Special Issue

Detection of SARS-CoV-2 Neutralizing Antibodies and Vaccine Development

Message from the Guest Editor

Neutralizing antibodies are important indicators for the evaluation of the effectiveness of SARS-CoV-2 vaccines. At present, there are many methods for detecting SARS-CoV-2 neutralizing antibodies, including culture live virus neutralization method, recombinant replication virus neutralization method, pseudotyped virus neutralization method, and competition inhibition neutralization antibody detection method. Even if the same type of method is used, specific operations in different laboratories can lead to differences in results. As a result, the neutralizing antibody test results of different vaccines are incomparable, meaning that the immunogenicity of different vaccines cannot be compared horizontally. In this Special Issue, original research articles and reviews are welcome, include (but are not limited to) the following: (i) recent advances in novel neutralization assay development, (ii) standardization and comparison of different SARS-CoV-2 neutralization assays, (iii) comparison of neutralizing antibody responses induced by different vaccines, and (iv) correlates of protection.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X), founded in 2013, now has a firm history of publishing peer-reviewed, state-of-the-art research papers on vaccines and vaccination in the broadest sense. Areas covered include, but are not limited to, novel and emerging vaccine technologies, building on in-depth knowledge of what constitutes a protective immune response. These can be new vaccines for old diseases, or old vaccines for new diseases. Vaccines against cancer and autoimmune diseases explicitly are also within the scope of the journal. Because public opinion and even government policies towards vaccines and vaccination have changed, vaccine policy and public health issues are major concerns. Climate change will also have an impact on the spread of infectious diseases, and thus also on vaccine and vaccination policies worldwide.

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