



# Lectins And Cancer

**G. S. Gupta**



## **Lectins And Cancer:**

**Lectins and Cancer** Hans-Joachim Gabius, Sigrun Gabius, 2012-12-06 Molecular recognition undoubtedly governs any aspect of cellular interaction. To understand tumor cell growth regulation and spread, analysis of protein-carbohydrate interactions can contribute to lead to the establishment of rational methods for diagnosis and therapy. Chemically and biochemically optimized preparation of adequate tools, their application for localization of receptor-tissue-lectin and ligand-cellular-glycoconjugate pairs in tumor cells and tumor sections, and the usefulness of a lectin from a plant extract as potent immunomodulator indicate the prospect for a place of such techniques in pathology and oncology. **Lectins and Cancer**

Hans-Joachim Gabius, 1991 *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 lectins 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 lectins and their interactions, the book will help to pave the way for the development of novel targets for the prevention and treatment of many disorders. *Autophagy in Immune Response: Impact on Cancer Immunotherapy* Salem Chouaib, 2020-05-11

*Autophagy in Immune Response: Impact on Cancer Immunotherapy* focuses on the status and future directions of autophagy with respect to different aspects of its interaction with the immune system and immunotherapy. The book takes scientific research in autophagy a step further by presenting reputable information on the topic and offering integrated content with advancements in autophagy from cell biology and biochemical research to clinical treatments. This book is a valuable source for cancer researchers, oncologists, graduate students, and several members of the biomedical field who are interested in learning

more on the relationship between autophagy and immunotherapies      *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      *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 *Journal of the National Cancer Institute* ,1995

Each issue is packed with extensive news about important cancer related science policy politics and people Plus there are editorials and reviews by experts in the field book reviews and commentary on timely topics **Glycans: Masters of**

**Immunity, From Cancers to Inflammatory Disease** Richard Beatson, Heinz Laubli, Oliver Pearce, Celso A. Reis, 2022-09-16

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 **Targeted Cancer**

**Therapies, From Small Molecules to Antibodies** Zhe-Sheng Chen, Jian-ye Zhang, Yunkai Zhang, Yan-yan Yan, 2020-07-22

Antitumor Potential and other Emerging Medicinal Properties of Natural Compounds Evandro Fei Fang, Tzi Bun Ng, 2013-02-26 The modern unhealthy diet and lifestyle in conjunction with pathogens environmental carcinogens and multiple other risk factors increase humans susceptibility to different diseases exemplified by elevated levels of cancers cardiovascular and communicable diseases Screening of potential drugs from medicinal plants and animals provides a promising strategy for the alleviation of the impact of these diseases Components with potential medicinal applications include RIPs RNases lectins protease inhibitors and numerous small compounds These compounds have shown both preventive and therapeutic effects for humans This book is a compilation of articles written by internationally renowned experts exploring the different uses of medicinal compounds in human therapeutics Here we provide a comprehensive outlook on both qualitative and quantitative studies focusing on medicinal plants and animals and establishing a link between laboratory research discovery and clinical applications **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 *Applied Biotechnology to Agriculture, Foods, Pharmaceuticals and Biomedicine* I.C.

Baianu, V. Prisecaru, H. Lin, D. Costescu, P. Lozano, T. You, *Nanomaterial - Based Biomedical Applications in Molecular Imaging, Diagnostics and Therapy* Amitabha Acharya, 2020-05-23 This book comprehensively reviews the recent advances in nanomaterial based molecular imaging diagnostics and personalized therapy It discusses the novel biocompatible fluorescent nanomaterials their synthesis and modern state of art characterization as well as the various strategies for immobilization of biomacromolecules on the nanomaterial surface and approaches for increasing their stability In addition the book describes the synthesis of lectin nanoconjugates using different types of biocompatible raw materials and their systematic characterization Lastly it presents our current understanding of the biomolecular corona which affects nanoparticle based targeted drug delivery and examines the conceptual approaches to improve the in vivo efficacy of targeted drug delivery

