



## 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.

Dr. Randy Albrecht

*Guest Editor*





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## Message from the Editor-in-Chief

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