



## Fungal Pathogen as Potent Toxin for Pest and Disease Control 2.0

Guest Editors:

**Prof. Dr. Sengottayan Senthil-Nathan**

Sri Paramakalyani Centre for Excellence in Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi 627 412, Tamil Nadu, India

**Dr. Sengodan Karthi**

Department of Entomology, College of Agriculture, Food and Environment, University of Kentucky, Lexington, KY 40546, USA

Deadline for manuscript submissions:

**31 December 2023**

### Message from the Guest Editors

The use of fungi in controlling pest and disease is a unique technique. Even though there are many species of fungi that are pathogenic to pest and disease, only a limited number have been studied, and only six have been registered for pest and disease. Some attempts have been made to utilize fungi in controlling insects and disease, but with the development of insecticides and disease killers, the search for potent biocontrol agents has decreased since synthetic chemical sprays are comparatively low-priced and effective. However, in the last three decades, problems such as insect resistance and resurgence and their limited biodegradability in the ecosystem have brought about a regeneration in biocontrol agents such as entomopathogenic fungi.

This Special Issue intends to gather the most recent and original research and review papers on the identification, development, and exploitation of fungal pathogen against insect pests and plant disease through their mode action, including but not limited to molecular characterization, biology, physiology, and biochemistry.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. David S. Perlin**

Hackensack Meridian Health  
Center for Discovery and  
Innovation, 340 Kingsland Street,  
Nutley, NJ 07110, USA

## Message from the Editor-in-Chief

The *Journal of Fungi* (JoF, ISSN 2309-608X) is an international, peer-reviewed, scientific, open access journal that provides an advanced forum for studies related to pathogenic fungi, fungal biology, and all other aspects of fungal research. Research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

## 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, CAPlus / SciFinder, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (*Mycology*) / CiteScore - Q1 (*Ecology, Evolution, Behavior and Systematics*)

## Contact Us

---

*Journal of Fungi*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/jof](http://mdpi.com/journal/jof)  
[jof@mdpi.com](mailto:jof@mdpi.com)  
[@JoF\\_MDPI](https://twitter.com/JoF_MDPI)