



## Genetic Improvement in Coconut

Guest Editors:

**Prof. Dr. Wei Xia**

College of Tropical Crops, Hainan University, Haikou 570228, China

**Dr. Yong Xiao**

College of Tropical Crops, Hainan University, Haikou 570228, China

**Dr. Siwaret Arikit**

Department of Agronomy,  
Faculty of Agriculture at  
Kamphaeng Saen, Kasetsart  
University, Nakhon Pathom  
73140, Thailand

Deadline for manuscript  
submissions:

**1 January 2025**

### Message from the Guest Editors

Dear Colleagues,

Coconut palm (*Cocos nucifera* L.), a typical tropical tree, belongs to the Arecaceae family and grows in 93 countries across more than 11 million hectares. This tree holds significant value for its versatile fruit: coconut water is a refreshing beverage, which is nutritious and beneficial for health; and coconut meat is rich in oil and processed into numerous economic products. To promote the breeding process of coconut, it is critical to obtaining genetic information for the usage of molecular-assisted breeding and genomic editing technology in coconut. Analyzing the genetic basis of coconut agronomic trait variation, identifying the candidate genes responsible, screening and validating elite alleles, and developing molecular markers are vital for genetic improvement in coconut. This Special Issue of *Plants* will focus on dissection the genetic basis for important agronomic traits, identification of natural mutation associated with trait variations and development of molecular markers, usage of multiple omics to screen and validate the genes associated with target traits.





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, 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)