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# **Advances in Plant Regeneration II**

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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 provide additional Plants will insights into physiological and molecular framework regeneration, the evolutionary conservation of some key regulators, and how developmental and environmental constraints influence these regulatory mechanisms.













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

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