
CHAPTER 43: IMMUNE SYSTEM

OVERVIEW

- **Reconnaissance:** finding foreign substance/pathogen.
- **Recognition:** identify foreigner.
- **Response:** respond appropriately.
- 2 evolved defenses:
 - **Innate immunity**
 - **Adaptive immunity**

ADAPTIVE IMMUNITY

- Aka **acquired immunity**.
- Recognition of traits specific to pathogens, using a vast array of receptors.
- Vertebrates only.

INNATE IMMUNITY

- Invertebrates and vertebrates.
- Insects:
 - Exoskeleton made of chitin.
 - Digestive system lined with chitin, low pH, presence of **lysozyme** – enzyme that digests walls of microbes.
 - **Hemocytes** circulate within the hemolymph and carry out **phagocytosis** – ingestion and digestion of foreign substances.
 - Hemocytes also secrete **antimicrobial peptides** that inactivate/kill fungi or bacteria.
 - Recognized by unique molecules on their cell walls.
 - Response varies with the class of pathogen.
- Vertebrates:
 - Innate defenses:
 - **Barrier defenses**
 - **Phagocytosis**
 - **Antimicrobial peptides**
 - Unique to vertebrates:
 - **Inflammatory response**
 - **Interferons**
 - **Natural killer cells**

BARRIER DEFENSES

Biology Guide 43 Immune System Answers

LL Leslie



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Enjoying the Melody of Appearance: An Mental Symphony within **Biology Guide 43 Immune System Answers**

In a global taken by monitors and the ceaseless chatter of quick interaction, the melodic splendor and psychological symphony created by the written term usually disappear in to the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. However, situated within the pages of **Biology Guide 43 Immune System Answers** a marvelous literary prize brimming with fresh emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that interesting masterpiece conducts viewers on an emotional trip, well unraveling the concealed songs and profound affect resonating within each cautiously constructed phrase. Within the depths of the emotional examination, we can discover the book is central harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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