Special Issue

Characterization and Action Mechanism of Phytotoxins

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 develope 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.

Guest Editor

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About the Journal

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.

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