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Review on Adaptive Immune System

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Abstract

The adaptive immune system is a remarkable defense mechanism that protects our bodies against a wide array of pathogens, ranging from bacteria and viruses to parasites and fungi. Unlike the innate immune system, which

Received:	Editor assigned:
Revised	Reviewed: and testosterone have been shown to a ect antibody production and immune certification. Stress hormones, such as cortisol, can suppress immune responses, including the activity of T cells and antibod
Citation: Adoresm	A production. Hormonal uctuations during menstrual cycles and pregnancy can also in uence immune responses.
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infections.

underlying health conditions, immune status, and vaccine formulation. **Chronic diseases and immune disorders**: Chronic diseases, such as autoimmune disorders, cancer, and immunode ciency conditions, can signi cantly impact the adaptive immune system. Autoimmune disorders involve the immune system mistakenly attacking the body's own tissues, leading to chronic in ammation and immune dysregulation. Cancer can a ect immune cell function and evade immune surveillance. Immunode ciency conditions can impair the adaptive immune response, leading to increased susceptibility to

e ectiveness of vaccination can be in uenced by factors such as age,

ese factors collectively contribute to the dynamic nature of the adaptive immune system. Understanding their in uence helps in comprehending individual variations in immune responses, susceptibility to diseases, and the development of targeted therapeutic interventions and vaccination strategies.

e adaptive immune system consists of two primary types of responses: humoral immunity and cellular immunity. ese two types work together to provide a comprehensive defense against pathogens.

Humoral immunity: Humoral immunity is mediated by B cells and involves the production of antibodies. When B cells encounter an antigen, they undergo activation and di erentiation. Some B Citation: Adoresm A (2023) Review on Adaptive Immune System. Immunol Curr Res, 7: 142.

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