

Special Issue

Phytotoxins from Threat to Cure: Structure Characterization and Action Mechanism in Drug Discovery

Message from the Guest Editor

The worldwide contamination of food and feeds with phytotoxins is a significant problem. Despite being noxious metabolites that can be detrimental to human health when consumed in high amounts, they have been utilized as potentially useful instruments due to their biological activities. The target of converting these phytotoxins from threats into cures requires understanding their molecular structures, phenotypic effects, physiological effects, genetic approaches, and the proper use of in silico studies. Unequivocal determination of the molecular target site requires proof of activity on the function of the target protein, as well as proof that a resistant form of the target protein confers resistance to the target organism. Therefore, a better understanding of the mechanism of action of phytotoxins and metabolism is necessary to avoid problems caused by them and to minimize their negative effects on human health. To date, phytotoxins have inspired the development of numerous approved pharmaceuticals. In this context, we welcome experts and scholars from around the world to share their findings on the bioactivities exhibited by different phytotoxins.

Guest Editor

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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.

Editor-in-Chief

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