

Functions of Plant lectins

- Little is known
- In legume seeds can comprise up to 30% of the total protein
- They are expressed in other parts of the plant
 - Nodulation factor in roots

Plant Lectins

Howard J. Allen, Edward C. Kisailus



Plant Lectins:

Plant Lectins A. Pusztai, 1991 This volume surveys the chemistry biochemistry biosynthesis metabolism and pharmacological properties of lectins Lectins which are most commonly found in plants are widespread natural products with striking biological activities Their specific ability to recognise and bind to simple or complex saccharides facilitates their role as effective information protein molecules As agents of cell to cell recognition lectins promote symbiosis between plants and specific nitrogen fixing soil bacteria As natural defensive molecules they can protect plants against predators such as bacteria fungi and insects As part of our diet lectins are powerful exogenous growth factors in the small intestine and influence our health the digestive function and the bacterial ecology of the alimentary tract Lectins are also important research tools in preparative biochemistry and cell science Handbook of Plant Lectins Els. J. M. Van Damme, Willy J. Peumans, Arpad Pusztai, Susan Bardocz, 1998-03-06 Plant lectins are extensively used as tools and as bioactive proteins in different areas of biomedical and biological research The Handbook of Plant Lectins provides a comprehensive yet concise overview of the biochemical properties carbohydrate binding specificity biological activities and applications of most of the currently known plant lectins This handbook consists of two major sections an introductory guide and a quick reference dictionary Part I acquaints the newcomer to the lectin field with the essential information on lectins and their importance to biomedicine what are lectins their carbohydrate binding specificity effects on nutrition and immunology use in histochemistry application as therapeutic agents Part II lists approximately 200 lectin entries in alphabetical order Each entry deals with the lectins of a particular plant and provides where known details of isolation and characterisation sugar binding specificity biological activities applications commercial availability and a bibliography Useful summary tables list lectins according to their specificity thereby allowing the user to choose the best lectin for their application A list of suppliers is also provided Handbook of Plant Lectins will be of interest to biologists and biomedical researchers studying cell biology cancer research nutrition immunology pathology and physiology **Plant Glycobiology - a sweet world of lectins, glycoproteins, glycolipids and glycans** Els J. M. Van Damme, Nausicaä Lannoo, Cécile Albenne, Elisabeth Jamet, 2015-02-12 Plants synthesize a wide variety of unique glycan structures which play essential roles during the life cycle of the plant Being omnipresent throughout the plant kingdom ranging from simple green algae to modern flowering plants glycans contribute to many diverse processes Glycans can function as structural components in the plant cell wall assist in the folding of nascent proteins act as signaling molecules in plant defense responses or ER stress pathways or serve within the energy metabolism of a plant In most cases glycans are attached to other macromolecules to form so called glycoconjugates e.g. glycoproteins proteoglycans and glycolipids but they can also be present as free entities residing in the plant cell Next to the broad complex set of glycans plants also evolved an elaborate collection of lectins or proteins with a lectin like domain which can recognize and bind to endogenous plants own or exogenous foreign glycans Though still poorly understood in plants the

dynamic interactions between lectins and carbohydrate structures are suggested to be involved in gene transcription protein folding protein transport cell adhesion signaling as well as defense responses As such a complex and largely undetermined glycan interactome is established inside plant cells between cells and their surrounding matrix inside the extracellular matrix and even between organisms Studying the biological roles of plant glycans will enable to better understand plant development and physiology in order to fully exploit plants for food feed and production of pharmaceutical proteins In this Research Topic we want to provide a platform for articles describing the latest research perspectives and methodologies related to the fascinating world of plant glycobiology with a focus on following subjects 1 Identification and characterization of plant glycans their biosynthetic and degradation enzymes 2 Characterization of plant lectins and glycoproteins 3 Plant glycans in the plant s energy metabolism 4 Role of plant glycans in plant defense signaling 5 Use of plant lectins in pest control 6 Plant lectins as new tools in human medicine 7 Glyco engineering in plants

The Molecular Immunology of Complex Carbohydrates-3 Albert M. Wu,2011-05-27 Based on the third symposium on Molecular Immunology of Complex Carbohydrates this text covers the latest in glycotopes structures and functions of complex carbohydrates recognition factors of lectins biomolecular interactions and other glycosciences This volume highlights the informative events of the Symposium on Molecular Immunology of Complex Carbohydrates III held at the Institute of Biological Chemistry Academia Sinica on July 15 20 2007 in Taipei Taiwan

Lectins Arpad Pusztai,Susan Bardocz,2005-08-02 Lectins form a ubiquitous and important class of natural carbohydrate binding information proteins Although the main scientific interest was originally focussed on toxic lectins such as ricin recent emphasis has shifted to exploring their involvement in cell to cell communication and recognition in microorganisms plants and animals As knowledge of the basic properties and biological activities of lectins has increased exciting opportunities have arisen for the exploitation of some of the advantageous aspects of fundamental lectinology *Lectins Biomedical Perspectives* records the major achievements of an initiative funded by the European Community to coordinate lectin research throughout Europe

