

# Role Of The Mannose Binding Lectin In Innate Immunity

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*C-Type Lectins in Immune Homeostasis* - Sho Yamasaki  
2020-10-31

This book focuses on C-type lectin receptors, a newly emerging family of pattern-recognition receptors (PRRs) and a crucial part of the human innate immune system. Above all, the authors highlight these receptors' role in the recognition of pathogen-associated molecular patterns (PAMPs) and

damage-associated molecular patterns (DAMPs) - one of the first steps in responding to foreign and potentially dangerous structures in the human body. The respective chapters chiefly examine various C-type lectin receptors, their corresponding ligands, and signalling. In addition to offering immunologists and clinicians important insights from the latest research,

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they may also provide novel points of departure for future drug development.

**Current Perspectives in HIV Infection** - Shailendra K. Saxena 2013-04-10

This book gives a comprehensive overview of HIV and AIDS including NeuroAIDS, as well as general concepts of pathology, immunity and immunopathology, diagnosis, treatment, epidemiology and etiology to current clinical recommendations in management of HIV/AIDS including NeuroAIDS, highlighting the ongoing issues, recent advances and future directions in diagnostic approaches and therapeutic strategies.

Target Pattern Recognition in Innate Immunity - Uday Kishore 2010-01-01

Target pattern recognition in innate immunity is responsible for the immediate, usually protective, responses shown against invading microorganisms, and it is

the principal feature of self and non-self recognition by virtue of the recognition of structures on the microbial pathogens, which are not found on host cells. This is an area that has been very actively researched, over approximately the past 12 years, and therefore this volume provides a timely comprehensive, and up to date, summary of the types and range of cell surface, intracellular, and secreted, host proteins involved in the recognition of microbial products, and of the protective mechanisms triggered as a result of the recognition events. The Toll-like receptors, first described in *Drosophila* and now well-characterised on human cells, provide an excellent demonstration of the wide range of different microbial products recognised by this family of receptors and of the signalling pathways which are triggered thus leading to induction of inflammatory cytokines and the activation

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of genes producing antimicrobial products. In addition, several cell surface proteins involved in target pattern recognition have been described on the surfaces of macrophages (macrophage mannose receptor and macrophage scavenger receptors), and on dendritic cells (DEC205), and to be involved with the uptake and clearance of whole microorganisms and polyanionic ligands. Pattern recognition is also utilised by intracellular receptors, with NOD-like receptors in the cytosol recognizing microbial molecules and activating the production of inflammatory cytokines or pathways that induce the production of inflammatory molecules. Secreted proteins, such as the pentraxins, which includes the acute phase reacting, C-reactive protein (CRP) and serum amyloid protein (SAP), and the collectins (mannan binding lectin, lung surfactant protein A and D) and ficolins can also readily

recruit killing and clearance systems. Indeed, the serum complement system, which is one of the major defence systems in the bloodstream, is efficiently activated by CRP on its binding to the phosphocholine groups of microbial phospholipids—and the subsequent interaction of the bound CRP with C1q—to give classical pathway activation, or MBL, or ficolin, binding to arrays of mannose or N-acetylglucosamine residues, respectively, on the surfaces of microorganisms—to give lectin pathway activation. Also, in addition to the activation and clearance events associated with complement activation by some of the secreted pattern recognition receptors, it is accepted that all these pattern recognition receptors can generally accelerate the uptake and clearance of microbes via phagocytic cells. In view of the growing interest in the cross-talk between innate

and adaptive immunity, a thorough understanding of the initial recognition and triggering events, mediated via innate immune receptors, as addressed in this volume, is clearly very useful in helping to also fully understand the mechanisms of activation and control of the adaptive immune system—and to allow a full assessment of the relative roles played by innate immunity and adaptive immunity against a particular infection in higher organisms.

Diseases of Poultry -  
2019-11-19

The most complete and definitive reference to all aspects of poultry diseases, *Diseases of Poultry*, Fourteenth Edition has been fully revised and updated to offer a comprehensive survey of current knowledge. Updates the definitive reference of poultry health and disease Provides more clinically relevant information on management of specific

diseases, contributed by clinical poultry veterinarians Offers information on disease control in organic and antibiotic-free production Presents more concise, streamlined chapters for ease of use Incorporates advances in the field, from new diagnostic tools and information to changes brought about by the increasing globalization and the re-emergence of zoonotic pathogens

**Aquatic Lectins** - Preetham Elumalai 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

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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.

