



Pathogen-Host Interactions: Implications for Vaccine Design

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Message from the Guest Editor

Dear Colleagues,

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.

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Guest Editor





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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.

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