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Toxigenic Fungi and Mycotoxins: Ecology, Occurrence, and Prevention in a Climate Change Scenario

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Message from the Guest Editors

Mycotoxins are secondary metabolites produced by various fungal species toxic to humans and animals. Contamination by toxigenic fungi and mycotoxins in agricultural commodities may occur at various points in the food/feed chain: at pre-harvest, harvest, and post-harvest. The global warming of the planet is contributing to a worldwide redistribution of fungal communities, and new areas are suffering the contamination by mycotoxins across the globe.

In this context, this Special Issue of Microorganisms invites you to send novel contributions concerning any aspect related to the effect of climate change on toxigenic fungi distribution, focusing on their ecological behavior and mycotoxin production, new risk areas, and effective preventive measures. The topics comprising this Special Issue are toxigenic fungi biodiversity and genomic characterization, new ecological behaviors, new temporal and spatial distribution of toxigenic fungi and mycotoxins, predictive models, microbial resilience and adaptation, and pre- and post-harvest preventive actions.

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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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