



In Vitro Techniques on Plant Propagation and Genetic Improvement

Guest Editors:

Dr. Hasan Mehraj

Graduate School of Agricultural
Science, Kobe University,
Rokkodai, Nada-ku, Kobe 657-
8501, Japan

Dr. Monika Tuleja

Department of Plant Cytology
and Embryology, Institute of
Botany, Jagiellonian University,
Gronostajowa 9, 30-387 Kraków,
Poland

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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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Prof. Dr. Dilantha Fernando
Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

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Plants Editorial Office
MDPI, Grosspeteranlage 5
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