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Host Immune Responses to RNA Viruses

Guest Editors:

Dr. Stephanie Longet

International Center for
Infectiology Research—INSERM,
GIMAP—University of Saint-
Etienne, 10 rue de la Marandière,
42270 Saint-Priest-en-Jarez,
France

Prof. Dr. Miles Carroll

Nuffield Department of Medicine,
Wellcome Centre for Human
Genetics, University of Oxford,
Oxford SOX3 7BN, UK

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Message from the Guest Editors

RNA viruses have the ability to infect bacteria, plants, animals and humans. Over the past century, infections due to RNA viruses including human immunodeficiency virus 1 (HIV-1), influenza virus, rotavirus, West Nile virus, Dengue virus, and measles virus have been major threats to human health. Furthermore, RNA viruses are often the cause of emerging infectious diseases in humans with high consequences on healthcare systems and economy. The huge global impact of SARS-CoV-2 which emerged in 2019 highlighted the importance of preparedness to fight RNA viruses. A better understanding of host immune responses to RNA viruses is a key aspect to define correlates of protection essential to improve or develop therapeutic strategies and vaccine platforms.

I would like to invite colleagues investigating immune responses to any of the RNA viruses in in vitro or ex vivo models, animal models or humans within the area of immunology, virology, public health and epidemiology to submit their manuscripts to this Special Issue of Pathogens in the form of original research and reviews.



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Editor-in-Chief

Prof. Dr. Moriya Tsuji

School of Engineering Medicine,
Texas A&M University, 2121 West
Holcombe Blvd., Suite 1007,
Houston, TX 77030, USA

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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Contact Us

Pathogens Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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