

MONONUCLEAR PHAGOCYTES in CELL BIOLOGY

Edited by

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Mononuclear Phagocytes In Cell Biology

Dolph Adams



Mononuclear Phagocytes In Cell Biology:

Mononuclear Phagocytes in Cell Biology Gabriel Lopez-Berestein, Jim Klostergaard, 1992-12-07 Mononuclear Phagocytes in Cell Biology provides a state of the art review of the biological biochemical and molecular processes involved in macrophage activation The book focuses on the role of macrophage signals in health and disease which are discussed with particular attention to the physiological role of macrophages in homeostasis The role played by macrophages in bone metabolism and the role of cytokines in diseases affecting the macrophage e g HIV and leishmaniasis are covered as well The book also exploits the potential of macrophage mimicry as a therapeutic tool Mononuclear Phagocytes in Cell Biology is a practical reference for cell biologists medical microbiologists molecular biologists immunologists hematologists immunogeneticists immunopharmacologists and other basic and clinical researchers interested in macrophage development biology and differentiation

Mononuclear Phagocytes R. van Furth, 2013-06-29 *Methods for Studying Mononuclear Phagocytes* Dolph Adams, 2012-12-02 Methods for Studying Mononuclear Phagocytes is a practical guide to the study of mononuclear phagocytes that brings together various well established and useful methods for examining these cells The technical protocols have been made detailed specific practical and inclusive of the necessary mystique for immediate and direct application in the laboratory The book is divided into 11 parts arranged according to the sequence of steps that would generally be followed to study a given population of mononuclear phagocytes I methods for obtaining and culturing populations of human and animal mononuclear phagocytes II methods for separating populations of leukocytes to enrich or deplete their content of mononuclear phagocytes II criteria and techniques for identifying mononuclear phagocytes IV methods for quantifying the number of mononuclear phagocytes V techniques for studying the morphology of mononuclear phagocytes VI methods for quantifying the biochemical constituents of mononuclear phagocytes VII methods of quantifying phagocytosis pinocytosis and chemotaxis VIII methods for quantifying the secretory products of mononuclear phagocytes IX procedures for quantifying the destruction of tumor cells and of microorganisms by mononuclear phagocytes X methods for studying the cell biology of mononuclear phagocytes and XI techniques for studying mononuclear phagocytes in vivo including procedures for estimating their kinetics accumulation identification and microbicidal properties

Mononuclear Phagocytes R. van Furth, 2013-04-17 Mononuclear phagocytes which include macrophages monocytes and their precursor cells are the most important cells in the host defence against micro organisms and tumor cells During the last twenty five years research on the biology of mononuclear phagocytes has increased tremendously This motivated Professor R van Furth to organize five international conferences on this subject in Leiden the Netherlands The edited proceedings of these meetings were published in 1970 Mononuclear Phagocytes in 1975 Mononuclear Phagocytes in Immunity Infections and Pathology in 1980 Mononuclear Phagocytes Functional Aspects and in 1985 Mononuclear Phagocytes Characteristics Physiology and Function Reviews of these volumes published in international journals praised them as the most up to date

