

## Special Issue

# Decoding Plant–Pathogen Interactions: Unraveling Signaling and Defense Mechanisms

### Message from the Guest Editors

The most crucial research area in modern plant pathology is unraveling the signaling and defense mechanisms triggered in plants by various pathogens. Moreover, advantageous and unadventurous changes in environmental conditions such as light, temperature, humidity or soil composition can influence the occurrence of plant diseases or plant tolerance/resistance to viruses, bacteria and fungi. In this Special Issue, we focus on the metabolic and genetic determinants of crop plant diseases and resistance, which can be investigated using many methods, including microscopic, biochemical and transcriptomic methods. The topics of interest are as follows:

- Plant disease development and its determinants;
- Metabolic profiles and secondary metabolite biosynthesis in susceptible and resistant plants;
- Analysis of the plant transcriptome during a pathogen attack.

In this Special Issue, we welcome original research papers performed under laboratory and field conditions and reviews on all aspects of plant–pathogen interactions, including their mechanisms and signaling.

### Guest Editors

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### Deadline for manuscript submissions

closed (30 June 2025)



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