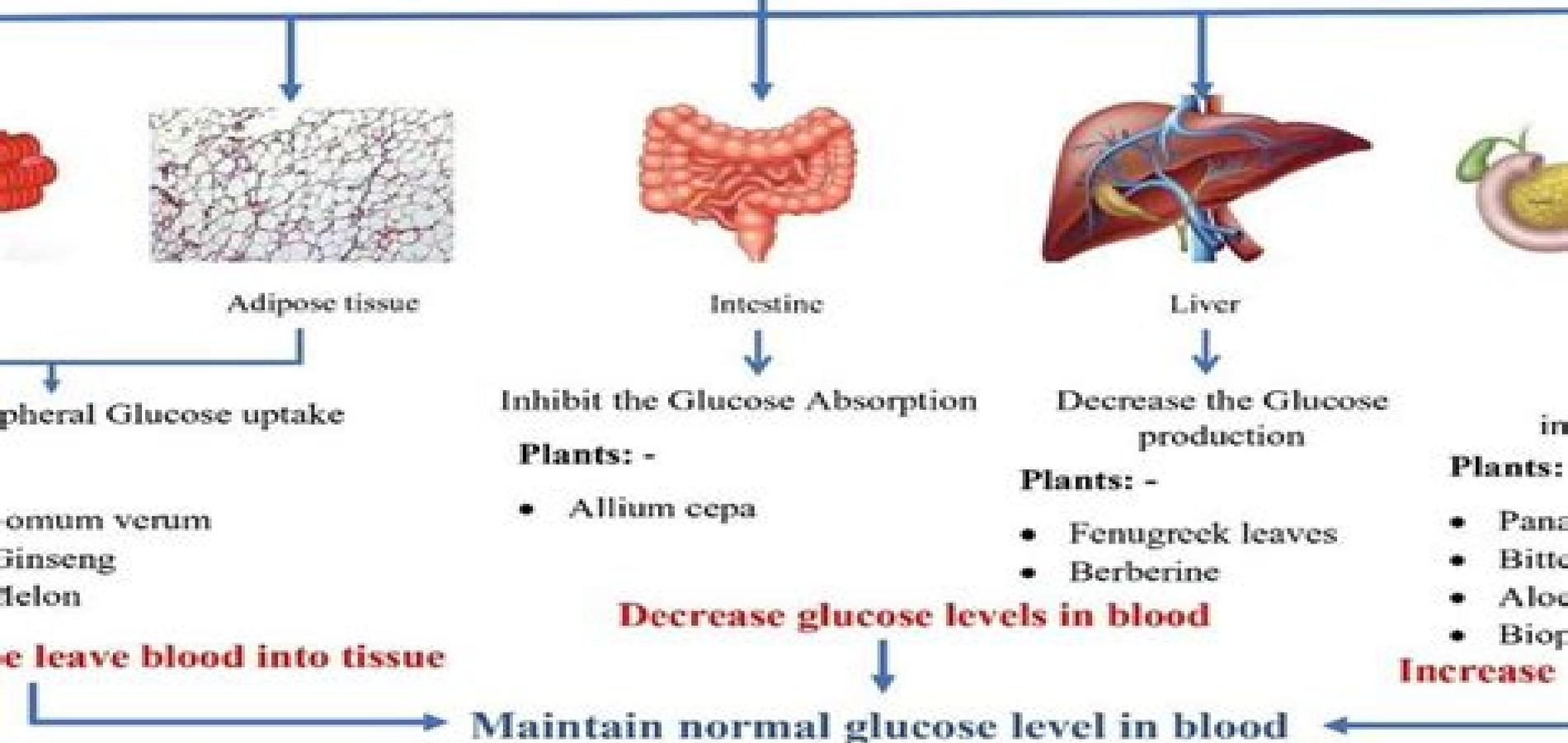


MECHANISM OF ACTION OF ANTIDIABETIC PLANT



Anti-Diabetic Herbs



Antidiabetic Plants

Arpita Roy



Antidiabetic Plants:

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 [Biotechnology of Anti-diabetic Medicinal Plants](#) Saikat Gantait, Sandeep Kumar Verma, Amit Baran Sharangi, 2021-11-13 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 *Antidiabetic 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 phytonutrients 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 *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* *Antidiabetic Plants in India and Herbal Based Antidiabetic Research* T. Pullaiah,K. Chandrasekhar Naidu,2003 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 Brief Description

About The Plant It S Distribution In India Flowering Fruiting Season Vernacular Names Methods Of Propagation With A Brief Account Of The Herbal Use In Treating Diabetes **Antidiabetic Plants: Properties and Applications** Arpita

