

## Special Issue

# Mechanical Signaling in Plants

### Message from the Guest Editor

The primary purpose of this Special Issue of *Plants* is to provide a wide audience with the fun of seeing a wide range of plants' responses to mechanical stimuli. Recent studies have unraveled remarkable behaviors of plants sensing and responding to touch, bending, gravity, invasive microorganisms, and herbivorous insects, all of which affect plant growth and development. In addition, genetic and electrophysiological studies and state-of-the-art techniques, such as bioimaging, have brought about the discovery of mechanosensitive channels as mechanosensors and astonishingly ingenious mechanisms of mechanical signaling in plants. As our fundamental understanding of sensors and mediators of mechanical stimuli has deepened at the molecular level, we have realized that much also remains to be discovered. This Special Issue will highlight the roles of molecules, mechanisms, and systems involved in mechanosensing and mechanotransduction at the molecular, cellular, and tissue levels, as well as the whole plant level.

### Guest Editor

Prof. Dr. Hidetoshi Iida

Department of Biology, Tokyo Gakugei University, Nukuikita-machi, Koganei-shi, Tokyo 184-8501, Japan

### Deadline for manuscript submissions

closed (15 November 2020)



## Plants

an Open Access Journal  
by MDPI

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/27087](https://mdpi.com/si/27087)

*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/  
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)