

Special Issue

In Vivo Mouse Models of Human Viral Infections

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.

Guest Editors

Prof. Charu Kaushic

Department of Medicine, McMaster Immunology Research Center, McMaster University, Hamilton, Canada

Dr. Amy Gillgrass

Department of Medicine, McMaster Immunology Research Centre (MIRC), Institute for Infectious Disease Research (IIDR), McMaster University, Hamilton, Canada

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Dr. Eric O. Freed

HIV Dynamics and Replication Program, Center for Cancer Research,
National Cancer Institute, Frederick, MD 21702-1201, USA

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