Tentative Outline

Special/Thematic Issue for the Journal
Current Pharmaceutical Design

Antibody Drugs and Vaccines for Viral Diseases

Executive Guest Editor: Dr. Wu Haibo

Scope of the Thematic Issue:

The prevalence of various emerging viral infectious diseases (such as novel coronavirus pneumonia and influenza) has posed a huge threat to human health. The development of various effective antiviral drugs is a current research hotspot. Antibody drugs and vaccines are effective means of treating and preventing diseases, and have received widespread attention from researchers. Antiviral drugs can be classified based on their targets, which can be hosts or viral components. Virus targeted drugs bind to viral proteins or nucleic acids and participate in the entry, transcription, replication, assembly and release of viruses. Host targeted antiviral drugs regulate the activity of host factors and signaling pathways involved in virus synthesis, processing, and transportation. Antiviral drugs include various molecular forms, including small molecules, peptides, neutralizing antibodies, interferon, etc. Virus neutralizing antibodies (nAbs) attach to virus surface proteins, preventing the virus from entering the host's cells.

Vaccine refers to a vaccine based preventive biological product used for human vaccination in order to prevent and control the occurrence and prevalence of infectious diseases. Vaccine adjuvants are a type of substance that can non-specific alter or enhance the body's specific immune response to antigens and exert auxiliary effects. Adjuvants can induce long-term and efficient specific immune responses in the body, improve the body's protective ability, and at the same time reduce the dosage of immune substances, thereby reducing the production cost of vaccines.

This topic "Antibody drugs and vaccines for viral diseases" includes the development of antibody drugs and vaccines for viral diseases, such as monoclonal antibodies, bispecific antibodies, various preventive vaccines, vaccine adjuvants, etc.

Keywords: Viral infectious diseases, Antiviral drugs, proteins, nucleic acids, antibodies (nAbs).

Sub-topics:

- Antiviral drugs Including small molecules
- Peptides
- Neutralizing antibodies
- Antibodies including monoclonal antibodies
- Bispecific antibodies
- Preventive vaccines
- Vaccine adjuvants

Schedule:

- Complete Thematic issue submission deadline: **December 31, 2023**

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