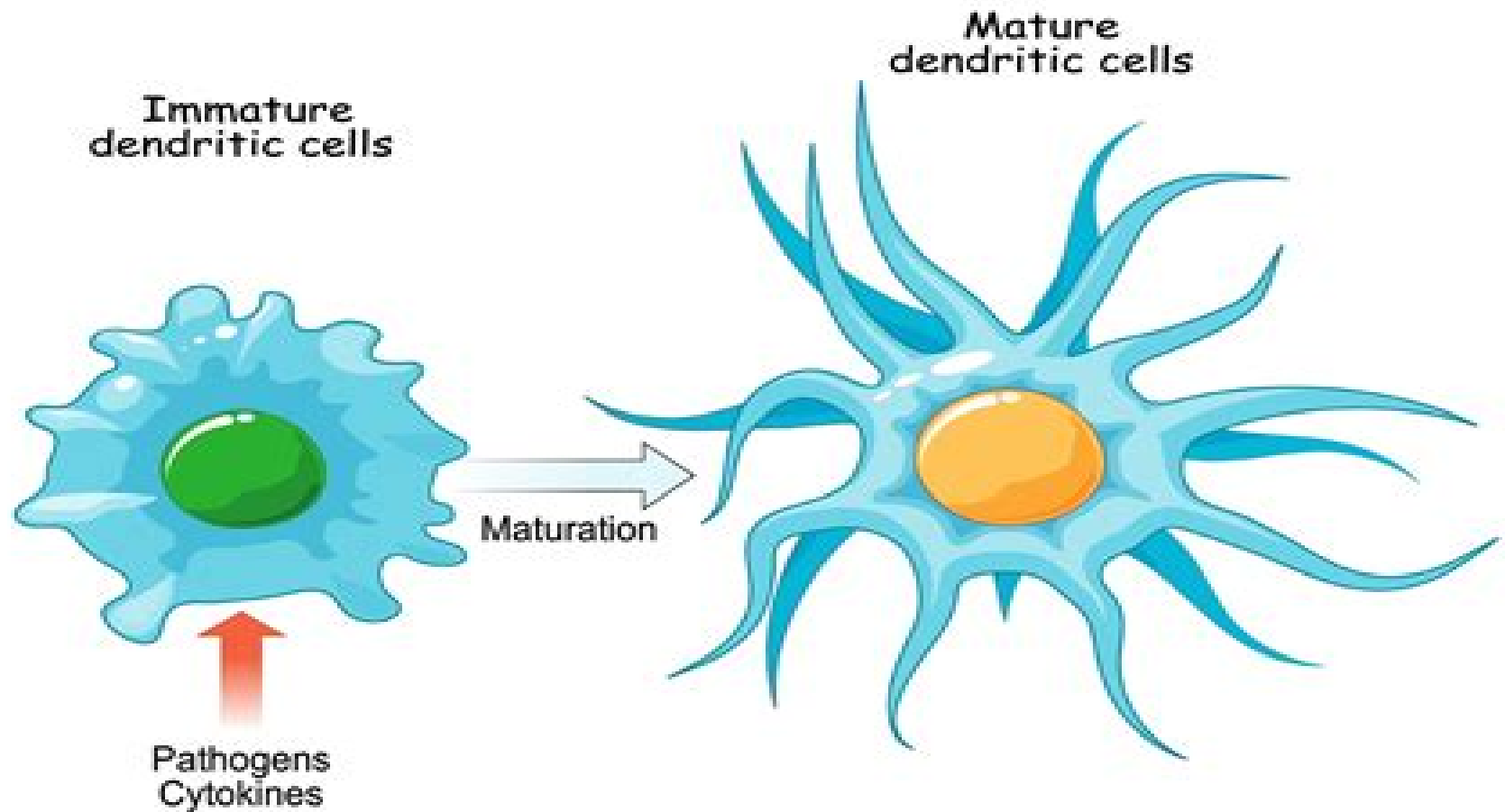


# Dendritic cells



# Dendritic Cells

**Stephen P. Robinson, Andrew J. Stagg**



## **Dendritic Cells:**

### **An Antigen Depository of the Immune System: Follicular Dendritic Cells** Marie H. Kosco-Vilbois, 2012-12-06

Follicular dendritic cells (FDCs) are unique among cells of the immune system. While their morphological characteristics resulted in their inclusion as a dendritic cell type, they differ quite significantly from the other members of the dendritic cell family. In contrast to T cell associated dendritic cells or the Langerhans cells found in the skin, FDCs reside in highly organized B cell follicles within secondary lymphoid tissues. This site of residence provided a nomenclature committee in 1982 with the second descriptive factor for the derivation of their name. The cardinal feature of FDCs is to trap and retain antigen on the surface of their dendritic processes for extended amounts of time and it is this feature that provides the conceptual component for the title of this book. In response to an antigenic challenge, primary B cell follicles undergo dynamic events giving rise to germinal centers which are associated with activation, expansion and differentiation processes of B cells. The interactions of B cells with FDCs and T cells in the germinal centers are essential for generating the complete repertoire of antibody isotypes obtained during an antibody response. In addition, stimuli either initiated or maintained during the germinal center response leads to production of high affinity antibodies through the processes of somatic mutation and clonal selection. In this context, FDCs act as a pivotal source of antigen. They accumulate foreign proteins, e.g.

