



The Roles of Growth Factors, Cytokines and Their Receptors in Viral Infections

Guest Editors:

Dr. Alexander David Barrow

The Peter Doherty Institute for Infection and Immunity, University of Melbourne, Melbourne, VIC 3000, Australia

Dr. Lyn Wise

Department of Pharmacology and Toxicology, School of Biomedical Sciences, University of Otago, Dunedin 9054, New Zealand

Deadline for manuscript submissions:

closed (15 November 2023)

Message from the Guest Editors

Dear Colleagues,

Growth factors, cytokines and their receptors are known to facilitate virus infection. Viruses can use the receptors to physically attach to the cell surface, with the ligand binding inducing virus internalisation, and the subsequent signaling supporting viral genome replication. As such, many viruses deploy strategies to enhance this process, with some inducing the expression of cellular growth factors and cytokines, while other viruses produce their own growth factors or cytokine homologues that they have acquired from their hosts.

In this Special Issue, we aim to assemble a collection of original research and review articles to provide a comprehensive overview of recent advancements made in the understanding of the multifaceted roles of growth factors, cytokines and their receptors in viral pathogenesis and immunity, as well as efforts to target them during virus infection or exploit the virus-derived versions as therapeutic strategies.





an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, CaPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (Microbiology) / CiteScore - Q1 (Infectious Diseases)

Contact Us

Pathogens Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/pathogens
pathogens@mdpi.com
[X@Pathogens_MDPI](https://twitter.com/Pathogens_MDPI)