

Special Issue

Advances in Ochratoxin A Research—Implications for Detoxification, Food Safety, and Human Health

Message from the Guest Editor

Ochratoxin A (OTA) is a mycotoxin produced primarily by *Aspergillus* and *Penicillium* species, posing significant threats to food safety, animal health, and human well-being. Despite extensive research, many aspects of OTA biosynthesis, contamination, metabolism/degradation, and microbial interactions remain unresolved. This Special Issue will explore recent advancements in detection, (bio)degradation, and mitigation strategies for OTA, focusing on microbial producers, detoxification mechanisms, and innovative biocontrol approaches. We welcome original research and review articles covering a wide range of topics, including the molecular biology of OTA-producing fungi, the potential role of microbiota in OTA degradation, novel detection techniques, and risk assessment models. Contributions discussing the impact of OTA on food and environmental systems, as well as emerging strategies for reducing OTA contamination, are particularly encouraged. By bringing together experts in microbiology, molecular biology, enzymology, toxicology, and food science, this Special Issue will advance our understanding of OTA and promote safer food production practices.

Guest Editor

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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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