

S.W.Russell and S.Gordon (Eds.)

Macrophage Biology and Activation



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Macrophage Biology And Activation Current Topics In Microbiology And

Olli Vainio, Beat A. Imhof



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Macrophage Biology and Activation Stephen W. Russell, Siamon Gordon, 2012-12-06 The amazing world of the mononuclear phagocytes keeps expanding at a truly awesome pace As a result maintaining currency with the latest developments and controversies that pertain to this cell type is increasingly difficult The aspects covered in this volume have been selected to provide an overview of subject areas that either have recently become much better understood or hold the promise of new levels of understanding as they are developed in the future The scope of topics ranges from how these cells develop through the means that are used to regulate them to the roles that they have in different tissues and in a variety of infectious diseases Current Catalog National Library of Medicine (U.S.), 1993 *Targeting of Drugs* 6 Gregory Gregoriadis, Brenda McCormack, 2013-06-29 Proceedings of a NATO ASI held in Cape Sounion Beach Greece June 24 July 5 1997 **Chromosomal Translocations and Oncogenic Transcription Factors** Frank J. III Rauscher, Peter K. Vogt, 1997-03-06 Regulation of gene expression at the level of transcription is one of the major determinants of proper cellular proliferation and differentiation The key players in these processes are sequence specific DNA binding transcription factor proteins which coordinate programs of gene expression in the nucleus The articles in this volume document the myriad of genetic and biochemical alterations sustained by human proto oncogenic transcription factors which result in diverse neoplastic processes This volume gives insights into how normal programs of gene expression can be subverted by the action of single transcription factors resulting in a specific tumor type The book provides inspiration for exploiting these tumor specific alterations as diagnostic prognostic tools or as selective therapeutic targets **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1993 Macrophages - Molecular Pathways and Immunometabolic Processes Soraya Mezouar, Jean-Louis Mege, 2024-11-27 This book is a collection of chapters that deal with the function of macrophages and their role in various pathologies such as cancer inflammatory and infectious diseases With a focus on differentiated macrophages by illustrating the different models used in research this book presents the molecular mechanisms that regulate the various functions of macrophages From basic research to clinical investigation the chapters of this book illustrate the role of macrophages in pathologies *Immunology and Developmental Biology of the Chicken* Olli Vainio, Beat A. Imhof, 2012-12-06 The chicken is a useful model for research into the basic features of immunology because its immune system functions in a way similar to that of human beings and because the chicken embryo is easily accessed experimentally This book is a collection of comprehensive articles updating chicken embryogenesis and immunology It is now clear that it is possible to produce transgenic chickens by embryonic stem cell manipulation and transfer into the oocyte Alternatively the chick offers us the possibility of producing somatic chimeras by manipulating embryonic cells at the primitive streak or earlier stages Working with later embryos we can learn the principles involved in the positioning of organ anlagen such as the limb bud It is shown in this book that these structures are formed by appropriate cell and tissue

arrangements driven by molecular factors Work on the chicken has contributed substantially to our understanding of basic immunology including the graft vs host reaction the clonal reactivity of immunocompetent cells separation of the T and B cell lineages somatic diversification of the B cell repertoire by immunoglobulin Ig class switching antibody diversification Ig gene conversion and the origin of the hematopoietic stem cell precursor of lymphoid and myeloid cells Hematopoietic stem cells emerge successively from several embryonic sites such as the yolk sac the aorta and the mesentery near the aorta

Principles and Applications of Nanotherapeutics Imalka Munaweera, Piumika Yapa, 2024-03-13 This book covers a vast range of information regarding nanotherapeutics including knowledge based on fundamentals history and progress applications practical aspects and examples and prospects of nanotherapeutics It includes the fundamentals of nanotherapeutics including mechanisms and theories behind the phenomena summarizing various approaches of nanotherapeutics in the field of medicine By considering the emerging pandemics and other issues regarding public health the timely need for novel solutions is also described Features Provides a comprehensive knowledge on fundamentals applications current situations and ongoing research in nanotherapeutics Highlights the practical aspects and prospects to enhance the use of nanotherapeutics in the health field Illustrates the significance of using nanotherapeutics in futuristic life Discusses sustainable resolutions to issues in public health Explores the latest implementations and merits of the fields supported by pertinent examples This book is aimed at undergraduate graduate students and researchers in drug delivery gene and cancer therapy biomedical engineering and nanotechnology

