

Special Issue

Horticultural Plant Disease Management Using Advanced Biotechnology

Message from the Guest Editors

Plant disease management protects crop yield, quality, and sustainability. As food demand rises and climate change exacerbates agricultural challenges, the effective management of plant diseases is more urgent than ever. Traditional methods, such as chemical treatments and selective breeding, have inherent limitations.

Recent advances in biotechnology are opening up new pathways for disease management. Techniques like next-generation sequencing (NGS), CRISPR-Cas gene editing, RNA interference (RNAi), and using plant-associated microbiota and biocompounds are transforming horticulture by strengthening plant resistance to pathogens.

Integrating these advanced biotechnological techniques with traditional breeding methods can revolutionize horticultural practices. This Special Issue, entitled “Horticultural Plant Disease Management Using Advanced Biotechnology”, contributions are welcome to be in the form of original research, reviews, short communications, and opinion articles, particularly those that explore the intersection of biotechnology, microbiota, biocompounds, and horticultural disease management.

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Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
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