

Study Guide Bacteria, Viruses and the Immune System

Bacteria

1. What are the basic shapes of bacteria cells?
spherical (cocci), rod (bacilli), spiral (spirilla), comma (vibrios) or corkscrew (spirochaetes).
2. What happens during conjugation of bacteria?
Transfer of genetic material between bacterial cells by direct cell-to-cell contact or by a bridge-like connection between two cells.
3. How do the three major classes of antibiotics work to kill bacteria?
 - a. Beta-Lactam -- Penicillin derivatives, cephalosporins, monobactams, carbapenems and carbacephem's.
 - b. Macrolides -- Treating respiratory, skin, soft tissue, sexually transmitted
 - c. Quinolones -- These enzymes relax DNA supercoils and enable DNA replication and repair

Virus

4. What is the basic structure of a virus?
The simplest virions consist of two basic components: nucleic acid (single- or double-stranded RNA or DNA) and a protein coat
5. What is happening during the two viral cycles:
 - a. lytic cycle
The virus hijacks the host cell, degrades the host chromosome, and makes more viral genomes.
 - b. lysogenic cycle
The lytic cycle leads to the death of the host, whereas the lysogenic cycle leads to integration of phage into the host genome
6. Why are vaccines less effective against RNA viruses?

Examples like the flu vaccine work by coding for a specific type of antigen which are only made for individual specific viruses. In which case Vaccines would take more time and building to be more effective.

Immunity & Immune System

7. The first line of defense against infections includes skin, mucus, cilia, saliva and stomach acid. Briefly describe how each of these protects us from potential invaders:
 - a. Skin – Protects from microbes and the elements, helps regulate body temperature, and permits the sensations of touch, heat, and cold.
 - b. Mucus – Mucus traps inhaled particles like dust, allergens, bacteria, or viruses and keeps them from getting deeper into your lungs.
 - c. Cilia – The special cells line and protect the nose, throat and other passages within your body. The inner lining of your gut and lungs also produces mucus to trap invading pathogens
 - d. Stomach acid – The hydrochloric acid kills bacteria, protecting your body from harmful microbes which can enter your body in food

Study Guide Biology Immune System

Arshad Iqbal



Study Guide Biology Immune System:

Embracing the Tune of Appearance: An Mental Symphony within **Study Guide Biology Immune System**

In some sort of consumed by screens and the ceaseless chatter of instantaneous connection, the melodic splendor and emotional symphony developed by the prepared word usually disappear in to the backdrop, eclipsed by the persistent noise and disturbances that permeate our lives. Nevertheless, nestled within the pages of **Study Guide Biology Immune System** a charming literary treasure brimming with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that fascinating masterpiece conducts readers on a mental trip, well unraveling the hidden melodies and profound impact resonating within each carefully constructed phrase. Within the depths of the poignant assessment, we will explore the book is main harmonies, analyze their enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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