Special Issue

Ecological Roles and Regulation of Mycotoxin Production in Fungi

Message from the Guest Editors

This Special Issue is focused on highlighting research into the putative ecological functions and functional regulation of mycotoxins in agricultural systems. Articles exploring these aspects of the production of major mycotoxins of food safety importance such as aflatoxins, deoxynivalenols, fumonisins, ochratoxins, and zearalenone are of particular interest. Research exploring host–pathogen interactions, fungal genetics, genomics, "omics" studies, environmental interactions, microbiomes, biotechnology, and novel control measures (novel fungicides, biological controls, cultural practices) are also encouraged. Original research, short communications, and review articles are welcome.

Keywords:

- biological control
- biotechnology
- environmental interactions
- fungal ecology
- fungal genetics
- host–pathogen interactions
- microbiomes
- mycotoxins
- omics
- plant pathology

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Deadline for manuscript submissions

closed (31 May 2023)

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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.

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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).

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