

Special Issue

SARS-CoV-2 Variants, Vaccines, and Immune Responses

Message from the Guest Editor

Our immune system responds promptly to the attack of pathogens in order to limit their spread in the body and prevent the development of disease. However, several factors affect the immune system's efficiency. Virus genetic evolution, which determines antigenic variations, causes virus' escape from the host's acquired immunity, such as that induced by vaccines. A striking example of recent days is SARS-CoV-2, whose extremely rapid genetic evolution has led to the emergence of viral variants capable of escaping vaccine protection. In this Special Issue, researches highlighting the relationship between SARS-CoV-2 and host immune responses, mechanisms for enhancing SARS-CoV-2 immunity, or the viral escape strategies from the immune system to induce symptomatic infection are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2025)



Vaccines

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 7.7
Indexed in PubMed



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).