*Genomic and Personalized Medicine* - 2012-10-30

Genomic and Personalized Medicine, Second Edition — winner of a 2013 Highly Commended BMA Medical

Book Award for Medicine — is a major discussion of the structure, history, and applications of the field, as it emerges from the campus and lab into clinical action. As with the first edition, leading experts review the development of the new science, the current opportunities for genome-based analysis in healthcare, and the potential of genomic medicine in future healthcare. The inclusion of the latest information on diagnostic testing, population screening, disease susceptibility, and pharmacogenomics makes this work an ideal companion for the many stakeholders of genomic and personalized medicine. With advancing knowledge of the genome across and outside protein-coding regions of DNA, new comprehension of genomic variation and frequencies across populations, the elucidation of advanced strategic approaches to genomic

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study, and above all in the elaboration of next-generation sequencing, genomic medicine has begun to achieve the much-vaunted transformative health outcomes of the Human Genome Project, almost a decade after its official completion in April 2003. Highly Commended 2013 BMA Medical Book Award for Medicine More than 100 chapters, from leading researchers, review the many impacts of genomic discoveries in clinical action, including 63 chapters new to this edition Discusses state-of-the-art genome technologies, including population screening, novel diagnostics, and gene-based therapeutics Wide and inclusive discussion encompasses the formidable ethical, legal, regulatory and social challenges related to the evolving practice of genomic medicine Clearly and beautifully illustrated with 280 color figures, and many thousands of

references for further reading and deeper analysis  
**Loose-leaf Version for Kuby Immunology** - Jenni Punt 2018-10-16  
Janis Kuby's groundbreaking introduction to immunology was the first textbook for the course actually written to be a textbook. Like no other text, it combined an experimental emphasis with extensive pedagogical features to help students grasp basic concepts. Now in a thoroughly updated new edition, Kuby Immunology remains the only undergraduate introduction to immunology written by teachers of the course. In the Kuby tradition, authors Jenni Punt, Sharon Stranford, Patricia Jones, and Judy Owen present the most current topics in an experimental context, conveying the excitement of scientific discovery, and highlight important advances, but do so with the focus on the big picture of the study of immune response, enhanced by

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unsurpassed pedagogical support for the first-time learner. Punt, Stranford, Jones, and Owen bring an enormous range of teaching and research experiences to the text, as well as a dedication to continue the experiment-based, pedagogical-driven approach of Janis Kuby. For this edition, they have worked chapter by chapter to streamline the coverage, to address topics that students have the most trouble grasping, and to continually remind students where the topic at hand fits in the study of immunology as a whole.

The Interface Between Innate and Acquired Immunity - M.D. Cooper  
2002-03-26

All multicellular organisms may possess innate immunity mediated by defense mechanisms with which the organism is born. In recent years much has been learned about the diversity of innate immune mechanisms. A large array

of naturally produced antimicrobial peptides has been defined. A variety of cell surface receptors that recognize common patterns displayed by infectious organisms have been identified along with the intracellular pathways that these receptors use to activate cellular defense functions. Cell surface receptors on natural killer (NK) cells have been shown to sense microbial invasion in neighboring cells, thereby setting into motion their elimination by cytotoxic mechanisms. Other receptors have been found to facilitate phagocytosis and intracellular killing of microbes by phagocytic cells. These and other natural defense mechanisms have traditionally been viewed as the first line of body defense in vertebrate species that also possess the capacity for acquired or adaptive immunity. Sharks and all of the other jawed vertebrates generate large repertoires of T and B

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lymphocyte clones that display different antigen specific receptors in the form of T cell receptors (TCR) and immunoglobulins (Ig) that allow them to recognize and respond to antigens in collaboration with antigen-presenting cells. Memory T and B cells are then generated to allow faster and heightened cellular and humoral immune responses on secondary antigen encounter. In recent years it has also become obvious that innate immune responses can directly influence adaptive immune responses in ways that will enhance body defense.

