



*plants*



an Open Access Journal by MDPI

## Plant Molecular Evolution and Population Ecology

Guest Editor:

**Prof. Dr. Pei-Chun Liao**

Department of Life Science,  
National Taiwan Normal  
University, 88 Ting-Chow Rd.,  
Sec. 4, Taipei, Taiwan, China

Deadline for manuscript  
submissions:

**closed (15 April 2023)**

### Message from the Guest Editor

Local adaptation and phenotypic plasticity are two mechanisms by which organisms resist environmental stress, especially for plants. Plants developed unique evolutionary and ecological processes facing environmental changes and spatial heterogeneity. Through increasing studies of the model and non-model species, our understanding of science has evolved from the description of phenomena to process, and goes deep into mechanism. The evolution of plants is closely related to growth environment. The population change of a single plant will change the entire community structure and even affect the balance of whole ecosystem. It is not only intersection between space and time, but also the link between ecology and evolution. Studying plant adaptation from a molecular perspective to the environmental scale is essential for understanding why and how a plant grows in specific environment.

This Issue accepts studies on how genetic evolution and population ecological mechanisms face environmental changes or spatial heterogeneity, including molecular evolution to population ecology. We welcome any study using tools of ecology, genetics, genomics, proteomics, metabolomics, and other omics.



[mdpi.com/si/73632](https://mdpi.com/si/73632)

**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)