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# Lectins and Glycobiology



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# Lectins And Glycobiology

**Preetham Elumalai, Baskaralingam  
Vaseeharan, Sreeja Lakshmi**



## **Lectins And Glycobiology:**

**Lectins and Glycobiology** Hans-Joachim Gabius, Sigrun Gabius, 2012-12-06 The intriguing complexity precision and regulation of the wide range of biological processes is determined by intricate mechanisms of molecular recognition Their nature is under intense scrutiny In addition to the well appreciated interaction of proteins either with amino acid or nucleotide sequences the investigation of their interplay with carbohydrate elements of cellular glycoconjugates currently exerts increasing attraction In the group of carbohydrate binding proteins lectins are distinguished from antibodies or ligand affecting enzymes according to the most recent definition The thorough analysis of their structure and function is considered as a focus to collect a critical mass of information for delineating details of a further array of biochemical processes with pivotal physiological impact Following an already century long history of scientific description reflected by subjectively chosen highlights see the Brief History of Lectin Research at page VI the excitement in glycobiological research that prevails today can easily be explained by our growing awareness of the multifarious significance of a sugar code system of biological information This present notion unmistakably has an impact on lines of research in diverse disciplines like cell and molecular biology histochemistry or clinical sciences It also prompts inherent practical questions such as how to obtain lectins or how to employ them as instruments in various assay systems with the best possible results Thus this book is devoted intentionally to cover the techniques in different research fields that deal with lectins

**Lectins and Glycobiology** Hans-Joachim Gabius, Sigrun Gabius, 1993-01-01 The role of lectins and glycoconjugates in various cellular processes is receiving increasing interest Since many cellular glycoconjugates are ligands for lectins they are used as efficacious tools in biochemistry and cell research Lectins and Glycobiology provides all relevant techniques to investigate the structure and function of lectins and their various reactions Included are methods for the preparation of synthetic carbohydrate ligands the determination of physico chemical properties of lectin oligosaccharide interactions the isolation and chemical modification of lectins and assays to detect and quantitate lectins Several chapters focus on the study of signal transduction and cellular responses induced by lectins as well as on cellular adhesion and cell recognition involving lectin glycoprotein interaction Further major topics are molecular biological techniques such as the use of recombinant or mutant lectin genes

*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

Marine Glycobiology, Glycomics and Lectins Yasuhiro Ozeki, 2019-11-20 Glycans carbohydrate chains of marine creatures are rich and diverse in polysaccharides glycoproteins and glycolipids The chains that are metabolized by glycan related enzymes glycosyltransferases and glycosidases are recognized by glycan binding proteins lectins which regulate cellular processes such as growth differentiation and death Marine glycomics that involves the genome and transcriptome accelerates our understanding of the evolution of glycans glycan related enzymes and lectins From 2017 to 2019 the Special Issue Marine Glycobiology Glycomics and Lectins of the journal Marine Drugs published scientific articles and reviews on the background of glycobiology that is glycan based biosciences The aim was to promote the discovery of novel biomolecules that contribute to drug development and clinical studies This has great potential for establishing connections between the fields of both human health and marine life sciences This book contains 11 scientific papers representing current topics in comprehensive glycosciences related to therapeutic agents from marine natural products as outlined *Lectins and Pathology* Michel Caron, Annie-Pierre Seve, 2003-09-02 The present understanding of the various implications of lectins in pathology are summarised in this timely text With contributions from leading investigators in the field of lectin research *Lectins and Pathology* provides up to date information on key developments within this field including the use of lectins and lectin binding molecules as tools the involvement of endogenous animal or human lectins in inflammation cancer invasion and metastasis as well as the importance of lectins in bacteriology and parasitology This volume contains useful knowledge for clinical investigators cell biologists biochemists and biotechnologists as well as for the graduate students interested in getting a comprehensive coverage of this field *Glycosciences* Hans-Joachim Gabius, Sigrun Gabius, 2008-09-26 A comprehensive survey of the topic ranging from basic molecular research to clinical applications Critical reviews by leading

experts in each field summarize the state of knowledge and discuss the anticipated benefits of novel approaches and strategies These include the impact of modern analysis techniques on glycobiology the use of synthetic neoglycoproteins or the clinical consequences of new insights into the physiological role of lectins and glycoconjugates in pathology oncology immunity neuroscience and reproduction medicine Throughout the aim is to separate realistic applications from mere hopes

**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 *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 *Glycomics*, 2010-10-25 In this 3 volume collection focusing on glycomics readers will appreciate how such discoveries were made and how such methods can be applied for readers own research efforts Each chapter has been designed so that enough scientific background will be given in each chapter for further development of methods by readers themselves Useful for all levels of scientists starting from the last years of colleges graduate students postdoctoral fellows to professors and to all levels of scientists in research institutes including industry

