Special Issue

Advances in Understanding Allelopathic Interactions between Weeds and Crops

Message from the Guest Editors

Allelopathy refers to the impact of plants upon neighboring plants and/or their associated microflora and/or macrofauna by the production of allelochemicals; often, these allelochemicals typically interfere with plant growth, but they may also result in the stimulation of growth. The field of allelopathy addresses research on the allelochemicals regulating these interactions, as well as the organisms producing these chemicals, or those directly or indirectly affected by these associations. The coexistence of crops and weed in the field evokes independent reactions between these two species; particularly, the respective exudates from weed and crops arouse allelopathic responses in crops and detoxification in weed. This Special Issue mainly focuses on the allelopathic interactions between weed and crops—including allelochemical molecule–protein interactions and the transcriptome and proteome responses in plants—together with the belowground interactions between these species, and aims to uncover the communication and reaction mechanisms of crop–weed coexistence.

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