state of the art publications The publication of 1991 includes 88 chapters written by more than 200 authors *Phagocytes and Cellular Immunity* Hans H. Gadebusch, 2020-05-11 First Published in 1979 Each of the first two papers deal with the particular cellular component and its role in containing appropriate pathogen **The Mononuclear Phagocyte System in Infectious Disease** Geanncarlo Lugo-Villarino, Céline Cougoule, Etienne Meunier, Yoann Rombouts, Christel Vérollet, Luciana Balboa, 2019-10-04 The Mononuclear Phagocyte System MPS of vertebrates is composed of monocytes macrophages and dendritic cells Together they form part of the first line of immune defense against a variety of pathogens bacteria fungi parasites and viruses and thus play an important role in maintaining organism homeostasis The mode of transmission type of replication and mechanism of disease causing differ significantly for each pathogen eliciting a unique immune response in the host Within this context the MPS acts as both the sentinel and tailor of the immune system As sentinels MPS cells are found in blood and within tissues throughout the body to patrol against pathogenic insult The strategy to detect microbial non self relies on MPS to recognize conserved microbial products known as pathogen associated molecular pattern PAMPs PAMPs recognition represents a checkpoint in the response to pathogens and relies on conserved pattern recognition receptors PRRs Upon PRR engagement MPS mount a cell autonomous attack that includes the internalization and compartmentalization of intracellular pathogens into toxic compartments that promote destruction In parallel MPS cells launch an inflammatory response composed of a cellular arm and soluble factors to control extracellular pathogens In cases when innate immunity fails to eliminate the invading microbe MPS serves as a tailor to generate adaptive immunity for pathogen eradication and generation of memory cells thus ensuring enhanced protection against re infection Indeed MPS cell functions comprise the capture process migration and delivery of antigenic information to lymphoid organs where type 1 immunity is tailored against intracellular microbes and type 2 immunity against extracellular pathogens However this potent adaptive immunity is also a double edge sword that can cause aberrant inflammatory disorders like autoimmunity or chronic inflammation For this reason MPS also tailors tolerance immunity against unwanted inflammation Successful clearance of the microbe results in its destruction and proper collection of debris resolution of inflammation and tissue healing for which MPS is essential Reciprocally as part of the evolutionary process taking place in all organisms microbes evolved strategies to circumvent the actions bestowed by MPS cells Multiple pathogens modulate the differentiation maturation and activation programs of the MPS as an efficient strategy to avoid a dedicated immune response Among the most common evasion strategies are the subversion of phagocytosis inhibition of PRR mediated immunity resistance to intracellular killing by reactive oxygen and nitrogen species restriction of phagosome maturation modulation of cellular metabolism and nutrient acquisition regulation of cell death and autophagy and modulation of pro inflammatory responses and hijacking of tolerance mechanisms among others The tenet of this eBook is that a better understanding of MPS in infection will yield insights for development of therapeutics to enhance antimicrobial processes or dampen detrimental inflammation for the host s benefit

We believe that contributions to this topic will serve as a platform for discussion and debate about relevant issues and themes in this field Our aim is to bring expert junior and senior scientists to address recent progress highlight critical knowledge gaps foment scientific exchange and establish conceptual frameworks for future MPS investigation in the context of infectious disease

Dendritic Cell and Macrophage Nomenclature and Classification Florent Ginhoux, Martin Guillemin, Shalin Naik, 2016-07-14

The mononuclear phagocyte system MPS comprises dendritic cells DCs monocytes and macrophages M s that together play crucial roles in tissue immunity and homeostasis but also contribute to a broad spectrum of pathologies They are thus attractive therapeutic targets for immune therapy However the distinction between DCs monocytes and M subpopulations has been a matter of controversy and the current nomenclature has been a confounding factor DCs are remarkably heterogeneous and consist of multiple subsets traditionally defined by their expression of various surface markers While markers are important to define various populations of the MPS they do not specifically define the intrinsic nature of a cell population and do not always segregate a bona fide cell type of relative homogeneity Markers are redundant or simply define distinct activation states within one subset rather than independent subpopulations One example are the steady state CD11b DCs which are often not distinguished from monocyte derived cells and macrophages due to their overlapping phenotype Lastly monocyte fate during inflammation results in cells bearing the phenotypic and functional features of both DCs and M s significantly adding to the confusion In fact depending on the context of the study and the focus of the laboratory a monocyte derived cell will be either be called monocyte derived DCs or macrophages Because the names we give to cells are often associated with a functional connotation this is much more than simple semantics The name we give to a population fundamentally changes the perception of its biology and can impact on research design and interpretation Recent evidence in the ontogeny and transcriptional regulation of DCs and M s combined with the identification of DC and M specific markers has dramatically changed our understanding of their interrelationship in the steady state and inflammation In steady state DCs are constantly replaced by circulating blood precursors that arise from committed progenitors in the bone marrow Similarly some M populations are also constantly replaced by circulating blood monocytes However others tissue M s are derived from embryonic precursors are seeded before birth and maintain themselves in adults by self renewal In inflammation such differentiation pathways are fundamentally changed and unique monocyte derived inflammatory cells are generated Current DC monocyte and M nomenclature does not take into account these new developments and as a consequence is quite confusing We believe that the field is in need of a fresh view on this topic as well as an upfront debate on DC and M nomenclature Our aim is to bring expert junior and senior scientists to revisit this topic in light of these recent developments This Research Topic will cover all aspects of DC monocyte and M biology including development transcriptional regulation functional specializations in lymphoid and non lymphoid tissues and in both human and mouse models Given the central position of DCs monocytes and M s in tissue homeostasis immunity and disease

