

Special Issue

Soil-Borne and Air-Borne Fungi in Crop Systems: Impacts, Interactions, and Management Strategies

Message from the Guest Editors

Agriculturally important soil-borne and air-borne fungal pathogens can be destructive players in crop production worldwide, causing reduced crop performance, decreased yield, higher production costs, and affecting global food security by food contamination with mycotoxins. We welcome original research articles and comprehensive reviews concerning multiple aspects of the investigation of soil-borne and air-borne fungal pathogens impacting crop systems. There is a particular focus on the following topics:

- Methods for isolation, identification, and detection of pathogens (molecular, spectroscopy, imaging).
- Sustainable prevention (biocontrol, natural compounds, resistant varieties).
- Management strategies (addressing pesticide resistance and mycotoxins concerns, integrating digital tools with precision agriculture for early and accurate disease control).
- Understanding pathogenic mechanisms (interactions among pathogens, hosts, soil, natural microflora, rhizosphere, and environmental conditions; genomics, metabolomics, transcriptomics, proteomics, metagenomics, and epigenetics studies are welcome and will be prioritized)

Guest Editors

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