

## Special Issue

# Pathogenesis of West Nile Virus

### Message from the Guest Editor

West Nile virus (WNV) is a member of the genus of Flavivirus, a group of plus-sense, single-stranded RNA viruses. It has been the leading cause of viral encephalitis in the United States for nearly two decades. Human infection results from mosquito bite, blood transfusion, organ transplantation, breast feeding, and *in utero* or occupational exposure. The features of acute illness in humans range from WN fever to neuroinvasive conditions, including meningitis, encephalitis, acute flaccid paralysis, and death. In addition, up to 50% of WNV convalescent patients have been reported to have long-term neurological sequelae or chronic kidney disease, which occur 6 to 12 months after the acute infection. Currently, there is no specific therapeutic agent for treatment of WNV infection, and an approved vaccine is not available for humans. In this Special Issue, we would like to invite submission of original research or review manuscripts that cover virology, immunology, clinical studies, animal models, and transmission aspects of WNV infection. We hope the manuscripts from this Special Issue will provide new insights into WNV pathogenesis. I look forward to your contribution!

### Guest Editor

Prof. Dr. Tian Wang

Department of Microbiology & Immunology, University of Texas Medical Branch, Galveston, TX 77555, USA

### Deadline for manuscript submissions

closed (20 March 2020)



## Pathogens

an Open Access Journal  
by MDPI

Impact Factor 3.3  
CiteScore 6.8  
Indexed in PubMed



[mdpi.com/si/20061](https://mdpi.com/si/20061)

*Pathogens*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[pathogens@mdpi.com](mailto: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)