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Induced Resistance of Plants Volume II

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Message from the Guest Editors

Dear Colleagues,

It is well-known that plants have developed a wide variety of defense mechanisms in order to protect themselves against different stressors, such as pathogens. These defense mechanisms can be constituted by pre-formed barriers or inducible responses when defense is activated upon detection of a pathogen attack. The plant hormones ethylene (ET), jasmonic acid (JA), and salicylic acid (SA) play a major regulatory role in plant immune responses. In addition, induced resistance is the phenomenon in which a plant, once appropriately stimulated, either by biological or chemical inducers, exhibits enhanced resistance against a future attack by pathogenic microbes and herbivorous insects.

Therefore, the aim of this Special Issue is to review and discuss novel contributions of the mechanisms regulating plant-induced resistance against biotic stress by natural or chemical compounds, as well as their mode of action based on transcriptomics, metabolomics, proteomics, and microRNAs analysis, contributing to sustainable agriculture.

If you have any plans, please let us know. You could write to us or contact the assistant editor at juicy.yang@mdpi.com



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Special Issue



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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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