Special Issue

Plant Embryogenesis

Message from the Guest Editor

Embryogenesis plays a crucial role in the life cycle of plants. The fusion of the haploid female (egg cell) and male (sperm) gametes gives rise to a diploid zygote (the first cell of the sporophytic generation). It comprises three elements: establishment of organization as an embryo, accumulation of food reserves in the embryo, and acquisition of desiccation tolerance and seed dormancy. These elements are accurately regulated by many factors, including phytohormones, proteins, transcription factors, and other substances associated with embryogenesis. Furthermore, successful embryogenesis is essential for plant fertility and reproductive efficiency. Despite intense investigation, there are still open questions and challenges on this fascinating field. This Special Issue is open to original research papers, reviews, and other forms of scientific communication that increase our fundamental understanding of plant embryogenesis and its regulation, including genome, epigenome, transcriptome, proteome, and metabolome. All studies at the structural, genetic, biochemical, and molecular levels in many different types of plants (both in model and non-model plants) are most welcome.

Guest Editor

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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

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