# Special Issue

# PANoptosis in Viral Infection

## Message from the Guest Editor

Innate immunity provides a critical first line of defence against infections, including viruses. The sensing of viruses by cytosolic innate immune sensors activates signalling pathways that can drive inflammatory cell death, as well as the production of antiviral interferons and proinflammatory cytokines. While inflammatory cell death can be beneficial to clear viral infections, it can also lead to excess inflammation and pathophysiology; therefore, the tight regulation of cell death in response to viral infections is critical. This Special Issue on PANoptosis in viral infection focuses on viral sensing and the activation of PANoptosis, a unique, lytic, innate immune, and inflammatory cell death pathway that is driven by caspases as well as RIPKs and regulated by PANoptosome complexes. Multiple PANoptosomes have been identified in response to viral infection, including ZBP1- and AIM2-PANoptosomes. This collection of articles will discuss the cellular and molecular mechanisms of PANoptosis and PANoptosomes, providing new insights into therapeutic targets for antiviral therapies and strategies with which to mitigate immunopathogenesis.

## Guest Editor

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## Deadline for manuscript submissions

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# About the Journal

## Message from the Editor-in-Chief

*Viruses* (ISSN 1999-4915) is an open access journal which provides an advanced forum for studies of viruses. It publishes reviews, regular research papers, communications, conference reports and short notes. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. The full experimental details must be provided so that the results can be reproduced. We also encourage the publication of timely reviews and commentaries on topics of interest to the virology community and feature highlights from the virology literature in the 'News and Views' section.

Electronic files or software regarding the full details of the calculation and experimental procedure, if unable to be published in a normal way, can be deposited as supplementary material.

## Editor-in-Chief

Dr. Eric O. Freed
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