

6.3 Defence Against Infectious Diseases

Immune System

Define pathogen

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Distinguish between bactericidal and bacteriostatic drugs

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Outline how Florey and Chain demonstrated the antibiotic properties of penicillin

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Explain why antibiotics are effective against bacteria but not viruses

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List five types of white blood cells

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Describe the function and organisation of the lymphatic system

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First Line of Defence

Outline the role of surface barriers in the physical protection against infection

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Describe, with the aid of the diagram, the process of clotting

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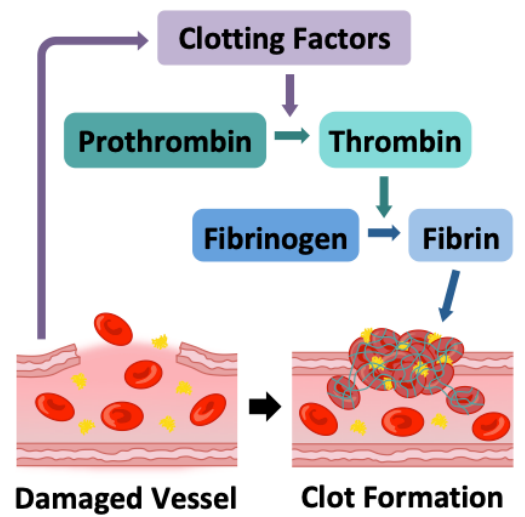
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Describe the causes and consequences of clotting in the coronary arteries

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Second Line of Defence

Identify five non-specific defence mechanisms the body uses to combat infection

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2.
3.
4.
5.

Outline the process and purpose of inflammation

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Outline how phagocytic leukocytes ingest and present pathogens in the blood and body tissues

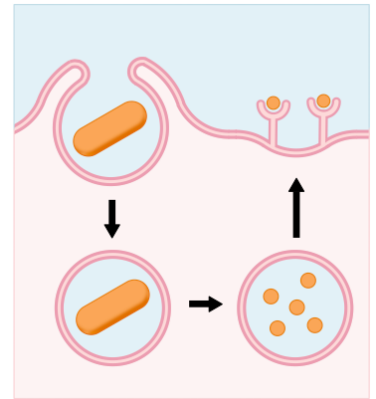
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Third Line of Defence

Identify the two key properties of the adaptive immune system

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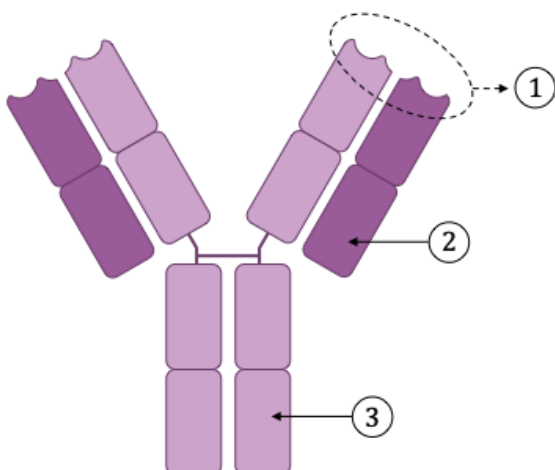
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Distinguish between antigens and antibodies

Antigen:

Antibody:

Label the structure of an antibody



- 1.
- 2.
- 3.

What is the alternative name for an antibody?

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Explain antibody production (humoral immunity)

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Immune System Disorders

Identify three types of immune system disorders

1.
2.
3.

Describe the effects of HIV on the immune system

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Define allergen

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Describe the role of histamine in the allergic response

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