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

Dr. Abhinav Kaushik

Dr. Deepika Rai

Dr. José Manuel Pérez De La Lastra

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Vaccines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
vaccines@mdpi.com

mdpi.com/journal/vaccines

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Vaccines (ISSN 2076-393X) has had a 6-year history of publishing peer-reviewed state of the art research that advances the knowledge of immunology in human disease protection. Immunotherapeutics, prophylactic vaccines, immunomodulators, adjuvants and the global differences in regulatory affairs are some of the highlights of the research published that have shaped global health. Our open access policy allows all researchers and interested parties to immediately scrutinize the rigorous evidence our publications have to offer. We are proud to present the work and perspectives of many to contribute to future decisions concerning human health.

Editor-in-Chief

Prof. Dr. Ralph A. Tripp
Department of Infectious Diseases, College of Veterinary Medicine, University of Georgia, Athens, GA 30602-7387, USA

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