**Fungal Biotechnology** Ram Sarup Singh, Ranjeeta Bhari, 2024-11-16 *Fungal Biotechnology Industrial Applications and Market Potential* provides a comprehensive and holistic review on the uses of filamentous fungi in food agriculture and pharmaceutical industries In addition to genetic and metabolic engineering approaches for heterologous proteins production in fungi the book focuses on fungi as a source of bioactive compounds like enzymes polysaccharides alkaloids glycoproteins and phytohormones It describes recent trends in the use of fungi for solid waste management and its subsequent conversion into value added products As a complete guide on the broad uses of microfungi in different industrial sectors while maintaining a sustainable environment this book is a beneficial resource for students researchers and scientists as an effective means of imparting knowledge on the current trends and future perspectives in the field of fungal biotechnology Emphasizes updated research and developments in the field of Fungal Biotechnology Encompasses the use of filamentous fungi to produce specialty chemicals and bioactive compounds incorporates recent developments in the use of fungi for sustainable environment waste management and waste recycling into value added compounds Highlights the benefits for future developments in the field of mycobiology *Lectins and Glycoconjugates in Oncology* Hans-Joachim Gabius, Gerd A. Nagel, 2012-12-06 Cellular glycoconjugates and their specific receptors e.g. lectins form a recognitive and informative transfer system that justifies special scientific and clinical attention In various contributions reviewing the initiation and

recent progress in this rapidly developing field advances in clinical oncology are discussed with regard to basic sciences as well as their application in clinical sciences The approaches comprise reports from diverse fields such as biochemistry cell biology pathology and clinical oncology addressing questions of how tumors grow and spread and leading to the improvement of clinical management and tumor diagnosis     **Biotoxins** Majeti Narasimha Vara Prasad, Sarada Devi Tetali, Catherine Bennetau-Pelissero, 2025-03-06 This book covers biologically produced toxins their chemistry mode of action and potential therapeutic applications In the first part of the book readers are introduced to the fundamental chemistry of biotoxins their mechanisms of action and possible antidotes paving the way for a deeper understanding of their therapeutic potential Subsequent chapters outline different types of biotoxins and their impact on food quality and safety and their potential applications in agriculture and medicine Particular attention is given to terrestrial and aquatic phytotoxins bioactive metabolites produced by microorganisms and plants mycotoxins phycotoxins cyanotoxins neurotoxins of natural origin bacterial toxins insect toxins and marine toxins An authoritative perspective on topics like bioterrorism and the military potential of biological toxins is also offered in this book The second part of the book presents an overview of cutting edge detection techniques to identify emerging biotoxins in several matrices Readers will find an authoritative overview of the recent developments in nanotechnology and microfluidics nanomaterial based systems and biosensors immunosensors receptor based biosensors and cell based biosensors The book also covers other detection techniques applied to food such as fluorescent colourimetric electrochemical photoelectrochemical and electrochemiluminescent techniques Given its breadth the book appeals to researchers academics and students interested in biotoxins their pharmacological importance and their impact on agriculture and human health     **Studies in Natural Products Chemistry** Atta-ur Rahman, 2018-07-26 Studies in Natural Products Chemistry Volume 58 covers the synthesis testing and recording of the medicinal properties of natural products providing cutting edge accounts of fascinating developments in the isolation structure elucidation synthesis biosynthesis and pharmacology of a diverse array of bioactive natural products With the rapid developments in spectroscopic techniques and accompanying advances in high throughput screening techniques it has become possible to rapidly isolate and determine the structures and biological activity of natural products thus opening up exciting opportunities in the field of new drug development in the pharmaceutical industry Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores     **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

## Whispering the Strategies of Language: An Emotional Quest through **Lectins And Cancer**

In a digitally-driven world where monitors reign supreme and quick connection drowns out the subtleties of language, the profound strategies and psychological nuances hidden within words frequently get unheard. Yet, nestled within the pages of **Lectins And Cancer** a charming literary prize blinking with organic thoughts, lies a fantastic quest waiting to be undertaken. Published by a skilled wordsmith, that enchanting opus attracts readers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the material of each and every word. Within the emotional depths of the touching evaluation, we will embark upon a heartfelt exploration of the book's core styles, dissect its interesting writing design, and yield to the powerful resonance it evokes strong within the recesses of readers' hearts.

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