

## Special Issue

# In Vitro Techniques on Plant Propagation and Genetic Improvement

### Message from the Guest Editors

In vitro propagation is widely applied in various plants. It is a suitable way to ensure the genetic conservation of any endangered plant species or any other plant genetic resources. In vitro propagation in plants is highly species-specific and has been influenced by various factors such as carbon sources, plant growth regulators, light quality, and light intensity. Techniques such as callus culture, protoplast culture, organogenesis, and regeneration of protocorms like body (PLB), anther culture, ovary culture, and somatic embryogenesis are commonly used for in vitro plant propagation. In vitro propagation has also been extensively used for plant improvements through the application of embryo rescue, protoplast fusion, in vitro fertilization, and ploidy manipulation. Additionally, it has been used for genetic transformation and bioactive compounds or secondary metabolites production. Therefore, we welcome manuscripts on in vitro plant propagation, crop improvement, bioactive compounds, genetic conservation, genetic and genomic studies, epigenetic and epigenomic studies, transcriptomics, etc.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 December 2024)



## Plants

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### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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### Editor-in-Chief

Prof. Dr. Dilantha Fernando  
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