



Development and Challenges of Respiratory Disease Vaccines

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Message from the Guest Editor

The respiratory system is susceptible to pathogens. Currently, vaccines are available for respiratory diseases such as influenza, COVID-19, pneumonia, pertussis, and tuberculosis (TB). Some infectious respiratory diseases do not yet have a vaccine, such as respiratory syncytial virus (RSV) and the common cold. There are still many troubling issues with existing respiratory vaccines, such as the mutants of influenza virus and SARS-CoV-2; therefore, the development of universal vaccines is now a common concern. As for the RSV vaccine, vaccine-induced pathology is a big safety hurdle.

To achieve a more extensive understanding of recent scientific knowledge and current trends in the development of vaccines that protect against respiratory disease, this Special Issue is focused on the recent scientific and technical progresses made in this field. Based on your extensive knowledge and experience, we invite you to contribute research works which highlight (i) correlates of protection, (ii) the action mechanism of novel vaccine candidates, (iii) vaccine protection and vaccine pathology, and (iv) the development of novel attenuated or universal respiratory disease vaccines.





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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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