## **Special Issue**

## Molecular Biology of Plant Disease Resistance

## Message from the Guest Editor

Defense Mechanisms of Amino Acid from Antifungal Bacteria (Bacillus subtilis) The chemical elicitor beta-Aminobutyric acid (BABA) induces a systemic defense response against various plant pathogens. It has been demonstrated in previous studies that during plant pathogen infection. BABA enhances the activation of defense genes related to the salicylic signaling pathway in plants. Until now, research on the various strains of the antimicrobial bacteria Bacillus subtilis has focused on the biological control and identification of antimicrobial substances. In a recent study, it was found that amino acids and lysine are produced in large quantities in *B. subtilis* and play an important role in the expression of resistance genes in a cucumber plant against powdery mildew. Therefore, it is necessary to pay attention not only to the direct antimicrobial effect of antimicrobial substances on plant pathogens but also to the fact that resistance-inducing substances such as amino acids enhance the resistance of plants.

### **Guest Editor**

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#### Deadline for manuscript submissions

closed (28 August 2025)



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