Special Issue

Role of RNA Interference (RNAi) Technology in Horticulture

Message from the Guest Editors

RNAi, a mechanism that regulates gene expression at the post-transcriptional level, has emerged as a powerful tool for modulating gene function in various organisms, including plants. This Special Issue examines the burgeoning applications, advancements, and implications of RNAi in enhancing horticultural practices. It covers a broad spectrum of RNAi-based applications in horticulture, encompassing crop improvement, fruit quality enhancement, pest and disease management, post-harvest handling, ornamental horticulture, and environmental sustainability. It explores how RNAi technology can enhance the nutritional content, flavor, and appearance of fruits and vegetables, promoting their commercial value and consumer acceptance; target pests and diseases precisely, reducing dependency on harmful chemical agents, extending post-harvest shelf life, and beautifying ornamental plants; and be effectively utilized to design and implement sustainable, eco-friendly solutions that aid in biodiversity conservation and minimize the overall environmental impact of horticultural practices.

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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

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