this topic should be of interest to a large spectrum of the biomedical community

Role of CD1- and MR1-restricted T cells in Immunity and Disease Kazuya Iwabuchi, Luc Van Kaer, 2019-10-18 CD1 and MR1 are major histocompatibility complex MHC class I related proteins that bind and present non peptide antigens to subsets of T cells with specialized functions CD1 proteins typically present lipid antigens to CD1 restricted T cells whereas MR1 presents vitamin B based ligands and a variety of drugs and drug like molecules to MR1 restricted T cells The CD1 family of antigen presenting molecules has been divided into two groups Group 1 contains CD1a CD1b and CD1c and Group 2 contains CD1d Additionally CD1e is expressed intracellularly and is involved in the loading of lipid antigens onto Group 1 CD1 proteins Humans express both Groups 1 and 2 CD1 proteins whereas mice only express CD1d Group 1 CD1 proteins present lipid antigens to T cells that generally express diverse T cell receptors TCRs and exhibit adaptive like functions whereas CD1d presents lipid antigens to subsets of T cells that express either diverse or highly restricted TCRs and exhibit innate like functions CD1d restricted T cells are called natural killer T NKT cells which includes Type I or invariant NKT iNKT cells expressing semi invariant TCRs and Type II NKT cells expressing more diverse TCRs CD1 restricted T cells have been implicated in a wide variety of diseases including cancer infections and autoimmune inflammatory and metabolic diseases Additionally NKT cells have been targeted for immunotherapy of disease with ligands such as galactosylceramide for iNKT cells or sulfatide for Type II NKT cells Like iNKT cells MR1 restricted T cells express semi invariant TCRs and display innate like functions MR1 restricted T cells also called mucosal associated invariant T MAIT cells have been implicated in immune responses against a variety of pathogens such as Mycobacterium tuberculosis Pseudomonas aeruginosa Helicobacter pylori hepatitis C virus and influenza virus Moreover these cells contribute to autoimmune and inflammatory diseases including colitis rheumatoid arthritis psoriasis lupus and diabetes

Mononuclear Phagocyte Biology Alvin Volkman, 1984

Wintrobe's Clinical Hematology John P. Greer, 2009 Now available in a thoroughly revised Twelfth Edition Wintrobe's Clinical Hematology continues to be an industry leader with its ability to correlate basic science with the clinical practice of hematology With the first edition of Wintrobe's Clinical Hematology published in 1942 clearly establishing hematology as a distinct subspecialty of Internal Medicine the latest edition continues the influence of the Wintrobe name and helps to set this book apart from the competition With its strong focus on the clinical aspects of hematology the book has generated a strong following among internists and general practitioners who want a single resource to consult for their patients who present any blood related disorder The Twelfth Edition is in full color for the first time boasts a new editorial team and includes expanded coverage of new medications and four new chapters on Newborn Anemias Pathology of LHC Spleen Tumors and Myeloproliferative Disorders and Mast Cell Disease A companion Website will offer the fully searchable text and an image bank

Macrophages and Natural Killer Cells Sigurd J. Normann, 2012-12-06 This book is the outcome of a meeting held in Davos Switzerland February 7 12 1982 focused primarily on mononuclear phagocytes and on natural killer NK cells This IX

International RES Congress was attended by 489 scientists from 31 countries and there were 340 scientific presentations in oral or poster session The essential purpose of the Congress was to bring together scientists representing various aspects of mononuclear phagocyte biology to review and examine critically the effects and mechanisms of macrophage growth control as well as the participation of these cells in the afferent and efferent limbs of the immune response Additional topics included the production and distribution of mononuclear phagocytes the intrinsic and extrinsic regulation of these cells and the origin nature function and regulation of NK cells The ultimate goal of the Congress was to enhance communication between scientists in various countries and disciplines so that new research directives could be defined with which to explore basic aspects of macrophage and NK cell participation in the control of cancer and infection Research Awards Index ,1989

Subject Index of Extramural Research Administered by the National Cancer Institute ,1978 Current information about research grants and contracts supported by the National Cancer Institute Subject listing gives contract or grant number and topic Investigator grant number and contract number indexes *Subject Index of Current Extramural Research Administered by the National Cancer Institute* ,1978 *Cells, Tissues, and Disease* Guido Majno,Isabelle Joris,2004-08-26