Transgenic Models of Human Viral and Immunological Disease Francis V. Chisari, Michael B.A. Oldstone, 2012-12-06 Most diseases are multifactorial Transgenic technology permits genes of interest to be expressed in a small manipulatable laboratory animal model By this process murine models of human infections can be developed and studied effects of cytokines in vivo focally expressed in unique cells can be established and manipulated and a variety of autoimmune disorders mimicking human disease can be constructed In this volume these approaches for study of human immunodeficiency virus hepatitis virus viruses causing tumors and chronic degenerative disorders are described Also included are chapters of transgenic models of autoimmune disorders like diabetes systemic lupus and ankylosing spondylitis

Molecular and Cellular Mechanisms of Neural-immune Interactions

Floyd E. Bloom, Iain L. Campbell, Lennart Mucke, 1993 **Oxford Textbook of Medicine** D. J. Weatherall, J. G. G.

Ledingham, D. A. Warrell, 1996 *Macrophages and the Nervous System* Perry, 1994 The interface between the immune and nervous systems is an increasingly important area of scientific research This book is an up to date review of research conducted on the main cell of the immune system macrophage and its relationship with neuronal cells

Transcriptional Control of Cell Growth Peggy J. Farnham, 2012-12-06 It is of critical importance to maintain an appropriate balance between proliferation and quiescence or differentiation throughout the lifespan of all animals An important control point in this balance occurs in the G phase of the cell cycle On the basis of environmental cues a cell in G must decide whether to

continue through the proliferative cycle and enter S phase where DNA replication occurs or to exit from the proliferative cycle into a nonreplicating state. Alterations in the mechanisms that normally control this decision can lead to cancer cell death or loss of differentiated cellular phenotypes. The identification of the E2F gene family of transcription factors has allowed a more complete understanding of how the cell maintains an appropriate proliferative state. This volume provides an up to date account of present reports concerning E2F as well as a framework for future investigations. E2F activity requires heterodimerization of two partners. Either partner can be one of several different transcription factors. E2F1, E2F2, E2F3, E2F4 or E2F5 can heterodimerize with either Dp1 or Dp2. Cellular promoters whose E2F sites mediate a link between transcription and proliferation drive genes whose products are required for DNA synthesis and genes that encode regulators of cell growth. A detailed analysis of the role that E2F family members play in transcription from these promoters is presented in the chapter by J. E. SLANSKY and P. J. FARNHAM.

Cell and Tissue Organization in the Circulatory and Ventilatory Systems Marc Thiriet, 2011-09-08. The volumes in this authoritative series present a multidisciplinary approach to modeling and simulation of flows in the cardiovascular and ventilatory systems especially multiscale modeling and coupled simulations. The cardiovascular and respiratory systems are tightly coupled as their primary function is to supply oxygen to and remove carbon dioxide from the body's cells. Because physiological conduits have deformable and reactive walls macroscopic flow behavior and prediction must be coupled to nano and microscopic events in a corrector scheme of regulated mechanisms. Therefore investigation of flows of blood and air in physiological conduits requires an understanding of the biology chemistry and physics of these systems together with the mathematical tools to describe their functioning. The present volume is devoted to cellular events that allow adaptation to environmental conditions particularly mechanotransduction. It begins with cell organization and a survey of cell types in the vasculature and respiratory tract. It then addresses cell structure and functions especially in interactions with adjoining cells and matrix.

Immunology of Silicones Michael Potter, Noel Rose, 2012-12-06. This issue of Current Topics in Microbiology and Immunology records the proceedings of a Workshop on the Immunology of Silicones held at the Natcher Conference Center National Institutes of Health Bethesda Maryland March 13 and 14 1995. A large number of investigators from North America and Europe met to discuss available data on how the immune system responds to silicones and related materials. Some aspects of this field are controversial. Nonetheless the meeting was marked by a civil and open exchange of scientific information and divergent interpretations reflecting the traditions of scientific communication. Each invited participant was asked to submit an article summarizing his/her presentation. Most of the papers are published as submitted with only editorial changes to conform with the guidelines given to each contributor or revisions to clarify aspects of the paper. The papers should not be regarded as peer reviewed publications. This preface will attempt to outline some of the immunological areas of investigation relating to silicones.

