

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

Dr. In-Jeong Kim

Trudeau Institute, Saranac Lake, NY 12983, USA

Dr. Shelton Bradrick

Trudeau Institute, Saranac Lake, NY 12983, USA

Deadline for manuscript submissions

closed (31 March 2025)



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/183942

Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

[mdpi.com/journal/
microorganisms](https://mdpi.com/journal/microorganisms)





Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



[mdpi.com/journal/
microorganisms](https://mdpi.com/journal/microorganisms)



About the Journal

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

Dr. Nico Jehmlich

Department of Molecular Toxicology, UFZ-Helmholtz Centre for
Environmental Research, 04318 Leipzig, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

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).