

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

AW Chickering



Immune System Answers:

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