

Special Issue

Host Responses to Viral Infection

Message from the Guest Editors

This special issue focuses on the many roles of host factors in virus infection and pathogenesis. Viral infection induces vigorous host responses at the genetic, cellular, and organismal levels, which can be hijacked by the virus to facilitate replication or evade antiviral immune responses. Furthermore, although host responses are thought to promote virus clearance, in some cases, unregulated antiviral or inflammatory responses can themselves exacerbate or cause pathology. Recent technological advances in 'omics methods and analyses have dramatically advanced our understanding of the complex, multi-faceted interactions between host and virus that drive infection, pathogenesis, disease outcome, and immunity. New models and larger population studies have also demonstrated that host susceptibility and functional responses to infection, treatment, or immunization can be very individualized. Thus developing more effective, personalized means of treating viral pathogens may indicate a precision medicine approach. The contributions included in this special issue will review current efforts to elucidate the many ways that host responses shape virus infection and pathogenesis.

Guest Editors

Dr. Angela L. Rasmussen

Center for Global Health Science and Security, Washington, DC 20057, USA

Dr. Juliet Morrison

Center for Infection and Immunity, Columbia University, Mailman School of Public Health, New York, NY 10032, USA

Deadline for manuscript submissions

closed (30 June 2017)



Vaccines

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 9.9
Indexed in PubMed



mdpi.com/si/8891

Vaccines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
vaccines@mdpi.com

[mdpi.com/journal/
vaccines](https://mdpi.com/journal/vaccines)





Vaccines

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 9.9
Indexed in PubMed



[mdpi.com/journal/
vaccines](https://mdpi.com/journal/vaccines)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Ralph A. Tripp

Department of Infectious Diseases, College of Veterinary Medicine,
University of Georgia, Athens, GA 30602-7387, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Medicine, Research and Experimental) /
CiteScore - Q1 (Pharmacology (medical))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.6 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).