### **Dendritic Cell**

**Control of Immune Responses** Penelope Anne Morel, Lisa Helene Butterfield, 2016-07-27 Dendritic cells (DCs) are among the first cells to encounter pathogens and damage in peripheral tissues and upon activation, DCs migrate to lymph nodes where they activate and educate T cells to initiate and shape the immune response. DCs present pathogen derived antigen to T cells and drive T cell differentiation into particular effector cells through the expression and secretion of costimulatory molecules and cytokines respectively. The study of DC biology has included the identification of multiple DC subsets in tissues and lymphoid organs, the differentiation and plasticity of DC subsets, the functional consequences of DC interaction with pathogen, control of DC migratory properties and the impact of DC on T cell activation and differentiation. In recent years, sophisticated systems biology approaches have been developed to deepen our understanding of DC function. These studies have identified differences between DC subsets located in various tissues and critical factors that drive the outcome of the interaction between DCs and T cells. DCs are currently being used in various clinical therapeutic settings including as vaccines for cancer and autoimmune disease. A clear understanding of DC factors that contribute to specific immune responses is vital to the success of DC based therapies. This research topic will give a comprehensive overview of current issues in DC biology and provides an update on the clinical uses of DCs in the therapy of autoimmunity and cancer.

**Dendritic Cells in Fundamental and Clinical Immunology** Paola Ricciardi-Castagnoli, 2013-11-11 These proceedings contain selected contributions from the participants to the Fourth International Symposium on Dendritic cells that was held in Venice Lido, Italy from October 5 to 10, 1996. The symposium was attended by more than 500 scientists coming from 24 different countries. Studies on dendritic

cells DC have been greatly hampered by the difficulties in preparing sufficient cell numbers and in a reasonable pure form At this meeting it has been shown that large quantities of DC can be generated from precursors in both mice and humans and this possibility has enormously encouraged studies aimed to characterize DC physiology and DC specific genes and to employ DC therapeutically as adjuvants for immunization The possibility of generating large numbers of autologous DC that can be used in the manipulation of the immune response against cancer and infectious diseases has tremendously boosted dendritic cell research and the role of DC in a number of medical areas has been heatedly discussed

*Dendritic Cells* Giovanna Lombardi, Yanira Rizzo-Vasquez, 2008-11-24 The understanding of the role of dendritic cells DCs in immune responses has come a long way since Steinmann and colleagues described these cells in 1972 Intensive research during the intervening period has provided a good understanding of the complexity of the DC system and its pivotal role in immunity It is also now clearer how different subsets of DCs interact and regulate each other and how DC populations affect the function of other cells of the immune system The improved understanding of their role in immune response has led to the idea that modulation of DC functions by for example pharmacological agents could be used as a potential therapeutic approach in some pathological conditions The actual applicability and therapeutic potential of all these approaches is yet to be fully demonstrated but nonetheless animal models of human diseases are proving to be very helpful in the evaluation of manipulated DCs as a new treatment in diseases like cancer autoimmunity or asthma DCs are integral to the initiation and regulation of immune response Bancheau et al 2000 The outcome of antigen presentation by DCs is determined by their maturation status which can be induced by their interaction with danger signals To recognise a wide array of pathogen associated molecular patterns PAMP DCs express a number of pattern recognition receptors PRR such as Toll like receptors TLRs and C type lectin receptors CLR that recognise structural components of pathogens and discriminate between self and non self molecules

Harnessing the Participation of Dendritic Cells in Immunity and Tolerance Silvia Beatriz Boscardin, Diana Dudziak, Daniela Santoro Rosa, Christian Muenz, 2020-12-10 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Dendritic Cells in Fundamental and Clinical Immunology Eduard W. A. Kamperdijk, Paul Nieuwenhuis, Elizabeth C.M. Hoefsmit, 2012-12-06 These Proceedings contain the contributions of the participants of the Second International Symposium on Dendritic Cells that was held from the 1st to 25th of June 1992 in Amsterdam the Netherlands The First International Symposium on Dendritic Cells was organized as a Satellite symposium at the occasion of the 30th anniversary of the Japanese Reticuloendothelial Society by Dr Y Imai in Yamagata Japan in 1990 It

