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

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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

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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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