



## The Use of Insect Organisms to Study Human Pathogenic Fungi

Guest Editors:

### Dr. Sylwia Stączek

Department of Immunobiology,  
Faculty of Biology and  
Biotechnology, Maria Curie-  
Skłodowska University, Lublin,  
Poland

### Dr. Agnieszka Zdybicka- Barabas

Department of Immunobiology,  
Faculty of Biology and  
Biotechnology, Maria Curie-  
Skłodowska University, Lublin,  
Poland

Deadline for manuscript  
submissions:

**closed (31 October 2023)**

### Message from the Guest Editors

Pathogenic fungi pose a threat to human health and life, especially immunocompromised patients. Therefore, a number of studies are carried out to understand host-fungal pathogen interactions, elucidate the course of infection, and determine the virulence factors of fungi. The search for novel antifungal compounds is also an important area. Insects such as *Galleria mellonella* (Lepidoptera), *Drosophila melanogaster* (Diptera), *Bombyx mori* (Lepidoptera) have been widely used as alternative non-mammalian models for the study of fungal virulence and pathogenesis.

Research with the use of insect model organisms allows observing the development of infection in a living organism and determining the lethal doses of a given pathogen. Moreover, it enables testing the efficacy of conventional and novel antifungal drugs and determination of their dosage.

We would like to invite colleagues who study insect host-fungal pathogen interactions and virulence factors of fungi that are pathogenic for humans, as well as testing new antimycotics on insect model organisms, to submit their manuscripts for this Special Issue in the form of original research and reviews.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Hinh Ly

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

## 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.

## 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, PMC, Embase, PubAg, CaPlus / SciFinder, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (Microbiology) / CiteScore - Q2 (General Immunology and Microbiology)

## Contact Us

---

*Pathogens* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/pathogens](http://mdpi.com/journal/pathogens)  
[pathogens@mdpi.com](mailto:pathogens@mdpi.com)  
[X@Pathogens\\_MDPI](https://twitter.com/Pathogens_MDPI)