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# Plant Tissue and Organ Cultures for Crop Improvement in Omics Era

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## **Message from the Guest Editor**

Plant tissue and organ cultures have been employed over the years for plant regeneration, multiplication, germplasm conservation, production of secondary metabolites and improvement of genetic characteristics by somaclonal and gametoclonal variations. In the last few decades, plant tissue cultures have also been used as experimental systems for genetic transformation and genome editing of several plant species for the development of smart crops with improved quality and yield. Thus, the plant tissue and organ culture constitute one of the most promising tools in research and biotechnology. Therefore, this Special Issue of 'Plant Tissue and Organ Cultures for Crop Improvement in Omics Era' will be focused on the most recent studies on the following topics (but not exclusively): gene expression during organogenesis and somatic embryogenesis, transcription and translation studies in gene regulation, genetic and epigenetic changes associated with in vitro culture conditions, gene transfer, genome editing, metabolic engineering, molecular breeding.











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## **Message from the Editor-in-Chief**

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