was entitled Dendritic Cells in Lymphoid Tissues and focused primarily on the Interdigitating Cells IDC Epidermal Langerhans cells LC and Follicular Dendritic Cells FDC from the point of view of human pathology However the concept of Dendritic Cell System comprising the bone marrow derived IDC and LC but not the FDC was based on animal experiments and mainly on in vitro experiments on isolated cells In a report from the Reticuloendothelial Society Committee on Nomenclature in 1982 Tew Thorbecke and Steinman had already characterized these different types of DC but the gap between in vivo and in vitro function remained In Amsterdam the Symposium focused on the Role of Dendritic Cells in Fundamental and Clinical Immunology First recent developments in molecular biology of antigen presentation and cell biological aspects of signal transduction were discussed in relation to the potential of DC to stimulate lymphocytes and to trigger their in vitro differentiation

*The Role of Dendritic Cells and Monocytes in HIV Infection* Shannon Marie Murray, Paul Urquhart Cameron, 2020-12-09 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org/about/contact](mailto:frontiersin.org/about/contact)

*Molecular Mechanisms of Dendritic Cell-Mediated Immune Tolerance and Autoimmunity* Fang Zhou, Femke Broere, Dipyaman Ganguly, 2024-04-09 Dendritic cells DCs play a critical role in immune system as they are necessary both for innate and adaptive immunity According to their function dendritic cells can be classified in immune tolerogenic or inflammatory DCs DCs have been shown to regulate T cell mediated immune responses and lead to immune tolerance and autoimmunity For example immune tolerogenic DCs facilitate the development of regulatory T cells and inhibit T helper 17 mediated autoimmunity in mice with experimental autoimmune encephalomyelitis Moreover inflammatory DCs activate CD8 and CD4 T cells and elicit T cell mediated inflammatory immune responses in vivo However the molecular and cellular mechanisms underlying DC mediated immune tolerance and autoimmunity are still obscure

*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 monocytes 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 **Dendritic Cells** Svetlana P.

Chapoval,2018-11-07 Since their discovery in 1973 by Zanvil Cohn and Ralph Steinman Nobel Prize in Physiology and Medicine 2011 dendritic cells DCs continue to intrigue research scientists as their new markers subpopulations and properties are being detected and the relevant literature is being doubled each year This book combines the most comprehensive reviews of several critical aspects of DC biology and function written by a group of international experts in the field The first section briefly discusses recent advances in DC subtypes phenotypes and functions in different diseases The following sections look closely at DC phenotyping DC NK cell interplay and roles of DC in bone loss and repair and parasitic infections The final section on DC and cancer includes perspectives on DC vaccination based on modifications and therapeutic applications Computational Epigenetics in Human Diseases, Cell Differentiation, and Cell Reprogramming, Volume I Jianzhong Su,Meng Zhou,Yongchun Zuo,Xiaotian Zhang,2021-02-24 Immunobiology of Dendritic Cells Part A ,2019-10-04 Immunobiology of Dendritic Cells Part A Volume 348 in the International Review of Cell and Molecular Biology

series highlights new advances in the field with this new volume presenting interesting chapters on the Origin and Development of Dendritic Cells Dendritic Cell Subsets and Locations Antigen Processing and Presentation The Interaction of Dendritic Cells With Cancer Cells The Role of Dendritic Cells in Human Diseases and Dendritic Cells based Vaccines for Cancer Therapy Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the International Review of Cell and Molecular Biology series Includes the latest information on the Immunobiology of Dendritic Cells Part A **Dendritic Cells and Virus Infection** Alexander Steinkasserer, 2003-04-23 Dendritic cells are vital to induce potent anti viral immune responses It will become clear to the reader that dendritic cells often play a dual role during viral infections On the one hand they are able to mount potent antiviral immune responses and on the other hand several viruses including HIV 1 use DC as a vector to be transferred from the periphery to the lymph nodes where they infect their prime target Immunobiology of Dendritic Cells Part B, 2019-11-22 Immunobiology of Dendritic Cells Part B Volume 349 in the International Review of Cell and Molecular Biology series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the International Review of Cell and Molecular Biology series Includes the latest information on the Immunobiology of Dendritic Cells

