



horticulturae



Special Issue Reprint

Innovative Micropropagation of Horticultural and Medicinal Plants

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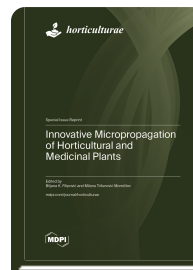
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Micropropagation is a tissue culture technology used for the large-scale production of economically important horticultural and medicinal plants, the conservation of rare and endangered plant species, and the fundamental study of basic plant developmental processes. Plant tissue culture is an important platform for the production of specialized metabolites under controlled conditions, whose modifications and abiotic and biotic elicitors can enhance the chemical diversity and variation within the proportions of different bioactive compounds. This reprint from the Special Issue "Innovative Micropropagation of Horticultural and Medicinal Plants" compiles thirteen peer-reviewed research papers that provide perspectives for future research directions. The collected articles explore promising innovative techniques and practices to improve the micropropagation systems and increase the production of biomass and specialized metabolites while reducing operational costs, such as the application of the temporary immersion system, integrating machine learning models, and the cold plasma technique. This reprint highlights the innovative techniques and draws attention to new, efficient, and sustainable micropropagation systems that represent the latest advances in the field of great interest to scientists and industrial development purposes.



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