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 chiton.
 - 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

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