Lectins Preetham Elumalai,Sreeja Lakshmi,2022-03-09 This book reviews the relationship between receptors carbohydrate moieties and pathogenic surfaces and lectins pathophysiology of immune responses and examines the mechanisms of action of the molecules for the treatment potentials Increasing evidence has suggested that lectin carbohydrate interactions perform important roles in various regulations of immune responses but much remains to be learned about these crucial properties and their interplay with other molecules In addition a better understanding of the structural and functional properties of lectin and the activated immune response will be of critical importance for the development of new diagnostic tools and therapeutic strategies These key areas are the focus of this book which documents the latest research findings in the field Evidence is provided for the various lectin types from animal and plant as well as microbial or marine lectins and this wide range of molecular knowledge directs us to various diseases including infectious diseases and cancer In presenting state of the art knowledge on the interactions between lectin

and its interactions the book will help to pave the way for the development of novel targets for the prevention and treatment of many disorders *Advances in Plant Physiology (Vol. 17)* A. Hemantaranjan, 2017-04-01 The conception of Volume 17 of the International Treatise Series on Advances in Plant Physiology has been made possible entirely due to worthy contributions from World Scientists teachers and researchers of eminence in unequivocal fields Scientists are well in search of specific and complete literature pertaining to meaningful research for the holistic development of agriculture The undertaking of this Treatise Series on Plant Physiology is to genuinely categorize the insufficiencies in view of mounting consequential researches for increasing productivity prosperity and sustainability of agriculture through influential and developing technologies for restructuring metabolic limitations most responsive to abiotic stress factors Certainly our idea is to recognize innovative science of value across the broad disciplinary range of the treatise The aim is to make stronger the distinctive outcome of conscientious research in some of the very sensitive areas of Plant Physiology Plant Molecular Physiology Molecular Biology that broadly highlights the recent developments and mechanisms underlying plant resilience to changing environments This volume brings collectively much needed twenty one review articles by fifty one dedicated contributors for this volume assorted into five relevant sections viz Section I Abiotic Stresses Section II Plant Trace Elements in Plant Physiology Section III Plant Functions Research in Agricultural Progression Section IV Physiological Basis of Yield Section V Nutraceuticals Medicinal phenomics and its application in physiological breeding trace elements plant functions physiological basis of yield variation medicinal and aromatic plants and so on Apart from fulfilling the acute need of this kind of select edition in different volumes for research teams and scientists engaged in various facets of plant sciences research in traditional and agricultural universities institutes and research laboratories throughout the world it would be extremely a constructive book and a voluminous reference material for acquiring advanced knowledge by post graduate and Ph D scholars in response to the innovative courses in Plant Physiology Plant Biochemistry Plant Molecular Biology Plant Biotechnology Environmental Sciences Plant Pathology Microbiology Soil Science Agricultural Chemistry Agronomy Horticulture and Botany **Proceedings of IUB Symposium No. 144, The Seventh International Lectin Meeting**

Bruxelles, Belgium, August 18-23, 1985 T. C. Bog-Hansen, E. van Driessche, 2020-05-18 No detailed description available for Proceedings of IUB Symposium No 144 The Seventh International Lectin Meeting Bruxelles Belgium August 18 23 1985

Induced Plant Resistance to Herbivory Andreas Schaller, 2008-03-27 This timely book provides an overview of the anatomical chemical and developmental features contributing to plant defense with an emphasis on plant responses that are induced by wounding or herbivore attack The book first introduces general concepts of direct and indirect defenses followed by a focused review of the different resistance traits Finally signal perception and transduction mechanism for the activation of plant defense responses are discussed **Defense-Related Proteins in Plants** Santosh Kumar Upadhyay, 2024-06-04

Defense related Proteins in Plants presents detailed information on the identification characterization mechanism of action

