



toxins



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Biological Activities and Potential Applications of Phytotoxins

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Message from the Guest Editor

Plants and microbes are able to produce several specialized (secondary) metabolites belonging to different classes of natural compounds. Among them, phytotoxins are substances which are poisonous or toxic for plants. They seem to play an important role in plant-pathogen interactions when produced by phytopathogenic fungi or bacteria, while plant-produced phytotoxins—including allelochemicals—seem to be involved in plant-plant interactions. Thus, the determination of their chemical structure or their identification are fundamental for chemical ecology and for understanding their function. However, most of these compounds have already shown other interesting biological activities and potential applications in fields such as agriculture or medicine. In fact, some phytotoxins have already been proposed for the development of biopesticides, cosmetics, and drugs.

The present Special Issue will collect studies on the isolation and characterization of new bioactive phytotoxins or on the evaluation of the biological activities of known phytotoxins for their potential application in different fields.



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Special Issue



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Message from the Editor-in-Chief

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