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## Advances in Plant Regeneration II

Guest Editors:

**Prof. Dr. José Manuel Pérez Pérez**

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

**Prof. Dr. Pilar S Testillano**

Pollen Biotechnology of Crop  
Plants lab., Biological Research  
Center, CI3-CSIC, 28040 Madrid,  
Spain

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submissions:

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### Message from the Guest Editors

It is well known that some plant cells are able to regenerate new organs after tissue damage or in response to specific stress treatments and/or exogenous hormone applications. Whole plants can be regenerated even from single protoplasts through de novo organogenesis or somatic embryogenesis. Recent findings have improved our understanding about the molecular mechanisms required for cell reprogramming during plant regeneration. Genetic studies also suggest the involvement of epigenetic regulation during de novo organogenesis. However, there are still some unidentified developmental mechanisms in non-model and crop plants that allow this striking plasticity to be maintained. A better understanding of plant regeneration would help us advance in the optimization of tissue culture, with endless applications in plant micropropagation and biotechnology. This Special Issue of *Plants* will provide additional insights into the physiological and molecular framework of plant regeneration, the evolutionary conservation of some key regulators, and how developmental and environmental constraints influence these regulatory mechanisms.



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**Special** Issue



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## Editor-in-Chief

**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  
4052 Basel, Switzerland

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