Lectin in Host Defense Against Microbial Infections - Shie-Liang Hsieh 2020-03-09

This book systemically presents the latest research on lectins, covering all the major topics in the field, including the heterocomplex of lectins and Toll-like receptors, protective versus pathogenic functions in connection with microbial infections, and novel

strategies for enhancing host immunity against infectious diseases caused by viruses, bacteria, and fungi. Lectins are a large group of glycan-binding proteins that recognize diverse glycan and non-glycan structures expressed on prokaryotic and eukaryotic cells, and are vital to cell-cell interactions, the attachment of microbes to host cells, and the recognition and activation of immune responses to exogenous and endogenous danger signals. The composition and structure of microbes are complex and include numerous 'pathogen-associated molecular patterns' or 'damage-associated molecular patterns'. As such, microbes' interactions with immune cells activate multiple innate immunity receptors and produce distinct inflammatory reactions, which can be protective to contain microbial invasion, or pathogenic to cause tissue



damage and shock syndrome in the host. The book shares lessons learned from state-of-the art research in this field, highlights the latest discoveries, and provides insightful discussions on lectin-mediated inflammatory reactions, while also outlining future research directions.

**Essentials of Glycobiology** - Ajit Varki  
1999

Sugar chains (glycans) are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful gateway to the understanding of glycans.

**Therapies for Retinal Degeneration** - de la Rosa (Enrique J.) 2018

This book addresses approaches to the treatment of retinal diseases, targeting common processes and components.

Immunostimulatory DNA

Sequences - E. Raz 2001

This volume is a product of a collaborative effort and attempts to provide a wide and up-to-date coverage of information regarding the biology and on the potential application of immunostimulatory DNA. ISS hold great promise for influencing the immune response and the authors anticipate that the high efficacy and low toxicity observed in animal models will translate into success in a variety of human clinical applications.

**Collectins—Advances in Research and Application: 2012 Edition**  
- 2012-12-26

Collectins—Advances in Research and Application: 2012 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Collectins in a concise format. The editors have built Collectins—Advances in Research and Application: 2012 Edition on the vast

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information databases of ScholarlyNews.™ You can expect the information about Collectins in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Collectins—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

### **The Role of Monocyte-derived Dendritic Cells and Mannose-binding**

**Lectin in Innate Immunity Against Apoptotic Cells and Candida Albicans** - Wai-kee Ip (Eddie) 2003

**Collectins—Advances in Research and Application: 2013 Edition** - 2013-06-21

Collectins—Advances in Research and Application: 2013 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about ZZZAdditional Research in a compact format. The editors have built

Collectins—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Collectins—Advances in

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**Lessons in Immunity -**  
Loriano Ballarin 2016-04-08  
Lessons in Immunity: From Single-cell Organisms to Mammals stems from the activity of the Italian Association of Developmental and Comparative Immunobiology (IADCI), represented by the editors. This book is presented as a series of short overviews that report on the current state of

various relevant fields of immunobiology from an evolutionary perspective. The overviews are written by authors directly involved in the research, and most are members of the IADCI or have otherwise been involved in the related research for their respective overview. This publication offers scientists and teachers an easy and updated reference tool. Provides simple and updated reviews on the immunobiology of a wide spectrum of organisms, considered in an evolutionary context Focuses on both cells and humoral components of a variety of non-classical model organisms Offers in a single volume many contributions which can help with understanding the evolution of immune responses and the main adaptations in animal phyla Presents a valuable holistic cross-sectional approach for teaching immunology and its applications

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*Collectins and Innate Immunity* - R. Alan B. Ezekowitz 1996

