Mindluster Platform

About the course Macrophage structure

Course Presenter : Shomu s Biology

Macrophage structure, in this course we will learn about the cellular architecture of macrophagesâ€”vital immune cells responsible for defense, repair, and regulation. You will explore their large, irregular shape, prominent nucleus, and cytoplasm rich in lysosomes and vesicles that allow them to engulf pathogens and debris. Weâ€™ll examine the structural components that enable macrophages to migrate to infection sites, interact with other immune cells, and respond to signals in their environment. Special focus will be placed on surface receptors like toll-like receptors (TLRs) and MHC molecules, which are crucial for detecting threats and presenting antigens. Through diagrams and real microscopy images, you'll understand how structure supports function in macrophages. This course is ideal for biology, immunology, and medical students seeking foundational knowledge of immune cell morphology. Join us and explore the detailed design of one of the bodyâ€™s most important immune defenders. Shomu s Biology

Medical Category's Courses

Course Lesson(22)

Lesson 1 : **Inflammation animation Steps of inflammatory response Shomu s Biology**

Lesson 2 : **Alternative pathway of complement activation Complement system Shomu s Biology**

Lesson 3 : **Type 2 hypersensitivity reaction animation Shomu s Biology**

Lesson 4 : **Classical pathway of complement activation Classical complement system**

Lesson 5 : **Type 1 hypersensitivity reaction mechanism Shomu s Biology**

Lesson 6 : **Hypersensitivity reactions microbiology Type 1 type 2 Type 3 and Type 4 classification**

Lesson 7 : **Cytokines and their role in immune regulation interleukins and chemokines functions**

Lesson 8 : **Antibodies structure and functions Types of antibodies immunoglobulins strcture**

Lesson 9 :
Immune response microbiology Primary immune response and secondary immune response

Lesson 10 : **Humoral immune response Antibody mediated immune response Shomu s Biology**

Lesson 11 : **Cell mediated immunity Cellular immune response mechanism Shomu s Biology**

Lesson 12 : **List of Interleukins and their functions Shomu s Biology**

Lesson 13 : **MHC class 2 structure and function Major histocompatibility complex 2**

Lesson 14 :
MHC class 1 structure and function Major histocompatibility complex 1 lecture Shomu s Biology

Lesson 15 : **B cells maturation activation and differentiation Shomu s Biology**

Lesson 16 : **T cell activation and differentiation T helper cell and cytotoxic T cell Shomu s Biology**

Lesson 17 : **Neutrophils structure and function explained Cells of immune system Shomu s Biology**

Lesson 18 : **Dendritic cells immunology lecture Cells of immune system Shomu s Biology**

Lesson 19 : **Eosinophil cells of immune system Structure and function of eosinophil in immunity**

Lesson 20 : **Basophils and mast cells Cells of immune system Shomu s Biology**

Lesson 21 : **Natural killer cells immunology NK cells structure and function Role in immunity**

Lesson 22 : **Macrophage structure and function Cells of immune system Shomu s Biology**

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