

## Special Issue

# Plant Embryogenesis

### Message from the Guest Editors

Embryogenesis is a fundamental process in plant ontogeny. The fusion of a paternal sperm and a maternal egg generates a zygote and initiates the series of developmental events to set the basic body plan of the future plant. Therefore, the embryogenesis is a dynamic procedure, involving the shift from the haploid gametophytic to the diploid sporophytic generation, metabolic activation, pattern formation, and dormancy in seed maturation. Furthermore, successful embryogenesis is essential for plant fertility and reproductive fitness. Thus, embryonic regulations are important not only for our understanding of plant evolution and the diversity of survival strategies of various plant species but also for bioengineering to increase plant productivity in agriculture. Despite intense investigation, there are still various open questions in this fascinating field. Authors are invited to submit papers focused on plant embryogenesis and its regulation, including through genes, proteins, metabolites, and nutrition to this special issue.

---

### Guest Editors

Dr. Minako Ueda

Graduate School of Life Sciences, Tohoku University, Sendai, 980-8578, Japan

Dr. Daisuke Kurihara

Institute of Transformative Bio-Molecules (ITbM), Nagoya University, 464-8601 Aichi, Japan

---

### Deadline for manuscript submissions

closed (31 December 2020)



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/48750](https://mdpi.com/si/48750)

*Plants*

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

[plants@mdpi.com](mailto:plants@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[plants](https://mdpi.com/journal/plants)





# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/journal/  
plants](https://mdpi.com/journal/plants)



## About the Journal

### 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

Prof. Dr. Dilantha Fernando  
Department of Plant Science, University of Manitoba, Winnipeg, MB  
R3T 2N2, Canada

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)