



plants



an Open Access Journal by MDPI

Communication in Plants. Mechanisms for Signal Perception, Emission, and Possible Physiological/Ecological Roles

Guest Editors:

Prof. Dr. Laura Arru

Department of Life Sciences,
University of Modena and Reggio
Emilia, 42122 Reggio Emilia, Italy

Prof. Dr. Luca Forti

Department of Life Sciences,
University of Modena and Reggio
Emilia, 41125 Modena, Italy

Prof. Dr. Moreno Bondi

Department of Life Sciences,
University of Modena and Reggio
Emilia, 41125 Modena, Italy

Deadline for manuscript
submissions:

closed (30 June 2024)

Message from the Guest Editors

Plants can perceive and emit many types of signals, from volatile organic compounds to acoustic, magnetic, and electrical signals, among others, through which they can communicate with each other or with organisms not belonging to the plant kingdom. They can also communicate through touch or light, take advantage of mycorrhizal networks, discriminate neighbors with respect to kin- and self-recognition, and even possibly distinguish whether neighbors are members of their own species.

The Special Issue of *Plants* on “Communication in Plants. Mechanisms for Signal Perception, Emission, and Possible Physiological/Ecological Roles” welcomes the submission of review and research papers or short communications on topics related to the generation, perception, integration and processing of the communication signals used by plants—at the biophysical, biomolecular, physiological, or ecological level—to communicate among themselves and to interact with other organisms.



mdpi.com/si/132901

Special Issue



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 (Ecology, Evolution, Behavior and Systematics)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)