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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Keys and Direct Video Link

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Crash Course Biology (2012) #32: The Immune System

Name: _____ Date: _____

You can access the video here → <https://youtu.be/CeVVPDgIBPU?si=grXoki8XqrEPe8>

1. Animals possess _____ (non-specific) immunity that responds rapidly to many pathogens.
2. Vertebrates also rely on an _____ (adaptive) immunity that learns specific invaders.
3. First-line barriers include skin and _____ membranes that trap microbes.
4. During inflammation, _____ cells detect invaders and start the alarm.
5. Released _____ makes local blood vessels more permeable to fluids and cells.
6. The _____ targets already infected cells primarily via T cells.
7. White blood cells squeeze through capillary walls by _____, "oozing through."
8. When a doomed cell presents antigens, _____ T cells bind and perforate its membrane.
9. "Big eater" phagocytes called _____ can also eliminate rogue cancerous cells.
10. Infected or cancerous cells often lack _____, the surface protein checked by natural killer cells.
11. Fragments displayed to the acquired system are called _____, which trigger responses.
12. Antigen-presenting cells activate helpers by releasing _____ 1 as a signal.
13. Activated helper T cells broadcast the alarm with Interleukin 2 to rally _____.
14. The _____ response operates in body fluids and depends on B cells.
15. Plasma (effector) B cells secrete _____ that tag pathogens for destruction.

Crash Course Biology (2012) #32: The Immune System - KEY

1. Animals possess **innate** (non-specific) immunity that responds rapidly to many pathogens.
2. Vertebrates also rely on an **acquired** (adaptive) immunity that learns specific invaders.
3. First-line barriers include skin and **mucous** membranes that trap microbes.
4. During inflammation, **mast** cells detect invaders and start the alarm.
5. Released **histamine** makes local blood vessels more permeable to fluids and cells.
6. The **cell-mediated response** targets already infected cells primarily via T cells.
7. White blood cells squeeze through capillary walls by **diapedesis**, "oozing through."
8. When a doomed cell presents antigens, **cytotoxic** T cells bind and perforate its membrane.
9. "Big eater" phagocytes called **macrophages** can also eliminate rogue cancerous cells.
10. Infected or cancerous cells often lack **MHC1**, the surface protein checked by natural killer cells.
11. Fragments displayed to the acquired system are called **antigens**, which trigger responses.
12. Antigen-presenting cells activate helpers by releasing **Interleukin 1** as a signal.
13. Activated helper T cells broadcast the alarm with Interleukin 2 to rally **lymphocytes**.
14. The **humoral** response operates in body fluids and depends on B cells.
15. Plasma (effector) B cells secrete **antibodies** that tag pathogens for destruction.

15 Questions

Answer Key Included

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