*The Fish Immune System: Organism, Pathogen, and Environment* - 1997-02-20  
This book comprehensively reviews the immunology of fish--their health, interactions between them and their pathogens, and the impact of both endogenous and environmental changes on these interactions. Leading authorities provide an essential foundation for the understanding of fish immunology and fish health. As fish are increasingly used as model systems for vertebrate immune systems, *The Fish Immune System* will be a crucial reference. The only comprehensive, single-volume reference on the fish immune system Contributions from an international team of experts Useful to researchers interested in fish health as well as professionals managing fish

hatcheries, aquariums, and other facilities that must maintain healthy fish

**Female Sexual Pain Disorders** - Andrew T.

Goldstein 2011-09-23  
First book devoted to the diagnosis and treatment of sexual pain in women  
Female Sexual Pain Disorders is a remarkable fusion of clinical and scientific knowledge that will empower women's healthcare professionals to help their patients in overcoming this common debilitating disorder. Based on the highest level research, it provides state-of-the-art practical guidance that will help you to:  
Evaluate and distinguish the causes of sexual pain in women  
Differentiate the many forms of sexual pain  
Implement multidisciplinary treatments  
Distilling the experience of world leaders across many clinical, therapeutic and scientific disciplines, with an array of algorithms and diagnostic tools, *Female Sexual Pain*

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Disorders is your ideal companion for treating the many millions of women who suffer from this disorder worldwide. All proceeds from this book are being donated to the International Society for the Study of Women's Sexual Health (ISSWSH).

**Animal Lectins** - Gerardo R. Vasta 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

[Innate Immunity in Health and Disease](#) - Shailendra K. Saxena 2021-08-25

The book focuses on various aspects and properties of innate immunity, whose deep understanding is integral for safeguarding the human race from further

loss of resources and economies due to innate immune response-mediated diseases. Throughout this book, we examine the individual mechanisms by which the innate immune response acts to protect the host from pathogenic infectious agents and other non-communicable diseases. Written by experts in the field, the volume discusses the significance of macrophages in infectious disease, tumor metabolism, and muscular disorders. Chapters cover such topics as the fate of differentiated macrophages and the molecular pathways that are important for the pathologic role of macrophages.

**Oxford Textbook of Rheumatology** - Philip Conaghan 2013-10

A strong clinical emphasis is present throughout this volume from the first section of commonly presenting problems through to the section addressing problems shared with a range of other clinical sub-specialties.

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The Immune Response - Tak W. Mak 2005-11-11

The Immune Response is a unique reference work covering the basic and clinical principles of immunology in a modern and comprehensive fashion. Written in an engaging conversational style, the book conveys the broad scope and fascinating appeal of immunology. The book is beautifully illustrated with superb figures as well as many full color plates. This extraordinary work will be an invaluable resource for lecturers and graduate students in immunology, as well as a vital reference for research scientists and clinicians studying related areas in the life and medical sciences. Current and thorough 30 chapter reference reviewed by luminaries in the field Unique 'single voice' ensures consistency of definitions and concepts Comprehensive and elegant illustrations bring key concepts to life Provides

historical context to allow fuller understanding of key issues Introductory chapters 1-4 serve as an 'Immunology Primer' before topics are discussed in more detail

**Molecular Biology of the Cell** - Bruce Alberts 2004

Lectins - Preetham Elumalai 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

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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.

### **The Complement**

**FactsBook** - Bernard J. Morley 2000

The complement system is a protein system that combines with antibodies to

form a defense against bugs and viruses. This book contains entries on all its components, including C1q and lectins, serine proteases, and terminal pathway proteins.

*The Role of Monocyte-Derived Dendritic Cells and Mannose-Binding Lectin in Innate Immunity Against Apoptotic Cells and Candida Albicans* - Wai-Ke Eddie Ip  
2017-01-27

This dissertation, "The Role of Monocyte-derived Dendritic Cells and Mannose-binding Lectin in Innate Immunity Against Apoptotic Cells and Candida Albicans" by Wai-kee, Eddie, Ip, 王啟基, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights

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10.5353/th\_b3124426

Subjects: Dendritic cells  
Lectins Candida albicans

### **C-Type Lectin Receptors in Immunity** - Sho

Yamasaki 2016-03-22

The book presents the latest findings on C-type lectin receptors, focusing on individual receptors and their signaling. In recent years there have been great advances in the understanding of the function of these receptors as a newly emerging family of pattern-recognition receptors (PRRs) for pathogen-associated molecular patterns (PAMPs) and damage-associated molecular patterns (DAMPs). Comprising four parts: ITAM-coupled Activating Receptors; HemITAM-bearing Receptors; ITIM-bearing Receptors; and Other Receptors and Related Topics, this comprehensive review covers a broad range of C-

type lectin receptors. The updated information on C-type lectin receptors and their ligands provided will appeal to a wide readership, from basic immunologists to physicians and surgeons. In addition, sections on novel drug development make this a valuable resource for pharmaceutical scientists.

