



Analysis and Modification of Existing Vaccines for the Development of Next-Generation Vaccines

Guest Editor:

Dr. Takashi Imai

1. Department of Microbiology,
Saitama Medical University,
Saitama, Japan

2. Department of Infectious
Diseases and Host Defense,
Gunma University, Gunma, Japan

Deadline for manuscript
submissions:

closed (30 June 2021)

Message from the Guest Editor

Dear colleagues,

The development of the first vaccine by Edward Jenner, “the father of immunology”, has proven to be one of the greatest innovations, saving countless lives. However, the emergence or recurrence of pathogens is an ongoing threat to humans, not least with the recent occurrence of COVID-19, caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2).

Although the development and distribution of a vaccine against SARS-CoV-2 are urgently needed, other diseases should not be ignored. In this regard, the small modification of existing vaccines is likely to prove efficient for the development of versatile vaccines that are more stable for storage and represents an important step in the direction of the production of next-generation vaccines.

This Special Issue will focus on the analysis of the mode of action of current vaccines and their modification for the development of next-generation vaccines. The submission of articles covering the following research areas is encouraged:

- Experimental characterization of vaccine;
- Proof of concept of next-generation vaccines.

Dr. Takashi Imai
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ralph A. Tripp

Department of Infectious
Diseases, College of Veterinary
Medicine, University of Georgia,
Athens, GA 30602-7387, USA

Message from the Editor-in-Chief

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.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus**, **SCIE (Web of Science)**, **PubMed**, **PMC**, **Embase**, **CAPus / SciFinder**, and **other databases**.

Journal Rank: JCR - Q1 (*Immunology*) / CiteScore - Q1 (*Pharmacology (medical)*)

Contact Us

Vaccines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/vaccines
vaccines@mdpi.com