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

Shyamasree Ghosh

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computational biology in designing of drugs targets biomarkers for early detection and prognosis of a disease It highlights the applications of computational methods in deciphering the complex processes of the immune system and its role in health and disease This book discusses the most essential topics including Next generation sequencing NGS and computational immunology Computational modelling and biology of diseases Drug designing Computation and identification of biomarkers Application in organ transplantation Application in disease detection and therapy Computational methods and applications in understanding of the invertebrate immune system S Ghosh is MSc PhD PGDHE PGDBI is PhD from IICB CSIR Kolkata awarded the prestigious National Scholarship from the Government of India She has worked and published extensively in glycobiology sialic acids immunology stem cells and nanotechnology She has authored several publications that include books and encyclopedia chapters in reputed journals and books

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