

# Special Issue

## Interferons in Viral Infections

### Message from the Guest Editors

The interferon (IFN) system represents the first line of defense against a wide range of viruses. Virus infection is sensed rapidly by a variety of cellular pattern recognition receptors in order to activate the intracellular signaling pathways. These signaling pathways activate the transcription factors, including the IFN regulatory factors (IRFs) and NF- $\kappa$ B, to trigger the transcriptional induction of IFNs. IFNs, produced by the infected cells, are secreted and act on the infected and the yet uninfected cells to induce the IFN-stimulated genes (ISGs). The ISG-encoded protein products act as viral restriction factors by interfering directly with specific stages of the viral life-cycle. The virus-specific nature of ISGs has led to extensive research in the past decade in order to reveal new viral restriction mechanisms. In addition to functioning virus-specifically, some ISGs amplify the host IFN response and activate cell death pathways to further strengthen the antiviral state of the infected host. This Special Issue is intended to highlight some of these new mechanisms of the IFN system that regulate viral replication and pathogenesis.

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### Guest Editors

Dr. Saurabh Chattopadhyay

Dr. Travis Taylor

Dr. Malathi Krishnamurthy

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### Deadline for manuscript submissions

closed (30 June 2023)



## Viruses

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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.

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### Editor-in-Chief

Dr. Eric O. Freed

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