This book lays out the principles of general pathology for biomedical researchers grad students medical students and physicians with elegance and deep insight Disease processes are explained in the light of malfunctions at the cellular level offering a rich understanding of the clinical correlates of all aspects of fundamental cellular physiology and basic biomedicine The book has been fully revised and updated to present a current but deep understanding of disease states at the cell and tissue levels cellular pathology inflammation immunopathology vascular disturbance and tumor biology *Microbes as Tools for Cell Biology* ,1995-02-08 *Microbes as Tools for Cell Biology* bridges the gap between cell biology and microbiology This laboratory guide provides a microbial tool kit for biologists who wish to use microbes as probes for basic cellular functions The volume is organized into three sections covering essential information on culture and genetic manipulation of microbes assays for pathogen host recognition and analysis of intracellular parasitism Each chapter outlines practical procedures and describes the rationale behind their development This volume should prove useful to anyone interested in the biology of infectious agents or their exploitation as a new generation of cell biological reagents Key Features Introduction by renowned microbiologist Dr Stanley Falkow Covers manipulation of pathogens especially generation and selection of non virulent phenotypes Guides researchers in the study of intracellular pathogenesis Describes microbial adherence and phagocytosis assays Focuses on protein trafficking in infected cells Well illustrated with color plates halftones and diagrams

Proceedings of the Society for Experimental Biology and Medicine Society for Experimental Biology and Medicine (New York, N.Y.),1908 List of members in each volume **Biology of Growth Factors** J. E. Kudlow,2013-11-09 Growth factors are elaborated to control the growth of cells in such physiological processes as wound healing tissue regeneration and the immune response Abnormal production of these growth factors their receptors or intracellular mediators of their action may

lead to disease states including oncogenesis This volume will focus on exciting developments in defining the precise molecular lesions that permit the conversion of controlled proliferative signals to neoplasia on the possible involvement of growth factors in the development of blood vessel diseases as seen in diabetes and atherosclerosis on the altered immune surveillance that leads to autoimmunity and on the fundamental mechanisms by which growth factors signal their target cells We expect that the contents of this volume will help promote understanding of the role of these fundamental biological processes and their alterations in a wide variety of disease states and stimulate new investigations in this important area of biomedical research

The Editors v CONTENTS PERSPECTIVES ON THE CONTROL OF GROWTH AND DIFFERENTIATION Perspectives on the Biology of Growth Factors I B Fritz Platelet Derived Growth Factor Its Role in Health and Disease 9 R Ross and E W Raines Molecular and Developmental Biology Aspects of Fibroblast Growth Factor 23 D Gospodarowicz Chemical and Biochemical Properties of Human Angiogenin 41 B L Vallee and J F Riordan GROWTH FACTOR ONCOGENE RELATIONSHIPS Structure Function Relationships in Cellular and Viral Cytosolic Protein Tyrosine Kinases 55 T Pawson P Greer M Moran K *Macrophages and Related Cells* Michael A. Horton, 2013-06-29 To produce a comprehensive overview of macrophages and related cell types in a short review volume is an impossible task When I selected the topics to be included some equally important areas were omitted by necessity and for this I apologize My choices have been somewhat eclectic touching subjects of personal interest such as osteoclast biology and macrophage electrophysiology or of current fashion apoptosis antigen processing cell adhesion molecules The book has also had to encompass areas of a more general flavor to provide balance for the general reader such as reviews of macrophage development heterogeneity and function and of the surface molecules expressed by macrophages I thank all the authors for their prompt submissions all have been of high quality and my editorial tasks thankfully have been minimal Michael A Horton London United Kingdom ix Contents Chapter J An Overview of Receptors of Macrophages Iain Fraser and Siamon Gordon 1 Introduction 1 2 The Mononuclear Phagocyte System 2 3 Diversity of Macrophage Plasma Membrane Receptors 6 3 1 A Structural Approach to Classification 6 8 3 2 Multisubunit Receptors 3 3 Soluble Receptors 9 3 4 Lectins and Lectin Like Receptors 12 4 Functions and Selected Examples 14 4 1 Growth Differentiation and Modulation 14 4 2 Cell Cell and Cell Matrix Interactions 16 4 3 Endocytosis and Scavenger Receptors 16 4 4 Secretory Responses and Biosynthesis of Effector Molecules 17 5 Concluding Remarks 17 6 References 18

The Journal of Cell Biology, 1996 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972

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