
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

Richard Fosbery



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