

THE IMMUNE SYSTEM

LECTURE 1: BASIC QUESTIONS

What is the immune system and its primary function?

The immune system is a collection of tissues, cells and molecules that function to maintain the internal environment of the body and destroy invading infectious organisms

What are three essential properties of the immune system?

- (1) it can distinguish self from non-self
- (2) act at the site of infection/invasion
- (3) eradicate invading pathogens

What are the 2 basic components of the immune system?

- (1) innate or non-specific immune system
- (2) adaptive or specific immune system

Which immune system is present at birth, provides immediate protection and has similar mechanisms against a wide range of pathogens?

Innate immunity

What are two key features of adaptive immunity

- (1) Develops in response to a foreign object and tailors a response to that pathogen
- (2) has a memory – remembers specific pathogens and responds more rapidly or blocks pathogen from establishing infection

Describe the function of the following

a) neutrophils – multicellular nucleus, pale red and blue granules – most abundant – 1st cell to arrive at infection – chemotactic – major defence against bacterial infections

b) eosinophils – bilobed nucleus, red cytoplasmic granules pack with digestive enzymes – key in defence against parasitic worms

c) basophils – bilobed nucleus, purplish/black cytoplasmic granules containing histamines and heparin – major role in inflammation together with mast cells

d) lymphocytes - large spherical nucleus, pale blue cytoplasm

e) monocyte – kidney shaped nucleus, pale blue cytoplasm

macrophages – large agranular cells present in tissues – phagocytic – deploy as weapons – large role in adaptive immune response

e) dendritic cells – located in epithelia – long arms (antigen catchers) – migrate to lymph system once antigen internalised and present the antigen to T-cells – link between innate and adaptive immunity

Immune System Answers

Joacim Rocklöv



Immune System Answers:

Immune System Answers Book Review: Unveiling the Magic of Language

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

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