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NUCLEIC ACIDS IN INNATE IMMUNITY

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Nucleic Acids In Innate Immunity

Kirill A. Afonin, Morgan Chandler



Nucleic Acids In Innate Immunity:

Nucleic Acids in Innate Immunity Ken J. Ishii, Shizuo Akira, 2008-05-22 Until recently innate immunity was regarded as a relatively nonspecific system designed to engulf and destroy pathogens. However, new studies show that the innate immune system is highly developed in its ability to discriminate between self and foreign entities. Understanding this mechanism can lead to therapeutic strategies based on manipulation. *Nucleic Acid Sensors and Antiviral Immunity* Dr. Prakash Sambhara, 2012-11-26 The discovery of Toll-like receptors (TLRs) in the late 1990s ushered in a new age of discovery for innate immunity. The importance of TLRs for immunology and biomedical research was recognized with the Nobel Prize for Medicine or Physiology in 2011. The prize was shared by three scientists: Ralph Steinman for the discovery of dendritic cells, which

Structural Immunology of Molecular Innate Immunity Hyun Ho Park, Qian Yin, Jun Hyuck Lee, 2023-10-31 Innate immunity has a critical role in the early stage of the host defense response by the timely recognition of pathogenic or danger signals by various cell surface or cytoplasmic receptors. This is followed by signal transduction via various adaptor and effector molecules. The main functions of innate immunity are to identify and remove the invading pathogens, to recruit various immune cells to the site of infection, and to prepare the adaptive immune response. The innate immune system has been intensively studied for several decades, and now we can begin to understand this system on a molecular level. **DNA Repair Machinery in Innate and Adaptive Immunity** Feilong Meng, Teng Ma, Zhenkun Lou, Xiaoyan Qiu, Ping-Kun Zhou, Weihua Zhou, 2022-09-01 **Innate Immunity in Health and Disease** Shailendra K. Saxena, Hridayesh Prakash, 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. *Nucleic Acid Sensors and Antiviral Immunity* Dr. Prakash Sambhara, 2012-11-26 The discovery of Toll-like receptors (TLRs) in the late 1990s ushered in a new age of discovery for innate immunity. The importance of TLRs for immunology and biomedical research was recognized with the Nobel Prize for Medicine or Physiology in 2011. The prize was shared by three scientists: Ralph Steinman for the discovery of dendritic cells, which

Toll-Like Receptors (TLRs) and Innate Immunity Stefan Bauer, Gunther Hartmann, 2007-12-11 Overall, recent research on TLRs has led to a tremendous increase in our understanding of early steps in pathogen recognition and will presumably lead to potent TLR-targeting therapeutics in the future. This book reviews and highlights our recent understanding on the function and ligands of TLRs as well as their role in autoimmunity, dendritic cell activation, and target structures for therapeutic intervention. *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 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 acetyl glucosamine 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

Evolutionary

Concepts in Immunology Robert Jack, Louis Du Pasquier, 2019-06-13 Immunology is a nodal subject that links many areas of biology It permeates the biosciences and also plays crucial roles in diagnosis and therapy in areas of clinical medicine ranging from the control of infectious and autoimmune diseases to tumour therapy Monoclonal antibodies and small molecule

modulators of immunity are major factors in the pharmaceutical industry and now constitute a multi billion dollar business Students in these diverse areas are frequently daunted by the complexity of immunology and the astonishing array of unusual mechanisms that go to make it up Starting from Dobzhansky s famous slogan Nothing in biology makes sense except in the light of evolution this book will serve to illuminate how evolutionary forces shaped immunity and thus provide an explanation for how many of its counter intuitive oddities arose By doing so it will provide a conceptual framework on which students may organise the rapidly growing flood of immunological knowledge

Sensing DNA in Antiviral Innate Immunity

Chunfu Zheng,Rongtuan Lin,Junji Xing,2021-09-08 *Advances in Immunology* ,2017-02-15 *Advances in Immunology* Volume 133 the latest release in this long established and highly respected publication presents current developments and comprehensive reviews in immunology Articles address the wide range of topics that comprise immunology including molecular and cellular activation mechanisms phylogeny and molecular evolution and clinical modalities Edited and authored by the foremost scientists in the field each volume provides up to date information and directions for the future Contains contributions from leading authorities Informs and updates on all the latest developments in the field of immunology Addresses molecular and cellular activation mechanisms phylogeny and molecular evolution and clinical modalities

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Mitochondrial OXPHOS System: Emerging Concepts and Technologies and Role in Disease
David Pacheu-Grau,Erika Fernandez-Vizarra,Gloria Garrabou,Sylvie Callegari,2022-06-06

