

Host-Pathogen Interactions: The Battle for Survival

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Abstract

Host-pathogen interactions are complex relationships that occur between infectious agents and their host. These interactions encompass a complex series of biological, biochemical, and ecological events that occur when a pathogen invades a host organism. This article explores the nature of these interactions, the mechanisms employed by both hosts and pathogens, and their

Keywords: Host-pathogen interactions; Infectious agents; Immune response; Commensalism; Parasitism

Introduction

Host-pathogen interactions are fundamental to understanding how infectious diseases develop, spread, and can be controlled. These interactions encompass a complex series of biological, biochemical, and ecological events that occur when a pathogen invades a host organism. This article explores the nature of these interactions, the mechanisms employed by both hosts and pathogens, and their

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