Special Issue

Zika Virus Infection and Immune Response

Message from the Guest Editors

Zika virus (ZIKV) is an emerging mosquito-borne flavivirus that can cause serious illness, including congenital birth defects and Guillain–Barré syndrome during pregnancy. The aim of this Special issue is to provide a broad overview of current research on ZIKV and the host immune response from molecular to cellular features. We welcome research on the latest findings on ZIKV infection, including, but not limited to the following areas:

sexual transmission:

innate immunity in skin and reproductive organs; molecular pathways impacting ZIKV replication and interferon responses;

Zika virus infection in pregnancy, virus transmission across the placental and blood-brain barrier, and host immunity during pregnancy, especially at the maternal-fetal interface:

interactions between the virus and brain cells; cross-reactive immunity and antibody-mediated enhancement of infection;

therapeutic and prophylactic interventions of viral infection;

vaccination during pregnancy.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2025)



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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.

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