### **Avian Immunology** - Bernd Kaspers 2021-12-05

Avian Immunology, Third Edition contains a detailed description of the avian innate immune system, encompassing the mucosal, enteric, respiratory and reproductive systems. The diseases and disorders it covers, include immunodepressive diseases and immune evasion, autoimmune diseases, and tumors of the immune system. Practical aspects of vaccination are examined as well. Extensive appendices summarize resources for scientists including cell lines, inbred chicken lines, cytokines, chemokines, and monoclonal antibodies. With

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contributions from the foremost international experts in the field, Avian Immunology 3rd, provides the most up-to-date crucial information not only for poultry health professionals and avian biologists, but also for comparative and veterinary immunologists, graduate students and veterinary students with an interest in avian immunology. Avian Immunology, Third Edition, is a fascinating and growing field and surely provides new and exciting insights for mainstream immunology in the future. Reflects significant advances in the field since the second edition, particularly the explosion of knowledge on genomics including work on the chicken, turkey and zebra finch genomes Provides a single source reference ranging from the basic science to cutting edge research Provides practical information for veterinarians particularly those specialised in poultry

or companion bird medicine  
New chapters on the impact of the microbiome on the immune system, defence mechanisms in the egg and embryo and emerging transgene technologies  
The Cytokines of the Immune System - Zlatko Dembic 2015-05-23  
The Cytokines of the Immune System catalogs cytokines and links them to physiology and pathology, providing a welcome and hugely timely tool for scientists in all related fields. In cataloguing cytokines, it lists their potential for therapeutic use, links them to disease treatments needing further research and development, and shows their utility for learning about the immune system. This book offers a new approach in the study of cytokines by combining detailed guidebook-style cytokine description, disease linking, and presentation of immunologic roles. Supplies new ideas for basic and clinical research

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Provides cytokine descriptions in a guidebook-style, cataloging the origins, structures, functions, receptors, disease-linkage, and therapeutic potentials. Offers a textbook-style view on the immune system with the immunologic role of each cytokine.

### **The Collectin Protein Family and Its Multiple Biological Activities -**

Uday Kishore 2021-03-12

The topic of this book, Collectins, is a family of proteins whose major function is in innate immunity, where Collectins act as pattern recognition receptors (PRRs). In general they recognize targets such as microbial surfaces and apoptotic cells, and once bound to a target, Collectins promote the clearance of microorganisms and damaged host tissue. New cell-surface proteins and glycoproteins, which act as Collectin receptors, are currently being identified. Some Collectins, particularly MBL, activate the

complement system, which enhances the ability of antibodies to fight pathogens, via three MBL-associated proteases, the MASPs. Additionally, recent research has begun to show wider-ranging activities of Collectins, such as: · Their role in metabolism, and therefore their involvement in lifestyle diseases such as obesity and cardiovascular disease. · Their ability to modulate the adaptive immune response, as well as to recognize and trigger apoptosis of cancer cells, which makes them effective in the annihilation of cancer cells with multiple mutations. · The regulation of their expression by gonadal steroid hormones implicates them with critical roles in both male and female fertility. · Altered levels of Collectins have been associated with various autoimmune diseases. This book brings together current knowledge of the structure, functions and biological activities of

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Collectins, to describe their integral role in human health.

Innate Immunity of Plants, Animals and Humans -

Holger Heine 2007-12-07

This book has been cunningly designed to provide an overview of our current knowledge about the innate immune systems of these three types of organisms. It not only covers the innate immune mechanisms and responses of such diverse organisms as plants, Cnidaria, Drosophila, urochordates and zebrafish, but also the major receptor systems in mammals and humans. It delves too into the central defense mechanisms, antimicrobial peptides and the complement system.

