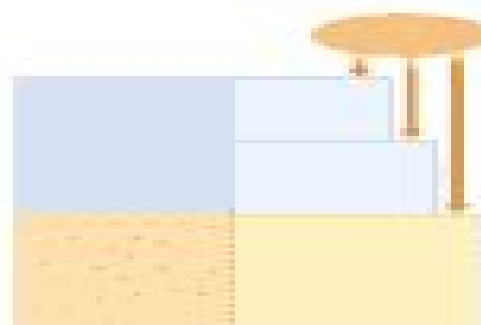


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Chapter 43: The Immune System

Our students consider this chapter to be a particularly challenging and important one. Expect to work your way slowly through the first three concepts. Take particular care with Concepts 43.2 and 43.3. It is rewarding, however, in Concept 43.4 to put your new knowledge to work and truly understand the devastation caused by the destruction of helper T cells by HIV.

Overview: The immune responses of animals can be divided into *innate immunity* and *acquired immunity*. As an overview, complete this figure indicating the divisions of both innate and acquired immunity.



Concept 43.1 *In Innate immunity, recognition and response rely on shared traits of pathogens*

1. We first encountered *phagocytosis* in Concept 7.5, but it plays an important role in the immune systems of both invertebrates and vertebrates. Review the process by briefly explaining the six steps to ingestion and destruction of a microbe by a phagocytic cell.



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