Special Issue

Peptide-Based Vaccines: Current Progress and Future Challenges

Message from the Guest Editors

Vaccines are perhaps the most successful discovery of biomedical sciences, and prevent approximately 2–3 million deaths annually. Representing a step forward, peptide-based vaccines have revolutionized disease management and prevention against various infectious diseases, including viral, bacterial, fungal, and parasitic diseases.Peptide-based vaccines (also called subunit vaccines) consist of immunogenic components of infectious agents or disease-associated epitopes. These vaccines aim to impart protective immunity with prior exposure of pathogen-specific epitopes to the host's protective immune cells. The major challenge is to find a pathogen-specific epitope that could direct the immune response against the pathogen. In contrast, while developing vaccines against self-antigens to cure various chronic and autoimmune diseases, the immune system plays a crucial role in suppressing response to self-antigens. This Special Issue invites quality research works exploring peptide-based vaccine development against infectious, chronic, and autoimmune diseases for publication.

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