Roy,2023-08-31 Diabetes is one of the chronic diseases of metabolism which procure around 2 8% of the world s demographics It is up surging across every continent in the world Treatment to prevent this disease is an important challenge for researchers Conventional drugs for the treatment of this disease improve insulin sensitivity Increased production of insulin results in a decreased blood glucose level However they have additional side effects and do not always provide satisfactory results The WHO estimates that approximately 80% of the world s population rely on traditional medicine for their primary health care and many plants have ethnomedical claims of usefulness in the treatment of diabetes and other chronic diseases globally and have been employed empirically in antidiabetic antihyperlipidemic antihypertensive anti inflammatory and antiparasitic remedies Plants are paramount for potential lead candidates discovery which can play an important role in drug discovery and development projects Plants are an alternative source to overcome this problem as they contain various phytochemicals which show protective effects against diabetes **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 Medicinal Plant

Research in Africa Victor Kuete,2025-04-16 Medicinal Plant Research in Africa second edition is an updated and complete reference on the pharmacology of most relevant African species and their phytochemical properties Although pharmacopoeias of most African countries are available and contain an impressive number of medicinal plants used for various therapeutic purposes however there was no global standard book on the nature and specificity of chemicals isolated in African medicinal plants This book has set the standard when it first published in 2013 and now is updated with novel phytochemicals belonging to diverse classes of terpenoids phenolics and alkaloids The first chapter cover monoterpenes and related phytochemicals and is followed by sesquiterpenes on chapter two Chapter tri reviews diterpenoids and chapter four

provides an overview of triterpenes and steroids Essential oils simple phenols phenolic acids and related esters come next in chapters five and six respectively The following chapters cover coumarins flavonoids quinones xanthenes lignans and stilbenes Tannins alkaloids and ceramides Chapters 15 to 20 focus on specific health conditions starting with antibiotic infection antimalarial and other antiprotozoal diseases cytotoxic and anticancer activity anti inflammatory and analgesic action antidiabetic botanicals and the applications of African plant phytochemicals on reproductive cardiovascular and central nervous systems conditions The final chapter covers the market and industry updates since the first edition published Medicinal Plant Research in Africa 2 Ed provides a complete overview of the main phytochemical principles present in the African flora and their pharmaceutical use Pharmaceutical scientists Ethnopharmacists botanists and medicinal chemists will benefit from the content organization and the inclusion of the most recent methods for structural identification of phytochemicals pharmacological techniques and data interpretation Covers novel chemical structures and new pharmacological data Highlights how phytochemicals can help overcome drug resistance Provides updated methods for structural identification of phytochemicals pharmacological techniques and data interpretation

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

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

Medicinal Plants Dorairaj Sudarsanam, Sivani Saravanamuttu-Padmakumar, 2012 Diabetes mellitus is a lifestyle disorder that is rapidly becoming a major threat to populations all over the globe Over the past 30 years the status of diabetes has changed from being considered as a mild lifestyle disorder of the elderly to one of the major causes of morbidity and mortality affecting people of all ages There seems to be a renewed interest in herbal medicines across the world today and plants are a powerhouse of sources for antidiabetic drugs The number of higher plant species on this planet estimates at 250 000 Of these only about 6% have been screened for biologic activity and a reported 15% have been evaluated phytochemically According to the WHO 21 000 plants are used medicinally around the world by 65% of the world s population The need for writing this review of antidiabetic medicinal plants came from the need to relate information about various medicinal plants with antidiabetic activity in order to restore the ethnomedical knowledge of antidiabetic plants This book will be of immense use to the scientific community to easily access the research data on antidiabetic plants for their therapeutic application

Antidiabetic Plants in India and Herbal Based Antidiabetic Research T Pullaiah, 2016 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 provide 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 in detailed account on the 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 NDDM 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 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