**Dendritic Cells** Michael T. Lotze, Angus W. Thomson, 2001-08-20 Dendritic Cells Second Edition is the new edition of the extremely successful book published in 1998 With the volume of literature on dendritic cells doubling every year it is almost impossible to keep up This book provides the most up to date synthesis of the literature written by the very best authors It is essential reading for any scientist working in immunology cell biology infectious diseases cancer transplantation genetic engineering or the pharmaceutical biotechnology industry An entirely new section on DC biology is included in this edition Also new to this edition are chapters on Imaging Interaction of dendritic cells with viruses Dendritic cells and dendrikines chemokines and the endothelium Molecules expressed in dendritic cells Role of dendritic cells in wound healing and atherosclerosis Delivery of apoptotic bodies Genetic engineering of dendritic cells Imaging Practical aspects of clinical protocol development Dendritic Cell Protocols Stephen P. Robinson, Andrew J. Stagg, 2008-02-02 Dendritic Cell Protocols provides chapter and verse for many useful practical approaches to the art of studying dendritic cells The book gives information on the usual techniques for derivation of human dendritic cells from precursor stem cells such as monocytes In addition it provides data on the difficult tasks of isolating dendritic cells directly from different tissues whether dendritic cells from precursor cells or from tissues of mouse or human are required this book contributes practical information The last section of the book is devoted to functional aspects of dendritic cells ranging from information relevant to cell migration to antigen uptake and T cell stimulation But what is a dendritic cell The explosion of studies on this cell type over the last few years is breathtaking We now have so called myeloid and plasmacytoid dendritic cells are they of separate lineages or are they

related There are claims that dendritic cells can be derived from B cells and from granulocytes as well as from monocytes Lymphocytes can be switched on or off by dendritic cells Dendritic cells can preferentially cause Th1 or Th2 responses or some may stimulate B cells directly When there is so much scope for exploring these new developments it is particularly important that the data that are established and the practical basis for this work are clearly available a task that this book fulfils

**Dendritic Cells in Clinics** Morikazu Onji, Sk. Md. Fazle Akbar, 2008-10-16 Great advances have taken place in basic research and the clinical usefulness of dendritic cells DCs It has now been clearly established for instance that these cells play a crucial role in immune responses against infectious diseases and cancers Antigen presenting DCs are widely distributed in the body and regulate both immunity and immune tolerance Experimental studies have provided important insights into DCs and how they can be used for treating animal models of various diseases that occur in humans The role of these cells in pathogenesis and the treatment of human diseases is elaborately set forth in this valuable book Researchers in the field are optimistic that DCs already in use for treating patients with cancers soon can be used therapeutically for patients with chronic infections autoimmune diseases and allergic manifestations This volume provides a working definition of DCs and also explains the phenotypes and functions of DCs so that these can be readily understood not only by clinicians but by immunologists researchers and students as well

**Dendritic Cells in Fundamental and Clinical Immunology** Jacques Banchereau, Daniel Schmitt, 2012-12-06 These Proceedings contain the contributions of the participants of the Third International Symposium on Dendritic Cells that was held in Annecy France from June 19 to June 24 1994 This symposium represented a follow up of the first and second international symposia that were held in Japan in 1990 and in the Netherlands in 1992 Dendritic cells are antigen presenting cells and are found in all tissues and organs of the body They can be classified into 1 interstitial dendritic cells of the heart kidney gut and lung 2 Langerhans cells in the skin and mucous membranes 3 interdigitating dendritic cells in the thymic medulla and secondary lymphoid tissue and 4 blood dendritic cells and lymph dendritic cells veiled cells Although dendritic cells in each of these compartments are all CD45 leukocytes that arise from the bone marrow they may exhibit differences that relate to maturation state and microenvironment Dendritic cells are specialized antigen presenting cells for T lymphocytes they process and present antigens efficiently in situ and stimulate responses from naive and memory T cells in the paracortical area of secondary lymphoid organs Recent evidence also demonstrates their role in induction of tolerance By contrast the primary and secondary B cell follicles contain follicular dendritic cells that trap and retain intact antigen as immune complexes for long periods of time The origin of follicular dendritic cells is not clear but most investigators believe that these cells are not leukocytes

**Handbook of Dendritic Cells, 3 Volume Set** Manfred B. Lutz, Nikolaus Romani, Steubjasser A. (Alexander), 2006-03-17 Dendritic cells play a key role in human immunoregulation They are the most potent form of antigen presenting cells often referred to as pacemakers of the immune system The properties of dendritic cells pave the way for multifaceted clinical applications they can be used to



step up immune response to tumor and infectious disease antigens and they are a valuable tool in transplantation medicine Information available on these important cells continues to escalate making it almost impossible for anyone working in the field to keep up with developments This is the most comprehensive handbook on dendritic cells opening with an introduction by Ralph M Steinman and written by international experts It covers all aspects from molecular cell biology to clinical applications and highlights the role of dendritic cells in fighting cancer virus infections and autoimmune diseases

**Immunology** Klaus D. Elgert, 2009-09-08 Blends biology clinical science genetics and molecular biology of the immune system to provide a complete account of our knowledge of immunology New features include full color artwork and design over 50 new figures and text that has been completely revised to reflect the very latest references Incorporates a variety of pedagogical aids to assist students in the learning process including chapter outlines objectives and summaries as well as a self evaluation section

## **Dendritic Cells** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Dendritic Cells**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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