

Special Issue

Harnessing Host-Pathogen-Microbiota Interactions for Sustainable Disease Management

Message from the Guest Editors

Pathogens transmitted by arthropods represent a global problem because they can affect plants, animals and humans, causing substantial economic losses and health concerns. Recent studies highlighted the importance of the interplay between the host and its microbial community (namely, the holobiont) in the context of the susceptibility and transmission of pathogens; however, these interactions are still poorly understood. Although the vast majority of this complex community is mutualistic or commensal, some of the indigenous microbes can confer resistance to or promote infection by pathogens and are commonly referred to as *pathobionts*. Understanding microbiome stability and resilience to perturbing factors, how the host discriminates pathogens from beneficial microbes, and how the pathogen in turn impacts its host and microbial community dynamics are essential concepts to help define novel microbiome-based opportunities to reduce vector capacity and the ability to transmit infectious disease.

Guest Editors

Dr. Tobias Weil

Fondazione Edmund Mach, Italy

Dr. Valentina Tagliapietra

Research and Innovation Centre, Fondazione Edmund Mach, Via Edmund Mach 1, 38010 San Michele all'Adige, TN, Italy

Deadline for manuscript submissions

closed (31 October 2021)



Pathogens

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.8
Indexed in PubMed



mdpi.com/si/41159

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

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





Pathogens

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.8
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

Prof. Dr. Hinh Ly

Department of Veterinary & Biomedical Sciences, University of Minnesota, Twin Cities, MN, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Infectious Diseases)