



*plants*



an Open Access Journal by MDPI

## Long-Distance Signals and Systemic Adaptation Response on Action of Stressors in Plants

Guest Editor:

**Dr. Vladimir Sukhov**

Department of Biophysics, N.I.  
Lobachevsky State University of  
Nizhny Novgorod, Nizhny  
Novgorod 603022, Russia

Deadline for manuscript  
submissions:

**closed (28 February 2021)**

### Message from the Guest Editor

Dear colleague,

Long-distance signals (including electrical, hydraulic, chemical, ROS and other signals), which quickly propagate from irritated zone to other parts of the plant body, can be important linkers between the local action of stressors and induction of the systemic response. Long-distance signals of different types (e.g. electrical and ROS signals, hormonal and hydraulic signals, etc), role of long-distance signals in information processing in plants, simulation of plant long-distance signals, using of long-distance signals and physiological responses caused by them in monitoring of plants, etc. This Special Issue of *Plants* will highlight the all aspects of participation of long-distance signals in the systemic adaptation response on action of stressors in plants. Reviews and research articles focused on a complex analysis of physiological roles of long-distance signals in plants will be especially appropriated for the Special Issue



[mdpi.com/si/49679](https://mdpi.com/si/49679)

# Special Issue



# plants



an Open Access Journal by MDPI

## 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

*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.

## 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 (*Plant Science*)

## Contact Us

---

*Plants* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/plants](http://mdpi.com/journal/plants)  
[plants@mdpi.com](mailto:plants@mdpi.com)  
[X@Plants\\_MDPI](https://twitter.com/Plants_MDPI)