The Innate Immune Response to Noninfectious Stressors Massimo Amadori,2016-02-23 The Innate Immune Response to Non infectious Stressors Human and Animal Models highlights fundamental mechanisms of stress response and important findings on how the immune system is affected and in turn affects such a response In addition this book covers the crucial link between stress response and energy metabolism prompts a re appraisal of some crucial issues and helps to define research priorities in this fascinating somehow elusive field of investigation Provides insights into the fundamental homeostatic processes vis vis stressors to help in investigation Illustrates the depicted tenets and how to offset them against established models of response to physical and psychotic stressors in both animals and humans Covers the crucial issue of the immune response to endocrine disruptors Includes immunological parameters as reporter system of environmental adaptation Provides many illustrative examples to foster reader understanding

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Advances in Immunology in China - Part B, 2020-02-21 *Advances in Immunology in China* Part B Volume 145 the latest release in the *Advances in Immunology* series presents the latest release in a long established and highly respected publication The book includes current developments and comprehensive reviews in immunology Articles address the wide range of topics that comprise immunology with this release focusing on advances in immunology in China

Biological DNA Sensor Choon Kit Tang, Cevayir Coban, Shizuo Akira, Ken J. Ishii, 2013-10-30 In this chapter we reflect on our early understanding of the immunogenic properties of dsDNA and give a chronological account of the journey we have taken to discover the individual cellular DNA sensors which have played important roles in mediating DNA induced inflammation

Lyme Disease: Recent Advances and Perspectives Tanja Petnicki-Ocwieja, Catherine A. Brissette, 2015-08-08 The interplay between host and pathogen is a complex co evolutionary battle of surveillance and evasion The pathogen continuously develops mechanisms to subvert the immune response in order to establish infection while the immune system responds with novel mechanisms of detection Because the majority of Lyme disease pathology is due to an over exuberant immune response much research in *Borrelia burgdorferi* pathogenesis has been devoted to understanding the mammalian host response to the bacterium Immunological studies continue to be an active area of research employing emerging techniques such as intra vital imaging These studies have furthered our understanding of inflammatory processes during long term infection and provided some surprising insights such as the continued presence of bacterial products after clearance The field of Lyme disease has long debated the etiology of long term inflammation and recent studies in the murine host have shed light on relevant cell types and inflammatory mediators that participate in the pathology of Lyme arthritis Live imaging and bioluminescent studies have allowed for a novel view of the bacterial life cycle including the tick mid gut tick to mammal transmission and dissemination throughout a mouse A number of tick and bacterial proteins have been shown to participate in the completion of the enzootic cycle Novel mechanisms of gene regulation are continuously being identified However *B. burgdorferi* lacks many traditional virulence factors such as toxins or specialized secretion systems Many genes in the *B. burgdorferi* genome have no known homolog in other bacteria Therefore studies focusing on host pathogen interactions have therefore been limited by an incomplete understanding of the repertoire of bacterial virulence factors Questions such as how the pathogen causes disease colonizes the tick and evades host immune surveillance have been difficult to address Genetic studies involving single gene deletions have identified a number of important bacterial proteins but a large scale genomics approach to identify virulence factors has not been attempted until recently The generation of a site directed mutagenesis library is an important step towards a detailed analysis of the *B. burgdorferi* genome and pathogenome Using this library high throughput genomic studies utilizing techniques such as

massively parallel sequencing have been promising and could be used to identify novel virulence determinants of disease in the mammalian host or persistence in the tick vector Continued research on this unique pathogen and its specific interaction with host and vector may have far reaching consequences and provide insights for diverse disciplines including ecology infectious disease and immunology Here several reviews will discuss the most recent advances and future studies to be undertaken in the field of *B burgdorferi* biology

Immune Checkpoint Biology in Health and Disease ,2024-01-15

Immune Checkpoint Biology in Health and Disease Volume 382 provides in depth reviews on the latest progress concerning research on immune checkpoint biology and its immunotherapeutic implications especially in cancer Topics connected to immune checkpoint biology covered in this volume include Novel technologies for applying immune checkpoint blockers Next generation deconvolution of transcriptomic data to investigate the tumor microenvironment Immune checkpoints targeting dendritic cells for antibody based modulation in cancer Immune checkpoint biology in health disease Immune checkpoint biology and autoimmunity in cancer patients and much more Other sections cover Recent advancements in tumor microenvironment landscaping for target selection and response prediction in immune checkpoint therapies achieved through spatial protein multiplexing analysis Immune Modulation During Anti Cancer Radio immuno therapy and Preconditioning with immunogenic cell death inducing treatments for subsequent immunotherapy Provides comprehensive reviews from frontline experts on the topic of Immune checkpoints Presents useful schematic material and cutting edge discussions Covers the latest insights and future perspectives on the covered topics and their implications for immunology and immunotherapy as well as clinical perspectives

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