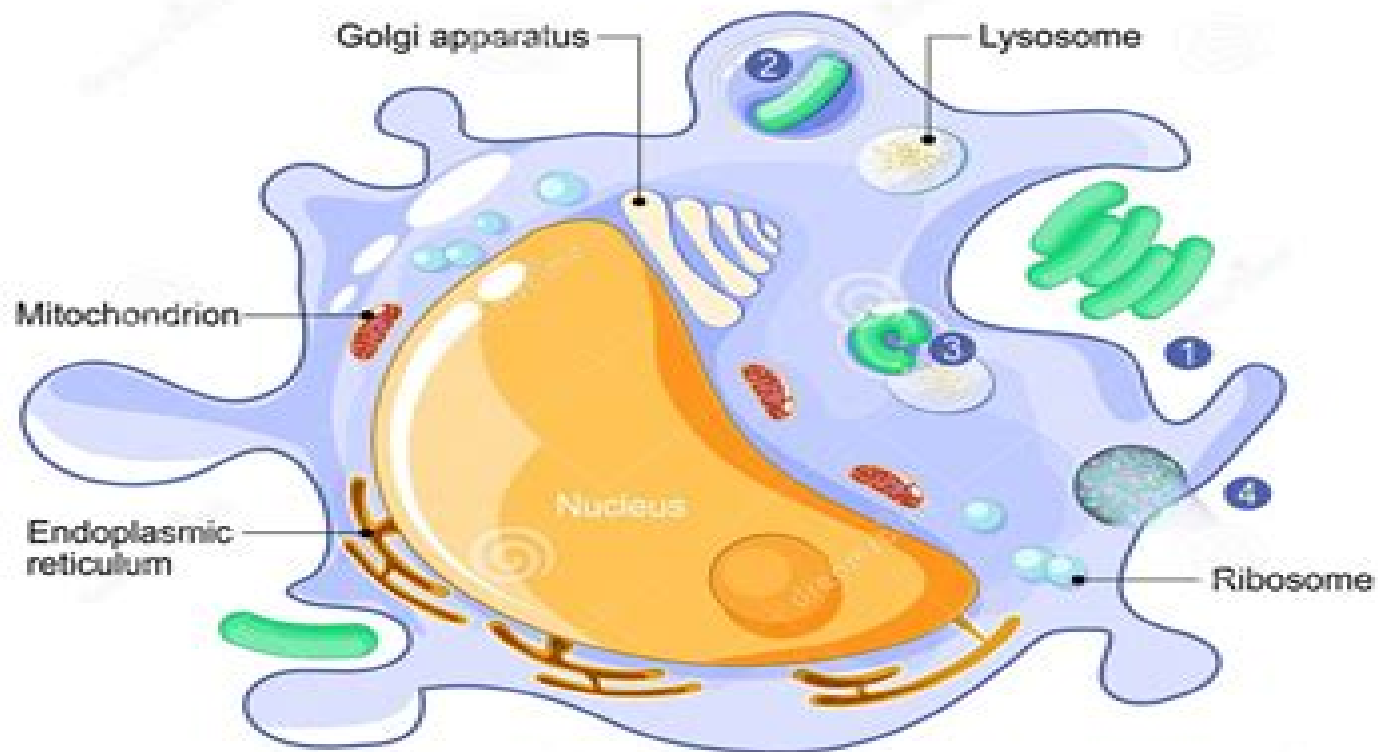


Macrophage



-
- ① Moving toward bacteria
 - ② Vesicle formed around a bacteria
 - ③ Lysosome fusing with a vesicle
 - ④ Undigested remains of bacteria

The Macrophage

Jin-Ying Zhang



The Macrophage:

Immunobiology of the Macrophage David S. Nelson, 2014-06-28 Immunobiology of the Macrophage presents an account of the state of knowledge of the immunobiology of the macrophage. The book's contributors, immunologists of diverse scientific and geographic backgrounds, have been encouraged to give personal accounts of developments in their special fields of interest as well as critical surveys of the backgrounds leading to these developments. The book begins with a study on the functions of macrophages in the initiation and regulation of antibody responses *in vitro*. This is followed by separate chapters on topics such as the role of macrophages in making antigen more immunogenic and less tolerogenic, functional distinctions between macrophages at different sites, and the role of the macrophage in antigen recognition by T lymphocytes. Subsequent chapters examine interactions between macrophages and lymphocytes in the production of interferon and other mediators of cellular immunity, macrophage cell lines, and their uses in immunobiology, and cytotoxic macrophages in allograft rejection.

