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Interplay between Viruses and Host Adaptive Immunity

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Deadline for manuscript submissions:
closed (20 December 2021)

Message from the Guest Editors

Upon infection with a virus, antigen-specific adaptive immunity develops to eliminate viruses. While antibody responses help neutralize or block viruses from entering into cells, cytotoxic $CD8^+$ lymphocytes precisely destroy virus-infected cells to purge viruses from hosts. Further, $CD4^+$ helper T cells play a pivotal role during infections by regulating the differentiation of $CD8^+$ T and B cells. On the other hand, multiple innate immune cells and cytokines cooperate with T/B cells to eradicate viruses.

In this Special Issue, emphasis will be placed on the recent scientific advancement as to the interaction between host adaptive immunity and viruses, as well as its applications such as vaccine development. This research will improve our understanding of the host immunity to virus infections and help us design new prophylactic or therapeutic interventions to control viral infections. You are cordially invited to contribute unique research or review articles on this theme or related research topics.

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

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