



## Microbial and Plant Phytotoxins

Guest Editors:

**Dr. Marco Masi**

Department of Chemical  
Sciences, University of Naples  
Federico II, Naples, Italy

**Prof. Dr. Antonio Evidente**

1. Department of Chemical  
Sciences, University of Naples  
“Federico II”, Complesso  
Universitario Monte S. Angelo, Via  
Cintia 4, 80126 Napoli, Italy  
2. Institute of Sciences of Food  
Production, National Research  
Council, Via Amendola 122/O,  
70125 Bari, Italy

Deadline for manuscript  
submissions:  
**closed (15 August 2021)**

### Message from the Guest Editors

Dear Colleagues,

Phytotoxins are generally considered secondary metabolites produced by phytopathogenic fungi and/or bacteria that play an important role in the disease induction on the host plant. Microbial phytotoxins are able to cause serious diseases to agrarian, ornamental, and forest plants with consequently heavy economic losses in food quality and production and environmental heritage. When microbial phytotoxins are produced by microbes that are pathogenic for weeds, including parasitic plants, they represent an important tool to develop bioherbicides. In particular, in agriculture, they could be used to find new potential bioherbicides to combat weeds, including parasitic plants, through seed inhibition or stimulation and suppression of radical growth.

Thus, this Special Issue of *Toxins* will report articles describing both microbial and plant phytotoxins, focusing on their biological properties and their potential practical application in different fields.

Dr. Marco Masi  
Prof. Dr. Antonio Evidente  
*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Jay Fox**

Department of Microbiology,  
University of Virginia,  
Charlottesville, VA, USA

## Message from the Editor-in-Chief

Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

## 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**, **MEDLINE**, **PMC**, **Embase**, **CAPLus / SciFinder**, **AGRIS**, and **other databases**.

**Journal Rank:** JCR - Q1 (*Toxicology*) / CiteScore - Q1 (*Toxicology*)

## Contact Us

---

*Toxins* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/toxins](http://mdpi.com/journal/toxins)  
[toxins@mdpi.com](mailto:toxins@mdpi.com)  
[X@Toxins\\_Mdpi](https://twitter.com/Toxins_Mdpi)