*Mannose-binding Lectin* -

Lee Hans Bouwman 2006

Mannose-Binding Lectin in the Innate Immune System -

Iara De Messias-Reason

2009

Mannose-binding lectin (MBL) is a plasma protein

with an important role in the innate immune system. MBL recognises pathogens through carbohydrate structures present on the surface of a range of pathogenic organisms including viruses, bacteria, fungi and protozoans. These structures may be referred to as pathogen-associated molecular patterns (PAMPs). After binding to PAMPs, MBL promotes C1- and antibody-independent activation of complement, leading to complement-mediated killing and/or phagocytosis. MBL is also known to modulate the secretion of cytokines from macrophages and to mediate the clearance of apoptotic cells as such playing a role in the inflammatory response. This book summarises the actual understanding of human MBL biology and introduces the general aspects of the structure, function and genetics of MBL, as well as an analysis of the role of MBL in the predisposition to

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clinically relevant diseases.

*Animal Lectins: Form, Function and Clinical Applications* - G. S. Gupta  
2016-08-23

*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.

**Type 2 Immunity** - R. Lee Reinhardt 2018

This book provides researchers the opportunity to investigate type-2-associated diseases in their laboratories. Beginning with chapters describing various models of type-2 immunity, the volume then continues by detailing cellular protocols designed to identify, characterize, and assess the function of key adaptive and innate immune cells involved in type-2 inflammation; approaches to isolate and evaluate specific cellular subsets at the genetic, epigenetic, and molecular level; protocols to assess type-2 immunity and its relationship to organismal and metabolic systems (ex. Microbiome). This book concludes with a

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section that explores the use of primary human cells in evaluating relevance to the clinic. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Vital and authoritative, *Type 2 Immunity: Methods and Protocols* aims to provide a broad network of methods that can be used to develop a hypothesis and investigate its potential from bench to bedside. .

*Primer to the Immune Response* - Tak W. Mak  
2013-12-23

Written in the same engaging conversational style as the acclaimed first edition, *Primer to The Immune Response*, 2nd Edition is a fully updated and invaluable resource for college and university

students in life sciences, medicine and other health professions who need a concise but comprehensive introduction to immunology. The authors bring clarity and readability to their audience, offering a complete survey of the most fundamental concepts in basic and clinical immunology while conveying the subject's fascinating appeal. The content of this new edition has been completely updated to include current information on all aspects of basic and clinical immunology. The superbly drawn figures are now in full color, complemented by full color plates throughout the book. The text is further enhanced by the inclusion of numerous tables, special topic boxes and brief notes that provide interesting insights. At the end of each chapter, a self-test quiz allows students to monitor their mastery of major concepts, while a set of conceptual questions prompts them to extrapolate

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further and extend their critical thinking. Moreover, as part of the Academic Cell line of textbooks, *Primer to The Immune Response*, 2nd Edition contains research passages that shine a spotlight on current experimental work reported in Cell Press articles. These articles also form the basis of case studies that are found in the associated online study guide and are designed to reinforce clinical connections. Complete yet concise coverage of the basic and clinical principles of immunology Engaging conversational writing style that is to the point and very readable Over 200 clear, elegant color illustrations Comprehensive glossary and list of abbreviations

*Innate Immune Proteins and Early Innate Immune Response of Channel Catfish (Ictalurus Punctatus)* - Deepthi Raghu 2014

The channel catfish (*Ictalurus punctatus*) is susceptible to bacterial and viral infections acquired from

its pond environment. The innate immune proteins mannose-binding lectin (MBL) and lysozyme were studied in two different groups of channel catfish aged 2, 4, 6, 9, and 12 months-old. The two groups were maintained at a mean temperature of 27 °C and were one-year apart in their bleedings. Dot-blot enzyme linked immunosorbent assay for MBL and turbidometry lysozyme quantitative assays were done to determine the two innate immune proteins. The greatest increases in mean MBL and mean lysozyme concentrations were seen at 4 months. Two month-old catfish were comparable with 12 month-old catfish in their concentrations of MBL and lysozyme (p

Janeway's Immunobiology - Kenneth Murphy 2010-06-22

The Janeway's Immunobiology CD-ROM, Immunobiology Interactive, is included with each book, and can be purchased separately. It contains

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