Special Issue

Viral Infection and Immunity

Message from the Guest Editors

The challenge of certain virus-caused infectious diseases remains a public health threat to humans and their surrounding environments, including resistant viral infection. Upon viral infection, pattern recognition receptors (PRRs) of host cells recognize pathogenic elements to initiate the signaling of innate immunity, which could be followed by regulatory adoptive immunity. The interplay of viral infection and immunity is of high concern, which provides the clue to uncovering viral pathogenesis, prevention, or/and broad-spectrum antiviral therapeutic strategies in these infectious diseases.

This Special Issue welcomes studies focusing on (1) the mechanisms of innate and adoptive immune responses, or related viral pathogenesis upon viral infection; (2) therapeutic strategies in antiviral agents targeting the inflammatory response; and (3) the development of the design and evaluation of vaccines against viral infections. We are looking forward to submissions of both original research and review articles that concern these themes.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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