

Special Issue

Pathogen-Host Interactions: Implications for Vaccine Design

Message from the Guest Editor

How can studies on host-pathogen interactions influence the development of vaccines? What are the implications of the coevolution of a pathogen with its host for vaccine development? The outcome of the interaction of the host with a pathogen dictates the clinical severity of disease resulting from infection by that pathogen. This same basic principle also applies to the development of vaccines based on live, attenuated versions of a pathogen. Recent advances in cell culture systems, including 3D cultures and organoids, and animal models, are instrumental in gaining insight into pathogenesis and host immune response to infection by a pathogen or immunization. An improved understanding of host-pathogen interactions will drive forward the development of vaccines. This Special Issue of *Vaccines* will focus on detailing the implications of host-pathogen interactions or host-vaccine interactions on vaccine design, importantly, addressing the implications of host-pathogen or host-vaccine interactions for the identification of correlates of protection induced by vaccination.

Guest Editor

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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.

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