Bacterial Invasiveness Virginia L. Miller, 2012-12-06. Intracellular pathogens are responsible for a number of important

diseases worldwide including tuberculosis plague and bacillary dysentery This volume focusses on those intracellular pathogens that have been studied most extensively at the molecular genetic and cellular level The reviews attempt to integrate the information derived from these diverse approaches into a cohesive picture In recent years the entry steps have been described at the molecular and genetic level and the important signal transduction events are being elucidated It is now becoming clear that there are both similarities and differences both in terms of the steps involved and of the genetic basis of bacterial invasiveness These reviews of the state of the art provide a foundation from which to proceed

Morphogenesis and Maturation of Retroviruses Hans-Georg Kräusslich, 2012-12-06 Retroviruses arguably belong to the most fascinating of all viruses because of their unusual and highly efficient mode of replication involving reverse transcription and integration of the viral genome and a complex system of transcriptional and post transcriptional regulatory mechanisms The importance of retroviruses as human and animal pathogens has also enhanced scientific and medical interest in this diverse group of viruses and has spurred an intensive search for novel and improved antiviral agents More recently analysis of retroviral replication and in particular understanding the formation and composition of the virus particle has received additional attention because of the promise of retroviral vectors as vehicles for human somatic gene therapy Many recent advances have been made in our understanding of the molecular mechanisms governing assembly and release of infectious retrovirus particles This book attempts to summarize these recent developments and to provide an overview of our current knowledge on retrovirus particle formation The individual chapters of the book deal with specific steps in the pathway of retroviral morphogenesis and maturation starting at the time when the components of the virus have been synthesized within the infected cell and ending once the infectious virion has been released from the cell An introductory chapter provides a comparative description of the structure and morphology of various retroviruses

Die Infektiologie Dieter Adam, H.W. Doerr, H. Link, H. Lode, 2013-03-07 Die moderne Infektiologie in einem Werk Neue Erreger neue Resistenzen neue Antiinfektiva Das interdisziplinäre Nachschlagewerk liefert Ihnen die Antworten auf alle Fragen zur Klinik Diagnostik und Therapie der modernen Infektionskrankheiten Bedarfsgerechter Wissenszugang Erreger oder Organ orientiert 600 farbige Abbildungen Kompakte Zusammenfassungen für den schnellen Überblick Handfeste Praxis Tipps Zusatz Informationen zur Recherche in Literatur und Internet Sichern Sie sich das derzeit umfassendste deutschsprachige Referenzwerk der Infektiologie von Klinikern aller Fachbereiche und Infektiologen praxisgerecht für Sie konzipiert

Retroviral Insertion and Oncogene Activation Hsing-Jien Kung, Peter K. Vogt, 2012-12-06 An integrated retrovirus effectively becomes part of the cellular genome but with the difference that the virus to a large extent retains control over its own expression through nontranslated sequences in the long terminal repeat LTR Some retroviruses also code for nonstructural proteins that further regulate proviral expression Integration changes the cell genome it adds viral genes and in the case of transducing retroviruses also adds cell derived oncogenes that have been incorporated into the viral genome Integration can also have

consequences for cellular genes The transcriptional signals in a provirus can activate expression of neighboring cellular genes the integration even can disrupt and thus inactivate cellular genes These effects of retroviral genomes take place in cis they are referred to as insertional mutagenesis and are the subject of this volume Almost 10 years have passed since W Hayward S Astrin and their colleagues found that in B cell lymphomas of chickens induced by avian leukosis virus transcription of the cellular proto oncogene myc was upregulated through the integration of a complete or partial provirus in its vicinity This landmark discovery suggested a mechanism by which retro viruses that do not carry cellular oncogenes in their genome nonacute retroviruses can cause cancer It contributed the first evidence for the carcinogen potential of oncogenes that are not part of a viral genome

Knobil and Neill's Physiology of Reproduction ,2005-12-12 The 3rd edition the first new one in ten years includes coverage of molecular levels of detail arising from the last decade s explosion of information at this level of organismic organization There are 5 new Associate Editors and about 2 3 of the chapters have new authors Chapters prepared by return authors are extensively revised Several new chapters have been added on the topic of pregnancy reflecting the vigorous investigation of this topic during the last decade The information covered includes both human and experimental animals basic principles are sought and information at the organismic and molecular levels are presented The leading comprehensive work on the physiology of reproduction Edited and authored by the world s leading scientists in the field Is a synthesis of the molecular cellular and organismic levels of organization Bibliographies of chapters are extensive and cover all the relevant literature

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