A comparative study on traditional herbal medicines of

Mannans (tribal group in Idukki, Kerala) for the treatment of diabetes Prem Jose Vazhacharickal, Jiby John Mathew, Sajeshkumar N.K, Nijamol Varghese, 2017-01-13 Scientific Study from the year 2016 in the subject Biology Botany Mar Augusthinose College language English abstract Diabetes is a complex metabolic disorder resulting from either insulin insufficiency or insulin dysfunction Diabetes mellitus affects most of the people in both developed and developing countries The treatment of diabetes with synthetic drugs is costly and chances of side effects are high Phytomedicine has been used since ancient times in various parts of the world where access to modern medicine is limited Medicinal plants and phytoconstituents play an important role in the management of diabetes mellitus especially in developing countries where resources are meagre Phytochemicals identified from medicinal plants present an exciting opportunity for the development of new types of therapeutics for diabetes mellitus Most prevalent among phytochemical groups are the alkaloids glycosides polysaccharides and phenolics such as flavonoids terpenoids and steroids This study aims to provide a comparative information about various plants used for antidiabetes treatment in a tribal community Mannans and their constituents which have been shown to display potent hypoglycemic activity The current study was focused on four plants named *Tinospora cordifolia* *Ensete superbum* *Coccinia grandis* wild and *Apama siliquosa* Lam which is locally known as Amruthu Kalluvazha Kattukoval and Alpam respectively The plant parts such as seed leaves stem and bark were used by the local people The plant materials prepared as decoction infusion aqueous extracts in milk or honey were used for the treatment of diabetes The plants that are being used by the local people of the study area have been isolated from plants for the treatment of diabetes The efficacy of these ethnomedicinal plants needs to be subjected to pharmacological validation it was found that *Coccinia grandis* was more efficient than the other plants Some antidiabetic plants may exert their action by stimulating the function or number of beta cells and thus increasing insulin release The study highlighted the central role of traditional herbal medicine for the treatment of diabetes in tribal community Ethnobotanical survey is most useful for scientists research scholars and scientific companies for further studies on isolation and identification of active compounds that can be formulated into antidiabetic drugs *A. Botany: symposium on medicinal plants*, 1954 [Antidiabetic Plants of India](#) Irfan Ali Khan, 2005 *Antidiabetic Drug Discovery from Natural Products* Shailendra S. Gurav, Uchenna Estella Odoh, Nilambari S Gurav, Yogesh A. Kulkarni, Rupesh Chikhale, 2025-06-16 Antidiabetic Drug Discovery from Natural Products provides up to date and in depth information practical understanding and guidance in a comprehensive systematic and easy to understand manner to scientists researchers and graduate students on important and emerging biochemical topics related to current antidiabetic drug discovery research This book analyzes and studies natural active substances and their medicinal chemistry in preventing and treating diabetes and its complications It covers a wide range of critical issues to assist chemists in the discovery and development of safer more affordable treatments from identifying promising leads from medicinal plants to the extraction and synthesis of bioactive compounds Following an introduction to bioactive chemical compounds from plants with

antidiabetic effects the book describes the discovery and extraction of antidiabetic drugs and antioxidants from natural sources It also examines antidiabetic plants before delving deeper into the chemistry behind major medicinal substances and their derivatives like Mangiferin and Resveratrol discussing both current and prospective uses Covers the history and current trends in antidiabetic natural product research Focuses on each class of natural products and their therapeutic effects on diabetes Analyzes the specific roles of different plant metabolites in the treatment of diabetes *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 phytochemical 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 *Ethnic Indian Plants in Cure of Diabetes* Sarvesh Kumar Sood,Ruchika Bhardwaj,T. N. Lakhnupal,2005 The present compendium is first of its kind providing up to date information on the phytotherapeutic potential including biological activity and active constituents of 360 Indian plants under 288 genera *Tongkat Ali, Kacip Fatimah & Pegaga : New Dimensions in Complementary Healthcare* Yu Shyun Chang,Mastura Mohtar,Nurhanan Murni Yunus,2004 **Ethnobotany and Medicinal Plants of Indian Subcontinent** J. K. Maheshwari,2000 The Book Contains 89 Papers On Ethnobotany Medicinal Plants And Economic Plant Of Indian Sub Continent

This book delves into Antidiabetic Plants. Antidiabetic Plants is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Antidiabetic Plants, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

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- Chapter 3: Antidiabetic Plants in Everyday Life
- Chapter 4: Antidiabetic Plants in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Antidiabetic Plants. This chapter will explore what Antidiabetic Plants is, why Antidiabetic Plants is vital, and how to effectively learn about Antidiabetic Plants.
3. In chapter 2, this book will delve into the foundational concepts of Antidiabetic Plants. The second chapter will elucidate the essential principles that need to be understood to grasp Antidiabetic Plants in its entirety.
4. In chapter 3, the author will examine the practical applications of Antidiabetic Plants in daily life. The third chapter will showcase real-world examples of how Antidiabetic Plants can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Antidiabetic Plants in specific contexts. The fourth chapter will explore how Antidiabetic Plants is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Antidiabetic Plants. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Antidiabetic Plants.

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