



*plants*



an Open Access Journal by MDPI

## Deep Learning in Plant Sciences

Guest Editors:

**Dr. Ana Barradas**

**Dr. Jorge Marques da Silva**

**Dr. Pedro Mariano**

**Dr. Tae-Hyuk Ahn**

Deadline for manuscript  
submissions:

**closed (20 June 2023)**

### Message from the Guest Editors

Dear Colleagues,

With the advent of computational technologies, new approaches have been proposed by researchers to address challenging problems in plant sciences. The combination of deep learning and plant research has brought about major breakthroughs in diverse areas of plant biology, such as phenology, identification and classification, disease detection, plant phenomics and high-throughput phenotyping.

In this Special Issue, we welcome contributions at the intersection of deep learning and plant studies with a broad application, including, but not limited to, agriculture, industry, basic research, and software development. We welcome original research articles, methodology, reviews, and short communications.

Dr. Ana Barradas  
Dr. Jorge Marques da Silva  
Dr. Pedro Mariano  
Dr. Tae-Hyuk Ahn  
*Guest Editors*



[mdpi.com/si/121474](https://mdpi.com/si/121474)

# 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)