The Macrophage as Therapeutic Target Siamon Gordon, 2012-12-06 During the past decade, the rapid growth of molecular and cellular knowledge of macrophages as a specialized host defense and homeostatic system has begun to offer attractive targets for therapeutic intervention. Macrophages play a central role in a wide range of disease processes, from genetically determined lysosomal storage diseases to acute sepsis, chronic inflammation, and repair of tissue injury and cell death. Under- or overactivity of macrophage clearance, immune effector functions, and responses to metabolic abnormalities contribute to common disorders such as autoimmunity, atherosclerosis, Alzheimer's disease, and major infections including AIDS and Tuberculosis. Whilst the goals of therapeutic intervention based on improved understanding of macrophage functions and their contribution to pathogenesis may seem self-evident, there are considerable difficulties in producing useful new agents. The present volume covers a range of subjects and provides opportunities for a more focused, macrophage-targeted approach. The individual chapters review selected topics briefly to place cellular processes and molecular targets in perspective. Overall, the volume should provide a broad sample of the state of the art. Useful reviews and references in the literature are cited within individual chapters.

The Macrophage in Neoplasia Mary Fink, 2012-12-02 The Macrophage in Neoplasia is a compilation of papers presented at a workshop held at the Marine Biological Laboratory, Woods Hole, Massachusetts, on October 8-11, 1975. The book presents the many faceted activities of macrophages. This book is divided according to the five sessions of the workshop. The first session talks about the role of tumor macrophages *in vivo*. It then elucidates the macrophage function and indicates how the interaction of macrophages with other cells can alter the host-tumor balance. The remaining sessions, as presented in this book, explore the mechanism of macrophage-mediated cytotoxicity, functional expression of macrophages and neoplasia, and the stimulation of macrophage function and applied therapy.

Mycobacteria and the Macrophage Suzie Hingley-Wilson, Samantha Leigh Sampson, Sangeeta Tiwari, 2023-12-28 The macrophage or 'big eater' is often considered the first cell type to encounter the causative agent of Tuberculosis (TB).

Mycobacterium tuberculosis upon entry to the lung Once inside the macrophage the tubercle bacillus can survive and even replicate where many other invading pathogens perish Recent research suggests the bacilli adapts within this hostile environment treating the macrophage like a Trojan horse Indeed cutting edge techniques have revealed that the degree of bacterial heterogeneity and resistance to antibiotics changes within the macrophage M tuberculosis spends most of its life cycle within the macrophage and has adopted specific mechanisms to survive egress and to recruit more of this niche cell eg the Type VII secretion system ESX 1 Understanding the host pathogen interaction in tuberculous infection is key to understanding TB which remains the number one cause of death from a bacterial infection In this research topic we aim to cover advances in understanding how the tubercle bacillus adapts and survives within the host cell Determining the responsible mechanisms may reveal novel ways to target this deadly pathogen and halt its adaptation and transformation within these potentially destructive or permissive cells

