# Special Issue

# Current Trends in Computational Strategies for Vaccine Development

## Message from the Guest Editors

Vaccine development is a complex and time-consuming process that involves many stages, from identifying potential vaccine targets to testing and manufacturing the final product. In recent years, computational strategies have emerged as a powerful tool for accelerating the vaccine development process. Computational strategies for vaccine development can help to identify potential vaccine targets at a much faster pace, aid in the design and optimization of vaccine candidates, and predict and analyze the immune response to specific antigens. Researchers can use molecular modeling techniques to create three-dimensional models of vaccine antigens and adjuvants and use these models to design more effective and stable vaccine formulations. Overall, the use of computational strategies for vaccine development has the potential to greatly improve the speed, efficiency, and success rate of vaccine development and ultimately improve public health outcomes. This Special Issue aims to provide a comprehensive overview of the various computational strategies used in vaccine development.

## Guest Editors

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## Deadline for manuscript submissions

closed (20 January 2024)

**Vaccines**

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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.

## Editor-in-Chief

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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).

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