



Characterization and Action Mechanism of Phytotoxins

Guest Editor:

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 (25 August 2023)

Message from the Guest Editor

Phytotoxins are microbial secondary metabolites that play an important role in the development of plant disease symptoms. The purification and characterization of these toxic metabolites today have become much simpler and more efficient with respect to the development of new chromatographic and spectroscopic methods. Very important is the determination of their absolute configuration strictly close the biological activity. Thus, pure metabolites could have an important practical application in agriculture, such as biopesticides. Phytotoxins could also be an important tool to develop specific and sensitive diagnostic methods for plant disease and can be used to obtain crop varieties. Some could also have application in medicine with respect to combating severe human diseases such as malaria, yellow and dengue fevers and cancer. Phytotoxins could be used to carry out structure–activity relationship studies to modulate their activity and specificity and to prepare probed derivatives suitable for study on their mode of action.

Thus, this Special Issue of *Toxins* will report articles with respect to phytotoxin characterization and the results of studies on their mode of action.





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, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/toxins
toxins@mdpi.com
[X@Toxins_Mdpi](#)