

## Special Issue

# Plant Tissue Culture and Plant Somatic Embryogenesis—3rd Edition

### Message from the Guest Editors

Plant in vitro cultures and plant somatic embryogenesis are the focus of the 3rd Edition of the Special Issue entitled 'Plant Tissue Culture and Plant Somatic Embryogenesis'. The methods employed to propagate and regenerate plant in vitro cultures are continually being developed and enhanced. Micropropagation is widely used to produce high-quality cuttings and is also employed in gene banks for the in vitro conservation and storage of plant genetic resources. Micropropagation is also a crucial tool for the production of specific secondary metabolites from medicinal plants. Somatic embryogenesis is one of the most efficient plant regeneration methods. However, the genetic stability of plants can be disrupted during micropropagation and regeneration processes. Therefore, ensuring the true-to-type nature of plants obtained through these methods requires confirmation of their genetic stability. Molecular markers, applicable at any stage of plant development, are particularly effective for this purpose. The genetic variability induced by techniques such as mutagenesis or genetic transformation in in vitro cultures also facilitates the breeding of novel crop cultivars.

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### Deadline for manuscript submissions

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