**LECTINS AND GLYCOBIOLOGY II**, Avidin-Biotin Interactions Robert J. McMahon, 2008-02-26 This book is specifically about the application of the extremely powerful interaction between the protein avidin or its homologues and the vitamin biotin and some of its homologues With excellent descriptions of laboratory protocols written by

expert researchers this volume is equally perfect for the student or the professional laboratory scientist *Aquatic Lectins* Preetham Elumalai, Baskaralingam Vaseeharan, Sreeja Lakshmi, 2022-05-03 This book provides the latest information on fish lectins from the perspective of inflammation and presents new ideas on the complicated mechanisms of lectin biochemistry and associated interactions Key features include discussion of mechanisms recently identified to be involving lectin family types presentation of the latest evidence regarding the molecular approaches in fish lectins and thorough explanation of the concept of antimicrobial and immunological roles and current understanding of the significance of its disease resistance related studies Gene expression studies is another important element of the book and it is proposed that gene editing technology provides gaining attention in the biological role of fish lectin research Examples of the many latest molecular approaches applications and future perspectives in fish lectin specific topics covered in this book include the information right from the basics to the advancements in this area The book will be a valuable update and resource for both experienced and younger researchers working in the field of lectins and immunology *Lectins* Arpad Pusztai, Susan Bardocz, 1995-04-27 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 known **Animal Lectins** Gerardo R. Vasta PhD, Hafiz Ahmed PhD, 2008-10-09 Introduces Groundbreaking Approaches for Assessing Lectin Function Lectins and their ligands are under quite a heavy microscope due to their potential applications to pharmacology immunology cancer therapy and agriculture With growing interest in the glycobiology field the body of research related to lectin roles has grown at an explosive rate **Marine Glycobiology, Glycomics and Lectins** Yasuhiro Ozeki, 2019 Glycans carbohydrate chains of marine creatures are rich and diverse in polysaccharides glycoproteins and glycolipids The chains that are metabolized by glycan related enzymes glycosyltransferases and glycosidases are recognized by glycan binding proteins lectins which regulate cellular processes such as growth differentiation and death Marine glycomics that involves the genome and transcriptome accelerates our understanding of the evolution of glycans glycan related enzymes and lectins From 2017 to 2019 the Special Issue Marine Glycobiology Glycomics and Lectins of the journal Marine Drugs published scientific articles and reviews on the background of glycobiology that is glycan based biosciences The aim was to promote the discovery of novel biomolecules that contribute to drug development and clinical studies This has great potential for establishing connections between the fields of both human health and marine life sciences This book contains 11 scientific papers representing current topics in comprehensive glycosciences related to therapeutic agents from marine natural products as outlined Plant Lectins—Advances in Research and Application: 2012 Edition , 2012-12-26 Plant Lectins Advances in Research and Application 2012 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Plant Lectins in a concise format The editors have built Plant Lectins Advances in Research and

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Abnormalities of IgG Glycosylation and Immunological Disorders D. A. Isenberg, T. W. Rademacher, 1996-07-25 Glycobiology has become the focus of considerable research in recent years as the role of oligosaccharides in both health and disease has come under scrutiny During this period particular emphasis has been placed on the glycosylation of human immunoglobulins notably IgG not least because clear links with a restricted range of human diseases has been established Abnormalities of IgG Glycosylation and Immunological Disorders uniquely draws together the facts that have emerged to link abnormalities in IgG glycosylation and immunological disease especially rheumatoid arthritis It reviews all aspects of immunoglobulin glycosylation abnormalities including the structural anatomy of glycoproteins the methods used to analyse them the clinical aspects of glycobiology in both human disease and animal models the glycosylation enzymes and the genes that encode and regulate these enzymes and the possible pathogenicity of IgG The chapter authors have been chosen because of the original contributions they have made to this exciting field of research As such this authoritative and well referenced volume will be indispensable to both clinicians and basic scientists with an interest in glycosylation as well as rheumatologists immunologists bacteriologists and glycobiologists **SialoGlyco Chemistry and**

**Biology II** Rita Gerardy-Schahn, Philippe Delannoy, Mark von Itzstein, 2015-07-28 The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field Review articles for the individual volumes are invited by the volume editors Readership research chemists at universities or in industry graduate students **Biochromatography** M. A. Vijayalakshmi, 2002-02-14 The field of bioseparation and biochromatography in

particular is advancing very rapidly as our knowledge of the properties of molecules and atomic forces increases This volume covers the basic principles of biochromatography in detail It assesses different techniques and includes a large number of applications providing the reader with a mult      *Perspectives in Molecular Toxinology* A. Ménez, 2002-05-17 Covering the most recent advances in our understanding of toxins from venomous animals and microbes as well as that of their targets this book expertly addresses the many intriguing and unsolved questions concerning proteomics studies of the toxinome intimate modes of toxin actions molecular basis of specificity pleiotropic properties of toxins and structural biology of toxins Through twenty seven chapters the authors discuss the role of structural genomics in toxinology how toxins are subject to accelerated evolution how toxins can be exploited as models for the design of new drugs and what the future holds for the treatment of snake bites In order to address these challenging aspects the authors have posed crystal clear questions Based on the most precise knowledge the attendant reasoning shows how toxinology has become an important area of biochemistry and is directly associated with advances in cellular microbiology molecular pharmacology molecular physiology cell biology protein engineering and many other disciplines



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