

## Development And Function Of Dendritic Cell Subsets

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### NIH VideoCast - Development and Function of Dendritic Cells

Dendritic cells are versatile controllers of the immune system that sense pathogens and damage to initiate the bodies defense. They exist as developmentally distinct subsets with unique functions in immunity. Dendritic cells are short lived and constantly replenished from bone marrow progenitors.

### Development And Function Of Dendritic

Dendritic cells (DCs) are important immune cells linking innate and adaptive immune responses. DCs encounter various self and non-self antigens present in the environment and induce different types of antigen specific adaptive immune responses.

### The development and function of dendritic cell populations ...

Classical dendritic cells (cDCs) form a critical interface between innate and adaptive immunity. As myeloid immune cell sentinels, cDCs are specialized in the sensing of pathogen challenges and cancer. They translate the latter for T cells into peptide form.

### The development and function of lung-resident macrophages ...

Plasmacytoid dendritic cells (pDCs) are a unique sentinel cell type that can detect pathogen-derived nucleic acids and respond with rapid and massive production of type I interferon. This review summarizes our current understanding of pDC biology, including transcriptional regulation, heterogeneity, role in antiviral immune responses, and involvement in immune pathology, particularly in autoimmune diseases, immunodeficiency, and cancer.

### **Development of Dendritic Form and Function | Annual Review ...**

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### **Development and function of dendritic cell subsets**

Abstract. Classical dendritic cells (cDCs) form a critical interface between innate and adaptive immunity. As myeloid immune cell sentinels, cDCs are specialized in the sensing of pathogen challenges and cancer. They translate the latter for T cells into peptide form. Moreover, cDCs provide additional critical information on the original antigen context to trigger a diverse spectrum of appropriate protective responses.

### **Development and Function of Dendritic Cell Subsets: Immunity**

The Development and Function of Lung-Resident Macrophages and Dendritic Cells Gas exchange is the vital function of the lungs. It occurs in the alveoli, where oxygen and carbon dioxide diffuse across the alveolar epithelium and the capillary endothelium surrounding the alveoli, separated only by a fused basement membrane 0.2-0.5  $\mu\text{m}$  in thickness.

### **Dendrite - Wikipedia**

Abstract The nervous system is populated by numerous types of neurons, each bearing a dendritic arbor with a characteristic morphology. These type-specific features influence many aspects of a neuron's function, including the number and identity of presynaptic inputs and how inputs are integrated to determine firing properties.

### **Dendritic cell - Wikipedia**

Dendrites, also dendrons, are branched protoplasmic extensions of a nerve cell that propagate the electrochemical

stimulation received from other neural cells to the cell body, or soma, of the neuron from which the dendrites project. Electrical stimulation is transmitted onto dendrites by upstream neurons via synapses which are located at various points throughout the dendritic tree. Dendrites play a critical role in integrating these synaptic inputs and in determining the extent to which action

### **Development, Diversity, and Function of Dendritic Cells in ...**

open archive Classical dendritic cells (cDCs) form a critical interface between innate and adaptive immunity. As myeloid immune cell sentinels, cDCs are specialized in the sensing of pathogen challenges and cancer. They translate the latter for T cells into peptide form.

### **Development and Function of Dendritic Cell Subsets ...**

Dendritic cell (DC) maturation is a prerequisite for the induction of adaptive immune responses against pathogens and cancer. Transcription factor (TF) networks control differential aspects of early DC progenitor versus late-stage DC cell fate decisions.

### **The development and function of dendritic cell populations ...**

The study of murine dendritic cell (DC) development has been integral to the identification of specialized DC subsets that have unique requirements for their form and function. Advances in the...

### **NIH VideoCast - Development and Function of Dendritic ...**

Dendritic cells (DCs) are important immune cells linking innate and adaptive immune responses. DCs encounter various self and non-self antigens present in the environment and induce different types of antigen specific adaptive immune responses.

### **Epigenetic Regulation of Dendritic Cell Development and ...**

Dendritic cells are antigen-presenting cells of the mammalian immune system. Their main function is to process antigen material and present it on the cell surface to the T cells of the immune system. They act as messengers between the innate and the adaptive immune systems. Dendritic cells are present in those tissues that are in contact with the external

environment, such as the skin and the inner lining of the nose, lungs, stomach and intestines. They can also be found in an immature state in

### **Plasmacytoid Dendritic Cells: Development, Regulation, and ...**

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### **Dendritic Cell Development and Function - schraml-lab-de**

A hallmark of the immune system is its capability to produce highly diversified immune cells that protect the host against various types of infections and tumors. 1-9 For example, dendritic cells (DCs) are professional antigen-presenting cells crucial for eliciting primary T-cell responses. 10-12 Based on their surface phenotype, anatomical location, and function, DCs at the steady-state condition are broadly categorized into conventional DCs (cDCs) and plasmacytoid DCs (pDCs). 13,14 ...

### **Plasmacytoid Dendritic Cells: Development, Regulation, and ...**

Under an Elsevier user license. open archive. Plasmacytoid dendritic cells (pDCs) are a unique sentinel cell type that can detect pathogen-derived nucleic acids and respond with rapid and massive production of type I interferon.

### **(PDF) Development, Diversity, and Function of Dendritic ...**

The study of murine dendritic cell (DC) development has been integral to the identification of specialized DC subsets that have unique requirements for their form and function.

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