Vaccine against COVID-19: Current State of the Art and Future Perspectives

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Message from the Guest Editor

Although COVID-19 vaccines have been extensively used around the world, millions of cases are still diagnosed every day, contributing to the decreased effectiveness of the vaccine and strain variations. Therefore, it is still imperative to formulate a scientific immunization strategy based on the current COVID-19 vaccines and design and develop the next generation of vaccines. A thorough evaluation of how different COVID-19 vaccines were developed is valuable:

(1) The continued scientific, normative, and comprehensive clinical evaluation of COVID-19 vaccines with antigens originating from wild strains as well as variant strains against VOC;

(2) The development of a safe and effective heterologous prime-boost strategy which may to some degree draw on the strengths of different technology platforms and induce a rich immune response;

(3) A deeper understanding of the importance of new adjuvants and analysis of their synergistic mechanisms applied to vaccines.

We aims to present the latest developments of clinical studies on COVID-19 vaccines and gather promising research or perspectives on the design of next-generation COVID-19 vaccines and immunization strategies.

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Special Issue

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