and application in crop improvement programs of these mechanisms in a single cohesive volume It includes foundational information to enable the understanding of these proteins and their applications in crop improvement programs Defense related proteins have drawn the attention of various plant and agricultural scientists and industries because they provide generalized direct stress tolerance in crop plants These proteins including lectins chitinases thaumatin and osmotin among others have been used for the development of transgenic plants to provide protection against various abiotic and biotic stresses While there is a breadth of research and application information available it has not previously been compiled into a single volume for the ease of comparison and translational work This book is a complete guide to defense related proteins in plants for various categories of readers Also it will inspire future research into the unexplored areas of the molecular aspects of these proteins to understand their role and action mechanism in plants and living organisms as a whole Additionally agricultural scientists and industry professionals will find the application part of this book helpful in future crop design strategies Presents comprehensive information on defense related proteins in plants Highlights practical application of defense related proteins in crops Structured for ease of comparison and translational work *Plant Glycobiology - A Sweet World of Glycans, Glycoproteins, Glycolipids, and Carbohydrate-Binding Proteins* Els J. M. Van Damme, Georg J. Seifert, Richard Strasser, 2021-10-21 *Plant Tissue Culture and Molecular Markers* Ashwani Kumar, N. S. Shekhawat, 2009 Plant tissue culture techniques help in understanding basic life processes which is essential to improving crop productivity Furthermore recently molecular biology has assumed great importance with respect to plant biotechnology This book combines all three aspects into one with a focus on practical applications of various techniques It discusses micropropagation studies on several crop plants the molecular basis of understanding various life processes including the molecular basis of somatic embryogenesis and other physiological and biochemical processes having significant biotechnological applications It also covers in vitro studies of certain important plants like Aloe vera Simmondsia chinensis Anacyclus pyrethrum and Crataeva nurvala Arachis hypogaea L Phoenix dactylifera Dendrocalamus asper Asparagus adscendens Roxb natural products of plant origin with their therapeutic potential and biotechnological production as well as genome analysis of crop plants with future applications in biotechnology *Bioprospecting of Plant Biodiversity for Industrial Molecules* Santosh Kumar Upadhyay, Sudhir Pratap Singh, 2021-06-22 BIOPROSPECTING OF PLANT BIODIVERSITY FOR INDUSTRIAL MOLECULES A comprehensive collection of recent translational research on bioresource utilization and ecological sustainability Bioprospecting of Plant Biodiversity for Industrial Molecules provides an up to date overview of the ongoing search for biodiverse organic compounds for use in pharmaceuticals bioceuticals agriculture and other commercial applications Bringing together work from a panel of international contributors this comprehensive monograph covers natural compounds of plants endophyte enzymes and their applications in industry plant bioprospecting in cosmetics marine bioprospecting of seaweeds and more Providing global perspectives on bioprospecting of plant biodiversity the authors

present research on enzymes mineral micro nutrients biopesticides algal biomass and other bioactive molecules In depth chapters assess the health impacts and ecological sustainability of the various biomolecules and identify existing and possible applications ranging from ecological restoration to production of essential oils and cosmetics Other topics include bio energy crops as alternative fuel resources the role of plants in phytoremediation of industrial waste and the industrial applications of endophyte enzymes This comprehensive resource Includes a through introduction to plant biodiversity and bioprospecting Will further the knowledge of application of different plants and improve research investigation techniques Summarizes novel approaches for researchers in food science microbiology biochemistry and biotechnology Bioprospecting of Plant Biodiversity for Industrial Molecules is an indispensable compendium of biological research for scientists researchers graduate and postgraduate students and academics in the areas of microbiology food biotechnology industrial microbiology plant biotechnology and microbial biotechnology

Commentaries in Plant Science Harry Smith,2016-07-29

Commentaries in Plant Science is a compilation of reviews of recent developments in pure and applied plant science It covers a wide range of topics such as carboxylation photorespiration carbon assimilation mating reaction protein evolution recombination and photoperiodic induction The book is comprised of 21 commentaries and begins with some of the physiological processes in C4 plants The succeeding chapters deal with stomatal control of entry of air pollutants mating reactions in yeasts uptake and expression of DNA by plants mechanics and metabolisms of guard cells breeding for modified fatty acid composition gravity sensing mechanism and response mechanism of root caps It also outlines the functions of lectins plant virus inhibitors and cytokinins Research workers teachers and students who wish to broaden their knowledge about plant science will find this book very useful

Molecular Physiology of Abiotic Stresses in Plant Productivity A.

Hemantaranjan,2018-01-01 This book is the outcome of global dedication for researches at physiological and molecular levels that substantially deals with challenges of ongoing international concern over the abiotic stress research which as the major environmental factors affects plant growth development On the other hand this book also highlights focused researches of significance on image based plant phenotyping phenomics and its application in physiological breeding trace elements plant functions physiological basis of yield variation medicinal and aromatic plants and so on The aim is to make stronger the distinctive outcome of conscientious research in some of the very sensitive areas of Plant Physiology Plant Molecular Physiology Molecular Biology that broadly highlights the recent developments and mechanisms underlying plant resilience to changing environments This book brings collectively much needed twenty one review articles commendably dealing with challenges of ongoing international concern over the abiotic stresses under changing climate besides vital aspects related to image based plant phenotyping phenomics and its application in physiological breeding trace elements plant functions physiological basis of yield variation medicinal and aromatic plants and so on Apart from fulfilling the acute need of this kind of select theme by research teams and scientists engaged in various facets of plant sciences research in traditional and

