabetes Describes scientific studies using modern day biomedical techniques Provides information on diets specific agents extracts and resources Many chapters focus on plant derived material providing a historical background uses toxicity and cautionary notes and summary points There have been considerable advances in scientific techniques over the last few decades These have been used to examine the composition and applications of traditional cures Modern science has also seen the investigation of herbs spices and botanicals beyond their traditional usage Diabetes is one of the most common diseases worldwide with over 400 million people with the illness With chapter contributions by an international panel of contributors this book is useful for researchers in the area of functional foods Diabetologists nutritionists endocrinologists healthcare workers and pharmacologists will also find this book extremely valuable *Empon-empon Penangkal Virus & Penambah Imunitas - 40 Resep Wedang Rimpang & Bumbu Dapur* Studi Biofarmaka IPB & Gagas Ulung,2020-04-06 Buku ini merupakan buku ke 3 yang disusun Pusat Studi Biofarmaka Tropika LPPM IPB bersama Gagas Ulung Dua judul sebelumnya telah terbit tahun 2014 yaitu Sehat Alami dengan Herbal 250 Tanaman Berkhasiat Obat dan Ramuan Herbal Berkhasiat untuk Cantik Alami Luar Dalam Empon empon yaitu jahe kunyit temulawak kencur dan banyak lagi rimpang khas Nusantara telah terbukti dapat memperkuat daya tahan tubuh manusia dalam menangkal virus Sejak berabad lalu di kalangan masyarakat Jawa ada kebiasaan minum jamu yang sebagian besar terbuat dari empon empon untuk menjaga kesehatan 40 resep wedang empon empon dalam buku ini ini mudah dicari bahannya di pasar tradisional dan gampang dibuat oleh siapa saja Yuk lawan virus dengan minum empon empon setiap hari Role of Nutrigenomics in Modern-day Healthcare and Drug Discovery Genevieve Dable-Tupas,Chukwuebuka Egbuna,2022-10-15 Role of Nutrigenomics in Modern day Healthcare and Drug Discovery presents novel insights into how these tools can be applied in the study of nutrient gene interaction for the management of certain disease conditions without using synthetic drugs or other treatments that come with side effects Divided into three parts Part I presents chapters that give background information of the subject while laying a framework for other chapters to follow Part II presents chapters that discuss the role of nutrigenomics in healthcare while Part III presents chapters that discuss the role of nutrigenomics in modern day drug discovery Written by a global team of experts from key institutions around the world this book is useful for drug developers medicinal chemists public health scientists molecular biologists biochemists toxicologists and food scientists Provides readers with background information on the role of nutrigenomics in healthcare with a focus on emerging topics in nutrigenetics and nutrigenomics Presents chapters that discusses the role of nutrigenomics in the modern day drug discovery for the treatment and management of diseases Includes a wide array of definitions methods summaries figures and tables to aid readers with understanding and application **Nanomaterials in Plants, Algae, and Microorganisms** Durgesh Kumar Tripathi,Parvaiz Ahmad,Shivesh Sharma,Devendra Kumar Chauhan,Nawal Kishore Dubey,2017-11-20 Nanomaterials

in Plants Algae and Microorganisms Concepts and Controversies Volume One discusses the vast amount of nanomaterials that have been released into the environment in a relatively short amount of time There is a need to understand what the implications to the health of our biota and ecosystems are as the earth is increasingly inundated with these materials Not all of the effects are negative but their impacts are increasing exponentially due to their size quantity and other factors Covers the issues of nanoparticles on more simple organisms and their ecosystems Presents issues that are specific to terrestrial ecosystems Contains contributions from global experts who help increase understanding at the physiological biochemical molecular and even genomic and proteomic levels Provides a critical assessment of the progress taking place on this topic and sheds light on future research needs

Antidiabetic Activity Studies of Aqueous Extract of Psidium Guajava L Leaves on STZ-induced Type 2 Diabetic Model Rats Md Hafizur Rahman, 2017 An ethno medicinal plant *Psidium guajava* L is commonly known as u2018Guavau2019 belongs to myrtacea 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 Streptozotocine 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

Evaluation Of Antidiabetic Activity Of Costus Igneus L Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Evaluation Of Antidiabetic Activity Of Costus Igneus L**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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Evaluation Of Antidiabetic Activity Of Costus Igneus L Introduction

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