

Special Issue

Plant Tissue Culture and Plant Regeneration

Message from the Guest Editors

Plant tissue culture and plant regeneration constitute crucial facets of plant biotechnology, spanning across several scientific and industrial domains. In recent years, we have witnessed significant advancements in the comprehension of the underlying mechanisms controlling in vitro plant regeneration, accompanied by the rapid evolution of specialized equipment and strategies for enhancing this process. This development has garnered the attention of both plant scientists and industries. Nonetheless, there exists an ongoing demand to further develop our strategies in order to select and regenerate superior genotypes, thereby refining protocols for enhanced reproducibility. In this context, a meticulous fine-tuning process is imperative. In light of these developments, we are excited to announce a Special Issue welcoming contributions covering all aspects of plant tissue culture and biotechnological processes, including the use of algorithms for improving protocols, aspects of somatic embryogenesis and organogenesis, cryopreservation, the use of temporary immersion bioreactors and new gene-editing technology enhancing shoot proliferation.

Guest Editors

Dr. Douglas A. Steinmacher

Viveteck Agrociências, Marechal Cândido Rondon 85960-000, Brazil

Dr. Taras Pasternak

Instituto de Bioingeniería, Universidad Miguel Hernández, 03202 Elche, Spain

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

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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, 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.

Editor-in-Chief

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

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