agricultural universities institutes and research laboratories throughout the world it would be extremely a constructive book for acquiring advanced knowledge by post graduate and Ph D scholars in response to the innovative courses in Plant Physiology Plant Biochemistry Plant Molecular Physiology Plant Biotechnology Environmental Sciences Plant Pathology Microbiology Soil Science Agricultural Chemistry Agronomy Horticulture and Botany *Plant Stress Tolerance* Jen-Tsung Chen,2025-02-18 *Plant Stress Tolerance Molecular Mechanisms and Breeding Strategies Volume Two* explores methods of precise management of biotic stressors including pests and pathogens This is based on advanced molecular technologies including mutagenesis genetic engineering genome wide association study marker assisted selection genomic selection molecular marker based platforms functional genomics multiple omics tools high throughput technologies computational biology epigenetic manipulation and clustered regularly interspaced short palindromic repeats CRISPR based genome editing This book proposes strategies involving immunity boosting through releasing genetic resources from naturally resistant plants regulating defense systems by phytohormones promoting disease tolerance by biostimulants and nanotechnology such as nanocarriers for managing biotic stressors These positive approaches help to advance and accelerate breeding programs for disease tolerant crops against various pests and pathogens *Plant Stress Tolerance Molecular Mechanisms and Breeding Strategies Volume Two* is an ideal reference for the research fields of plant pathology plant disease management plant physiology plant functional genomics multiple omics systems biology and crop breeding The book inspires ideas from the reader regarding future research on disease resilient crops to face the challenge of global climate change and the increasing human population **Hormones, Receptors and Cellular Interactions in Plants** C. M. Chadwick,D. R.

Garrod,1986-02-06 This book takes a broad look at the current status of research on receptors in higher and lower plants It starts with a discussion of some hormone receptors auxins ethylene and gibberellin in higher plants and then considers the role of cyclic AMP and its receptors in the slime mould Dictyostelium Glycoconjugates Howard J. Allen,Edward C.

Kisailus,1992-04-15 *Glycoconjugates Composition Structure and Function* provides an excellent overview of the composition biosynthesis function and structure of the carbohydrate chains of glycoconjugates from higher organisms It is recommended as a core reference text providing excellent coverage of the glycoconjugate field **Animal Lectins: Form, Function and Clinical Applications** G. S. Gupta,2012-11-13 *Animal Lectins Form Function and Clinical Applications* presents up to date knowledge of animal lectins Detailed descriptions on biological activities tissue and or subcellular distribution molecular structure gene organization possible functions clinical applications lectin ligand interactions and their intervention for therapeutic purposes are provided The recently discovered C type lectins as well as further novel super families of this group of molecules are described in detail Furthermore the clinical significance of animal lectins in inflammatory diseases defects of immune defense and autoimmunity are described and their application as drugs and therapeutic targets is discussed With the increasing interest in lectins in biomedical research and their therapeutic applications this book on animal lectins and

associated proteins is a must have for researchers in the area *Plants that Fight Cancer, Second Edition* Spyridon E. Kintzios, Maria G. Barberaki, 2019-06-26 *Plants that Fight Cancer Second Edition* is a compilation that reviews cancer treatment and research based information on the plant kingdom as the source of both known and novel chemical moieties and mixtures many of them still under identification This new edition follows the organization of the first book with a considerable expansion of content that more than doubles the volume of information Divided into four segments the first part is dedicated to a review of our current knowledge of cancer the different types and incidence the molecular pathways of the disease and the various treatment protocols with an emphasis on chemotherapy The second part is a brief journey in pharmacognosy with detailed information about each of the fourteen different chemical groups of plant secondary metabolites their use in cancer chemotherapy and updated information on the biotechnological production of the most representative compounds in clinical practice The third part of the book comprises six chapters dedicated to either plant chemotherapeutical approaches to specific cancer types e g bladder prostate or specific groups of plant secondary metabolites with novel and promising properties for cancer treatment e g naphthoquinones lectins phenanthridone alkaloids The fourth part containing investigative information on almost 300 individual plant species with established anticancer properties either on a clinical or in vitro level is with no doubt the most analytical This new edition contains chapters on cytotoxic phenanthridone alkaloid constituents of the Amaryllidaceae naphthoquinone contained anticancer terrestrial plants polyphenols and cancer immunology medicinal plant product based fabrication nanoparticles Au and Ag and their anticancer effects bladder and prostate cancer and plant lectins in cancer treatment FEATURES Provides efficient information for all kinds of cancer and plant chemotherapeutical approaches to specific cancer types Discusses specific groups of plant secondary metabolites with novel and promising properties for cancer treatment Provides scientific information for medicinal uses of various plants Contains analytical information on almost 300 individual plant species with established anticancer properties either on a clinical or in vitro level Focuses on plant genera and species that are either already used in cancer chemotherapy or have been identified with antitumor and antileukemic properties to a bigger or lesser extent

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