



The Role of B Cells and Antibodies against Infectious Diseases

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Message from the Guest Editor

Specificity, diversity, and memory are three key characteristics of our adaptive immune system. Confronting a world of infectious diseases, B lymphocytes in our immune system provide essential mechanisms of protection. A highly diversified antibody repertoire constructed by V(D)J recombination in mature B cells, high affinity antibodies evolved within germinal center B cells, broadly neutralizing antibodies abundantly secreted by long-lived plasma cells, and immunosurveillance provided by the patrolling memory B cells in the circulation systematically build up the immune defense against numerous infectious pathogens. During the past few decades, research on B cell immunology has led to a revolution in our understanding of B cell development and immunity against infections and vaccinations.

In this Special Issue, we focus on the role of B cells and antibodies against various infectious diseases, monoclonal antibody therapeutics, B cells and antibody responses after vaccination, and also the related B cell development, maturation and apoptosis.





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Message from the Editor-in-Chief

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