Review Article Open Access

The Immune Response: Antibodies in Action

Siddur Sravanthi*

Department of International Health, Immunology and Microbiology, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark

Abstract

This abstract provides a concise overview of the role of antibodies in the immune response. Antibodies, also known as immunoglobulin, are critical components of the adaptive immune system. They play a pivotal role in recognizing and neutralizing foreign invaders, such as pathogens. This article explores the multifaceted functions of antibodies, including pathogen recognition, neutralization, opsonization, and complement activation. Moreover, it delves into the remarkable ability of antibodies to create immune memory, enhancing the body's defense against recurrent infections.

to target speci c pathogens, making them a powerful tool for treating various diseases. For example, monoclonal antibodies have been used successfully in the treatment of COVID-19, Ebola, and certain forms of cancer [5].

Discussion

e role of antibodies in the immune response is a fascinating subject that has garnered extensive attention in both scienti c research and medical practice. In this discussion, we delve deeper into the implications of understanding antibodies' actions and their signi cance in immunology and healthcare [6].

Precision in immune response: Antibodies demonstrate a