The Macrophage Nancy N. Pearsall, Russell S. Weiser, 1970 The ubiquitous phagocytic cells that we know as macrophages vary in many of their characteristics depending on their location physiological state and function Although Metchnikoff appreciated many of their potentialities nearly a century ago most early investigators regarded macrophages primarily as scavenger cells Research in many fields has made it increasingly obvious that macrophages do in fact have a multitude of important functions above and beyond their ability to scavenge and dispose of effete cells and extraneous matter Several decades ago it was realized that macrophages are the chief agents of antimicrobial cellular immunity Only during the past few years has the importance of the macrophage cytophilic antibody system in cellular immunity been appreciated The maturation of monocytes to macrophages then to epithelioid cells and finally to giant cells has been described both in vivo and in vitro The contribution of this sequence of events to cellular immunity is not fully apparent but is of great interest Recent research has led to an awareness of the extensive synthetic capabilities of macrophages It has been shown that these cells can synthesize interferon components of complement and numerous other biologically active substances including a wide array of enzymes Macrophages are important in allograft rejection They function in delayed sensitivity reactions and in the pathogenesis of autoimmune diseases They are probably often essential to antibody formation by their activities of trapping and processing antigen and perhaps by virtue of the activity of their ribonucleic acid In addition macrophages are able to detoxify both exotoxins and endotoxins as well as other injurious compounds Thus macrophages have emerged from their historical role as simple scavenger cells to take their place with lymphocytes as mobile cells with a wide spectrum of functions of primary importance to body economy The possible relationships between macrophages and lymphocytes and between macrophages and other cell types remain controversial However it is probable that one vital function of macrophages is to regulate the proliferation and differentiation of other cell types and conversely that other cells contribute to macrophage homeostasis Recent rapid advances in research concerning macrophages have resulted in a tremendous increase in the literature scattered throughout a wide variety of publications

The object of preparing this monograph is twofold first to consolidate available information in order to provide a comprehensive characterization of the macrophage for those unfamiliar with it and second to review some of the most recent work in this area for the benefit of those who are already familiar with the field Wherever possible reviews are quoted Many recent findings not summarized elsewhere are reviewed in detail It is hoped that the references cited will provide a point of departure for gaining further information on subjects of special interest to the reader Even though much is known about the macrophage and its functions many problems of great interest remain unsolved For example consideration of the control mechanisms which operate in the proliferation and differentiation of macrophages offers a challenge for future research In addition the molecular events concerned in macrophage cytophilic antibody activity are of the utmost importance and are incompletely understood These and similar problems provide promising areas for further investigation The role of tumor-associated macrophages in tumor progression Bernd Kaina,Hans Raskov,Ismail Gögenur,2023-06-01 **The**

Purification and Characterization of Lysophospholipases from the Macrophage-like Cell Line P388D1 Ying Yi Zhang,1989 **The Role of the Macrophage and Cytophilic Antibody in Immunologic Reactions** John Martin Johnson,1969 *The Neurology of AIDS* Howard E. Gendelman,2011-11-29 This comprehensive textbook covers all aspects of the neurology of AIDS including the latest scientific research clinical presentation and treatment strategies Particular emphasis is placed on current thinking with regard to disease pathogenesis patient care and the prospects for the future

The Macrophage Claire E. Lewis,James O'Donnell McGee,1992 Historically the study of immunology has focused to a large extent on the central role of antigen recognition and antibody structure and function in the response of the host to infection In the last two decades however scientists have been turning their attention to the involvement of various cell types in host defense This volume provides a collection of absorbing reviews written by expert scientists on this developing topic A broad range of material is included relating to the molecular and cell biology of the macrophage and its host defence activity in human disease The important role that these cells play in hemopoiesis and the functioning of the nervous system is also discussed Advanced students and researchers in immunology cell biology and medicine will find The Macrophage a valuable source of current research into this emerging field **Zurich Insurance Company V. Raymark Industries, Inc** ,1986

The Journal of Medical Research ,1922 **Journal of Medical Research** ,1922 *Pathology of the Lung* William M. Thurlbeck,Andrew Churg,1995 The last years have witnessed remarkable changes in the incidence types of lung disease seen by clinicians pathologists including the resurgence of tuberculosis the far reaching impact of AIDS At the same time major advances in understanding the genesis of pathologic processes especially using new techniques of molecular biology immunochemistry have led to important breakthroughs in diagnosis treatment High time for the new edition of this unparalleled work Summary of the Dissertation[s] Submitted in Partial Satisfaction of the Requirements for the Degree of Doctor of Philosophy California. University. Graduate Division,1915 International Medical and Surgical Survey ,1921

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