



**viruses**



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## In Vivo Mouse Models of Human Viral Infections

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submissions:

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### Message from the Guest Editors

The use of *in vivo* mouse models of human viral infections has been integral to advancing knowledge of these pathogens and diseases. Mouse models of many human viral infections, including sexually transmitted viruses such as HIV and HSV-2, respiratory transmitted viruses such as Influenza and SARS-CoV2 and emerging infections such as ZIKA virus and EBOLA have laid the ground work for examining pathogenesis, therapeutics, vaccines, and immune responses. As new pathogens emerge, researchers have responded by creating *in vivo* models to ask the questions that are challenging to study in human studies. New innovations in *in vivo* models such as use of transgenic mice in Zika have been used to examine sexual transmission of this virus and its effects in pregnancy. Humanized mice have enabled the examination of HIV pathogenesis and therapeutics and rapid advances in these models are allowing investigation into more complex areas such as latency and vaccination.

In this issue, we hope to develop a collection of papers using mouse model systems to generate new knowledge about human viral infections.



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# Special Issue



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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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