

Special Issue

Plant Tissue Culture and Secondary Metabolites Production, Third Edition

Message from the Guest Editors

Plant cell tissue and organ culture is an indispensable fundamental technique, complementary to conventional plant breeding, for optimized large-scale clonal propagation, germplasm conservation, somatic embryogenesis, and disease elimination in plantlets. In addition to these applications, this technique has been intensively utilized in recent decades for plants that are important from a phytochemical perspective for the biotechnological delivery of pharmacologically relevant secondary metabolites. The latter is of exceptional importance for species that are threatened in their indigenous habitats. Thus, the use of in vitro culture is a sustainable additive approach to traditional methods of propagation. Furthermore, in vitro culture represents a suitable method for developing the controlled production of valuable natural metabolites in controlled laboratory conditions, without affecting the plants' natural habitats.

Guest Editors

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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

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